



## Field & Technical Services

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

June 19, 2023

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

**RE: First Semi-Annual 2023 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 First Semi-Annual 2023 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), semi-volatile organic compounds (SVOCs), and dioxins and furans from monitoring wells W-04AR2, W-06A, W-06C, W-10AR2, W-12A, W-12CR, W-28C, W-30A, and W-30C during the first semi-annual 2023 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 April 25, 2023 through April 27, 2023. 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
Chrysene	0.2	W-04AR2
<b>PAL Exceedance</b>		
Benzene	0.5	W-10AR2
Benzo(a)pyrene	0.02	W-04AR2
Benzo(b)fluoranthene	0.02	W-04AR2
Chrysene	0.02	W-04AR2
2,3,7,8-TCDD TEQ*	3.00E-06	W-30A

\* At the request of WDNR, 2,3,7,8-TCDD TEQ values are compared to the congener-specific PAL and ES for 2,3,7,8-TCDD.

Based on these results, three wells (W-04AR2, W-10AR2, and W-30A) had concentrations of one or more constituents above a regulatory standard. The Groundwater Monitoring Data Certification form, provided as Appendix A, indicates that some of the data associated with the first semi-annual 2023 sampling event exceeded the Wisconsin PALs and ESs.

The data evaluation performed by FTS for the first semi-annual 2023 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.

*Mr. John Sager, Wisconsin Department of Natural Resources  
Re: First Semi-Annual 2023 Groundwater Monitoring Results  
Former Koppers Inc. Superior, WI Facility  
June 19, 2023*

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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 - WA/5  
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		April 25 - April 27, 2023

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003) April 2023

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.

 June 16, 2023  
Signature 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 \_\_\_\_\_

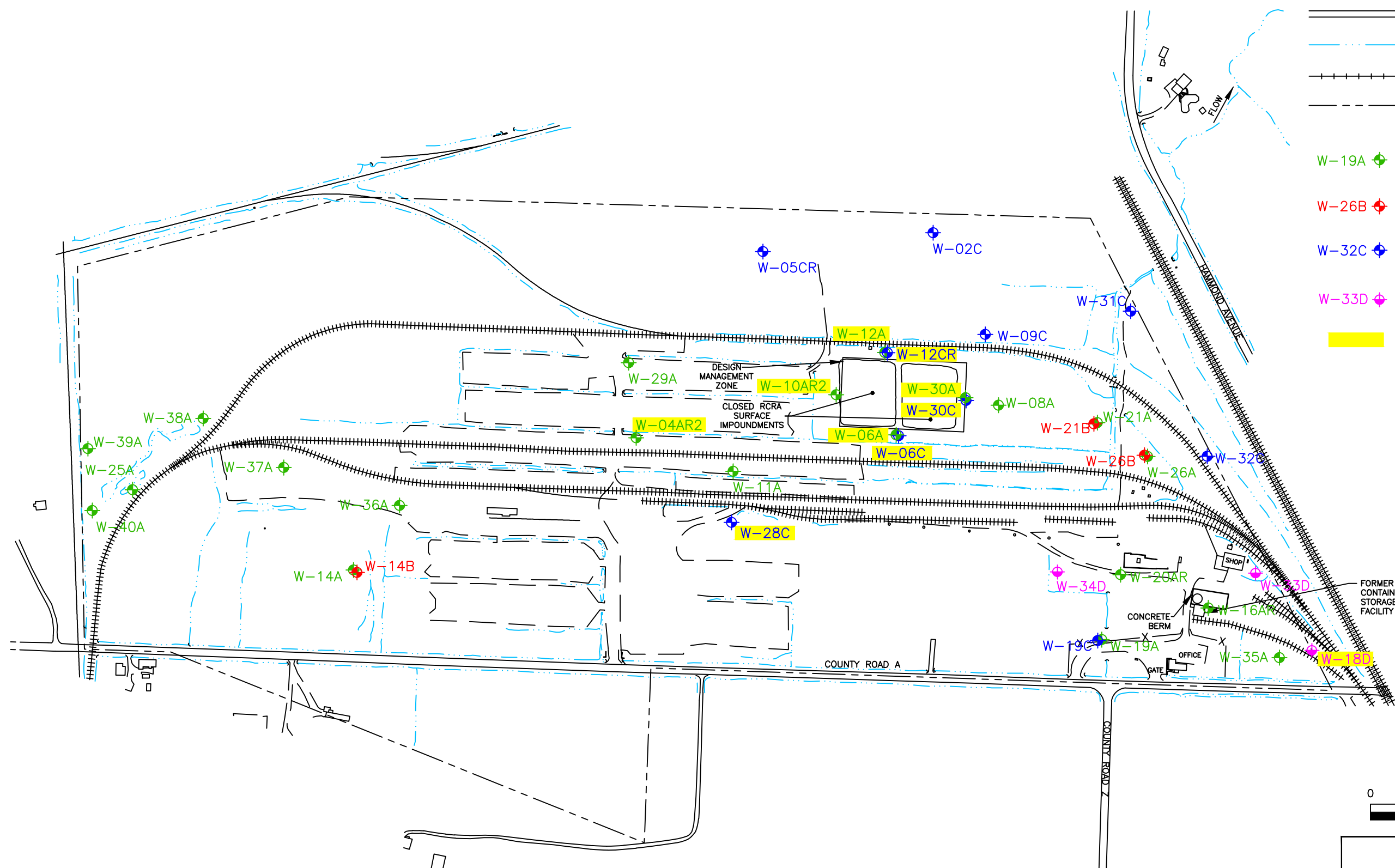
**APPENDIX B**  
**WELL LOCATION MAP**





### 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		 <b>FTS</b>	FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106	
DRWN: KLC	DATE: 06/01/23			
CHKD: AMG	DATE: 06/01/23			
APPD: JSZ	DATE: 06/20/23			
SCALE: AS SHOWN				
ISSUE DATE:				
FORMER KOPPERS INC. FACILITY SUPERIOR, WISCONSIN				
WELL LOCATIONS		PROJECT NO: 0M055623 DRAWING NUMBER <b>FIGURE B-1</b>		

REFERENCE: WISCONSIN STATE PLANE COORDINATE SYSTEM.

REV #	DATE	DESCRIPTION	APPD
1			
2			

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# APPENDIX C

## TABLES



**Table C-1**  
**Summary of Detected Constituents**  
**First Semi-Annual 2023 Sampling Event**  
**Superior Facility**  
**Superior, Wisconsin**

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
<b>8270D LL / 8270E LL</b>				
W-30A	1,2-Dichlorobenzene	0.11 J	60	600
W-04AR2	1-Methylnaphthalene	0.059 J	NA	NA
W-04AR2 DUP	1-Methylnaphthalene	0.072 J	NA	NA
W-10AR2	1-Methylnaphthalene	7.3	NA	NA
W-28C	1-Methylnaphthalene	0.088 J	NA	NA
W-04AR2	2-Methylnaphthalene	0.099 J	NA	NA
W-04AR2 DUP	2-Methylnaphthalene	0.12 J	NA	NA
W-28C	2-Methylnaphthalene	0.091 J	NA	NA
W-04AR2	Acenaphthene	0.24	NA	NA
W-04AR2 DUP	Acenaphthene	0.26	NA	NA
W-10AR2	Acenaphthene	36	NA	NA
W-12A	Acenaphthene	0.059 J	NA	NA
W-28C	Acenaphthene	0.062 J	NA	NA
W-30A	Acenaphthene	0.074 J	NA	NA
W-10AR2	Acenaphthylene	0.86	NA	NA
W-04AR2	Anthracene	1.1	600	3000
W-04AR2 DUP	Anthracene	1	600	3000
W-10AR2	Anthracene	0.32	600	3000
W-12A	Anthracene	0.064 J	600	3000
W-30A	Anthracene	0.39	600	3000
W-04AR2	Benzo(a)anthracene	0.17	NA	NA
W-04AR2 DUP	Benzo(a)anthracene	0.13 J	NA	NA
W-04AR2	Benzo(a)pyrene	0.076 J	0.02	0.2
W-04AR2	Benzo(b)fluoranthene	0.17 J	0.02	0.2
W-04AR2 DUP	Benzo(b)fluoranthene	0.089 J	0.02	0.2
W-04AR2	Benzo(k)fluoranthene	0.081 J	NA	NA
W-04AR2	Butyl benzyl phthalate	0.84 J+	NA	NA
W-04AR2	Chrysene	0.24 J	0.02	0.2
W-04AR2 DUP	Chrysene	0.13 J	0.02	0.2
W-04AR2	Dibenzofuran	0.2 J	NA	NA
W-04AR2 DUP	Dibenzofuran	0.21 J	NA	NA
W-10AR2	Dibenzofuran	8.7	NA	NA
W-04AR2	Fluoranthene	0.71 J	80	400
W-04AR2 DUP	Fluoranthene	0.5 J	80	400
W-06A	Fluoranthene	0.16 J	80	400
W-06C	Fluoranthene	0.092 J	80	400
W-10AR2	Fluoranthene	0.78	80	400
W-12A	Fluoranthene	0.087 J	80	400
W-12CR	Fluoranthene	0.053 J	80	400
W-30A	Fluoranthene	0.053 J	80	400
W-04AR2	Fluorene	0.23	80	400
W-04AR2 DUP	Fluorene	0.24	80	400
W-10AR2	Fluorene	8.5	80	400
W-04AR2	Phenanthrene	0.73 J+	NA	NA
W-04AR2 DUP	Phenanthrene	0.76 J+	NA	NA
W-06A	Phenanthrene	0.22 J+	NA	NA
W-10AR2	Phenanthrene	1.2 J+	NA	NA
W-04AR2	Pyrene	0.55	50	250
W-04AR2 DUP	Pyrene	0.44	50	250
W-06A	Pyrene	0.084 J	50	250
W-06C	Pyrene	0.066 J	50	250
W-10AR2	Pyrene	0.53	50	250
W-12A	Pyrene	0.054 J	50	250
W-30A	Pyrene	0.05 J	50	250
<b>8260C</b>				
W-10AR2	1,2,4-Trimethylbenzene	6.9	96*	480*
W-10AR2	Benzene	15	0.5	5
W-10AR2	Ethylbenzene	25	140	700
W-04AR2	Naphthalene	0.72 J	10	100
W-04AR2 DUP	Naphthalene	0.94 J	10	100
W-10AR2	Naphthalene	1.5	10	100
W-30A	Naphthalene	2	10	100
W-10AR2	Toluene	1.7	160	800
W-10AR2	Xylene, Meta & Para	2.4	400**	2000**
W-10AR2	Xylene, Ortho	12	400**	2000**

**Table C-1  
Summary of Detected Constituents  
First Semi-Annual 2023 Sampling Event  
Superior Facility  
Superior, Wisconsin**

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
<b>8290A</b>				
W-04AR2 DUP	1,2,3,4,6,7,8-HPCDD	0.000054 J	NA	NA
W-12A	1,2,3,4,6,7,8-HPCDD	0.000069	NA	NA
W-30A	1,2,3,4,6,7,8-HPCDD	0.00013	NA	NA
W-04AR2	1,2,3,4,7,8-HXCDF	0.00000055 J	NA	NA
W-04AR2 DUP	1,2,3,4,7,8-HXCDF	0.0000013 JI	NA	NA
W-06A	1,2,3,4,7,8-HXCDF	0.0000009 JI	NA	NA
W-10AR2	1,2,3,4,7,8-HXCDF	0.0000011 JI	NA	NA
W-12A	1,2,3,4,7,8-HXCDF	0.0000051 J	NA	NA
W-12CR	1,2,3,4,7,8-HXCDF	0.0000082 JI	NA	NA
W-28C	1,2,3,4,7,8-HXCDF	0.0000019 J	NA	NA
W-28C DUP	1,2,3,4,7,8-HXCDF	0.0000014 J	NA	NA
W-30A	1,2,3,4,7,8-HXCDF	0.0000078 J	NA	NA
W-04AR2 DUP	1,2,3,6,7,8-HXCDF	0.0000017 JI	NA	NA
W-06A	1,2,3,6,7,8-HXCDF	0.00000088 JI	NA	NA
W-06C	1,2,3,6,7,8-HXCDF	0.0000011 JI	NA	NA
W-10AR2	1,2,3,6,7,8-HXCDF	0.0000017 JI	NA	NA
W-12A	1,2,3,6,7,8-HXCDF	0.0000064 JI	NA	NA
W-12CR	1,2,3,6,7,8-HXCDF	0.0000087 JI	NA	NA
W-28C	1,2,3,6,7,8-HXCDF	0.0000011 J	NA	NA
W-28C DUP	1,2,3,6,7,8-HXCDF	0.0000011 JI	NA	NA
W-30A	1,2,3,6,7,8-HXCDF	0.000015 J	NA	NA
W-04AR2	1,2,3,7,8,9-HXCDD	0.000001 JI	NA	NA
W-04AR2 DUP	1,2,3,7,8,9-HXCDD	0.0000021 J	NA	NA
W-06A	1,2,3,7,8,9-HXCDD	0.00000054 JI	NA	NA
W-10AR2	1,2,3,7,8,9-HXCDD	0.00000053 JI	NA	NA
W-12A	1,2,3,7,8,9-HXCDD	0.0000017 JI	NA	NA
W-12CR	1,2,3,7,8,9-HXCDD	0.00000035 JI	NA	NA
W-28C	1,2,3,7,8,9-HXCDD	0.00000054 J	NA	NA
W-28C DUP	1,2,3,7,8,9-HXCDD	0.00000063 JI	NA	NA
W-30A	1,2,3,7,8,9-HXCDD	0.0000024 J	NA	NA
W-30C	1,2,3,7,8,9-HXCDD	0.00000044 J	NA	NA
W-06A	1,2,3,7,8,9-HXCDF	0.0000004 JI	NA	NA
W-04AR2	2,3,4,6,7,8-HXCDF	0.00000066 JI	NA	NA
W-06A	2,3,4,6,7,8-HXCDF	0.00000055 JI	NA	NA
W-06C	2,3,4,6,7,8-HXCDF	0.00000096 JI	NA	NA
W-10AR2	2,3,4,6,7,8-HXCDF	0.00000086 JI	NA	NA
W-12A	2,3,4,6,7,8-HXCDF	0.0000012 JI	NA	NA
W-30A	2,3,4,6,7,8-HXCDF	0.0000022 JI	NA	NA
W-06A	2,3,7,8-TCDD	0.00000021 JI	NA	NA
W-12CR	2,3,7,8-TCDD	0.00000026 J	NA	NA
W-30C	2,3,7,8-TCDD	0.0000002 JI	NA	NA
W-04AR2	OCDD	0.00013 J	NA	NA
W-04AR2 DUP	OCDD	0.00054 J	NA	NA
W-06A	OCDD	0.00011	NA	NA
W-10AR2	OCDD	0.00021	NA	NA
W-12A	OCDD	0.00057	NA	NA
W-30A	OCDD	0.0016	NA	NA
W-30A	OCDF	0.00011	NA	NA
W-04AR2	Total HPCDD	0.000086 JI	NA	NA
W-04AR2 DUP	Total HPCDD	0.00046 J	NA	NA
W-12A	Total HPCDD	0.00013	NA	NA
W-30A	Total HPCDD	0.00029	NA	NA
W-12A	Total HPCDF	0.000063 I	NA	NA
W-30A	Total HPCDF	0.00015	NA	NA
W-04AR2	Total HXCDF	0.0000081 JI	NA	NA
W-04AR2 DUP	Total HXCDF	0.000021 JI	NA	NA
W-06A	Total HXCDF	0.000011 JI	NA	NA
W-06C	Total HXCDF	0.0000038 JI	NA	NA
W-10AR2	Total HXCDF	0.000028 JI	NA	NA
W-12A	Total HXCDF	0.000068 I	NA	NA
W-12CR	Total HXCDF	0.000017 JI	NA	NA
W-28C	Total HXCDF	0.0000046 JI	NA	NA
W-28C DUP	Total HXCDF	0.0000034 JI	NA	NA
W-30A	Total HXCDF	0.00017 I	NA	NA
W-30C	Total HXCDF	0.0000058 JI	NA	NA
W-12A	Total PECDF	0.000052 I	NA	NA
W-30A	Total PECDF	0.00017 I	NA	NA
W-12A	Total TCDF	0.000024 J+I	NA	NA
W-30A	Total TCDF	0.000033 J+	NA	NA
W-30C	Total TCDF	0.000011 J+I	NA	NA
W-04AR2	2,3,7,8-TCDD TEQ	<b>2.60E-07</b>	0.000003	0.00003
W-04AR2 DUP	2,3,7,8-TCDD TEQ	<b>1.21E-06</b>	0.000003	0.00003

**Table C-1**  
**Summary of Detected Constituents**  
**First Semi-Annual 2023 Sampling Event**  
**Superior Facility**  
**Superior, Wisconsin**

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
W-06A	2,3,7,8-TCDD TEQ	5.70E-07	0.000003	0.00003
W-06C	2,3,7,8-TCDD TEQ	2.06E-07	0.000003	0.00003
W-10AR2	2,3,7,8-TCDD TEQ	4.82E-07	0.000003	0.00003
W-12A	2,3,7,8-TCDD TEQ	2.30E-06	0.000003	0.00003
W-12CR	2,3,7,8-TCDD TEQ	4.64E-07	0.000003	0.00003
W-28C	2,3,7,8-TCDD TEQ	3.54E-07	0.000003	0.00003
W-28C DUP	2,3,7,8-TCDD TEQ	3.13E-07	0.000003	0.00003
W-30A	2,3,7,8-TCDD TEQ	4.55E-06	0.000003	0.00003
W-30C	2,3,7,8-TCDD TEQ	2.44E-07	0.000003	0.00003

**Notes:**

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

PAL - Preventative Action Limit

MCL - Maximum Contaminant Levels for drinking water

ES - Enforcement Standard

NA - Not available

J - Estimated

J+ - Estimated biased high

I - Value is estimated maximum possible concentration.

\* - Total trimethylbenzene standard

\*\* - Total xylene standard

At the request of WDNR, 2,3,7,8-TCDD TEQ values are compared to the congener-specific PAL and ES for 2,3,7,8-TCDD

**Table C-2**  
**Analytical Summary - First Semi-Annual 2023 Groundwater Data**  
**First Semi-Annual 2023 Sampling Event**  
**Superior Facility**  
**Superior, Wisconsin**

ANALYTE NAME	UNITS	W-04AR2 4/27/2023	W-04AR2 DUP 4/27/2023	W-06A 4/26/2023	W-06C 4/26/2023	W-10AR2 4/27/2023	W-12A 4/27/2023	W-12CR 4/26/2023	W-18D 4/26/2023	W-28C 4/26/2023	W-28C-DUP 4/26/2023	W-30A 4/27/2023	W-30C 4/26/2023	Equipment Blank 4/26/2023	Equipment Blank 4/27/2023
<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	0.82 U	NA	0.82 U	0.82 U	1.6 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	0.75 U	<b>6.9</b>	0.75 U	0.75 U	NA	0.75 U	0.75 U	1.5 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	0.77 U	NA	0.77 U	0.77 U	1.5 U	0.77 U	0.77 U	0.77 U
BENZENE	UG/L	0.41 U	0.41 U	0.41 U	0.41 U	<b>15</b>	0.41 U	0.41 U	NA	0.41 U	0.41 U	0.82 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	0.35 U	NA	0.35 U	0.35 U	0.7 U	0.35 U	0.35 U	0.35 U
ETHYLBENZENE	UG/L	0.74 U	0.74 U	0.74 U	0.74 U	<b>25</b>	0.74 U	0.74 U	NA	0.74 U	0.74 U	1.5 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	0.16 U	NA	0.16 U	0.16 U	0.32 U	0.16 U	0.16 U	0.16 U
NAPHTHALENE	UG/L	<b>0.72 J</b>	<b>0.94 J</b>	0.43 U	0.43 U	<b>1.5</b>	0.43 U	0.43 U	NA	0.43 U	0.43 U	<b>2</b>	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	0.64 U	NA	0.64 U	0.64 U	1.3 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	0.69 U	NA	0.69 U	0.69 U	1.4 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	0.73 U	NA	0.73 U	0.73 U	1.5 U	0.73 U	0.73 U	0.73 U
TOLUENE	UG/L	0.51 U	0.51 U	0.51 U	0.51 U	<b>1.7</b>	0.51 U	0.51 U	NA	0.51 U	0.51 U	1 U	0.51 U	0.51 U	0.51 U
XYLENE, META & PARA	UG/L	0.66 U	0.66 U	0.66 U	0.66 U	<b>2.4</b>	0.66 U	0.66 U	NA	0.66 U	0.66 U	1.3 U	0.66 U	0.66 U	0.66 U
O-XYLENE	UG/L	0.76 U	0.76 U	0.76 U	0.76 U	<b>12</b>	0.76 U	0.76 U	NA	0.76 U	0.76 U	1.5 U	0.76 U	0.76 U	0.76 U
<b>8270D LL / 8270E LL</b>															
1,2,4-TRICHLOROBENZENE	UG/L	0.11 U	0.11 U	0.12 U	0.1 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,2-DICHLOROBENZENE	UG/L	0.079 U	0.082 U	0.088 U	0.074 U	0.082 U	0.082 U	0.082 U	0.079 U	0.077 U	0.077 U	<b>0.11 J</b>	0.077 U	0.077 U	0.079 U
1,3-DICHLOROBENZENE	UG/L	0.083 U	0.085 U	0.092 U	0.077 U	0.085 U	0.085 U	0.085 U	0.083 U	0.08 U	0.08 U	0.083 U	0.08 U	0.08 U	0.083 U
1,4-DICHLOROBENZENE	UG/L	0.051 U	0.053 U	0.056 U	0.048 U	0.053 U	0.053 U	0.053 U	0.051 U	0.049 U	0.049 U	0.051 U	0.049 U	0.049 U	0.051 U
1-METHYLNAPHTHALENE	UG/L	<b>0.059 J</b>	<b>0.072 J</b>	0.052 U	0.044 U	<b>7.3</b>	0.048 U	0.048 U	0.047 U	<b>0.088 J</b>	0.045 U	0.047 U	0.045 U	0.045 U	0.047 U
2,3,4,6-TETRACHLOROPHENOL	UG/L	0.27 U	0.28 U	0.3 U	0.25 U	0.28 U	0.28 U	0.28 U	0.27 U	0.26 U	0.26 U	0.27 U	0.26 U	0.26 U	0.27 U
2,3,5,6-TETRACHLOROPHENOL	UG/L	0.42 U	0.44 U	0.47 U	0.4 U	0.44 U	0.44 U	0.44 U	0.42 U	0.41 U	0.41 U	0.42 U	0.41 U	0.41 U	0.42 U
2,4,5-TRICHLOROPHENOL	UG/L	0.21 U	0.22 U	0.23 U	0.2 U	0.22 U	0.22 U	0.22 U	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.2 U	0.21 U
2,4,6-TRICHLOROPHENOL	UG/L	0.19 U	0.19 U	0.21 U	0.18 U	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.19 U	0.18 U	0.18 U	0.19 U
2,4-DICHLOROPHENOL	UG/L	0.043 U	0.044 U	0.047 U	0.04 U	0.044 U	0.044 U	0.044 U	0.043 U	0.041 U	0.041 U	0.043 U	0.041 U	0.041 U	0.043 U
2,4-DIMETHYLPHENOL	UG/L	0.14 U	0.14 U	0.15 U	0.13 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.13 U	0.14 U	0.13 U	0.13 U	0.14 U
2,4-DINITROPHENOL	UG/L	1.3 U	1.3 U	1.4 U	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.3 U
2,4-DINITROTOLUENE	UG/L	0.29 U	0.3 U	0.33 U	0.28 U	0.3 U	0.3 U	0.3 U	0.29 U	0.28 U	0.28 U	0.29 U	0.28 U	0.28 U	0.29 U
2,6-DINITROTOLUENE	UG/L	0.14 U	0.15 U	0.16 U	0.14 U	0.15 U	0.15 U	0.15 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
2-CHLORONAPHTHALENE	UG/L	0.049 U	0.051 U	0.055 U	0.046 U	0.051 U	0.051 U	0.051 U	0.049 U	0.048 U	0.048 U	0.049 U	0.048 U	0.048 U	0.049 U
2-CHLOROPHENOL	UG/L	0.11 U	0.11 U	0.12 U	0.1 U	0.11 U	0.11 U	0.11 U	0.11 U	0.1 U	0.1 U	0.11 U	0.1 U	0.1 U	0.11 U
2-METHYLNAPHTHALENE	UG/L	<b>0.099 J</b>	<b>0.12 J</b>	0.057 U	0.048 U	0.053 U	0.053 U	0.053 U	0.052 U	<b>0.091 J</b>	0.05 U	0.052 U	0.05 U	0.05 U	0.052 U
2-METHYLPHENOL	UG/L	0.25 U	0.26 U	0.28 U	0.23 U	0.26 U	0.26 U	0.26 U	0.25 U	0.24 U	0.24 U	0.25 U	0.24 U	0.24 U	0.25 U
2-NITROANILINE	UG/L	0.46 U	0.47 U	0.51 U	0.43 U	0.47 U	0.47 U	0.47 U	0.46 U	0.44 U	0.44 U	0.46 U	0.44 U	0.44 U	0.46 U
2-NITROPHENOL	UG/L	0.16 U	0.17 U	0.18 U	0.15 U	0.17 U	0.17 U	0.17 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
3,3'-DICHLOROBENZIDINE	UG/L	0.49 U	0.5 U	0.54 U	0.46 U	0.5 U	0.5 U	0.5 U	0.49 U	0.47 U	0.47 U	0.49 U	0.47 U	0.47 U	0.49 U
3-NITROANILINE	UG/L	0.36 U	0.38 U	0.4 U	0.34 U	0.38 U	0.38 U	0.38 U	0.36 U	0.35 U	0.35 U	0.36 U	0.35 U	0.35 U	0.36 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	1.2 U	1.3 U	1.4 U	1.1 U	1.3 U	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
4-BROMOPHENYL PHENYLETHER	UG/L	0.27 U	0.28 U	0.3 U	0.25 U	0.28 U	0.28 U	0.28 U	0.27 U	0.26 U	0.26 U	0.27 U	0.26 U	0.26 U	0.27 U

**Table C-2**  
**Analytical Summary - First Semi-Annual 2023 Groundwater Data**  
**First Semi-Annual 2023 Sampling Event**  
**Superior Facility**  
**Superior, Wisconsin**

ANALYTE NAME	UNITS	W-04AR2 4/27/2023	W-04AR2 DUP 4/27/2023	W-06A 4/26/2023	W-06C 4/26/2023	W-10AR2 4/27/2023	W-12A 4/27/2023	W-12CR 4/26/2023	W-18D 4/26/2023	W-28C 4/26/2023	W-28C-DUP 4/26/2023	W-30A 4/27/2023	W-30C 4/26/2023	Equipment Blank 4/26/2023	Equipment Blank 4/27/2023
4-CHLORO-3-METHYLPHENOL	UG/L	0.23 U	0.24 U	0.26 U	0.22 U	0.24 U	0.24 U	0.24 U	0.23 U	0.22 U	0.22 U	0.23 U	0.22 U	0.22 U	0.23 U
4-CHLOROANILINE	UG/L	0.31 U	0.32 U	0.35 U	0.29 U	0.32 U	0.32 U	0.32 U	0.31 U	0.3 U	0.3 U	0.31 U	0.3 U	0.3 U	0.31 U
4-CHLOROPHENYLPHENYL-ETHER	UG/L	0.18 U	0.19 U	0.2 U	0.17 U	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
4-METHYLPHENOL	UG/L	0.31 U	0.32 U	0.34 U	0.29 U	0.32 U	0.32 U	0.32 U	0.31 U	0.3 U	0.3 U	0.31 U	0.3 U	0.3 U	0.31 U
4-NITROANILINE	UG/L	0.3 U	0.31 U	0.34 U	0.28 U	0.31 U	0.31 U	0.31 U	0.3 U	0.29 U	0.29 U	0.3 U	0.29 U	0.29 U	0.3 U
4-NITROPHENOL	UG/L	0.78 U	0.81 U	0.87 U	0.73 U	0.81 U	0.81 U	0.81 U	0.78 U	0.76 U	0.76 U	0.78 U	0.76 U	0.76 U	0.78 U
ACENAPHTHENE	UG/L	<b>0.24</b>	<b>0.26</b>	0.06 U	0.051 U	<b>36</b>	<b>0.059 J</b>	0.056 U	0.054 U	<b>0.062 J</b>	0.052 U	<b>0.074 J</b>	0.052 U	0.052 U	0.054 U
ACENAPHTHYLENE	UG/L	0.054 U	0.056 U	0.06 U	0.051 U	<b>0.86</b>	0.056 U	0.056 U	0.054 U	0.052 U	0.052 U	0.054 U	0.052 U	0.052 U	0.054 U
ANTHRACENE	UG/L	<b>1.1</b>	<b>1</b>	0.045 U	0.038 U	<b>0.32</b>	<b>0.064 J</b>	0.042 U	0.041 U	0.04 U	0.04 U	<b>0.39</b>	0.04 U	0.04 U	0.041 U
BENZO (A) ANTHRACENE	UG/L	<b>0.17</b>	<b>0.13 J</b>	0.069 U	0.059 U	0.065 U	0.065 U	0.065 U	0.063 U	0.06 U	0.06 U	0.063 U	0.06 U	0.06 U	0.063 U
BENZO (A) PYRENE	UG/L	<b>0.076 J</b>	0.046 U	0.049 U	0.041 U	0.046 U	0.046 U	0.046 U	0.044 U	0.043 U	0.043 U	0.044 U	0.043 U	0.043 U	0.044 U
BENZO (B) FLUORANTHENE	UG/L	<b>0.17 J</b>	<b>0.089 J</b>	0.09 U	0.076 U	0.084 U	0.084 U	0.084 U	0.081 U	0.078 U	0.078 U	0.081 U	0.078 U	0.078 U	0.081 U
BENZO (G,H,I) PERYLENE	UG/L	0.058 U	0.059 U	0.064 U	0.054 U	0.059 U	0.059 U	0.059 U	0.058 U	0.056 U	0.056 U	0.058 U	0.056 U	0.056 U	0.058 U
BENZO (K) FLUORANTHENE	UG/L	<b>0.081 J</b>	0.076 U	0.081 U	0.069 U	0.076 U	0.076 U	0.076 U	0.073 U	0.071 U	0.071 U	0.073 U	0.071 U	0.071 U	0.073 U
BENZOIC ACID	UG/L	4.2 U	5.1 U	4.6 U	3.9 U	0.8 U	4.3 U	4.3 U	0.77 U	4 U	4.4 U	4.2 U	4 U	<b>11</b>	<b>10</b>
BENZYL ALCOHOL	UG/L	0.14 U	0.14 U	0.15 U	0.13 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.13 U	0.14 U	0.13 U	<b>0.58 J</b>	<b>0.56 J</b>
BIS (2-CHLOROETHOXY)- METHANE	UG/L	0.13 U	0.13 U	0.14 U	0.12 U	0.13 U	0.13 U	0.13 U	0.13 U	0.12 U	0.12 U	0.13 U	0.12 U	0.12 U	0.13 U
BIS (2-CHLOROETHYL) ETHER	UG/L	0.033 U	0.034 U	0.037 U	0.031 U	0.034 U	0.034 U	0.034 U	0.033 U	0.032 U	0.032 U	0.033 U	0.032 U	0.032 U	0.033 U
BIS (2-CHLOROISOPROPYL)-ETHER	UG/L	0.048 U	0.05 U	0.054 U	0.045 U	0.05 U	0.05 U	0.05 U	0.048 U	0.047 U	0.047 U	0.048 U	0.047 U	0.047 U	0.048 U
BIS (2-ETHYLHEXYL)- PHTHALATE	UG/L	5.2 U	5.4 U	5.8 U	4.9 U	5.4 U	5.4 U	5.4 U	5.2 U	5 U	5 U	5.2 U	5 U	5 U	5.2 U
BUTYL BENZYL PHTHALATE	UG/L	<b>0.84 J+</b>	0.4 U	0.93 U	0.78 U	0.4 U	0.86 U	0.86 U	0.39 U	0.37 U	0.37 U	0.39 U	0.81 U	<b>0.62 J</b>	<b>0.79 J</b>
CHRYSENE	UG/L	<b>0.24 J</b>	<b>0.13 J</b>	0.075 U	0.063 U	0.07 U	0.07 U	0.07 U	0.068 U	0.065 U	0.065 U	0.068 U	0.065 U	0.065 U	0.068 U
DIBENZO (A,H) ANTHRACENE	UG/L	0.06 U	0.062 U	0.067 U	0.056 U	0.062 U	0.062 U	0.062 U	0.06 U	0.058 U	0.058 U	0.06 U	0.058 U	0.058 U	0.06 U
DIBENZOFURAN	UG/L	<b>0.2 J</b>	<b>0.21 J</b>	0.18 U	0.15 U	<b>8.7</b>	0.16 U	0.16 U	0.16 U	0.15 U	0.15 U	0.16 U	0.15 U	0.15 U	0.16 U
DIETHYLPHTHALATE	UG/L	0.47 U	0.49 U	0.53 U	0.44 U	0.49 U	0.49 U	0.49 U	0.47 U	0.46 U	0.46 U	0.47 U	0.46 U	0.46 U	0.47 U
DIMETHYLPHTHALATE	UG/L	0.17 U	0.17 U	0.19 U	0.16 U	0.17 U	0.17 U	0.17 U	0.17 U	0.16 U	0.16 U	0.17 U	0.16 U	0.16 U	0.17 U
DI-N-BUTYLPHTHALATE	UG/L	0.62 U	0.64 U	1.7 U	1.1 U	0.64 U	0.86 U	1.2 U	1.6 U	1.2 U	1.4 U	0.83 U	1.4 U	<b>1.9</b>	<b>0.78 J</b>
DI-N-OCTYLPHTHALATE	UG/L	0.57 U	0.59 U	0.63 U	0.54 U	0.59 U	0.59 U	0.59 U	0.57 U	0.55 U	0.55 U	0.57 U	0.55 U	0.55 U	0.57 U
FLUORANTHENE	UG/L	<b>0.71 J</b>	<b>0.5 J</b>	<b>0.16 J</b>	<b>0.092 J</b>	<b>0.78</b>	<b>0.087 J</b>	<b>0.053 J</b>	0.05 U	0.048 U	0.048 U	<b>0.053 J</b>	0.048 U	0.048 U	0.05 U
FLUORENE	UG/L	<b>0.23</b>	<b>0.24</b>	0.064 U	0.054 U	<b>8.5</b>	0.059 U	0.059 U	0.058 U	0.056 U	0.056 U	0.058 U	0.056 U	0.056 U	0.058 U
HEXACHLOROBENZENE	UG/L	0.047 U	0.048 U	0.052 U	0.044 U	0.048 U	0.048 U	0.048 U	0.047 U	0.045 U	0.045 U	0.047 U	0.045 U	0.045 U	0.047 U
HEXACHLOROBUTADIENE	UG/L	0.058 U	0.059 U	0.064 U	0.054 U	0.059 U	0.059 U	0.059 U	0.058 U	0.056 U	0.056 U	0.058 U	0.056 U	0.056 U	0.058 U
HEXACHLOROCYCLOPENTADIENE	UG/L	0.41 U	0.43 U	0.46 U	0.39 U	0.43 U	0.43 U	0.43 U	0.41 U	0.4 U	0.4 U	0.41 U	0.4 U	0.4 U	0.41 U
HEXACHLOROETHANE	UG/L	0.11 U	0.11 U	0.12 U	0.1 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
INDENO (1,2,3-CD) PYRENE	UG/L	0.071 U	0.073 U	0.079 U	0.066 U	0.073 U	0.073 U	0.073 U	0.071 U	0.069 U	0.069 U	0.071 U	0.069 U	0.069 U	0.071 U
ISOPHORONE	UG/L	0.16 U	0.16 U	0.17 U	0.15 U	0.16 U	0.16 U	0.16 U	0.16 U	0.15 U	0.15 U	0.16 U	0.15 U	0.15 U	0.16 U
NAPHTHALENE	UG/L	NA	NA	NA	NA	NA	NA	NA	0.049 U	NA	NA	NA	NA	NA	NA
NITROBENZENE	UG/L	0.42 U	0.43 U	0.46 U	0.39 U	0.43 U	0.43 U	0.43 U	0.42 U	0.4 U	0.4 U	0.42 U	0.4 U	0.4 U	0.42 U
N-NITROSODI-N-PROPYLAMINE	UG/L	0.059 U	0.061 U	0.066 U	0.055 U	0.061 U	0.061 U	0.061 U	0.059 U	0.057 U	0.057 U	0.059 U	0.057 U	0.057 U	0.059 U
N-NITROSO-DI-PHENYLAMINE	UG/L	0.099 U	0.1 U	0.11 U	0.093 U	0.1 U	0.1 U	0.1 U	0.099 U	0.096 U	0.096 U	0.099 U	0.096 U	0.096 U	0.099 U
PENTACHLOROPHENOL	UG/L	1.6 U	0.35 U	0.35 U	0.32 U	1.8 U	0.35 U	0.36 U	0.32 U	0.32 U	0.32 U	3.6 U	0.32 U	0.32 U	0.32 U
PHENANTHRENE	UG/L	<b>0.73 J+</b>	<b>0.76 J+</b>	<b>0.22 J+</b>	0.15 U	<b>1.2 J+</b>	0.16 U	0.16 U	0.046 U	0.15 U	0.15 U	0.16 U	0.044 U	<b>0.074 J</b>	<b>0.079 J</b>
PHENOL	UG/L	0.41 U	0.42 U	0.45 U	0.38 U	0.42 U	0.42 U	0.42 U	0.41 U	0.39 U	0.39 U	0.41 U	0.39 U	0.39 U	0.41 U
PYRENE	UG/L	<b>0.55</b>	<b>0.44</b>	<b>0.084 J</b>	<b>0.066 J</b>	<b>0.53</b>	<b>0.054 J</b>	0.047 U	0.045 U	0.044 U	0.044 U	<b>0.05 J</b>	0.044 U	0.044 U	0.045 U

**Table C-2**  
**Analytical Summary - First Semi-Annual 2023 Groundwater Data**  
**First Semi-Annual 2023 Sampling Event**  
**Superior Facility**  
**Superior, Wisconsin**

ANALYTE NAME	UNITS	W-04AR2 4/27/2023	W-04AR2 DUP 4/27/2023	W-06A 4/26/2023	W-06C 4/26/2023	W-10AR2 4/27/2023	W-12A 4/27/2023	W-12CR 4/26/2023	W-18D 4/26/2023	W-28C 4/26/2023	W-28C-DUP 4/26/2023	W-30A 4/27/2023	W-30C 4/26/2023	Equipment Blank 4/26/2023	Equipment Blank 4/27/2023
<b>8290A</b>															
1,2,3,4,6,7,8-HPCDD (TEF = 0.01)	UG/L	0.00005 U	<b>0.000054 J</b>	0.000051 U	0.000048 U	0.000054 U	<b>0.000069</b>	0.0000024 U	NA	0.000048 U	0.000049 U	<b>0.00013</b>	0.000048 U	0.0000067 U	NA
1,2,3,4,6,7,8-HPCDF (TEF = 0.01)	UG/L	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000052 U	0.000053 U	NA	0.000048 U	0.000049 U	0.000051 U	0.000048 U	<b>0.0000036 JI</b>	NA
1,2,3,4,7,8,9-HPCDF (TEF = 0.01)	UG/L	0.00005 U	0.000051 U	0.000051 U	0.0000022 U	0.000054 U	0.000052 U	0.000053 U	NA	0.000048 U	0.000049 U	0.000051 U	0.000048 U	0.0000022 U	NA
1,2,3,4,7,8-HXCDD (TEF = 0.1)	UG/L	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000052 U	0.000053 U	NA	0.000048 U	0.000049 U	0.000051 U	0.000048 U	<b>0.000001 J</b>	NA
1,2,3,4,7,8-HXCDF (TEF = 0.1)	UG/L	<b>0.0000055 J</b>	<b>0.0000013 JI</b>	<b>0.0000009 JI</b>	0.00000031 U	<b>0.0000011 JI</b>	<b>0.0000051 J</b>	<b>0.0000082 JI</b>	NA	<b>0.0000019 J</b>	<b>0.0000014 J</b>	<b>0.0000078 J</b>	0.00000041 U	0.00000015 U	NA
1,2,3,6,7,8-HXCDD (TEF = 0.1)	UG/L	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000052 U	0.0000017 U	NA	0.0000014 U	0.0000022 U	0.000051 U	0.000048 U	<b>0.0000026 JI</b>	NA
1,2,3,6,7,8-HXCDF (TEF = 0.1)	UG/L	0.0000021 U	<b>0.0000017 JI</b>	<b>0.00000088 JI</b>	<b>0.0000011 JI</b>	<b>0.0000017 JI</b>	<b>0.0000064 JI</b>	<b>0.0000087 JI</b>	NA	<b>0.0000011 J</b>	<b>0.0000011 JI</b>	<b>0.000015 J</b>	0.00000044 U	0.00000016 U	NA
1,2,3,7,8,9-HXCDD (TEF = 0.1)	UG/L	<b>0.000001 JI</b>	<b>0.0000021 J</b>	<b>0.00000054 JI</b>	0.00000015 U	<b>0.00000053 JI</b>	<b>0.0000017 JI</b>	<b>0.00000035 JI</b>	NA	<b>0.00000054 J</b>	<b>0.00000063 JI</b>	<b>0.0000024 J</b>	<b>0.00000044 J</b>	0.00000016 U	NA
1,2,3,7,8,9-HXCDF (TEF = 0.1)	UG/L	0.0000027 U	0.0000029 U	<b>0.0000004 JI</b>	0.00000042 U	0.00000036 U	0.000001 U	0.00000017 U	NA	0.00000037 U	0.0000003 U	0.0000012 U	0.00000055 U	0.0000002 U	NA
1,2,3,7,8-PECDD (TEF = 1)	UG/L	0.0000015 U	0.000051 U	0.000051 U	0.000048 U	0.0000018 U	0.000052 U	0.000053 U	NA	0.000048 U	0.000049 U	0.00000035 U	0.00000025 U	<b>0.00000042 J</b>	NA
1,2,3,7,8-PECDF (TEF = 0.03)	UG/L	0.00005 U	0.000051 U	0.0000022 U	0.000048 U	0.000054 U	0.000052 U	0.000053 U	NA	0.000048 U	0.000049 U	0.00000068 U	0.000048 U	<b>0.00000024 JI</b>	NA
2,3,4,6,7,8-HXCDF (TEF = 0.1)	UG/L	<b>0.00000066 JI</b>	0.00000024 U	<b>0.00000055 JI</b>	<b>0.00000096 JI</b>	<b>0.00000086 JI</b>	<b>0.0000012 JI</b>	0.00000014 U	NA	0.00000031 U	0.00000026 U	<b>0.0000022 JI</b>	0.00000047 U	0.00000017 U	NA
2,3,4,7,8-PECDF (TEF = 0.3)	UG/L	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000052 U	0.00000013 U	NA	0.000048 U	0.000049 U	0.000051 U	0.000048 U	0.00000012 U	NA
2,3,7,8-TCDD (TEF = 1)	UG/L	0.0000018 U	0.0000027 U	<b>0.00000021 JI</b>	0.00000017 U	0.00000011 U	0.000000095 U	<b>0.00000026 J</b>	NA	0.00000019 U	0.00000015 U	0.00000019 U	<b>0.0000002 JI</b>	0.00000015 U	NA
2,3,7,8-TCDF (TEF = 0.1)	UG/L	0.0000015 U	0.00001 U	0.00001 U	0.00000013 U	0.000000092 U	0.00001 U	0.000011 U	NA	0.0000097 U	0.0000097 U	0.00000012 U	0.00000012 U	0.000000079 U	NA
OCDD (TEF = 0.0003)	UG/L	<b>0.00013 J</b>	<b>0.00054 J</b>	<b>0.00011</b>	0.000097 U	<b>0.00021</b>	<b>0.00057</b>	0.00011 U	NA	0.000097 U	0.000097 U	<b>0.0016</b>	0.000095 U	<b>0.0000029 JI</b>	NA
OCDF (TEF = 0.0003)	UG/L	0.000099 U	0.0001 U	0.0001 U	0.000097 U	0.00011 U	0.0001 U	0.00011 U	NA	0.000097 U	0.000097 U	<b>0.00011</b>	0.000095 U	<b>0.00000033 JI</b>	NA
TOTAL HPCDD	UG/L	<b>0.000086 JI</b>	<b>0.00046 J</b>	0.000051 U	0.000048 U	0.000054 U	<b>0.00013</b>	0.000053 U	NA	0.000048 U	0.000049 U	<b>0.00029</b>	0.000048 U	0.00000067 U	NA
TOTAL HPCDF	UG/L	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	<b>0.000063 I</b>	0.000053 U	NA	0.000048 U	0.000049 U	<b>0.00015</b>	0.000048 U	<b>0.00000056 JI</b>	NA
TOTAL HXCDD	UG/L	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000052 U	0.000053 U	NA	0.000048 U	0.000049 U	0.000051 U	0.000048 U	<b>0.0000013 JI</b>	NA
TOTAL HXCDF	UG/L	<b>0.0000081 JI</b>	<b>0.000021 JI</b>	<b>0.000011 JI</b>	<b>0.0000038 JI</b>	<b>0.000028 JI</b>	<b>0.000068 I</b>	<b>0.0000017 JI</b>	NA	<b>0.0000046 JI</b>	<b>0.0000034 JI</b>	<b>0.00017 I</b>	<b>0.0000058 JI</b>	0.0000002 U	NA
TOTAL PECDD	UG/L	0.0000015 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000052 U	0.000053 U	NA	0.000048 U	0.000049 U	0.00000035 U	0.00000025 U	<b>0.00000042 J</b>	NA
TOTAL PECDF	UG/L	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	<b>0.000052 I</b>	0.000053 U	NA	0.000048 U	0.000049 U	<b>0.00017 I</b>	0.000048 U	<b>0.00000024 JI</b>	NA
TOTAL TCDD	UG/L	0.0000018 U	0.00001 U	0.00001 U	0.00000017 U	0.00000011 U	0.00001 U	0.000011 U	NA	0.00000019 U	0.00000015 U	0.00001 U	0.00000095 U	<b>0.00000048 JI</b>	NA
TOTAL TCDF	UG/L	0.0000099 U	0.00001 U	0.00001 U	0.00000097 U	0.000011 U	<b>0.000024 J+I</b>	0.000011 U	NA	0.0000097 U	0.0000097 U	<b>0.000033 J+</b>	<b>0.000011 J+I</b>	<b>0.00000029 JI</b>	NA
2,3,7,8-TCDD TEQ - ND = 0	UG/L	<b>2.60E-07</b>	<b>1.21E-06</b>	<b>5.70E-07</b>	<b>2.06E-07</b>	<b>4.82E-07</b>	<b>2.30E-06</b>	<b>4.64E-07</b>	NA	<b>3.54E-07</b>	<b>3.13E-07</b>	<b>4.55E-06</b>	<b>2.44E-07</b>	<b>5.58E-07</b>	NA

**Notes:**  
TEF = Toxicity Equivalent Factor (World Health Organization, 2005)  
TEQ = Toxicity Equivalent Quotient  
Bold values represent detections.  
DUP indicates duplicate sample.  
U indicates compound was not detected.  
J indicates an estimated value.  
J+ indicates an estimated value biased high.  
I indicates value is estimated maximum possible concentration.  
NA indicates not analyzed.  
Laboratory results that were U-qualified were assigned a value of 0 for 2,3,7,8-TCDD TEQ calculation.

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





# FTS, LLC

**DATE:** May 22, 2023

**FROM:** Kendra Chintella

**SUBJECT:** Superior Groundwater

**SAMPLE DELIVERY GROUP (SDG):** 180-155743-1

**SAMPLES:** SUPE-W-99A-042623 (W-28C), SUPE-W-28C-042623, SUPE-W-06C-042623, SUPE-W-30C-042623, SUPE-W-18D-042623, SUPE-W-06A-042623, SUPE-W-12CR-042623, SUPE-EB-01-042623

**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: Benzoic acid (11 ug/l) was detected above the QL in the equipment blank and the result in sample W-99A was qualified not detected. The benzoic acid results in samples W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. Benzyl alcohol (0.58 J ug/l) was detected below the QL in the equipment blank and no data qualification was necessary as sample results were not detected. Butyl benzyl phthalate (0.62 J ug/l) was detected below the QL in the equipment blank and the results in samples W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. Di-n-butyl phthalate (1.9 ug/l) was detected above the QL in the equipment blank and the results in samples W-99A, W-28C, W-06C, W-30C, W-18D, W-06A, and W-12CR were qualified not detected. Phenanthrene (0.074 J ug/l) was detected below the QL in the equipment blank and the results in samples W-99A, W-28C, W-06C, and W-12CR were qualified not detected at the QL. The phenanthrene result in sample W-06A was qualified "J+".
- Field Duplicate Precision  
Noncompliance: See attached page for details.
- Surrogate Recoveries  
Noncompliance: None
- Laboratory Control Sample  
Noncompliance: None
- Matrix Spike/Matrix Spike Duplicate Sample  
Noncompliance: None

**Field Duplicate Precision:**

FIELD DUPLICATE PRECISION					
ANALYTE	W-28C	QUAL	W-99A	QUAL	RPD
1-Methylnaphthalene	0.088	J	0.045	U	NC
2-Methylnaphthalene	0.091	J	0.05	U	NC
Acenaphthene	0.062	J	0.052	U	NC
Benzoic acid	3.1	J	4.4		34.67*
Di-n-butyl phthalate	1.2		1.4		15.38
Phenanthrene	0.073	J	0.066	J	10.07

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 unless qualified as not detected due to blank contamination.

# FTS, LLC

**DATE:** June 9, 2023

**FROM:** Emily Vargo

**SUBJECT:** Superior Groundwater

**SAMPLE DELIVERY GROUP (SDG):** 180-155743-2

**SAMPLES:** SUPE-W-99A-042623 (W-28C), SUPE-W-28C-042623, SUPE-W-06C-042623, SUPE-W-30C-042623, SUPE-W-06A-042623, SUPE-W-12CR-042623, SUPE-EB-01-042623

**ANALYSES:** Method 8290A (Dioxins and Furans)

**LABORATORY:** Eurofins Laboratories, Knoxville

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: Total TCDD (0.171 JI pg/L) was detected below the QL in the method blank and results in samples W-30C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,7,8-PeCDD (0.661 J pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-06A, and W-12CR were qualified not detected at the QL. Total PeCDD (0.661 J pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,4,7,8-HxCDD (1.55 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,6,7,8-HxCDD (0.362 J pg/L) was detected below the QL in the method blank and results in samples W-06C, W-30C, and W-06A were qualified not detected at the QL. Total HxCDD (2.36 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,4,6,7,8-HpCDD (2 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, and W-06A were qualified not detected at the QL. Total HpCDD (2 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. OCDD (3.23 J pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, and W-12CR were qualified not detected at the QL. 2,3,7,8-TCDF (0.255 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06A and W-12CR were qualified not detected at the QL. Total TCDF (3.72 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-06A, and W-12CR were qualified not detected at the QL. The TCDF result in sample W-30C was qualified "J+". 1,2,3,7,8-PeCDF (0.92 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, and W-12CR were qualified not detected at the QL. 2,3,4,7,8-PeCDF (1.13 J pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, and W-06A were qualified not detected at the QL. Total PeCDF (3.32 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,4,6,7,8-HpCDF

(0.866 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,4,7,8,9-HpCDF (0.635 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. Total HpCDF (1.96 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. OCDF (1.5 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL.

□ Field Blank Contamination

Noncompliance: Total TCDD (0.48 JI pg/L) was detected below the QL in the equipment blank, SUPE-EB-01-042623, and results in samples W-30C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,7,8-PeCDD (0.42 J pg/L) was detected below the QL in the equipment blank, SUPE-EB-01-042623, and results in samples W-99A, W-28C, W-06C, W-06A, and W-12CR were qualified not detected at the QL. Total PeCDD (0.42 J pg/L) was detected below the QL in the equipment blank, SUPE-EB-01-042623, and results in samples W-99A, W-28C, W-06C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,4,7,8-HxCDD (1 J pg/L) was detected below the QL in the equipment blank, SUPE-EB-01-042623, and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,6,7,8-HxCDD (0.26 JI pg/L) was detected below the QL in the equipment blank, SUPE-EB-01-042623, and results in samples W-06C, W-30C, and W-06A were qualified not detected at the QL. Total HxCDD (1.3 JI pg/L) was detected below the QL in the equipment blank, SUPE-EB-01-042623, and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. OCDD (2.9 JI pg/L) was detected below the QL in the equipment blank and results in samples W-99A, W-28C, W-06C, W-30C, and W-12CR were qualified not detected at the QL. Total TCDF (0.29 JI pg/L) was detected below the QL in the equipment blank, SUPE-EB-01-042623, and results in samples W-99A, W-28C, W-06C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,7,8-PeCDF (0.24 JI pg/L) was detected below the QL in the equipment blank, SUPE-EB-01-042623, and results in samples W-99A, W-28C, W-06C, W-30C, and W-12CR were qualified not detected at the QL. Total PeCDF (0.24 JI pg/L) was detected below the QL in the equipment blank, SUPE-EB-01-042623, and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,4,6,7,8-HpCDF (0.36 JI pg/L) was detected below the QL in the equipment blank, SUPE-EB-01-042623, and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. Total HpCDF (0.56 JI pg/L) was detected below the QL in the equipment blank, SUPE-EB-01-042623, and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. OCDF (0.33 JI pg/L) was detected below the QL in the equipment blank, SUPE-EB-01-042623, and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL.

□ 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	W-99A	QUAL	RPD
1,2,3,4,6,7,8-HpCDD	4.8	JI	3.3	J	37.04*
1,2,3,4,6,7,8-HpCDF	4.8	JI	4.3	J	10.99
1,2,3,4,7,8,9-HpCDF	0.57	JI	0.69	J	19.05
1,2,3,4,7,8-HxCDD	1.4	J	1.4	JI	0.00
1,2,3,4,7,8-HxCDF	1.9	J	1.4	J	30.30*
1,2,3,6,7,8-HxCDF	1.1	J	1.1	JI	0.00
1,2,3,7,8,9-HxCDD	0.54	J	0.63	JI	15.38
1,2,3,7,8-PeCDD	0.7	JI	0.61	J	13.74
1,2,3,7,8-PeCDF	1.2	JI	0.87	J	31.88*
2,3,4,7,8-PeCDF	0.96	J	0.18	JI	136.84*
2,3,7,8-TCDF	0.45	JI	0.4	JI	11.76
OCDD	29	J	22	J	27.45
OCDF	11	J	10	J	9.52
Total HpCDD	17	JI	13	J	26.67
Total HpCDF	6.6	JI	5.9	JI	11.20
Total HxCDD	3.5	JI	2.4	JI	37.29*
Total HxCDF	4.6	JI	3.4	JI	30.00
Total PeCDD	0.7	JI	0.61	J	13.74
Total PeCDF	2.1	JI	2	JI	4.88
Total TCDF	1.6	JI	1.4	JI	13.33

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

# FTS, LLC

**DATE:** May 22, 2023

**FROM:** Kendra Chintella

**SUBJECT:** Superior Groundwater

**SAMPLE DELIVERY GROUP (SDG):** 180-155744-1

**SAMPLES:** SUPE-W-04AR2-042723, SUPE-W-99B-042723 (W-04AR2), SUPE-W-12A-042723, SUPE-EB-02-042723, SUPE-W-30A-042723, SUPE-W-10AR2-042723

**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: Benzoic acid (10 ug/l) was detected above the QL in the equipment blank and the results in samples W-04AR2 and W-99B were qualified not detected. The benzoic acid results in samples W-12A and W-30A were qualified not detected at the QL. Benzyl alcohol (0.56 J ug/l) was detected below the QL in the equipment blank and no data qualification was necessary as sample results were not detected. Butyl benzyl phthalate (0.79 J ug/l) was detected below the QL in the equipment blank and the result in sample W-12A was qualified not detected at the QL. The butyl benzyl phthalate results in sample W-04AR2 was qualified "J+". Di-n-butyl phthalate (0.78 J ug/l) was detected below the QL in the equipment blank and the results in samples W-12A and W-30A were qualified not detected at the QL. Phenanthrene (0.079 J ug/l) was detected below the QL in the equipment blank and the results in samples W-12A and W-30A were qualified not detected at the QL. The phenanthrene results in samples W-04AR2, W-99B, and W-10AR2 were qualified "J+".
- Field Duplicate Precision  
Noncompliance: See attached page for details.
- Surrogate Recoveries  
Noncompliance: None
- Laboratory Control Sample  
Noncompliance: The LCS recovery of di-n-octyl phthalate was above the recovery limits. No action was taken on this basis.

**Field Duplicate Precision:**

FIELD DUPLICATE PRECISION					
ANALYTE	W-04AR2	QUAL	W-99B	QUAL	RPD
1-Methylnaphthalene	0.059	J	0.072	J	19.85
2-Methylnaphthalene	0.099	J	0.12	J	19.18
Acenaphthene	0.24		0.26		8.00
Anthracene	1.1		1		9.52
Benzo(a)anthracene	0.17		0.13	J	26.67
Benzo(a)pyrene	0.076	J	0.046	U	NC
Benzo(b)fluoranthene	0.17		0.089	J	62.55*
Benzo(k)fluoranthene	0.081	J	0.076	U	NC
Benzoic acid	4.2		5.1		19.35
Butyl benzyl phthalate	0.84		0.4	U	NC
Chrysene	0.24		0.13	J	59.46*
Dibenzofuran	0.2	J	0.21	J	4.88
Fluoranthene	0.71		0.5		34.71*
Fluorene	0.23		0.24		4.26
Naphthalene	0.72	J	0.94	J	26.51
Phenanthrene	0.73		0.76		4.03
Pyrene	0.55		0.44		22.22

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.

# FTS, LLC

**DATE:** June 12, 2023

**FROM:** Emily Vargo

**SUBJECT:** Superior Groundwater

**SAMPLE DELIVERY GROUP (SDG):** 180-155744-2

**SAMPLES:** SUPE-W-04AR2-042723, SUPE-W-99B-042723 (W-04AR2), SUPE-W-12A-042723, SUPE-W-30A-042723, SUPE-W-10AR2-042723

**ANALYSES:** Method 8290A (Dioxins and Furans)

**LABORATORY:** Eurofins Laboratories, Knoxville

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

- Data Completeness  
Noncompliance: Bottles were not received for 8290A analysis for the equipment blank. FTS was not notified by the laboratory and bottles were not submitted for analysis.
- Holding Times  
Noncompliance: None
- Laboratory Blank Contamination  
Noncompliance: Total TCDD (0.171 JI pg/L) was detected below the QL in the method blank and results in samples W-99B, W-12A, and W-30A were qualified not detected at the QL. 1,2,3,7,8-PeCDD (0.661 J pg/L) was detected below the QL in the method blank and results in samples W-99B and W-12A were qualified not detected at the QL. Total PeCDD (0.661 J pg/L) was detected below the QL in the method blank and results in samples W-99B, W-12A, and W-10AR2 were qualified not detected at the QL. 1,2,3,4,7,8-HxCDD (1.55 JI pg/L) was detected below the QL in the method blank and results in samples W-04AR2, W-99B, W-12A, W-30A, and W-10AR2 were qualified not detected at the QL. 1,2,3,6,7,8-HxCDD (0.362 J pg/L) was detected below the QL in the method blank and results in samples W-04AR2, W-99B, W-12A, W-30A, and W-10AR2 were qualified not detected at the QL. Total HxCDD (2.36 JI pg/L) was detected below the QL in the method blank and results in W-04AR2, W-99B, W-12A, W-30A, and W-10AR2 were qualified not detected at the QL. 1,2,3,4,6,7,8-HpCDD (2 JI pg/L) was detected below the QL in the method blank and results in samples W-04AR2 and W-10AR2 were qualified not detected at the QL. Total HpCDD (2 JI pg/L) was detected below the QL in the method blank the result in sample W-10AR2 was qualified not detected at the QL. OCDD (3.23 J pg/L) was detected below the QL in the method blank and no data qualification was necessary. 2,3,7,8-TCDF (0.255 JI pg/L) was detected below the QL and results in samples W-99B and W-12A were qualified not detected at the QL. Total TCDF (3.72 JI pg/L) was detected below the QL in the method blank and results in samples W-04AR2, W-99B, and W-10AR2 were qualified not detected at the QL. The total TCDF results in samples W-12A and W-30A were qualified "J+". 1,2,3,7,8-PeCDF (0.92 JI pg/L) was detected below the QL in the method blank and results in samples W-04AR2, W-99B, W-12A, and W-10AR2 were qualified not detected at the QL. 2,3,4,7,8-PeCDF (1.13 J pg/L) was detected below the QL in the method blank and results in samples W-04AR2, W-99B, W-12A, W-30A, and W-10AR2 were qualified not detected at the QL. Total PeCDF (3.32 JI pg/L) was detected in the method blank and results in samples W-04AR2, W-99B, and W-10AR2 were qualified not detected at the QL. 1,2,3,4,6,7,8-HpCDF (0.866 JI pg/L) was detected below the QL in the method blank and results in samples W-04AR2, W-99B, W-12A, W-30A, and W-



10AR2 were qualified not detected at the QL. 1,2,3,4,7,8,9-HpCDF (0.635 JI pg/L) was detected below the QL in the method blank and results in samples W-04AR2, W-99B, W-12A, W-30A, and W-10AR2 were qualified not detected at the QL. Total HpCDF (1.96 JI pg/L) was detected below the QL in the method blank and results in samples W-04AR2, W-99B, and W-10AR2 were qualified not detected at the QL. OCDF (1.5 JI pg/L) was detected below the QL in the method blank and results in samples W-04AR2, W-99B, W-12A, and W-10AR2 were qualified not detected at the QL.

- 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-04AR2	QUAL	W-99B	QUAL	RPD
1,2,3,4,6,7,8-HpCDD	12	JI	54		127.27*
1,2,3,4,6,7,8-HpCDF	2	JI	4.7	JI	80.60*
1,2,3,4,7,8,9-HpCDF	0.78	JI	1.2	J	42.42*
1,2,3,4,7,8-HxCDD	1	JI	1.5	JI	40.00*
1,2,3,4,7,8-HxCDF	0.55	J	1.3	JI	81.08*
1,2,3,6,7,8-HxCDD	0.53	J	1.5	J	95.57*
1,2,3,6,7,8-HxCDF	0.21	U	1.7	JI	ND
1,2,3,7,8,9-HxCDD	1	JI	2.1	J	70.97*
1,2,3,7,8-PeCDD	0.15	U	0.58	JI	ND
1,2,3,7,8-PeCDF	0.52	J	0.69	JI	28.10
2,3,4,6,7,8-HxCDF	0.66	JI	0.24	U	ND
2,3,4,7,8-PeCDF	0.8	JI	0.44	JI	58.06*
2,3,7,8-TCDF	0.15	U	0.13	JI	ND
OCDD	130		540		122.39*
OCDF	5.6	JI	19	J	108.94*
TOTAL HpCDD	86	I	460		137.00*
TOTAL HpCDF	6.7	JI	15	JI	76.50*
TOTAL HxCDD	10	JI	33	JI	106.98*
TOTAL HxCDF	8.1	JI	21	JI	88.66*
TOTAL PeCDD	0.15	U	0.91	JI	ND
TOTAL PeCDF	4.1	JI	12	JI	98.14*
TOTAL TCDD	0.18	U	1.1	JI	ND
TOTAL TCDF	1.8	JI	7.2	JI	120.00*

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

NC – not calculated due to non-detect result

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





# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ms. Angie Gatchie  
Field & Technical Services LLC  
200 Third Avenue  
Carnegie, Pennsylvania 15106

Generated 5/19/2023 3:36:28 PM

## JOB DESCRIPTION

Superior, WI Semiannual Groundwater

## JOB NUMBER

180-155743-1

# Eurofins Pittsburgh

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

## Authorization



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



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# Case Narrative

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

Job ID: 180-155743-1

**Job ID: 180-155743-1**

**Laboratory: Eurofins Pittsburgh**

## Narrative

### Job Narrative 180-155743-1

#### Receipt

The samples were received on 4/28/2023 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.1°C, 3.3°C and 3.8°C

#### GC/MS VOA

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: Received limited quantity, insufficient amount for MSD.(180-155743-G-1 MS)

Method 8270E\_LL: The continuing calibration verification (CCV) associated with batch 180-434215 recovered above the upper control limit for 2,3,5,6-Tetrachlorophenol, 2-Nitroaniline and Bis(2-chloroethoxy)methane. 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 180-434215/3).

Method 8270E\_LL: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SUPE-W-06C-042623 (180-155743-3), SUPE-W-18D-042623 (180-155743-5), SUPE-W-12CR-042623 (180-155743-7) and SUPE-EB-01-042623 (180-155743-8). Percent recoveries are based on the amount spiked.

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: 180-155743-1

## Qualifiers

### 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.
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: 180-155743-1

## 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
- 2
- 3
- 4
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- 10
- 11
- 12
- 13

# Sample Summary

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

Job ID: 180-155743-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-155743-1	SUPE-W-99A-042623	Water	04/26/23 08:30	04/28/23 09:10
180-155743-2	SUPE-W-28C-042623	Water	04/26/23 10:38	04/28/23 09:10
180-155743-3	SUPE-W-06C-042623	Water	04/26/23 12:35	04/28/23 09:10
180-155743-4	SUPE-W-30C-042623	Water	04/26/23 14:42	04/28/23 09:10
180-155743-5	SUPE-W-18D-042623	Water	04/26/23 16:15	04/28/23 09:10
180-155743-6	SUPE-W-06A-042623	Water	04/26/23 11:25	04/28/23 09:10
180-155743-7	SUPE-W-12CR-042623	Water	04/26/23 15:15	04/28/23 09:10
180-155743-8	SUPE-EB-01-042623	Water	04/26/23 15:40	04/28/23 09:10

- 1
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# Method Summary

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

Job ID: 180-155743-1

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: 180-155743-1

**Client Sample ID: SUPE-W-99A-042623**

**Lab Sample ID: 180-155743-1**

**Date Collected: 04/26/23 08:30**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

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	667627	05/01/23 14:02	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			1050 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 16:04	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			310 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 16:49	VVP	EET PIT
Instrument ID: CH71										

**Client Sample ID: SUPE-W-28C-042623**

**Lab Sample ID: 180-155743-2**

**Date Collected: 04/26/23 10:38**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

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	667627	05/01/23 14:25	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			1050 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 16:32	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			310 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 17:32	VVP	EET PIT
Instrument ID: CH71										

**Client Sample ID: SUPE-W-06C-042623**

**Lab Sample ID: 180-155743-3**

**Date Collected: 04/26/23 12:35**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

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	667627	05/01/23 14:47	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			1050 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 17:00	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			320 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 17:54	VVP	EET PIT
Instrument ID: CH71										

**Client Sample ID: SUPE-W-30C-042623**

**Lab Sample ID: 180-155743-4**

**Date Collected: 04/26/23 14:42**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

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	667627	05/01/23 15:09	CDC	EET BUF
Instrument ID: HP5977K										

# Lab Chronicle

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-30C-042623**

**Lab Sample ID: 180-155743-4**

**Date Collected: 04/26/23 14:42**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1050 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 17:28	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			310 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 18:16	VVP	EET PIT
Instrument ID: CH71										

**Client Sample ID: SUPE-W-18D-042623**

**Lab Sample ID: 180-155743-5**

**Date Collected: 04/26/23 16:15**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1050 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 17:55	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			300 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 18:38	VVP	EET PIT
Instrument ID: CH71										

**Client Sample ID: SUPE-W-06A-042623**

**Lab Sample ID: 180-155743-6**

**Date Collected: 04/26/23 11:25**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

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	667627	05/01/23 15:31	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			960 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 18:23	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			270 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 19:00	VVP	EET PIT
Instrument ID: CH71										

**Client Sample ID: SUPE-W-12CR-042623**

**Lab Sample ID: 180-155743-7**

**Date Collected: 04/26/23 15:15**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

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	667627	05/01/23 15:54	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			950 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 18:51	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			290 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 19:22	VVP	EET PIT
Instrument ID: CH71										

Eurofins Pittsburgh

# Lab Chronicle

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-EB-01-042623**

**Lab Sample ID: 180-155743-8**

**Date Collected: 04/26/23 15:40**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

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	667627	05/01/23 16:16	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			1050 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 19:19	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			310 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 19:43	VVP	EET PIT
Instrument ID: CH71										

**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

CDC = Charles Cwiklinski

JMM = Joseph Marshall

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: 180-155743-1

**Client Sample ID: SUPE-W-99A-042623**

**Lab Sample ID: 180-155743-1**

Date Collected: 04/26/23 08:30

Matrix: Water

Date Received: 04/28/23 09:10

## 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			05/01/23 14:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 14:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 14:02	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 14:02	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 14:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 14:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 14:02	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 14:02	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 14:02	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 14:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 14:02	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 14:02	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 14:02	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 14:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					05/01/23 14:02	1
4-Bromofluorobenzene (Surr)	94		73 - 120					05/01/23 14:02	1
Dibromofluoromethane (Surr)	105		75 - 123					05/01/23 14:02	1
Toluene-d8 (Surr)	99		80 - 120					05/01/23 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		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		24 - 146				05/02/23 09:25	05/04/23 16:04	1
2-Fluorobiphenyl	97		37 - 120				05/02/23 09:25	05/04/23 16:04	1
2-Fluorophenol (Surr)	50		10 - 120				05/02/23 09:25	05/04/23 16:04	1
Nitrobenzene-d5 (Surr)	77		26 - 120				05/02/23 09:25	05/04/23 16:04	1
Phenol-d5 (Surr)	33		11 - 120				05/02/23 09:25	05/04/23 16:04	1
p-Terphenyl-d14	97		64 - 127				05/02/23 09:25	05/04/23 16:04	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		0.81	0.11	ug/L		05/02/23 12:33	05/04/23 16:49	1
1,2-Dichlorobenzene	ND		0.81	0.077	ug/L		05/02/23 12:33	05/04/23 16:49	1
1,3-Dichlorobenzene	ND		0.81	0.080	ug/L		05/02/23 12:33	05/04/23 16:49	1
1,4-Dichlorobenzene	ND		0.81	0.049	ug/L		05/02/23 12:33	05/04/23 16:49	1
1-Methylnaphthalene	ND		0.15	0.045	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,3,4,6-Tetrachlorophenol	ND		0.81	0.26	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,3,5,6-Tetrachlorophenol	ND		0.81	0.41	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,4,5-Trichlorophenol	ND		0.81	0.20	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,4,6-Trichlorophenol	ND		0.81	0.18	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,4-Dichlorophenol	ND		0.15	0.041	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,4-Dimethylphenol	ND		0.81	0.13	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,4-Dinitrophenol	ND		8.1	1.2	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,4-Dinitrotoluene	ND		0.81	0.28	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,6-Dinitrotoluene	ND		0.81	0.14	ug/L		05/02/23 12:33	05/04/23 16:49	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-99A-042623**

**Lab Sample ID: 180-155743-1**

Date Collected: 04/26/23 08:30

Matrix: Water

Date Received: 04/28/23 09:10

**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		0.15	0.048	ug/L		05/02/23 12:33	05/04/23 16:49	1
2-Chlorophenol	ND		0.81	0.10	ug/L		05/02/23 12:33	05/04/23 16:49	1
2-Methylnaphthalene	ND		0.15	0.050	ug/L		05/02/23 12:33	05/04/23 16:49	1
2-Methylphenol	ND		0.81	0.24	ug/L		05/02/23 12:33	05/04/23 16:49	1
2-Nitroaniline	ND		4.0	0.44	ug/L		05/02/23 12:33	05/04/23 16:49	1
2-Nitrophenol	ND		0.81	0.16	ug/L		05/02/23 12:33	05/04/23 16:49	1
3,3'-Dichlorobenzidine	ND		0.81	0.47	ug/L		05/02/23 12:33	05/04/23 16:49	1
3-Nitroaniline	ND		4.0	0.35	ug/L		05/02/23 12:33	05/04/23 16:49	1
4,6-Dinitro-2-methylphenol	ND		4.0	1.2	ug/L		05/02/23 12:33	05/04/23 16:49	1
4-Bromophenyl phenyl ether	ND		0.81	0.26	ug/L		05/02/23 12:33	05/04/23 16:49	1
4-Chloro-3-methylphenol	ND		0.81	0.22	ug/L		05/02/23 12:33	05/04/23 16:49	1
4-Chloroaniline	ND		0.81	0.30	ug/L		05/02/23 12:33	05/04/23 16:49	1
4-Chlorophenyl phenyl ether	ND		0.81	0.18	ug/L		05/02/23 12:33	05/04/23 16:49	1
4-Nitroaniline	ND		4.0	0.29	ug/L		05/02/23 12:33	05/04/23 16:49	1
4-Nitrophenol	ND		4.0	0.76	ug/L		05/02/23 12:33	05/04/23 16:49	1
Acenaphthene	ND		0.15	0.052	ug/L		05/02/23 12:33	05/04/23 16:49	1
Acenaphthylene	ND		0.15	0.052	ug/L		05/02/23 12:33	05/04/23 16:49	1
Anthracene	ND		0.15	0.040	ug/L		05/02/23 12:33	05/04/23 16:49	1
Benzo[a]anthracene	ND		0.15	0.060	ug/L		05/02/23 12:33	05/04/23 16:49	1
Benzo[a]pyrene	ND		0.15	0.043	ug/L		05/02/23 12:33	05/04/23 16:49	1
Benzo[b]fluoranthene	ND		0.15	0.078	ug/L		05/02/23 12:33	05/04/23 16:49	1
Benzo[g,h,i]perylene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 16:49	1
Benzo[k]fluoranthene	ND		0.15	0.071	ug/L		05/02/23 12:33	05/04/23 16:49	1
<b>Benzoic acid</b>	<b>4.4</b>		4.0	0.74	ug/L		05/02/23 12:33	05/04/23 16:49	1
Benzyl alcohol	ND		0.81	0.13	ug/L		05/02/23 12:33	05/04/23 16:49	1
Bis(2-chloroethoxy)methane	ND		0.81	0.12	ug/L		05/02/23 12:33	05/04/23 16:49	1
Bis(2-chloroethyl)ether	ND		0.15	0.032	ug/L		05/02/23 12:33	05/04/23 16:49	1
Bis(2-ethylhexyl) phthalate	ND		8.1	5.0	ug/L		05/02/23 12:33	05/04/23 16:49	1
bis(chloroisopropyl) ether	ND		0.15	0.047	ug/L		05/02/23 12:33	05/04/23 16:49	1
Butyl benzyl phthalate	ND		0.81	0.37	ug/L		05/02/23 12:33	05/04/23 16:49	1
Chrysene	ND		0.15	0.065	ug/L		05/02/23 12:33	05/04/23 16:49	1
Dibenz(a,h)anthracene	ND		0.15	0.058	ug/L		05/02/23 12:33	05/04/23 16:49	1
Dibenzofuran	ND		0.81	0.15	ug/L		05/02/23 12:33	05/04/23 16:49	1
Diethyl phthalate	ND		0.81	0.46	ug/L		05/02/23 12:33	05/04/23 16:49	1
Dimethyl phthalate	ND		0.81	0.16	ug/L		05/02/23 12:33	05/04/23 16:49	1
<b>Di-n-butyl phthalate</b>	<b>1.4</b>		0.81	0.60	ug/L		05/02/23 12:33	05/04/23 16:49	1
Di-n-octyl phthalate	ND		0.81	0.55	ug/L		05/02/23 12:33	05/04/23 16:49	1
Fluoranthene	ND		0.15	0.048	ug/L		05/02/23 12:33	05/04/23 16:49	1
Fluorene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 16:49	1
Hexachlorobenzene	ND		0.15	0.045	ug/L		05/02/23 12:33	05/04/23 16:49	1
Hexachlorobutadiene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 16:49	1
Hexachlorocyclopentadiene	ND		0.81	0.40	ug/L		05/02/23 12:33	05/04/23 16:49	1
Hexachloroethane	ND		0.81	0.11	ug/L		05/02/23 12:33	05/04/23 16:49	1
Indeno[1,2,3-cd]pyrene	ND		0.15	0.069	ug/L		05/02/23 12:33	05/04/23 16:49	1
Isophorone	ND		0.81	0.15	ug/L		05/02/23 12:33	05/04/23 16:49	1
Methylphenol, 3 & 4	ND		0.81	0.30	ug/L		05/02/23 12:33	05/04/23 16:49	1
Nitrobenzene	ND		1.6	0.40	ug/L		05/02/23 12:33	05/04/23 16:49	1
N-Nitrosodi-n-propylamine	ND		0.15	0.057	ug/L		05/02/23 12:33	05/04/23 16:49	1
N-Nitrosodiphenylamine	ND		0.81	0.096	ug/L		05/02/23 12:33	05/04/23 16:49	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-99A-042623**

**Lab Sample ID: 180-155743-1**

Date Collected: 04/26/23 08:30

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.066	J	0.15	0.044	ug/L		05/02/23 12:33	05/04/23 16:49	1
Phenol	ND		0.81	0.39	ug/L		05/02/23 12:33	05/04/23 16:49	1
Pyrene	ND		0.15	0.044	ug/L		05/02/23 12:33	05/04/23 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		23 - 128	05/02/23 12:33	05/04/23 16:49	1
2-Fluorobiphenyl	63		20 - 105	05/02/23 12:33	05/04/23 16:49	1
2-Fluorophenol (Surr)	74		20 - 105	05/02/23 12:33	05/04/23 16:49	1
Nitrobenzene-d5 (Surr)	78		20 - 107	05/02/23 12:33	05/04/23 16:49	1
Phenol-d5 (Surr)	73		20 - 106	05/02/23 12:33	05/04/23 16:49	1
Terphenyl-d14 (Surr)	70		22 - 120	05/02/23 12:33	05/04/23 16:49	1

**Client Sample ID: SUPE-W-28C-042623**

**Lab Sample ID: 180-155743-2**

Date Collected: 04/26/23 10:38

Matrix: Water

Date Received: 04/28/23 09:10

**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			05/01/23 14:25	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 14:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 14:25	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 14:25	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 14:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 14:25	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 14:25	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 14:25	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 14:25	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 14:25	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 14:25	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 14:25	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 14:25	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 14:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		05/01/23 14:25	1
4-Bromofluorobenzene (Surr)	96		73 - 120		05/01/23 14:25	1
Dibromofluoromethane (Surr)	100		75 - 123		05/01/23 14:25	1
Toluene-d8 (Surr)	98		80 - 120		05/01/23 14:25	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	ND		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		24 - 146	05/02/23 09:25	05/04/23 16:32	1
2-Fluorobiphenyl	99		37 - 120	05/02/23 09:25	05/04/23 16:32	1
2-Fluorophenol (Surr)	51		10 - 120	05/02/23 09:25	05/04/23 16:32	1
Nitrobenzene-d5 (Surr)	79		26 - 120	05/02/23 09:25	05/04/23 16:32	1
Phenol-d5 (Surr)	33		11 - 120	05/02/23 09:25	05/04/23 16:32	1
p-Terphenyl-d14	95		64 - 127	05/02/23 09:25	05/04/23 16:32	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-28C-042623**

**Lab Sample ID: 180-155743-2**

Date Collected: 04/26/23 10:38

Matrix: Water

Date Received: 04/28/23 09:10

**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		0.81	0.11	ug/L		05/02/23 12:33	05/04/23 17:32	1
1,2-Dichlorobenzene	ND		0.81	0.077	ug/L		05/02/23 12:33	05/04/23 17:32	1
1,3-Dichlorobenzene	ND		0.81	0.080	ug/L		05/02/23 12:33	05/04/23 17:32	1
1,4-Dichlorobenzene	ND		0.81	0.049	ug/L		05/02/23 12:33	05/04/23 17:32	1
<b>1-Methylnaphthalene</b>	<b>0.088</b>	<b>J</b>	0.15	0.045	ug/L		05/02/23 12:33	05/04/23 17:32	1
2,3,4,6-Tetrachlorophenol	ND		0.81	0.26	ug/L		05/02/23 12:33	05/04/23 17:32	1
2,3,5,6-Tetrachlorophenol	ND		0.81	0.41	ug/L		05/02/23 12:33	05/04/23 17:32	1
2,4,5-Trichlorophenol	ND		0.81	0.20	ug/L		05/02/23 12:33	05/04/23 17:32	1
2,4,6-Trichlorophenol	ND		0.81	0.18	ug/L		05/02/23 12:33	05/04/23 17:32	1
2,4-Dichlorophenol	ND		0.15	0.041	ug/L		05/02/23 12:33	05/04/23 17:32	1
2,4-Dimethylphenol	ND		0.81	0.13	ug/L		05/02/23 12:33	05/04/23 17:32	1
2,4-Dinitrophenol	ND		8.1	1.2	ug/L		05/02/23 12:33	05/04/23 17:32	1
2,4-Dinitrotoluene	ND		0.81	0.28	ug/L		05/02/23 12:33	05/04/23 17:32	1
2,6-Dinitrotoluene	ND		0.81	0.14	ug/L		05/02/23 12:33	05/04/23 17:32	1
2-Chloronaphthalene	ND		0.15	0.048	ug/L		05/02/23 12:33	05/04/23 17:32	1
2-Chlorophenol	ND		0.81	0.10	ug/L		05/02/23 12:33	05/04/23 17:32	1
<b>2-Methylnaphthalene</b>	<b>0.091</b>	<b>J</b>	0.15	0.050	ug/L		05/02/23 12:33	05/04/23 17:32	1
2-Methylphenol	ND		0.81	0.24	ug/L		05/02/23 12:33	05/04/23 17:32	1
2-Nitroaniline	ND		4.0	0.44	ug/L		05/02/23 12:33	05/04/23 17:32	1
2-Nitrophenol	ND		0.81	0.16	ug/L		05/02/23 12:33	05/04/23 17:32	1
3,3'-Dichlorobenzidine	ND		0.81	0.47	ug/L		05/02/23 12:33	05/04/23 17:32	1
3-Nitroaniline	ND		4.0	0.35	ug/L		05/02/23 12:33	05/04/23 17:32	1
4,6-Dinitro-2-methylphenol	ND		4.0	1.2	ug/L		05/02/23 12:33	05/04/23 17:32	1
4-Bromophenyl phenyl ether	ND		0.81	0.26	ug/L		05/02/23 12:33	05/04/23 17:32	1
4-Chloro-3-methylphenol	ND		0.81	0.22	ug/L		05/02/23 12:33	05/04/23 17:32	1
4-Chloroaniline	ND		0.81	0.30	ug/L		05/02/23 12:33	05/04/23 17:32	1
4-Chlorophenyl phenyl ether	ND		0.81	0.18	ug/L		05/02/23 12:33	05/04/23 17:32	1
4-Nitroaniline	ND		4.0	0.29	ug/L		05/02/23 12:33	05/04/23 17:32	1
4-Nitrophenol	ND		4.0	0.76	ug/L		05/02/23 12:33	05/04/23 17:32	1
<b>Acenaphthene</b>	<b>0.062</b>	<b>J</b>	0.15	0.052	ug/L		05/02/23 12:33	05/04/23 17:32	1
Acenaphthylene	ND		0.15	0.052	ug/L		05/02/23 12:33	05/04/23 17:32	1
Anthracene	ND		0.15	0.040	ug/L		05/02/23 12:33	05/04/23 17:32	1
Benzo[a]anthracene	ND		0.15	0.060	ug/L		05/02/23 12:33	05/04/23 17:32	1
Benzo[a]pyrene	ND		0.15	0.043	ug/L		05/02/23 12:33	05/04/23 17:32	1
Benzo[b]fluoranthene	ND		0.15	0.078	ug/L		05/02/23 12:33	05/04/23 17:32	1
Benzo[g,h,i]perylene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 17:32	1
Benzo[k]fluoranthene	ND		0.15	0.071	ug/L		05/02/23 12:33	05/04/23 17:32	1
<b>Benzoic acid</b>	<b>3.1</b>	<b>J</b>	4.0	0.74	ug/L		05/02/23 12:33	05/04/23 17:32	1
Benzyl alcohol	ND		0.81	0.13	ug/L		05/02/23 12:33	05/04/23 17:32	1
Bis(2-chloroethoxy)methane	ND		0.81	0.12	ug/L		05/02/23 12:33	05/04/23 17:32	1
Bis(2-chloroethyl)ether	ND		0.15	0.032	ug/L		05/02/23 12:33	05/04/23 17:32	1
Bis(2-ethylhexyl) phthalate	ND		8.1	5.0	ug/L		05/02/23 12:33	05/04/23 17:32	1
bis(chloroisopropyl) ether	ND		0.15	0.047	ug/L		05/02/23 12:33	05/04/23 17:32	1
Butyl benzyl phthalate	ND		0.81	0.37	ug/L		05/02/23 12:33	05/04/23 17:32	1
Chrysene	ND		0.15	0.065	ug/L		05/02/23 12:33	05/04/23 17:32	1
Dibenz(a,h)anthracene	ND		0.15	0.058	ug/L		05/02/23 12:33	05/04/23 17:32	1
Dibenzofuran	ND		0.81	0.15	ug/L		05/02/23 12:33	05/04/23 17:32	1
Diethyl phthalate	ND		0.81	0.46	ug/L		05/02/23 12:33	05/04/23 17:32	1
Dimethyl phthalate	ND		0.81	0.16	ug/L		05/02/23 12:33	05/04/23 17:32	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-28C-042623**

**Lab Sample ID: 180-155743-2**

Date Collected: 04/26/23 10:38

Matrix: Water

Date Received: 04/28/23 09:10

**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>		0.81	0.60	ug/L		05/02/23 12:33	05/04/23 17:32	1
Di-n-octyl phthalate	ND		0.81	0.55	ug/L		05/02/23 12:33	05/04/23 17:32	1
Fluoranthene	ND		0.15	0.048	ug/L		05/02/23 12:33	05/04/23 17:32	1
Fluorene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 17:32	1
Hexachlorobenzene	ND		0.15	0.045	ug/L		05/02/23 12:33	05/04/23 17:32	1
Hexachlorobutadiene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 17:32	1
Hexachlorocyclopentadiene	ND		0.81	0.40	ug/L		05/02/23 12:33	05/04/23 17:32	1
Hexachloroethane	ND		0.81	0.11	ug/L		05/02/23 12:33	05/04/23 17:32	1
Indeno[1,2,3-cd]pyrene	ND		0.15	0.069	ug/L		05/02/23 12:33	05/04/23 17:32	1
Isophorone	ND		0.81	0.15	ug/L		05/02/23 12:33	05/04/23 17:32	1
Methylphenol, 3 & 4	ND		0.81	0.30	ug/L		05/02/23 12:33	05/04/23 17:32	1
Nitrobenzene	ND		1.6	0.40	ug/L		05/02/23 12:33	05/04/23 17:32	1
N-Nitrosodi-n-propylamine	ND		0.15	0.057	ug/L		05/02/23 12:33	05/04/23 17:32	1
N-Nitrosodiphenylamine	ND		0.81	0.096	ug/L		05/02/23 12:33	05/04/23 17:32	1
<b>Phenanthrene</b>	<b>0.073</b>	<b>J</b>	0.15	0.044	ug/L		05/02/23 12:33	05/04/23 17:32	1
Phenol	ND		0.81	0.39	ug/L		05/02/23 12:33	05/04/23 17:32	1
Pyrene	ND		0.15	0.044	ug/L		05/02/23 12:33	05/04/23 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		23 - 128	05/02/23 12:33	05/04/23 17:32	1
2-Fluorobiphenyl	65		20 - 105	05/02/23 12:33	05/04/23 17:32	1
2-Fluorophenol (Surr)	73		20 - 105	05/02/23 12:33	05/04/23 17:32	1
Nitrobenzene-d5 (Surr)	70		20 - 107	05/02/23 12:33	05/04/23 17:32	1
Phenol-d5 (Surr)	74		20 - 106	05/02/23 12:33	05/04/23 17:32	1
Terphenyl-d14 (Surr)	77		22 - 120	05/02/23 12:33	05/04/23 17:32	1

**Client Sample ID: SUPE-W-06C-042623**

**Lab Sample ID: 180-155743-3**

Date Collected: 04/26/23 12:35

Matrix: Water

Date Received: 04/28/23 09:10

**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			05/01/23 14:47	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 14:47	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 14:47	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 14:47	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 14:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 14:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 14:47	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 14:47	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 14:47	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 14:47	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 14:47	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 14:47	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 14:47	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 14:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		05/01/23 14:47	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-06C-042623**

**Lab Sample ID: 180-155743-3**

Date Collected: 04/26/23 12:35

Matrix: Water

Date Received: 04/28/23 09:10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		73 - 120		05/01/23 14:47	1
Dibromofluoromethane (Surr)	97		75 - 123		05/01/23 14:47	1
Toluene-d8 (Surr)	98		80 - 120		05/01/23 14:47	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		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		24 - 146	05/02/23 09:25	05/04/23 17:00	1
2-Fluorobiphenyl	97		37 - 120	05/02/23 09:25	05/04/23 17:00	1
2-Fluorophenol (Surr)	50		10 - 120	05/02/23 09:25	05/04/23 17:00	1
Nitrobenzene-d5 (Surr)	75		26 - 120	05/02/23 09:25	05/04/23 17:00	1
Phenol-d5 (Surr)	33		11 - 120	05/02/23 09:25	05/04/23 17:00	1
p-Terphenyl-d14	80		64 - 127	05/02/23 09:25	05/04/23 17:00	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		0.78	0.10	ug/L		05/02/23 12:33	05/04/23 17:54	1
1,2-Dichlorobenzene	ND		0.78	0.074	ug/L		05/02/23 12:33	05/04/23 17:54	1
1,3-Dichlorobenzene	ND		0.78	0.077	ug/L		05/02/23 12:33	05/04/23 17:54	1
1,4-Dichlorobenzene	ND		0.78	0.048	ug/L		05/02/23 12:33	05/04/23 17:54	1
1-Methylnaphthalene	ND		0.15	0.044	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,3,4,6-Tetrachlorophenol	ND		0.78	0.25	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,3,5,6-Tetrachlorophenol	ND		0.78	0.40	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,4,5-Trichlorophenol	ND		0.78	0.20	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,4,6-Trichlorophenol	ND		0.78	0.18	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,4-Dichlorophenol	ND		0.15	0.040	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,4-Dimethylphenol	ND		0.78	0.13	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,4-Dinitrophenol	ND		7.8	1.2	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,4-Dinitrotoluene	ND		0.78	0.28	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,6-Dinitrotoluene	ND		0.78	0.14	ug/L		05/02/23 12:33	05/04/23 17:54	1
2-Chloronaphthalene	ND		0.15	0.046	ug/L		05/02/23 12:33	05/04/23 17:54	1
2-Chlorophenol	ND		0.78	0.10	ug/L		05/02/23 12:33	05/04/23 17:54	1
2-Methylnaphthalene	ND		0.15	0.048	ug/L		05/02/23 12:33	05/04/23 17:54	1
2-Methylphenol	ND		0.78	0.23	ug/L		05/02/23 12:33	05/04/23 17:54	1
2-Nitroaniline	ND		3.9	0.43	ug/L		05/02/23 12:33	05/04/23 17:54	1
2-Nitrophenol	ND		0.78	0.15	ug/L		05/02/23 12:33	05/04/23 17:54	1
3,3'-Dichlorobenzidine	ND		0.78	0.46	ug/L		05/02/23 12:33	05/04/23 17:54	1
3-Nitroaniline	ND		3.9	0.34	ug/L		05/02/23 12:33	05/04/23 17:54	1
4,6-Dinitro-2-methylphenol	ND		3.9	1.1	ug/L		05/02/23 12:33	05/04/23 17:54	1
4-Bromophenyl phenyl ether	ND		0.78	0.25	ug/L		05/02/23 12:33	05/04/23 17:54	1
4-Chloro-3-methylphenol	ND		0.78	0.22	ug/L		05/02/23 12:33	05/04/23 17:54	1
4-Chloroaniline	ND		0.78	0.29	ug/L		05/02/23 12:33	05/04/23 17:54	1
4-Chlorophenyl phenyl ether	ND		0.78	0.17	ug/L		05/02/23 12:33	05/04/23 17:54	1
4-Nitroaniline	ND		3.9	0.28	ug/L		05/02/23 12:33	05/04/23 17:54	1
4-Nitrophenol	ND		3.9	0.73	ug/L		05/02/23 12:33	05/04/23 17:54	1
Acenaphthene	ND		0.15	0.051	ug/L		05/02/23 12:33	05/04/23 17:54	1
Acenaphthylene	ND		0.15	0.051	ug/L		05/02/23 12:33	05/04/23 17:54	1
Anthracene	ND		0.15	0.038	ug/L		05/02/23 12:33	05/04/23 17:54	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-06C-042623**

**Lab Sample ID: 180-155743-3**

Date Collected: 04/26/23 12:35

Matrix: Water

Date Received: 04/28/23 09:10

**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		0.15	0.059	ug/L		05/02/23 12:33	05/04/23 17:54	1
Benzo[a]pyrene	ND		0.15	0.041	ug/L		05/02/23 12:33	05/04/23 17:54	1
Benzo[b]fluoranthene	ND		0.15	0.076	ug/L		05/02/23 12:33	05/04/23 17:54	1
Benzo[g,h,i]perylene	ND		0.15	0.054	ug/L		05/02/23 12:33	05/04/23 17:54	1
Benzo[k]fluoranthene	ND		0.15	0.069	ug/L		05/02/23 12:33	05/04/23 17:54	1
<b>Benzoic acid</b>	<b>1.5</b>	<b>J</b>	3.9	0.72	ug/L		05/02/23 12:33	05/04/23 17:54	1
Benzyl alcohol	ND		0.78	0.13	ug/L		05/02/23 12:33	05/04/23 17:54	1
Bis(2-chloroethoxy)methane	ND		0.78	0.12	ug/L		05/02/23 12:33	05/04/23 17:54	1
Bis(2-chloroethyl)ether	ND		0.15	0.031	ug/L		05/02/23 12:33	05/04/23 17:54	1
Bis(2-ethylhexyl) phthalate	ND		7.8	4.9	ug/L		05/02/23 12:33	05/04/23 17:54	1
bis(chloroisopropyl) ether	ND		0.15	0.045	ug/L		05/02/23 12:33	05/04/23 17:54	1
<b>Butyl benzyl phthalate</b>	<b>0.61</b>	<b>J</b>	0.78	0.36	ug/L		05/02/23 12:33	05/04/23 17:54	1
Chrysene	ND		0.15	0.063	ug/L		05/02/23 12:33	05/04/23 17:54	1
Dibenz(a,h)anthracene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 17:54	1
Dibenzofuran	ND		0.78	0.15	ug/L		05/02/23 12:33	05/04/23 17:54	1
Diethyl phthalate	ND		0.78	0.44	ug/L		05/02/23 12:33	05/04/23 17:54	1
Dimethyl phthalate	ND		0.78	0.16	ug/L		05/02/23 12:33	05/04/23 17:54	1
<b>Di-n-butyl phthalate</b>	<b>1.1</b>		0.78	0.58	ug/L		05/02/23 12:33	05/04/23 17:54	1
Di-n-octyl phthalate	ND		0.78	0.54	ug/L		05/02/23 12:33	05/04/23 17:54	1
<b>Fluoranthene</b>	<b>0.092</b>	<b>J</b>	0.15	0.047	ug/L		05/02/23 12:33	05/04/23 17:54	1
Fluorene	ND		0.15	0.054	ug/L		05/02/23 12:33	05/04/23 17:54	1
Hexachlorobenzene	ND		0.15	0.044	ug/L		05/02/23 12:33	05/04/23 17:54	1
Hexachlorobutadiene	ND		0.15	0.054	ug/L		05/02/23 12:33	05/04/23 17:54	1
Hexachlorocyclopentadiene	ND		0.78	0.39	ug/L		05/02/23 12:33	05/04/23 17:54	1
Hexachloroethane	ND		0.78	0.10	ug/L		05/02/23 12:33	05/04/23 17:54	1
Indeno[1,2,3-cd]pyrene	ND		0.15	0.066	ug/L		05/02/23 12:33	05/04/23 17:54	1
Isophorone	ND		0.78	0.15	ug/L		05/02/23 12:33	05/04/23 17:54	1
Methylphenol, 3 & 4	ND		0.78	0.29	ug/L		05/02/23 12:33	05/04/23 17:54	1
Nitrobenzene	ND		1.6	0.39	ug/L		05/02/23 12:33	05/04/23 17:54	1
N-Nitrosodi-n-propylamine	ND		0.15	0.055	ug/L		05/02/23 12:33	05/04/23 17:54	1
N-Nitrosodiphenylamine	ND		0.78	0.093	ug/L		05/02/23 12:33	05/04/23 17:54	1
<b>Phenanthrene</b>	<b>0.065</b>	<b>J</b>	0.15	0.043	ug/L		05/02/23 12:33	05/04/23 17:54	1
Phenol	ND		0.78	0.38	ug/L		05/02/23 12:33	05/04/23 17:54	1
<b>Pyrene</b>	<b>0.066</b>	<b>J</b>	0.15	0.042	ug/L		05/02/23 12:33	05/04/23 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	50		23 - 128	05/02/23 12:33	05/04/23 17:54	1
2-Fluorobiphenyl	44		20 - 105	05/02/23 12:33	05/04/23 17:54	1
2-Fluorophenol (Surr)	51		20 - 105	05/02/23 12:33	05/04/23 17:54	1
Nitrobenzene-d5 (Surr)	54		20 - 107	05/02/23 12:33	05/04/23 17:54	1
Phenol-d5 (Surr)	54		20 - 106	05/02/23 12:33	05/04/23 17:54	1
Terphenyl-d14 (Surr)	45		22 - 120	05/02/23 12:33	05/04/23 17:54	1

**Client Sample ID: SUPE-W-30C-042623**

**Lab Sample ID: 180-155743-4**

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

**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			05/01/23 15:09	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-30C-042623**

**Lab Sample ID: 180-155743-4**

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

## 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			05/01/23 15:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 15:09	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 15:09	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 15:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 15:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 15:09	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 15:09	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 15:09	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 15:09	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 15:09	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 15:09	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 15:09	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 15:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		05/01/23 15:09	1
4-Bromofluorobenzene (Surr)	94		73 - 120		05/01/23 15:09	1
Dibromofluoromethane (Surr)	97		75 - 123		05/01/23 15:09	1
Toluene-d8 (Surr)	99		80 - 120		05/01/23 15:09	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		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		24 - 146	05/02/23 09:25	05/04/23 17:28	1
2-Fluorobiphenyl	112		37 - 120	05/02/23 09:25	05/04/23 17:28	1
2-Fluorophenol (Surr)	57		10 - 120	05/02/23 09:25	05/04/23 17:28	1
Nitrobenzene-d5 (Surr)	92		26 - 120	05/02/23 09:25	05/04/23 17:28	1
Phenol-d5 (Surr)	39		11 - 120	05/02/23 09:25	05/04/23 17:28	1
p-Terphenyl-d14	99		64 - 127	05/02/23 09:25	05/04/23 17:28	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		0.81	0.11	ug/L		05/02/23 12:33	05/04/23 18:16	1
1,2-Dichlorobenzene	ND		0.81	0.077	ug/L		05/02/23 12:33	05/04/23 18:16	1
1,3-Dichlorobenzene	ND		0.81	0.080	ug/L		05/02/23 12:33	05/04/23 18:16	1
1,4-Dichlorobenzene	ND		0.81	0.049	ug/L		05/02/23 12:33	05/04/23 18:16	1
1-Methylnaphthalene	ND		0.15	0.045	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,3,4,6-Tetrachlorophenol	ND		0.81	0.26	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,3,5,6-Tetrachlorophenol	ND		0.81	0.41	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,4,5-Trichlorophenol	ND		0.81	0.20	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,4,6-Trichlorophenol	ND		0.81	0.18	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,4-Dichlorophenol	ND		0.15	0.041	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,4-Dimethylphenol	ND		0.81	0.13	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,4-Dinitrophenol	ND		8.1	1.2	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,4-Dinitrotoluene	ND		0.81	0.28	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,6-Dinitrotoluene	ND		0.81	0.14	ug/L		05/02/23 12:33	05/04/23 18:16	1
2-Chloronaphthalene	ND		0.15	0.048	ug/L		05/02/23 12:33	05/04/23 18:16	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-30C-042623**

**Lab Sample ID: 180-155743-4**

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

**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		0.81	0.10	ug/L		05/02/23 12:33	05/04/23 18:16	1
2-Methylnaphthalene	ND		0.15	0.050	ug/L		05/02/23 12:33	05/04/23 18:16	1
2-Methylphenol	ND		0.81	0.24	ug/L		05/02/23 12:33	05/04/23 18:16	1
2-Nitroaniline	ND		4.0	0.44	ug/L		05/02/23 12:33	05/04/23 18:16	1
2-Nitrophenol	ND		0.81	0.16	ug/L		05/02/23 12:33	05/04/23 18:16	1
3,3'-Dichlorobenzidine	ND		0.81	0.47	ug/L		05/02/23 12:33	05/04/23 18:16	1
3-Nitroaniline	ND		4.0	0.35	ug/L		05/02/23 12:33	05/04/23 18:16	1
4,6-Dinitro-2-methylphenol	ND		4.0	1.2	ug/L		05/02/23 12:33	05/04/23 18:16	1
4-Bromophenyl phenyl ether	ND		0.81	0.26	ug/L		05/02/23 12:33	05/04/23 18:16	1
4-Chloro-3-methylphenol	ND		0.81	0.22	ug/L		05/02/23 12:33	05/04/23 18:16	1
4-Chloroaniline	ND		0.81	0.30	ug/L		05/02/23 12:33	05/04/23 18:16	1
4-Chlorophenyl phenyl ether	ND		0.81	0.18	ug/L		05/02/23 12:33	05/04/23 18:16	1
4-Nitroaniline	ND		4.0	0.29	ug/L		05/02/23 12:33	05/04/23 18:16	1
4-Nitrophenol	ND		4.0	0.76	ug/L		05/02/23 12:33	05/04/23 18:16	1
Acenaphthene	ND		0.15	0.052	ug/L		05/02/23 12:33	05/04/23 18:16	1
Acenaphthylene	ND		0.15	0.052	ug/L		05/02/23 12:33	05/04/23 18:16	1
Anthracene	ND		0.15	0.040	ug/L		05/02/23 12:33	05/04/23 18:16	1
Benzo[a]anthracene	ND		0.15	0.060	ug/L		05/02/23 12:33	05/04/23 18:16	1
Benzo[a]pyrene	ND		0.15	0.043	ug/L		05/02/23 12:33	05/04/23 18:16	1
Benzo[b]fluoranthene	ND		0.15	0.078	ug/L		05/02/23 12:33	05/04/23 18:16	1
Benzo[g,h,i]perylene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 18:16	1
Benzo[k]fluoranthene	ND		0.15	0.071	ug/L		05/02/23 12:33	05/04/23 18:16	1
<b>Benzoic acid</b>	<b>1.5</b>	<b>J</b>	4.0	0.74	ug/L		05/02/23 12:33	05/04/23 18:16	1
Benzyl alcohol	ND		0.81	0.13	ug/L		05/02/23 12:33	05/04/23 18:16	1
Bis(2-chloroethoxy)methane	ND		0.81	0.12	ug/L		05/02/23 12:33	05/04/23 18:16	1
Bis(2-chloroethyl)ether	ND		0.15	0.032	ug/L		05/02/23 12:33	05/04/23 18:16	1
Bis(2-ethylhexyl) phthalate	ND		8.1	5.0	ug/L		05/02/23 12:33	05/04/23 18:16	1
bis(chloroisopropyl) ether	ND		0.15	0.047	ug/L		05/02/23 12:33	05/04/23 18:16	1
<b>Butyl benzyl phthalate</b>	<b>0.53</b>	<b>J</b>	0.81	0.37	ug/L		05/02/23 12:33	05/04/23 18:16	1
Chrysene	ND		0.15	0.065	ug/L		05/02/23 12:33	05/04/23 18:16	1
Dibenz(a,h)anthracene	ND		0.15	0.058	ug/L		05/02/23 12:33	05/04/23 18:16	1
Dibenzofuran	ND		0.81	0.15	ug/L		05/02/23 12:33	05/04/23 18:16	1
Diethyl phthalate	ND		0.81	0.46	ug/L		05/02/23 12:33	05/04/23 18:16	1
Dimethyl phthalate	ND		0.81	0.16	ug/L		05/02/23 12:33	05/04/23 18:16	1
<b>Di-n-butyl phthalate</b>	<b>1.4</b>		0.81	0.60	ug/L		05/02/23 12:33	05/04/23 18:16	1
Di-n-octyl phthalate	ND		0.81	0.55	ug/L		05/02/23 12:33	05/04/23 18:16	1
Fluoranthene	ND		0.15	0.048	ug/L		05/02/23 12:33	05/04/23 18:16	1
Fluorene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 18:16	1
Hexachlorobenzene	ND		0.15	0.045	ug/L		05/02/23 12:33	05/04/23 18:16	1
Hexachlorobutadiene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 18:16	1
Hexachlorocyclopentadiene	ND		0.81	0.40	ug/L		05/02/23 12:33	05/04/23 18:16	1
Hexachloroethane	ND		0.81	0.11	ug/L		05/02/23 12:33	05/04/23 18:16	1
Indeno[1,2,3-cd]pyrene	ND		0.15	0.069	ug/L		05/02/23 12:33	05/04/23 18:16	1
Isophorone	ND		0.81	0.15	ug/L		05/02/23 12:33	05/04/23 18:16	1
Methylphenol, 3 & 4	ND		0.81	0.30	ug/L		05/02/23 12:33	05/04/23 18:16	1
Nitrobenzene	ND		1.6	0.40	ug/L		05/02/23 12:33	05/04/23 18:16	1
N-Nitrosodi-n-propylamine	ND		0.15	0.057	ug/L		05/02/23 12:33	05/04/23 18:16	1
N-Nitrosodiphenylamine	ND		0.81	0.096	ug/L		05/02/23 12:33	05/04/23 18:16	1
Phenanthrene	ND		0.15	0.044	ug/L		05/02/23 12:33	05/04/23 18:16	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-30C-042623**

**Lab Sample ID: 180-155743-4**

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.81	0.39	ug/L		05/02/23 12:33	05/04/23 18:16	1
Pyrene	ND		0.15	0.044	ug/L		05/02/23 12:33	05/04/23 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		23 - 128				05/02/23 12:33	05/04/23 18:16	1
2-Fluorobiphenyl	52		20 - 105				05/02/23 12:33	05/04/23 18:16	1
2-Fluorophenol (Surr)	61		20 - 105				05/02/23 12:33	05/04/23 18:16	1
Nitrobenzene-d5 (Surr)	58		20 - 107				05/02/23 12:33	05/04/23 18:16	1
Phenol-d5 (Surr)	60		20 - 106				05/02/23 12:33	05/04/23 18:16	1
Terphenyl-d14 (Surr)	54		22 - 120				05/02/23 12:33	05/04/23 18:16	1

**Client Sample ID: SUPE-W-18D-042623**

**Lab Sample ID: 180-155743-5**

Date Collected: 04/26/23 16:15

Matrix: Water

Date Received: 04/28/23 09:10

**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		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		24 - 146				05/02/23 09:25	05/04/23 17:55	1
2-Fluorobiphenyl	99		37 - 120				05/02/23 09:25	05/04/23 17:55	1
2-Fluorophenol (Surr)	49		10 - 120				05/02/23 09:25	05/04/23 17:55	1
Nitrobenzene-d5 (Surr)	79		26 - 120				05/02/23 09:25	05/04/23 17:55	1
Phenol-d5 (Surr)	33		11 - 120				05/02/23 09:25	05/04/23 17:55	1
p-Terphenyl-d14	97		64 - 127				05/02/23 09:25	05/04/23 17:55	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		0.83	0.11	ug/L		05/02/23 12:33	05/04/23 18:38	1
1,2-Dichlorobenzene	ND		0.83	0.079	ug/L		05/02/23 12:33	05/04/23 18:38	1
1,3-Dichlorobenzene	ND		0.83	0.083	ug/L		05/02/23 12:33	05/04/23 18:38	1
1,4-Dichlorobenzene	ND		0.83	0.051	ug/L		05/02/23 12:33	05/04/23 18:38	1
1-Methylnaphthalene	ND		0.16	0.047	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,3,4,6-Tetrachlorophenol	ND		0.83	0.27	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,3,5,6-Tetrachlorophenol	ND		0.83	0.42	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,4,5-Trichlorophenol	ND		0.83	0.21	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,4,6-Trichlorophenol	ND		0.83	0.19	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,4-Dichlorophenol	ND		0.16	0.043	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,4-Dimethylphenol	ND		0.83	0.14	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,4-Dinitrophenol	ND		8.3	1.3	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,4-Dinitrotoluene	ND		0.83	0.29	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,6-Dinitrotoluene	ND		0.83	0.14	ug/L		05/02/23 12:33	05/04/23 18:38	1
2-Chloronaphthalene	ND		0.16	0.049	ug/L		05/02/23 12:33	05/04/23 18:38	1
2-Chlorophenol	ND		0.83	0.11	ug/L		05/02/23 12:33	05/04/23 18:38	1
2-Methylnaphthalene	ND		0.16	0.052	ug/L		05/02/23 12:33	05/04/23 18:38	1
2-Methylphenol	ND		0.83	0.25	ug/L		05/02/23 12:33	05/04/23 18:38	1
2-Nitroaniline	ND		4.2	0.46	ug/L		05/02/23 12:33	05/04/23 18:38	1
2-Nitrophenol	ND		0.83	0.16	ug/L		05/02/23 12:33	05/04/23 18:38	1
3,3'-Dichlorobenzidine	ND		0.83	0.49	ug/L		05/02/23 12:33	05/04/23 18:38	1
3-Nitroaniline	ND		4.2	0.36	ug/L		05/02/23 12:33	05/04/23 18:38	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-18D-042623**

**Lab Sample ID: 180-155743-5**

Date Collected: 04/26/23 16:15

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		4.2	1.2	ug/L		05/02/23 12:33	05/04/23 18:38	1
4-Bromophenyl phenyl ether	ND		0.83	0.27	ug/L		05/02/23 12:33	05/04/23 18:38	1
4-Chloro-3-methylphenol	ND		0.83	0.23	ug/L		05/02/23 12:33	05/04/23 18:38	1
4-Chloroaniline	ND		0.83	0.31	ug/L		05/02/23 12:33	05/04/23 18:38	1
4-Chlorophenyl phenyl ether	ND		0.83	0.18	ug/L		05/02/23 12:33	05/04/23 18:38	1
4-Nitroaniline	ND		4.2	0.30	ug/L		05/02/23 12:33	05/04/23 18:38	1
4-Nitrophenol	ND		4.2	0.78	ug/L		05/02/23 12:33	05/04/23 18:38	1
Acenaphthene	ND		0.16	0.054	ug/L		05/02/23 12:33	05/04/23 18:38	1
Acenaphthylene	ND		0.16	0.054	ug/L		05/02/23 12:33	05/04/23 18:38	1
Anthracene	ND		0.16	0.041	ug/L		05/02/23 12:33	05/04/23 18:38	1
Benzo[a]anthracene	ND		0.16	0.063	ug/L		05/02/23 12:33	05/04/23 18:38	1
Benzo[a]pyrene	ND		0.16	0.044	ug/L		05/02/23 12:33	05/04/23 18:38	1
Benzo[b]fluoranthene	ND		0.16	0.081	ug/L		05/02/23 12:33	05/04/23 18:38	1
Benzo[g,h,i]perylene	ND		0.16	0.058	ug/L		05/02/23 12:33	05/04/23 18:38	1
Benzo[k]fluoranthene	ND		0.16	0.073	ug/L		05/02/23 12:33	05/04/23 18:38	1
Benzoic acid	ND		4.2	0.77	ug/L		05/02/23 12:33	05/04/23 18:38	1
Benzyl alcohol	ND		0.83	0.14	ug/L		05/02/23 12:33	05/04/23 18:38	1
Bis(2-chloroethoxy)methane	ND		0.83	0.13	ug/L		05/02/23 12:33	05/04/23 18:38	1
Bis(2-chloroethyl)ether	ND		0.16	0.033	ug/L		05/02/23 12:33	05/04/23 18:38	1
Bis(2-ethylhexyl) phthalate	ND		8.3	5.2	ug/L		05/02/23 12:33	05/04/23 18:38	1
bis(chloroisopropyl) ether	ND		0.16	0.048	ug/L		05/02/23 12:33	05/04/23 18:38	1
Butyl benzyl phthalate	ND		0.83	0.39	ug/L		05/02/23 12:33	05/04/23 18:38	1
Chrysene	ND		0.16	0.068	ug/L		05/02/23 12:33	05/04/23 18:38	1
Dibenz(a,h)anthracene	ND		0.16	0.060	ug/L		05/02/23 12:33	05/04/23 18:38	1
Dibenzofuran	ND		0.83	0.16	ug/L		05/02/23 12:33	05/04/23 18:38	1
Diethyl phthalate	ND		0.83	0.47	ug/L		05/02/23 12:33	05/04/23 18:38	1
Dimethyl phthalate	ND		0.83	0.17	ug/L		05/02/23 12:33	05/04/23 18:38	1
<b>Di-n-butyl phthalate</b>	<b>1.6</b>		0.83	0.62	ug/L		05/02/23 12:33	05/04/23 18:38	1
Di-n-octyl phthalate	ND		0.83	0.57	ug/L		05/02/23 12:33	05/04/23 18:38	1
Fluoranthene	ND		0.16	0.050	ug/L		05/02/23 12:33	05/04/23 18:38	1
Fluorene	ND		0.16	0.058	ug/L		05/02/23 12:33	05/04/23 18:38	1
Hexachlorobenzene	ND		0.16	0.047	ug/L		05/02/23 12:33	05/04/23 18:38	1
Hexachlorobutadiene	ND		0.16	0.058	ug/L		05/02/23 12:33	05/04/23 18:38	1
Hexachlorocyclopentadiene	ND		0.83	0.41	ug/L		05/02/23 12:33	05/04/23 18:38	1
Hexachloroethane	ND		0.83	0.11	ug/L		05/02/23 12:33	05/04/23 18:38	1
Indeno[1,2,3-cd]pyrene	ND		0.16	0.071	ug/L		05/02/23 12:33	05/04/23 18:38	1
Isophorone	ND		0.83	0.16	ug/L		05/02/23 12:33	05/04/23 18:38	1
Methylphenol, 3 & 4	ND		0.83	0.31	ug/L		05/02/23 12:33	05/04/23 18:38	1
Naphthalene	ND		0.16	0.049	ug/L		05/02/23 12:33	05/04/23 18:38	1
Nitrobenzene	ND		1.7	0.42	ug/L		05/02/23 12:33	05/04/23 18:38	1
N-Nitrosodi-n-propylamine	ND		0.16	0.059	ug/L		05/02/23 12:33	05/04/23 18:38	1
N-Nitrosodiphenylamine	ND		0.83	0.099	ug/L		05/02/23 12:33	05/04/23 18:38	1
Phenanthrene	ND		0.16	0.046	ug/L		05/02/23 12:33	05/04/23 18:38	1
Phenol	ND		0.83	0.41	ug/L		05/02/23 12:33	05/04/23 18:38	1
Pyrene	ND		0.16	0.045	ug/L		05/02/23 12:33	05/04/23 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		23 - 128				05/02/23 12:33	05/04/23 18:38	1
2-Fluorobiphenyl	103		20 - 105				05/02/23 12:33	05/04/23 18:38	1
2-Fluorophenol (Surr)	91		20 - 105				05/02/23 12:33	05/04/23 18:38	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-18D-042623**

**Lab Sample ID: 180-155743-5**

Date Collected: 04/26/23 16:15

Matrix: Water

Date Received: 04/28/23 09:10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	81		20 - 107	05/02/23 12:33	05/04/23 18:38	1
Phenol-d5 (Surr)	88		20 - 106	05/02/23 12:33	05/04/23 18:38	1
Terphenyl-d14 (Surr)	112		22 - 120	05/02/23 12:33	05/04/23 18:38	1

**Client Sample ID: SUPE-W-06A-042623**

**Lab Sample ID: 180-155743-6**

Date Collected: 04/26/23 11:25

Matrix: Water

Date Received: 04/28/23 09:10

**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			05/01/23 15:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 15:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 15:31	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 15:31	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 15:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 15:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 15:31	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 15:31	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 15:31	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 15:31	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 15:31	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 15:31	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 15:31	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 15:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		05/01/23 15:31	1
4-Bromofluorobenzene (Surr)	94		73 - 120		05/01/23 15:31	1
Dibromofluoromethane (Surr)	101		75 - 123		05/01/23 15:31	1
Toluene-d8 (Surr)	100		80 - 120		05/01/23 15:31	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		05/02/23 09:25	05/04/23 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		24 - 146	05/02/23 09:25	05/04/23 18:23	1
2-Fluorobiphenyl	99		37 - 120	05/02/23 09:25	05/04/23 18:23	1
2-Fluorophenol (Surr)	49		10 - 120	05/02/23 09:25	05/04/23 18:23	1
Nitrobenzene-d5 (Surr)	79		26 - 120	05/02/23 09:25	05/04/23 18:23	1
Phenol-d5 (Surr)	34		11 - 120	05/02/23 09:25	05/04/23 18:23	1
p-Terphenyl-d14	104		64 - 127	05/02/23 09:25	05/04/23 18:23	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		0.93	0.12	ug/L		05/02/23 12:33	05/04/23 19:00	1
1,2-Dichlorobenzene	ND		0.93	0.088	ug/L		05/02/23 12:33	05/04/23 19:00	1
1,3-Dichlorobenzene	ND		0.93	0.092	ug/L		05/02/23 12:33	05/04/23 19:00	1
1,4-Dichlorobenzene	ND		0.93	0.056	ug/L		05/02/23 12:33	05/04/23 19:00	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-06A-042623**

**Lab Sample ID: 180-155743-6**

Date Collected: 04/26/23 11:25

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.18	0.052	ug/L		05/02/23 12:33	05/04/23 19:00	1
2,3,4,6-Tetrachlorophenol	ND		0.93	0.30	ug/L		05/02/23 12:33	05/04/23 19:00	1
2,3,5,6-Tetrachlorophenol	ND		0.93	0.47	ug/L		05/02/23 12:33	05/04/23 19:00	1
2,4,5-Trichlorophenol	ND		0.93	0.23	ug/L		05/02/23 12:33	05/04/23 19:00	1
2,4,6-Trichlorophenol	ND		0.93	0.21	ug/L		05/02/23 12:33	05/04/23 19:00	1
2,4-Dichlorophenol	ND		0.18	0.047	ug/L		05/02/23 12:33	05/04/23 19:00	1
2,4-Dimethylphenol	ND		0.93	0.15	ug/L		05/02/23 12:33	05/04/23 19:00	1
2,4-Dinitrophenol	ND		9.3	1.4	ug/L		05/02/23 12:33	05/04/23 19:00	1
2,4-Dinitrotoluene	ND		0.93	0.33	ug/L		05/02/23 12:33	05/04/23 19:00	1
2,6-Dinitrotoluene	ND		0.93	0.16	ug/L		05/02/23 12:33	05/04/23 19:00	1
2-Chloronaphthalene	ND		0.18	0.055	ug/L		05/02/23 12:33	05/04/23 19:00	1
2-Chlorophenol	ND		0.93	0.12	ug/L		05/02/23 12:33	05/04/23 19:00	1
2-Methylnaphthalene	ND		0.18	0.057	ug/L		05/02/23 12:33	05/04/23 19:00	1
2-Methylphenol	ND		0.93	0.28	ug/L		05/02/23 12:33	05/04/23 19:00	1
2-Nitroaniline	ND		4.6	0.51	ug/L		05/02/23 12:33	05/04/23 19:00	1
2-Nitrophenol	ND		0.93	0.18	ug/L		05/02/23 12:33	05/04/23 19:00	1
3,3'-Dichlorobenzidine	ND		0.93	0.54	ug/L		05/02/23 12:33	05/04/23 19:00	1
3-Nitroaniline	ND		4.6	0.40	ug/L		05/02/23 12:33	05/04/23 19:00	1
4,6-Dinitro-2-methylphenol	ND		4.6	1.4	ug/L		05/02/23 12:33	05/04/23 19:00	1
4-Bromophenyl phenyl ether	ND		0.93	0.30	ug/L		05/02/23 12:33	05/04/23 19:00	1
4-Chloro-3-methylphenol	ND		0.93	0.26	ug/L		05/02/23 12:33	05/04/23 19:00	1
4-Chloroaniline	ND		0.93	0.35	ug/L		05/02/23 12:33	05/04/23 19:00	1
4-Chlorophenyl phenyl ether	ND		0.93	0.20	ug/L		05/02/23 12:33	05/04/23 19:00	1
4-Nitroaniline	ND		4.6	0.34	ug/L		05/02/23 12:33	05/04/23 19:00	1
4-Nitrophenol	ND		4.6	0.87	ug/L		05/02/23 12:33	05/04/23 19:00	1
Acenaphthene	ND		0.18	0.060	ug/L		05/02/23 12:33	05/04/23 19:00	1
Acenaphthylene	ND		0.18	0.060	ug/L		05/02/23 12:33	05/04/23 19:00	1
Anthracene	ND		0.18	0.045	ug/L		05/02/23 12:33	05/04/23 19:00	1
Benzo[a]anthracene	ND		0.18	0.069	ug/L		05/02/23 12:33	05/04/23 19:00	1
Benzo[a]pyrene	ND		0.18	0.049	ug/L		05/02/23 12:33	05/04/23 19:00	1
Benzo[b]fluoranthene	ND		0.18	0.090	ug/L		05/02/23 12:33	05/04/23 19:00	1
Benzo[g,h,i]perylene	ND		0.18	0.064	ug/L		05/02/23 12:33	05/04/23 19:00	1
Benzo[k]fluoranthene	ND		0.18	0.081	ug/L		05/02/23 12:33	05/04/23 19:00	1
<b>Benzoic acid</b>	<b>1.8</b>	<b>J</b>	4.6	0.85	ug/L		05/02/23 12:33	05/04/23 19:00	1
Benzyl alcohol	ND		0.93	0.15	ug/L		05/02/23 12:33	05/04/23 19:00	1
Bis(2-chloroethoxy)methane	ND		0.93	0.14	ug/L		05/02/23 12:33	05/04/23 19:00	1
Bis(2-chloroethyl)ether	ND		0.18	0.037	ug/L		05/02/23 12:33	05/04/23 19:00	1
Bis(2-ethylhexyl) phthalate	ND		9.3	5.8	ug/L		05/02/23 12:33	05/04/23 19:00	1
bis(chloroisopropyl) ether	ND		0.18	0.054	ug/L		05/02/23 12:33	05/04/23 19:00	1
<b>Butyl benzyl phthalate</b>	<b>0.65</b>	<b>J</b>	0.93	0.43	ug/L		05/02/23 12:33	05/04/23 19:00	1
Chrysene	ND		0.18	0.075	ug/L		05/02/23 12:33	05/04/23 19:00	1
Dibenz(a,h)anthracene	ND		0.18	0.067	ug/L		05/02/23 12:33	05/04/23 19:00	1
Dibenzofuran	ND		0.93	0.18	ug/L		05/02/23 12:33	05/04/23 19:00	1
Diethyl phthalate	ND		0.93	0.53	ug/L		05/02/23 12:33	05/04/23 19:00	1
Dimethyl phthalate	ND		0.93	0.19	ug/L		05/02/23 12:33	05/04/23 19:00	1
<b>Di-n-butyl phthalate</b>	<b>1.7</b>		0.93	0.69	ug/L		05/02/23 12:33	05/04/23 19:00	1
Di-n-octyl phthalate	ND		0.93	0.63	ug/L		05/02/23 12:33	05/04/23 19:00	1
<b>Fluoranthene</b>	<b>0.16</b>	<b>J</b>	0.18	0.056	ug/L		05/02/23 12:33	05/04/23 19:00	1
Fluorene	ND		0.18	0.064	ug/L		05/02/23 12:33	05/04/23 19:00	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-06A-042623**

**Lab Sample ID: 180-155743-6**

Date Collected: 04/26/23 11:25

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		0.18	0.052	ug/L		05/02/23 12:33	05/04/23 19:00	1
Hexachlorobutadiene	ND		0.18	0.064	ug/L		05/02/23 12:33	05/04/23 19:00	1
Hexachlorocyclopentadiene	ND		0.93	0.46	ug/L		05/02/23 12:33	05/04/23 19:00	1
Hexachloroethane	ND		0.93	0.12	ug/L		05/02/23 12:33	05/04/23 19:00	1
Indeno[1,2,3-cd]pyrene	ND		0.18	0.079	ug/L		05/02/23 12:33	05/04/23 19:00	1
Isophorone	ND		0.93	0.17	ug/L		05/02/23 12:33	05/04/23 19:00	1
Methylphenol, 3 & 4	ND		0.93	0.34	ug/L		05/02/23 12:33	05/04/23 19:00	1
Nitrobenzene	ND		1.9	0.46	ug/L		05/02/23 12:33	05/04/23 19:00	1
N-Nitrosodi-n-propylamine	ND		0.18	0.066	ug/L		05/02/23 12:33	05/04/23 19:00	1
N-Nitrosodiphenylamine	ND		0.93	0.11	ug/L		05/02/23 12:33	05/04/23 19:00	1
<b>Phenanthrene</b>	<b>0.22</b>		0.18	0.051	ug/L		05/02/23 12:33	05/04/23 19:00	1
Phenol	ND		0.93	0.45	ug/L		05/02/23 12:33	05/04/23 19:00	1
<b>Pyrene</b>	<b>0.084 J</b>		0.18	0.050	ug/L		05/02/23 12:33	05/04/23 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		23 - 128				05/02/23 12:33	05/04/23 19:00	1
2-Fluorobiphenyl	61		20 - 105				05/02/23 12:33	05/04/23 19:00	1
2-Fluorophenol (Surr)	68		20 - 105				05/02/23 12:33	05/04/23 19:00	1
Nitrobenzene-d5 (Surr)	71		20 - 107				05/02/23 12:33	05/04/23 19:00	1
Phenol-d5 (Surr)	72		20 - 106				05/02/23 12:33	05/04/23 19:00	1
Terphenyl-d14 (Surr)	68		22 - 120				05/02/23 12:33	05/04/23 19:00	1

**Client Sample ID: SUPE-W-12CR-042623**

**Lab Sample ID: 180-155743-7**

Date Collected: 04/26/23 15:15

Matrix: Water

Date Received: 04/28/23 09:10

**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			05/01/23 15:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 15:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 15:54	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 15:54	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 15:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 15:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 15:54	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 15:54	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 15:54	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 15:54	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 15:54	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 15:54	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 15:54	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 15:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					05/01/23 15:54	1
4-Bromofluorobenzene (Surr)	96		73 - 120					05/01/23 15:54	1
Dibromofluoromethane (Surr)	101		75 - 123					05/01/23 15:54	1
Toluene-d8 (Surr)	99		80 - 120					05/01/23 15:54	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-12CR-042623**

**Lab Sample ID: 180-155743-7**

Date Collected: 04/26/23 15:15

Matrix: Water

Date Received: 04/28/23 09:10

**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		05/02/23 09:25	05/04/23 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		24 - 146				05/02/23 09:25	05/04/23 18:51	1
2-Fluorobiphenyl	96		37 - 120				05/02/23 09:25	05/04/23 18:51	1
2-Fluorophenol (Surr)	51		10 - 120				05/02/23 09:25	05/04/23 18:51	1
Nitrobenzene-d5 (Surr)	78		26 - 120				05/02/23 09:25	05/04/23 18:51	1
Phenol-d5 (Surr)	35		11 - 120				05/02/23 09:25	05/04/23 18:51	1
p-Terphenyl-d14	101		64 - 127				05/02/23 09:25	05/04/23 18:51	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		0.86	0.11	ug/L		05/02/23 12:33	05/04/23 19:22	1
1,2-Dichlorobenzene	ND		0.86	0.082	ug/L		05/02/23 12:33	05/04/23 19:22	1
1,3-Dichlorobenzene	ND		0.86	0.085	ug/L		05/02/23 12:33	05/04/23 19:22	1
1,4-Dichlorobenzene	ND		0.86	0.053	ug/L		05/02/23 12:33	05/04/23 19:22	1
1-Methylnaphthalene	ND		0.16	0.048	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,3,4,6-Tetrachlorophenol	ND		0.86	0.28	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,3,5,6-Tetrachlorophenol	ND		0.86	0.44	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,4,5-Trichlorophenol	ND		0.86	0.22	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,4,6-Trichlorophenol	ND		0.86	0.19	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,4-Dichlorophenol	ND		0.16	0.044	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,4-Dimethylphenol	ND		0.86	0.14	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,4-Dinitrophenol	ND		8.6	1.3	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,4-Dinitrotoluene	ND		0.86	0.30	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,6-Dinitrotoluene	ND		0.86	0.15	ug/L		05/02/23 12:33	05/04/23 19:22	1
2-Chloronaphthalene	ND		0.16	0.051	ug/L		05/02/23 12:33	05/04/23 19:22	1
2-Chlorophenol	ND		0.86	0.11	ug/L		05/02/23 12:33	05/04/23 19:22	1
2-Methylnaphthalene	ND		0.16	0.053	ug/L		05/02/23 12:33	05/04/23 19:22	1
2-Methylphenol	ND		0.86	0.26	ug/L		05/02/23 12:33	05/04/23 19:22	1
2-Nitroaniline	ND		4.3	0.47	ug/L		05/02/23 12:33	05/04/23 19:22	1
2-Nitrophenol	ND		0.86	0.17	ug/L		05/02/23 12:33	05/04/23 19:22	1
3,3'-Dichlorobenzidine	ND		0.86	0.50	ug/L		05/02/23 12:33	05/04/23 19:22	1
3-Nitroaniline	ND		4.3	0.38	ug/L		05/02/23 12:33	05/04/23 19:22	1
4,6-Dinitro-2-methylphenol	ND		4.3	1.3	ug/L		05/02/23 12:33	05/04/23 19:22	1
4-Bromophenyl phenyl ether	ND		0.86	0.28	ug/L		05/02/23 12:33	05/04/23 19:22	1
4-Chloro-3-methylphenol	ND		0.86	0.24	ug/L		05/02/23 12:33	05/04/23 19:22	1
4-Chloroaniline	ND		0.86	0.32	ug/L		05/02/23 12:33	05/04/23 19:22	1
4-Chlorophenyl phenyl ether	ND		0.86	0.19	ug/L		05/02/23 12:33	05/04/23 19:22	1
4-Nitroaniline	ND		4.3	0.31	ug/L		05/02/23 12:33	05/04/23 19:22	1
4-Nitrophenol	ND		4.3	0.81	ug/L		05/02/23 12:33	05/04/23 19:22	1
Acenaphthene	ND		0.16	0.056	ug/L		05/02/23 12:33	05/04/23 19:22	1
Acenaphthylene	ND		0.16	0.056	ug/L		05/02/23 12:33	05/04/23 19:22	1
Anthracene	ND		0.16	0.042	ug/L		05/02/23 12:33	05/04/23 19:22	1
Benzo[a]anthracene	ND		0.16	0.065	ug/L		05/02/23 12:33	05/04/23 19:22	1
Benzo[a]pyrene	ND		0.16	0.046	ug/L		05/02/23 12:33	05/04/23 19:22	1
Benzo[b]fluoranthene	ND		0.16	0.084	ug/L		05/02/23 12:33	05/04/23 19:22	1
Benzo[g,h,i]perylene	ND		0.16	0.059	ug/L		05/02/23 12:33	05/04/23 19:22	1
Benzo[k]fluoranthene	ND		0.16	0.076	ug/L		05/02/23 12:33	05/04/23 19:22	1
<b>Benzoic acid</b>	<b>2.7</b>	<b>J</b>	4.3	0.80	ug/L		05/02/23 12:33	05/04/23 19:22	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-W-12CR-042623**

**Lab Sample ID: 180-155743-7**

Date Collected: 04/26/23 15:15

Matrix: Water

Date Received: 04/28/23 09:10

**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		0.86	0.14	ug/L		05/02/23 12:33	05/04/23 19:22	1
Bis(2-chloroethoxy)methane	ND		0.86	0.13	ug/L		05/02/23 12:33	05/04/23 19:22	1
Bis(2-chloroethyl)ether	ND		0.16	0.034	ug/L		05/02/23 12:33	05/04/23 19:22	1
Bis(2-ethylhexyl) phthalate	ND		8.6	5.4	ug/L		05/02/23 12:33	05/04/23 19:22	1
bis(chloroisopropyl) ether	ND		0.16	0.050	ug/L		05/02/23 12:33	05/04/23 19:22	1
<b>Butyl benzyl phthalate</b>	<b>0.57</b>	<b>J</b>	0.86	0.40	ug/L		05/02/23 12:33	05/04/23 19:22	1
Chrysene	ND		0.16	0.070	ug/L		05/02/23 12:33	05/04/23 19:22	1
Dibenz(a,h)anthracene	ND		0.16	0.062	ug/L		05/02/23 12:33	05/04/23 19:22	1
Dibenzofuran	ND		0.86	0.16	ug/L		05/02/23 12:33	05/04/23 19:22	1
Diethyl phthalate	ND		0.86	0.49	ug/L		05/02/23 12:33	05/04/23 19:22	1
Dimethyl phthalate	ND		0.86	0.17	ug/L		05/02/23 12:33	05/04/23 19:22	1
<b>Di-n-butyl phthalate</b>	<b>1.2</b>		0.86	0.64	ug/L		05/02/23 12:33	05/04/23 19:22	1
Di-n-octyl phthalate	ND		0.86	0.59	ug/L		05/02/23 12:33	05/04/23 19:22	1
<b>Fluoranthene</b>	<b>0.053</b>	<b>J</b>	0.16	0.052	ug/L		05/02/23 12:33	05/04/23 19:22	1
Fluorene	ND		0.16	0.059	ug/L		05/02/23 12:33	05/04/23 19:22	1
Hexachlorobenzene	ND		0.16	0.048	ug/L		05/02/23 12:33	05/04/23 19:22	1
Hexachlorobutadiene	ND		0.16	0.059	ug/L		05/02/23 12:33	05/04/23 19:22	1
Hexachlorocyclopentadiene	ND		0.86	0.43	ug/L		05/02/23 12:33	05/04/23 19:22	1
Hexachloroethane	ND		0.86	0.11	ug/L		05/02/23 12:33	05/04/23 19:22	1
Indeno[1,2,3-cd]pyrene	ND		0.16	0.073	ug/L		05/02/23 12:33	05/04/23 19:22	1
Isophorone	ND		0.86	0.16	ug/L		05/02/23 12:33	05/04/23 19:22	1
Methylphenol, 3 & 4	ND		0.86	0.32	ug/L		05/02/23 12:33	05/04/23 19:22	1
Nitrobenzene	ND		1.7	0.43	ug/L		05/02/23 12:33	05/04/23 19:22	1
N-Nitrosodi-n-propylamine	ND		0.16	0.061	ug/L		05/02/23 12:33	05/04/23 19:22	1
N-Nitrosodiphenylamine	ND		0.86	0.10	ug/L		05/02/23 12:33	05/04/23 19:22	1
<b>Phenanthrene</b>	<b>0.071</b>	<b>J</b>	0.16	0.047	ug/L		05/02/23 12:33	05/04/23 19:22	1
Phenol	ND		0.86	0.42	ug/L		05/02/23 12:33	05/04/23 19:22	1
Pyrene	ND		0.16	0.047	ug/L		05/02/23 12:33	05/04/23 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	52		23 - 128	05/02/23 12:33	05/04/23 19:22	1
2-Fluorobiphenyl	42		20 - 105	05/02/23 12:33	05/04/23 19:22	1
2-Fluorophenol (Surr)	56		20 - 105	05/02/23 12:33	05/04/23 19:22	1
Nitrobenzene-d5 (Surr)	54		20 - 107	05/02/23 12:33	05/04/23 19:22	1
Phenol-d5 (Surr)	58		20 - 106	05/02/23 12:33	05/04/23 19:22	1
Terphenyl-d14 (Surr)	48		22 - 120	05/02/23 12:33	05/04/23 19:22	1

**Client Sample ID: SUPE-EB-01-042623**

**Lab Sample ID: 180-155743-8**

Date Collected: 04/26/23 15:40

Matrix: Water

Date Received: 04/28/23 09:10

**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			05/01/23 16:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 16:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 16:16	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 16:16	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 16:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 16:16	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 16:16	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-EB-01-042623**

**Lab Sample ID: 180-155743-8**

**Date Collected: 04/26/23 15:40**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 16:16	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 16:16	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 16:16	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 16:16	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 16:16	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 16:16	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 16:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		05/01/23 16:16	1
4-Bromofluorobenzene (Surr)	97		73 - 120		05/01/23 16:16	1
Dibromofluoromethane (Surr)	104		75 - 123		05/01/23 16:16	1
Toluene-d8 (Surr)	101		80 - 120		05/01/23 16:16	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		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		24 - 146	05/02/23 09:25	05/04/23 19:19	1
2-Fluorobiphenyl	111		37 - 120	05/02/23 09:25	05/04/23 19:19	1
2-Fluorophenol (Surr)	57		10 - 120	05/02/23 09:25	05/04/23 19:19	1
Nitrobenzene-d5 (Surr)	91		26 - 120	05/02/23 09:25	05/04/23 19:19	1
Phenol-d5 (Surr)	38		11 - 120	05/02/23 09:25	05/04/23 19:19	1
p-Terphenyl-d14	120		64 - 127	05/02/23 09:25	05/04/23 19:19	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		0.81	0.11	ug/L		05/02/23 12:33	05/04/23 19:43	1
1,2-Dichlorobenzene	ND		0.81	0.077	ug/L		05/02/23 12:33	05/04/23 19:43	1
1,3-Dichlorobenzene	ND		0.81	0.080	ug/L		05/02/23 12:33	05/04/23 19:43	1
1,4-Dichlorobenzene	ND		0.81	0.049	ug/L		05/02/23 12:33	05/04/23 19:43	1
1-Methylnaphthalene	ND		0.15	0.045	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,3,4,6-Tetrachlorophenol	ND		0.81	0.26	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,3,5,6-Tetrachlorophenol	ND		0.81	0.41	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,4,5-Trichlorophenol	ND		0.81	0.20	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,4,6-Trichlorophenol	ND		0.81	0.18	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,4-Dichlorophenol	ND		0.15	0.041	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,4-Dimethylphenol	ND		0.81	0.13	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,4-Dinitrophenol	ND		8.1	1.2	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,4-Dinitrotoluene	ND		0.81	0.28	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,6-Dinitrotoluene	ND		0.81	0.14	ug/L		05/02/23 12:33	05/04/23 19:43	1
2-Chloronaphthalene	ND		0.15	0.048	ug/L		05/02/23 12:33	05/04/23 19:43	1
2-Chlorophenol	ND		0.81	0.10	ug/L		05/02/23 12:33	05/04/23 19:43	1
2-Methylnaphthalene	ND		0.15	0.050	ug/L		05/02/23 12:33	05/04/23 19:43	1
2-Methylphenol	ND		0.81	0.24	ug/L		05/02/23 12:33	05/04/23 19:43	1
2-Nitroaniline	ND		4.0	0.44	ug/L		05/02/23 12:33	05/04/23 19:43	1
2-Nitrophenol	ND		0.81	0.16	ug/L		05/02/23 12:33	05/04/23 19:43	1
3,3'-Dichlorobenzidine	ND		0.81	0.47	ug/L		05/02/23 12:33	05/04/23 19:43	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-EB-01-042623**

**Lab Sample ID: 180-155743-8**

Date Collected: 04/26/23 15:40

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		4.0	0.35	ug/L		05/02/23 12:33	05/04/23 19:43	1
4,6-Dinitro-2-methylphenol	ND		4.0	1.2	ug/L		05/02/23 12:33	05/04/23 19:43	1
4-Bromophenyl phenyl ether	ND		0.81	0.26	ug/L		05/02/23 12:33	05/04/23 19:43	1
4-Chloro-3-methylphenol	ND		0.81	0.22	ug/L		05/02/23 12:33	05/04/23 19:43	1
4-Chloroaniline	ND		0.81	0.30	ug/L		05/02/23 12:33	05/04/23 19:43	1
4-Chlorophenyl phenyl ether	ND		0.81	0.18	ug/L		05/02/23 12:33	05/04/23 19:43	1
4-Nitroaniline	ND		4.0	0.29	ug/L		05/02/23 12:33	05/04/23 19:43	1
4-Nitrophenol	ND		4.0	0.76	ug/L		05/02/23 12:33	05/04/23 19:43	1
Acenaphthene	ND		0.15	0.052	ug/L		05/02/23 12:33	05/04/23 19:43	1
Acenaphthylene	ND		0.15	0.052	ug/L		05/02/23 12:33	05/04/23 19:43	1
Anthracene	ND		0.15	0.040	ug/L		05/02/23 12:33	05/04/23 19:43	1
Benzo[a]anthracene	ND		0.15	0.060	ug/L		05/02/23 12:33	05/04/23 19:43	1
Benzo[a]pyrene	ND		0.15	0.043	ug/L		05/02/23 12:33	05/04/23 19:43	1
Benzo[b]fluoranthene	ND		0.15	0.078	ug/L		05/02/23 12:33	05/04/23 19:43	1
Benzo[g,h,i]perylene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 19:43	1
Benzo[k]fluoranthene	ND		0.15	0.071	ug/L		05/02/23 12:33	05/04/23 19:43	1
<b>Benzoic acid</b>	<b>11</b>		4.0	0.74	ug/L		05/02/23 12:33	05/04/23 19:43	1
<b>Benzyl alcohol</b>	<b>0.58</b>	<b>J</b>	0.81	0.13	ug/L		05/02/23 12:33	05/04/23 19:43	1
Bis(2-chloroethoxy)methane	ND		0.81	0.12	ug/L		05/02/23 12:33	05/04/23 19:43	1
Bis(2-chloroethyl)ether	ND		0.15	0.032	ug/L		05/02/23 12:33	05/04/23 19:43	1
Bis(2-ethylhexyl) phthalate	ND		8.1	5.0	ug/L		05/02/23 12:33	05/04/23 19:43	1
bis(chloroisopropyl) ether	ND		0.15	0.047	ug/L		05/02/23 12:33	05/04/23 19:43	1
<b>Butyl benzyl phthalate</b>	<b>0.62</b>	<b>J</b>	0.81	0.37	ug/L		05/02/23 12:33	05/04/23 19:43	1
Chrysene	ND		0.15	0.065	ug/L		05/02/23 12:33	05/04/23 19:43	1
Dibenz(a,h)anthracene	ND		0.15	0.058	ug/L		05/02/23 12:33	05/04/23 19:43	1
Dibenzofuran	ND		0.81	0.15	ug/L		05/02/23 12:33	05/04/23 19:43	1
Diethyl phthalate	ND		0.81	0.46	ug/L		05/02/23 12:33	05/04/23 19:43	1
Dimethyl phthalate	ND		0.81	0.16	ug/L		05/02/23 12:33	05/04/23 19:43	1
<b>Di-n-butyl phthalate</b>	<b>1.9</b>		0.81	0.60	ug/L		05/02/23 12:33	05/04/23 19:43	1
Di-n-octyl phthalate	ND		0.81	0.55	ug/L		05/02/23 12:33	05/04/23 19:43	1
Fluoranthene	ND		0.15	0.048	ug/L		05/02/23 12:33	05/04/23 19:43	1
Fluorene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 19:43	1
Hexachlorobenzene	ND		0.15	0.045	ug/L		05/02/23 12:33	05/04/23 19:43	1
Hexachlorobutadiene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 19:43	1
Hexachlorocyclopentadiene	ND		0.81	0.40	ug/L		05/02/23 12:33	05/04/23 19:43	1
Hexachloroethane	ND		0.81	0.11	ug/L		05/02/23 12:33	05/04/23 19:43	1
Indeno[1,2,3-cd]pyrene	ND		0.15	0.069	ug/L		05/02/23 12:33	05/04/23 19:43	1
Isophorone	ND		0.81	0.15	ug/L		05/02/23 12:33	05/04/23 19:43	1
Methylphenol, 3 & 4	ND		0.81	0.30	ug/L		05/02/23 12:33	05/04/23 19:43	1
Nitrobenzene	ND		1.6	0.40	ug/L		05/02/23 12:33	05/04/23 19:43	1
N-Nitrosodi-n-propylamine	ND		0.15	0.057	ug/L		05/02/23 12:33	05/04/23 19:43	1
N-Nitrosodiphenylamine	ND		0.81	0.096	ug/L		05/02/23 12:33	05/04/23 19:43	1
<b>Phenanthrene</b>	<b>0.074</b>	<b>J</b>	0.15	0.044	ug/L		05/02/23 12:33	05/04/23 19:43	1
Phenol	ND		0.81	0.39	ug/L		05/02/23 12:33	05/04/23 19:43	1
Pyrene	ND		0.15	0.044	ug/L		05/02/23 12:33	05/04/23 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		23 - 128				05/02/23 12:33	05/04/23 19:43	1
2-Fluorobiphenyl	48		20 - 105				05/02/23 12:33	05/04/23 19:43	1
2-Fluorophenol (Surr)	57		20 - 105				05/02/23 12:33	05/04/23 19:43	1

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# Client Sample Results

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

Job ID: 180-155743-1

**Client Sample ID: SUPE-EB-01-042623**

**Lab Sample ID: 180-155743-8**

**Date Collected: 04/26/23 15:40**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

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

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Nitrobenzene-d5 (Surr)	56		20 - 107	05/02/23 12:33	05/04/23 19:43	1
Phenol-d5 (Surr)	56		20 - 106	05/02/23 12:33	05/04/23 19:43	1
Terphenyl-d14 (Surr)	54		22 - 120	05/02/23 12:33	05/04/23 19:43	1



# QC Sample Results

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

Job ID: 180-155743-1

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

**Lab Sample ID: MB 480-667627/8**  
**Matrix: Water**  
**Analysis Batch: 667627**

**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			05/01/23 13:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 13:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 13:40	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 13:40	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 13:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 13:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 13:40	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 13:40	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 13:40	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 13:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 13:40	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 13:40	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 13:40	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 13:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 13:40	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		05/01/23 13:40	1
4-Bromofluorobenzene (Surr)	97		73 - 120		05/01/23 13:40	1
Dibromofluoromethane (Surr)	102		75 - 123		05/01/23 13:40	1
Toluene-d8 (Surr)	99		80 - 120		05/01/23 13:40	1

**Lab Sample ID: LCS 480-667627/6**  
**Matrix: Water**  
**Analysis Batch: 667627**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	25.0	21.7		ug/L		87	76 - 121
1,3,5-Trimethylbenzene	25.0	21.7		ug/L		87	77 - 121
Benzene	25.0	21.9		ug/L		88	71 - 124
Chloromethane	25.0	19.3		ug/L		77	68 - 124
Ethylbenzene	25.0	21.5		ug/L		86	77 - 123
Methyl tert-butyl ether	25.0	20.6		ug/L		83	77 - 120
m-Xylene & p-Xylene	25.0	22.3		ug/L		89	76 - 122
Naphthalene	25.0	21.7		ug/L		87	66 - 125
n-Butylbenzene	25.0	22.8		ug/L		91	71 - 128
N-Propylbenzene	25.0	21.8		ug/L		87	75 - 127
o-Xylene	25.0	22.5		ug/L		90	76 - 122
Styrene	25.0	22.1		ug/L		88	80 - 120
Toluene	25.0	21.6		ug/L		86	80 - 122
Xylenes, Total	50.0	44.8		ug/L		90	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	98		80 - 120

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# QC Sample Results

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

Job ID: 180-155743-1

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

**Lab Sample ID: MB 480-667743/1-A**  
**Matrix: Water**  
**Analysis Batch: 668191**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 667743**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/23 09:25	05/04/23 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	53		24 - 146				05/02/23 09:25	05/04/23 14:13	1
2-Fluorobiphenyl	104		37 - 120				05/02/23 09:25	05/04/23 14:13	1
2-Fluorophenol (Surr)	51		10 - 120				05/02/23 09:25	05/04/23 14:13	1
Nitrobenzene-d5 (Surr)	87		26 - 120				05/02/23 09:25	05/04/23 14:13	1
Phenol-d5 (Surr)	38		11 - 120				05/02/23 09:25	05/04/23 14:13	1
p-Terphenyl-d14	111		64 - 127				05/02/23 09:25	05/04/23 14:13	1

**Lab Sample ID: LCS 480-667743/2-A**  
**Matrix: Water**  
**Analysis Batch: 668191**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 667743**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Pentachlorophenol	16.0	13.8		ug/L		86	10 - 131
Surrogate	%Recovery	Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	99		24 - 146				
2-Fluorobiphenyl	93		37 - 120				
2-Fluorophenol (Surr)	53		10 - 120				
Nitrobenzene-d5 (Surr)	82		26 - 120				
Phenol-d5 (Surr)	37		11 - 120				
p-Terphenyl-d14	99		64 - 127				

**Lab Sample ID: 180-155743-1 MS**  
**Matrix: Water**  
**Analysis Batch: 668191**

**Client Sample ID: SUPE-W-99A-042623**  
**Prep Type: Total/NA**  
**Prep Batch: 667743**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Pentachlorophenol	ND		15.2	13.8		ug/L		90	23 - 149
Surrogate	%Recovery	Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	100		24 - 146						
2-Fluorobiphenyl	96		37 - 120						
2-Fluorophenol (Surr)	51		10 - 120						
Nitrobenzene-d5 (Surr)	83		26 - 120						
Phenol-d5 (Surr)	35		11 - 120						
p-Terphenyl-d14	86		64 - 127						

**Lab Sample ID: 180-155743-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 668191**

**Client Sample ID: SUPE-W-99A-042623**  
**Prep Type: Total/NA**  
**Prep Batch: 667743**

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Pentachlorophenol	ND		15.4	12.9		ug/L		84	23 - 149	7	37

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# QC Sample Results

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

Job ID: 180-155743-1

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

**Lab Sample ID: 180-155743-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 668191**

**Client Sample ID: SUPE-W-99A-042623**  
**Prep Type: Total/NA**  
**Prep Batch: 667743**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	93		24 - 146
2-Fluorobiphenyl	90		37 - 120
2-Fluorophenol (Surr)	51		10 - 120
Nitrobenzene-d5 (Surr)	79		26 - 120
Phenol-d5 (Surr)	36		11 - 120
p-Terphenyl-d14	82		64 - 127

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

**Lab Sample ID: MB 180-434029/1-A**  
**Matrix: Water**  
**Analysis Batch: 434215**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 434029**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L		05/02/23 12:33	05/04/23 10:37		1
1,2-Dichlorobenzene	ND		1.0	0.095	ug/L		05/02/23 12:33	05/04/23 10:37		1
1,3-Dichlorobenzene	ND		1.0	0.099	ug/L		05/02/23 12:33	05/04/23 10:37		1
1,4-Dichlorobenzene	ND		1.0	0.061	ug/L		05/02/23 12:33	05/04/23 10:37		1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		05/02/23 12:33	05/04/23 10:37		1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		05/02/23 12:33	05/04/23 10:37		1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		05/02/23 12:33	05/04/23 10:37		1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		05/02/23 12:33	05/04/23 10:37		1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		05/02/23 12:33	05/04/23 10:37		1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		05/02/23 12:33	05/04/23 10:37		1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		05/02/23 12:33	05/04/23 10:37		1
2,4-Dinitrophenol	ND		10	1.5	ug/L		05/02/23 12:33	05/04/23 10:37		1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		05/02/23 12:33	05/04/23 10:37		1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		05/02/23 12:33	05/04/23 10:37		1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		05/02/23 12:33	05/04/23 10:37		1
2-Chlorophenol	ND		1.0	0.13	ug/L		05/02/23 12:33	05/04/23 10:37		1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		05/02/23 12:33	05/04/23 10:37		1
2-Methylphenol	ND		1.0	0.30	ug/L		05/02/23 12:33	05/04/23 10:37		1
2-Nitroaniline	ND		5.0	0.55	ug/L		05/02/23 12:33	05/04/23 10:37		1
2-Nitrophenol	ND		1.0	0.19	ug/L		05/02/23 12:33	05/04/23 10:37		1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		05/02/23 12:33	05/04/23 10:37		1
3-Nitroaniline	ND		5.0	0.44	ug/L		05/02/23 12:33	05/04/23 10:37		1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		05/02/23 12:33	05/04/23 10:37		1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		05/02/23 12:33	05/04/23 10:37		1
4-Chloro-3-methylphenol	ND		1.0	0.28	ug/L		05/02/23 12:33	05/04/23 10:37		1
4-Chloroaniline	ND		1.0	0.38	ug/L		05/02/23 12:33	05/04/23 10:37		1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		05/02/23 12:33	05/04/23 10:37		1
4-Nitroaniline	ND		5.0	0.36	ug/L		05/02/23 12:33	05/04/23 10:37		1
4-Nitrophenol	ND		5.0	0.94	ug/L		05/02/23 12:33	05/04/23 10:37		1
Acenaphthene	ND		0.19	0.065	ug/L		05/02/23 12:33	05/04/23 10:37		1
Acenaphthylene	ND		0.19	0.065	ug/L		05/02/23 12:33	05/04/23 10:37		1
Anthracene	ND		0.19	0.049	ug/L		05/02/23 12:33	05/04/23 10:37		1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		05/02/23 12:33	05/04/23 10:37		1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		05/02/23 12:33	05/04/23 10:37		1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		05/02/23 12:33	05/04/23 10:37		1

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# QC Sample Results

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

Job ID: 180-155743-1

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

**Lab Sample ID: MB 180-434029/1-A**  
**Matrix: Water**  
**Analysis Batch: 434215**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 434029**

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		05/02/23 12:33	05/04/23 10:37	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		05/02/23 12:33	05/04/23 10:37	1
Benzoic acid	ND		5.0	0.92	ug/L		05/02/23 12:33	05/04/23 10:37	1
Benzyl alcohol	ND		1.0	0.16	ug/L		05/02/23 12:33	05/04/23 10:37	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		05/02/23 12:33	05/04/23 10:37	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		05/02/23 12:33	05/04/23 10:37	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		05/02/23 12:33	05/04/23 10:37	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		05/02/23 12:33	05/04/23 10:37	1
Butyl benzyl phthalate	ND		1.0	0.46	ug/L		05/02/23 12:33	05/04/23 10:37	1
Chrysene	ND		0.19	0.081	ug/L		05/02/23 12:33	05/04/23 10:37	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		05/02/23 12:33	05/04/23 10:37	1
Dibenzofuran	ND		1.0	0.19	ug/L		05/02/23 12:33	05/04/23 10:37	1
Diethyl phthalate	ND		1.0	0.57	ug/L		05/02/23 12:33	05/04/23 10:37	1
Dimethyl phthalate	ND		1.0	0.20	ug/L		05/02/23 12:33	05/04/23 10:37	1
Di-n-butyl phthalate	ND		1.0	0.74	ug/L		05/02/23 12:33	05/04/23 10:37	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		05/02/23 12:33	05/04/23 10:37	1
Fluoranthene	ND		0.19	0.060	ug/L		05/02/23 12:33	05/04/23 10:37	1
Fluorene	ND		0.19	0.069	ug/L		05/02/23 12:33	05/04/23 10:37	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		05/02/23 12:33	05/04/23 10:37	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		05/02/23 12:33	05/04/23 10:37	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		05/02/23 12:33	05/04/23 10:37	1
Hexachloroethane	ND		1.0	0.13	ug/L		05/02/23 12:33	05/04/23 10:37	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		05/02/23 12:33	05/04/23 10:37	1
Isophorone	ND		1.0	0.19	ug/L		05/02/23 12:33	05/04/23 10:37	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		05/02/23 12:33	05/04/23 10:37	1
Naphthalene	ND		0.19	0.059	ug/L		05/02/23 12:33	05/04/23 10:37	1
Nitrobenzene	ND		2.0	0.50	ug/L		05/02/23 12:33	05/04/23 10:37	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		05/02/23 12:33	05/04/23 10:37	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		05/02/23 12:33	05/04/23 10:37	1
Phenanthrene	ND		0.19	0.055	ug/L		05/02/23 12:33	05/04/23 10:37	1
Phenol	ND		1.0	0.49	ug/L		05/02/23 12:33	05/04/23 10:37	1
Pyrene	ND		0.19	0.054	ug/L		05/02/23 12:33	05/04/23 10:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	74		23 - 128	05/02/23 12:33	05/04/23 10:37	1
2-Fluorobiphenyl	69		20 - 105	05/02/23 12:33	05/04/23 10:37	1
2-Fluorophenol (Surr)	84		20 - 105	05/02/23 12:33	05/04/23 10:37	1
Nitrobenzene-d5 (Surr)	70		20 - 107	05/02/23 12:33	05/04/23 10:37	1
Phenol-d5 (Surr)	76		20 - 106	05/02/23 12:33	05/04/23 10:37	1
Terphenyl-d14 (Surr)	76		22 - 120	05/02/23 12:33	05/04/23 10:37	1

**Lab Sample ID: LCS 180-434029/2-A**  
**Matrix: Water**  
**Analysis Batch: 434215**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 434029**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	20.0	13.8		ug/L		69	51 - 100

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# QC Sample Results

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

Job ID: 180-155743-1

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

**Lab Sample ID: LCS 180-434029/2-A**  
**Matrix: Water**  
**Analysis Batch: 434215**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 434029**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	20.0	13.6		ug/L		68	51 - 100
1,4-Dichlorobenzene	20.0	13.5		ug/L		67	52 - 100
1-Methylnaphthalene	20.0	14.3		ug/L		71	53 - 100
2,3,4,6-Tetrachlorophenol	20.0	15.2		ug/L		76	50 - 100
2,4,5-Trichlorophenol	20.0	16.1		ug/L		80	55 - 100
2,4,6-Trichlorophenol	20.0	15.6		ug/L		78	54 - 100
2,4-Dichlorophenol	20.0	15.7		ug/L		79	55 - 100
2,4-Dimethylphenol	20.0	15.1		ug/L		76	51 - 100
2,4-Dinitrophenol	40.0	26.5		ug/L		66	32 - 100
2,4-Dinitrotoluene	20.0	15.3		ug/L		77	56 - 100
2,6-Dinitrotoluene	20.0	15.6		ug/L		78	56 - 101
2-Chloronaphthalene	20.0	14.5		ug/L		72	52 - 100
2-Chlorophenol	20.0	15.0		ug/L		75	53 - 100
2-Methylnaphthalene	20.0	14.5		ug/L		72	53 - 100
2-Methylphenol	20.0	15.7		ug/L		79	51 - 100
2-Nitroaniline	20.0	16.7		ug/L		83	47 - 104
2-Nitrophenol	20.0	16.0		ug/L		80	56 - 100
3,3'-Dichlorobenzidine	20.0	12.8		ug/L		64	42 - 100
3-Nitroaniline	20.0	16.4		ug/L		82	54 - 100
4,6-Dinitro-2-methylphenol	40.0	27.3		ug/L		68	48 - 100
4-Bromophenyl phenyl ether	20.0	14.6		ug/L		73	50 - 100
4-Chloro-3-methylphenol	20.0	16.7		ug/L		84	47 - 105
4-Chloroaniline	20.0	14.5		ug/L		73	48 - 100
4-Chlorophenyl phenyl ether	20.0	14.3		ug/L		72	52 - 100
4-Nitroaniline	20.0	15.9		ug/L		79	54 - 100
4-Nitrophenol	40.0	32.9		ug/L		82	37 - 120
Acenaphthene	20.0	14.1		ug/L		70	51 - 100
Acenaphthylene	20.0	15.5		ug/L		78	54 - 100
Anthracene	20.0	15.3		ug/L		76	54 - 100
Benzo[a]anthracene	20.0	14.7		ug/L		74	52 - 100
Benzo[a]pyrene	20.0	14.3		ug/L		72	52 - 100
Benzo[b]fluoranthene	20.0	12.6		ug/L		63	50 - 100
Benzo[g,h,i]perylene	20.0	13.5		ug/L		68	53 - 100
Benzo[k]fluoranthene	20.0	14.4		ug/L		72	49 - 100
Benzoic acid	20.0	16.9		ug/L		85	31 - 122
Benzyl alcohol	20.0	15.2		ug/L		76	33 - 107
Bis(2-chloroethoxy)methane	20.0	14.4		ug/L		72	49 - 100
Bis(2-chloroethyl)ether	20.0	14.4		ug/L		72	46 - 100
Bis(2-ethylhexyl) phthalate	20.0	14.1		ug/L		70	52 - 101
bis(chloroisopropyl) ether	20.0	14.7		ug/L		73	29 - 102
Butyl benzyl phthalate	20.0	14.6		ug/L		73	52 - 100
Chrysene	20.0	13.6		ug/L		68	51 - 100
Dibenz(a,h)anthracene	20.0	13.5		ug/L		68	52 - 101
Dibenzofuran	20.0	14.1		ug/L		71	53 - 100
Diethyl phthalate	20.0	15.3		ug/L		76	52 - 100
Dimethyl phthalate	20.0	15.2		ug/L		76	55 - 100
Di-n-butyl phthalate	20.0	15.8		ug/L		79	57 - 100
Di-n-octyl phthalate	20.0	15.4		ug/L		77	41 - 100
Fluoranthene	20.0	14.5		ug/L		73	56 - 100

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# QC Sample Results

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

Job ID: 180-155743-1

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

**Lab Sample ID: LCS 180-434029/2-A**  
**Matrix: Water**  
**Analysis Batch: 434215**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 434029**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	20.0	14.8		ug/L		74	53 - 100
Hexachlorobenzene	20.0	14.7		ug/L		74	46 - 100
Hexachlorobutadiene	20.0	14.1		ug/L		70	42 - 101
Hexachlorocyclopentadiene	20.0	13.8		ug/L		69	38 - 102
Hexachloroethane	20.0	14.2		ug/L		71	46 - 100
Indeno[1,2,3-cd]pyrene	20.0	13.9		ug/L		70	54 - 100
Isophorone	20.0	16.2		ug/L		81	50 - 100
Methylphenol, 3 & 4	20.0	14.9		ug/L		75	51 - 100
Naphthalene	20.0	14.0		ug/L		70	53 - 100
Nitrobenzene	20.0	14.9		ug/L		74	47 - 100
N-Nitrosodi-n-propylamine	20.0	15.3		ug/L		76	43 - 103
N-Nitrosodiphenylamine	20.0	14.5		ug/L		73	53 - 100
Phenanthrene	20.0	14.0		ug/L		70	53 - 100
Phenol	20.0	14.7		ug/L		74	49 - 100
Pyrene	20.0	13.8		ug/L		69	53 - 100

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	78		23 - 128
2-Fluorobiphenyl	67		20 - 105
2-Fluorophenol (Surr)	76		20 - 105
Nitrobenzene-d5 (Surr)	75		20 - 107
Phenol-d5 (Surr)	74		20 - 106
Terphenyl-d14 (Surr)	63		22 - 120

**Lab Sample ID: 180-155743-1 MS**  
**Matrix: Water**  
**Analysis Batch: 434215**

**Client Sample ID: SUPE-W-99A-042623**  
**Prep Type: Total/NA**  
**Prep Batch: 434029**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	ND		16.1	9.27		ug/L		57	51 - 100
1,2-Dichlorobenzene	ND		16.1	9.15		ug/L		57	51 - 100
1,3-Dichlorobenzene	ND		16.1	8.97		ug/L		56	51 - 100
1,4-Dichlorobenzene	ND		16.1	8.97		ug/L		56	52 - 100
1-Methylnaphthalene	ND		16.1	10.1		ug/L		63	53 - 100
2,3,4,6-Tetrachlorophenol	ND		16.1	11.0		ug/L		68	50 - 100
2,4,5-Trichlorophenol	ND		16.1	11.8		ug/L		73	55 - 100
2,4,6-Trichlorophenol	ND		16.1	11.1		ug/L		69	54 - 100
2,4-Dichlorophenol	ND		16.1	11.2		ug/L		69	55 - 100
2,4-Dimethylphenol	ND		16.1	10.4		ug/L		65	51 - 100
2,4-Dinitrophenol	ND		32.3	19.8		ug/L		61	32 - 100
2,4-Dinitrotoluene	ND		16.1	11.1		ug/L		69	56 - 100
2,6-Dinitrotoluene	ND		16.1	11.3		ug/L		70	56 - 101
2-Chloronaphthalene	ND		16.1	9.90		ug/L		61	52 - 100
2-Chlorophenol	ND		16.1	11.0		ug/L		68	53 - 100
2-Methylnaphthalene	ND		16.1	10.1		ug/L		63	53 - 100
2-Methylphenol	ND		16.1	11.4		ug/L		71	51 - 100
2-Nitroaniline	ND		16.1	12.3		ug/L		76	47 - 104
2-Nitrophenol	ND		16.1	11.6		ug/L		72	56 - 100

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# QC Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-1 MS

Matrix: Water

Analysis Batch: 434215

Client Sample ID: SUPE-W-99A-042623

Prep Type: Total/NA

Prep Batch: 434029

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
3,3'-Dichlorobenzidine	ND		16.1	10.3		ug/L		64	42 - 100
3-Nitroaniline	ND		16.1	11.5		ug/L		71	54 - 100
4,6-Dinitro-2-methylphenol	ND		32.3	21.4		ug/L		66	48 - 100
4-Bromophenyl phenyl ether	ND		16.1	10.3		ug/L		64	50 - 100
4-Chloro-3-methylphenol	ND		16.1	11.6		ug/L		72	47 - 105
4-Chloroaniline	ND		16.1	10.4		ug/L		64	48 - 100
4-Chlorophenyl phenyl ether	ND		16.1	10.6		ug/L		66	52 - 100
4-Nitroaniline	ND		16.1	11.4		ug/L		71	54 - 100
4-Nitrophenol	ND		32.3	24.0		ug/L		74	37 - 120
Acenaphthene	ND		16.1	10.1		ug/L		63	51 - 100
Acenaphthylene	ND		16.1	10.8		ug/L		67	54 - 100
Anthracene	ND		16.1	11.1		ug/L		69	54 - 100
Benzo[a]anthracene	ND		16.1	11.2		ug/L		69	52 - 100
Benzo[a]pyrene	ND		16.1	10.8		ug/L		67	52 - 100
Benzo[b]fluoranthene	ND		16.1	10.1		ug/L		63	50 - 100
Benzo[g,h,i]perylene	ND		16.1	12.3		ug/L		76	53 - 100
Benzo[k]fluoranthene	ND		16.1	10.3		ug/L		64	49 - 100
Benzoic acid	4.4		16.1	14.0		ug/L		60	31 - 122
Benzyl alcohol	ND		16.1	11.3		ug/L		70	33 - 107
Bis(2-chloroethoxy)methane	ND		16.1	10.4		ug/L		65	49 - 100
Bis(2-chloroethyl)ether	ND		16.1	10.4		ug/L		65	46 - 100
Bis(2-ethylhexyl) phthalate	ND		16.1	12.2		ug/L		76	52 - 101
bis(chloroisopropyl) ether	ND		16.1	10.2		ug/L		63	29 - 102
Butyl benzyl phthalate	ND		16.1	12.5		ug/L		77	52 - 100
Chrysene	ND		16.1	10.6		ug/L		66	51 - 100
Dibenz(a,h)anthracene	ND		16.1	12.3		ug/L		76	52 - 101
Dibenzofuran	ND		16.1	10.1		ug/L		63	53 - 100
Diethyl phthalate	ND		16.1	11.2		ug/L		69	52 - 100
Dimethyl phthalate	ND		16.1	11.0		ug/L		68	55 - 100
Di-n-butyl phthalate	1.4		16.1	12.6		ug/L		69	57 - 100
Di-n-octyl phthalate	ND		16.1	12.9		ug/L		80	41 - 100
Fluoranthene	ND		16.1	11.0		ug/L		68	56 - 100
Fluorene	ND		16.1	10.5		ug/L		65	53 - 100
Hexachlorobenzene	ND		16.1	10.3		ug/L		64	46 - 100
Hexachlorobutadiene	ND		16.1	9.02		ug/L		56	42 - 101
Hexachlorocyclopentadiene	ND		16.1	7.62		ug/L		47	38 - 102
Hexachloroethane	ND		16.1	8.87		ug/L		55	46 - 100
Indeno[1,2,3-cd]pyrene	ND		16.1	12.8		ug/L		79	54 - 100
Isophorone	ND		16.1	11.4		ug/L		71	50 - 100
Methylphenol, 3 & 4	ND		16.1	11.5		ug/L		71	51 - 100
Naphthalene	ND		16.1	9.48		ug/L		59	53 - 100
Nitrobenzene	ND		16.1	10.6		ug/L		66	47 - 100
N-Nitrosodi-n-propylamine	ND		16.1	11.4		ug/L		71	43 - 103
N-Nitrosodiphenylamine	ND		16.1	10.5		ug/L		65	53 - 100
Phenanthrene	0.066	J	16.1	10.7		ug/L		66	53 - 100
Phenol	ND		16.1	10.6		ug/L		66	49 - 100
Pyrene	ND		16.1	11.4		ug/L		71	53 - 100

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# QC Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-1 MS

Matrix: Water

Analysis Batch: 434215

Client Sample ID: SUPE-W-99A-042623

Prep Type: Total/NA

Prep Batch: 434029

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	70		23 - 128
2-Fluorobiphenyl	59		20 - 105
2-Fluorophenol (Surr)	68		20 - 105
Nitrobenzene-d5 (Surr)	67		20 - 107
Phenol-d5 (Surr)	69		20 - 106
Terphenyl-d14 (Surr)	66		22 - 120

# QC Association Summary

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

Job ID: 180-155743-1

## GC/MS VOA

### Analysis Batch: 667627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155743-1	SUPE-W-99A-042623	Total/NA	Water	8260C	
180-155743-2	SUPE-W-28C-042623	Total/NA	Water	8260C	
180-155743-3	SUPE-W-06C-042623	Total/NA	Water	8260C	
180-155743-4	SUPE-W-30C-042623	Total/NA	Water	8260C	
180-155743-6	SUPE-W-06A-042623	Total/NA	Water	8260C	
180-155743-7	SUPE-W-12CR-042623	Total/NA	Water	8260C	
180-155743-8	SUPE-EB-01-042623	Total/NA	Water	8260C	
MB 480-667627/8	Method Blank	Total/NA	Water	8260C	
LCS 480-667627/6	Lab Control Sample	Total/NA	Water	8260C	

## GC/MS Semi VOA

### Prep Batch: 434029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155743-1	SUPE-W-99A-042623	Total/NA	Water	3520C	
180-155743-2	SUPE-W-28C-042623	Total/NA	Water	3520C	
180-155743-3	SUPE-W-06C-042623	Total/NA	Water	3520C	
180-155743-4	SUPE-W-30C-042623	Total/NA	Water	3520C	
180-155743-5	SUPE-W-18D-042623	Total/NA	Water	3520C	
180-155743-6	SUPE-W-06A-042623	Total/NA	Water	3520C	
180-155743-7	SUPE-W-12CR-042623	Total/NA	Water	3520C	
180-155743-8	SUPE-EB-01-042623	Total/NA	Water	3520C	
MB 180-434029/1-A	Method Blank	Total/NA	Water	3520C	
LCS 180-434029/2-A	Lab Control Sample	Total/NA	Water	3520C	
180-155743-1 MS	SUPE-W-99A-042623	Total/NA	Water	3520C	

### Analysis Batch: 434215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155743-1	SUPE-W-99A-042623	Total/NA	Water	EPA 8270E LL	434029
180-155743-2	SUPE-W-28C-042623	Total/NA	Water	EPA 8270E LL	434029
180-155743-3	SUPE-W-06C-042623	Total/NA	Water	EPA 8270E LL	434029
180-155743-4	SUPE-W-30C-042623	Total/NA	Water	EPA 8270E LL	434029
180-155743-5	SUPE-W-18D-042623	Total/NA	Water	EPA 8270E LL	434029
180-155743-6	SUPE-W-06A-042623	Total/NA	Water	EPA 8270E LL	434029
180-155743-7	SUPE-W-12CR-042623	Total/NA	Water	EPA 8270E LL	434029
180-155743-8	SUPE-EB-01-042623	Total/NA	Water	EPA 8270E LL	434029
MB 180-434029/1-A	Method Blank	Total/NA	Water	EPA 8270E LL	434029
LCS 180-434029/2-A	Lab Control Sample	Total/NA	Water	EPA 8270E LL	434029
180-155743-1 MS	SUPE-W-99A-042623	Total/NA	Water	EPA 8270E LL	434029

### Prep Batch: 667743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155743-1	SUPE-W-99A-042623	Total/NA	Water	3510C	
180-155743-2	SUPE-W-28C-042623	Total/NA	Water	3510C	
180-155743-3	SUPE-W-06C-042623	Total/NA	Water	3510C	
180-155743-4	SUPE-W-30C-042623	Total/NA	Water	3510C	
180-155743-5	SUPE-W-18D-042623	Total/NA	Water	3510C	
180-155743-6	SUPE-W-06A-042623	Total/NA	Water	3510C	
180-155743-7	SUPE-W-12CR-042623	Total/NA	Water	3510C	
180-155743-8	SUPE-EB-01-042623	Total/NA	Water	3510C	
MB 480-667743/1-A	Method Blank	Total/NA	Water	3510C	

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# QC Association Summary

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

Job ID: 180-155743-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 667743 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-667743/2-A	Lab Control Sample	Total/NA	Water	3510C	
180-155743-1 MS	SUPE-W-99A-042623	Total/NA	Water	3510C	
180-155743-1 MSD	SUPE-W-99A-042623	Total/NA	Water	3510C	

### Analysis Batch: 668191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155743-1	SUPE-W-99A-042623	Total/NA	Water	8270D LL	667743
180-155743-2	SUPE-W-28C-042623	Total/NA	Water	8270D LL	667743
180-155743-3	SUPE-W-06C-042623	Total/NA	Water	8270D LL	667743
180-155743-4	SUPE-W-30C-042623	Total/NA	Water	8270D LL	667743
180-155743-5	SUPE-W-18D-042623	Total/NA	Water	8270D LL	667743
180-155743-6	SUPE-W-06A-042623	Total/NA	Water	8270D LL	667743
180-155743-7	SUPE-W-12CR-042623	Total/NA	Water	8270D LL	667743
180-155743-8	SUPE-EB-01-042623	Total/NA	Water	8270D LL	667743
MB 480-667743/1-A	Method Blank	Total/NA	Water	8270D LL	667743
LCS 480-667743/2-A	Lab Control Sample	Total/NA	Water	8270D LL	667743
180-155743-1 MS	SUPE-W-99A-042623	Total/NA	Water	8270D LL	667743
180-155743-1 MSD	SUPE-W-99A-042623	Total/NA	Water	8270D LL	667743



Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF # 502071



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 - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TACHI  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	Total Bottle Count		Notes:
						None	naphtna (Chicago)	
04/26/2023	1125	GW	SUPE-W-06A-042623	8270D_SVOC (less naphtha) (Chicago)	None	2		
04/26/2023	1515	GW	SUPE-W-12CR-042623			2		
04/26/2023	1540	GW	SUPE-EB-01-042623			2		



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS	Signature: <i>Keenya Rucker</i> Printed Name: Keenya Rucker Firm: FTS	Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS	Signature: <i>Keenya Rucker</i> Printed Name: Keenya Rucker Firm: FTS	<input type="checkbox"/> Rush  <input checked="" type="checkbox"/> Standard
Date/Time: 04/26/2023 1704	Date/Time: 4-28-23 0910	Date/Time: 4-28-23 0910	Date/Time: 4-28-23 0910	





Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502073



Project Name: Superior, WI - 2023 OM&M Program  
 Project Number: OM-0556-23  
 Laboratory: TAKNOX  
 Shipment Method: FEDEX  
 Program: Superior 2023 1SA Sampling\_001

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

Client: Beazer East, Inc.  
 Contact: mferfick.2006@fts.com

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					8290 Dioxins/Furans (Knoxville) (1L)	None		
04/26/2023	1125	GW	SUPE-W-06A-042623	2			2	
04/26/2023	1515	GW	SUPE-W-12CR-042623	2			2	
04/26/2023	1540	GW	SUPE-EB-01-042623	2			2	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS Date/Time: 04/26/2023 1704	Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS Date/Time: 04/26/2023 0910	Signature: Printed Name: Firm:	Signature: Printed Name: Firm:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard



Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502078



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

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TACHI  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					8270D_SVOC (less naphtha) (Chicago)	8270D_SVOC+naphtha (Chicago) (250ml)		
04/26/2023	0830	GW	SUPE-W-99A-042623		2	0		
04/26/2023	1038	GW	SUPE-W-28C-042623		2	0		
04/26/2023	1235	GW	SUPE-W-06C-042623		2	0		
04/26/2023	1442	GW	SUPE-W-30C-042623		2	0		
04/26/2023	1615	GW	SUPE-W-18D-042623		2	0		

Relinquished by: 	Received by: 	Signature:	
		Printed Name: Shane Lindquist	
Firm FTS	Date/Time: 04/26/2023 1700	Signature:	
		Printed Name: E. Lindquist	
Relinquished by:		Received by:	
Signature:		Signature:	
Printed Name: Shane Lindquist		Printed Name: E. Lindquist	
Firm FTS		Firm	
Date/Time: 04/26/2023 1700		Date/Time: 4-28-23 0910	

Turnaround Requirements	
<input type="checkbox"/> Rush	<input checked="" type="checkbox"/> Standard





Ref 210211

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502080



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

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TAKNOX  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					8290 Dioxins/Furans (Knoxville) (TL)	None		
04/26/2023	0830	GW	SUPE-W-99A-042623	2			2	
04/26/2023	1038	GW	SUPE-W-28C-042623	2			2	
04/26/2023	1235	GW	SUPE-W-06C-042623	2			2	
04/26/2023	1442	GW	SUPE-W-30C-042623	2			2	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Shane Lindquist</i>	Signature: <i>Shane Lindquist</i>	Signature:	Signature:	<input type="checkbox"/> Rush
Printed Name: Shane Lindquist	Printed Name: Shane Lindquist	Printed Name:	Printed Name:	<input checked="" type="checkbox"/> Standard
Firm: FTS	Firm: FTS	Firm:	Firm:	
Date/Time: 04/26/2023 1701	Date/Time: 4-28-23 0910	Date/Time:	Date/Time:	



Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502072



Client: Beazer East, Inc.  
Contact: mferrick.2006@fts.com

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TABUF  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					HCL	None		
04/26/2023	1125	GW	SUPE-W-06A-042623	8260C_VOA+naphtha (Buffalo)	8270D_LL_PCP (Buffalo) (TL)	3	3	
04/26/2023	1515	GW	SUPE-W-12CR-042623	8260C_VOA+naphtha (Buffalo)	8270D_LL_PCP (Buffalo) (TL)	3	3	
04/26/2023	1540	GW	SUPE-EB-01-042623	8260C_VOA+naphtha (Buffalo)	8270D_LL_PCP (Buffalo) (TL)	3	3	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
<i>Marie Ferrick</i>	<i>Marie Ferrick</i>	Signature:	Signature:	<input type="checkbox"/> Rush
Printed Name: Marie Ferrick	Printed Name: Marie Ferrick	Printed Name:	Printed Name:	<input checked="" type="checkbox"/> Standard
Firm: FTS	Firm: FTS	Firm:	Firm:	
Date/Time: 04/26/2023 1704	Date/Time: 4-27-23 0910	Date/Time:	Date/Time:	







Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502079



Client: Beazer East, Inc.  
Contact: slindquist.2006@fts.com

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TABUF  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					HCL (Butfalo) 8260C_VOA+naphtha	None (Butfalo) (1L) 8270D_LL_PCP		
04/26/2023	0830	GW	SUPE-W-99A-042623		3	3	6	
04/26/2023	1038	GW	SUPE-W-28C-042623		3	3	6	
04/26/2023	1235	GW	SUPE-W-06C-042623		3	3	6	
04/26/2023	1442	GW	SUPE-W-30C-042623		3	3	6	
04/26/2023	1615	GW	SUPE-W-18D-042623		0	3	3	

Relinquished by:  Printed Name: Shane Lindquist Firm: FTS	Received by:  Printed Name: Keenya Rush Firm: ELIANT	Relinquished by: Signature: Printed Name: Firm:	Received by: Signature: Printed Name: Firm:	Turnaround Requirements: <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard



ORIGIN ID:AGCA  
STEVEN WILLIS  
KUPPERS INC RAILRO  
3185 SOUTH COUNTRY R

RT 198  
FZ 197

04.26

1803/CAFES

SUPERIOR, WI 54880  
UNITED STATES US

TO SHIPPING / RECEIVING  
EUROFINS ENVIRONMENT TESTING NE LLC  
301 ALPHA DRIVE

PITTSBURGH PA 152382907

(412) 963-7068

REF:

IND:

DEPT:

RMA

Uncorrected temp

Thermometer ID 33 17

CF 0 Initials JD

PT-WI-SR-001 effective 11/8/18

FedEx  
Express

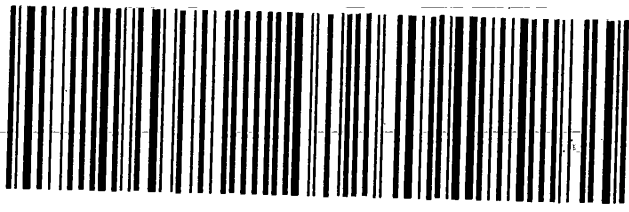


FedEx  
TRK# 0221 6426 1927 2002

FRI - 28 APR 10:30A  
PRIORITY OVERNIGHT

XN AGCA

15238  
PA-US PIT



#5115555 04/27 583J3/78CF/FE2D



N.O CHAIN

JKLBN: 117-AGLA (218) 391-0409  
 STEVEN WILLIS  
 KOPPERS INC RAILROAD PRODUCTS & SER  
 3185 SOUTH COUNTRY ROAD, A

SHIP DATE: 15APR23  
 ACTWGT: 30.00 LB MAN  
 CAD: 0551803/CAFE3621

Part #: S456234 AMW/ESR30124

SUPERIOR, WI 54880  
 UNITED STATES US

**TO SHIPPING / RECEIVING**  
**EUROFINS ENVIRONMENT TESTING NE LLC**  
**301 ALPHA DRIVE**

**PITTSBURGH PA 152382907**

(412) 963-7058

REF:

PO:

DEPT:

RM **Uncorrected temp**  
**Thermometer ID 3.1**

CF 0 Initials JD

PT-WI-SR-001 effective 11/8/18

**FedEx**  
Express



AN1890902020227

**FedEx**

TRK#  
 0221 **6426 1927 2013**

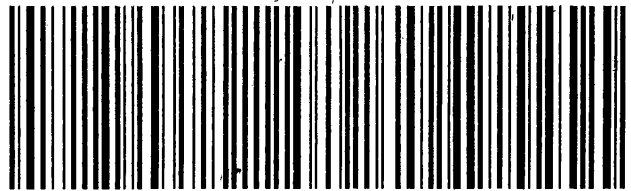
**FRI - 28 APR 10:30A**  
**PRIORITY OVERNIGHT**

**XN AGCA**

**15238**

PA-US **PI**

15238-PA-EXP 08/22



W5115555 04/27 583J3/78CF/FE2D

ORIGIN ID: AGCA (412) 963-7068  
SHIP DATE: 17 APR 23  
STIVEN WILLIS  
KOPPERS INC RAILROAD PRODUCTS & SER  
3165 SOUTH COUNTRY ROAD A  
PITTSBURGH, WI 54880  
UNITED STATES US

SHIP DATE: 15 APR 23  
ACTWGT: 30.00 LB MAN  
CAD: 0551803/CAFE3621

10 SHIPPING / RECEIVING  
EUROFINS ENVIRONMENT TESTING NE LLC  
301 ALPHA DRIVE

PITTSBURGH PA 152382907

(412) 963-7068  
INV: PO:

REF:

DEPT:

RMA: III III III

Uncorrected temp

Thermometer ID 38

CF 0

Initials JD

PT-WI-SR-001 effective 11/8/18

FedEx  
Express



FedEx

TRK# 0221 6426 1927 1999

FRI - 28 APR 10:30A  
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US PI



#5115555 04/27 583J3/78CF/FE2D



EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	
2. Were ambient air containers received intact?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Yes <input type="checkbox"/> NA	Custody Seals Intact Received at RT: 0.7 / CT: 0.5°C RT: 0.3 / CT: 0.1°C RT: 0.4 / CT: 0.2°C
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID : <u>SC75</u> Correction factor: <u>-0.2°C</u>	<input checked="" type="checkbox"/>			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	OH 5/2/23 3 Coolers Fra 6426 1927 7107 W PD
5. Were all of the sample containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC? <sup>OH</sup> 5/2/23	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/> Sampler Not Listed on COC	pH test strip lot number: _____
11. Is the client and project name/# identified?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____
17. Were VOA samples received without headspace?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____			<input checked="" type="checkbox"/>		
19. For 1613B water samples is pH<9?			<input checked="" type="checkbox"/>	<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Project missing info	
Project #: <u>180159116</u> PM Instructions: _____					

Sample Receiving Associate: Dean Hick Date: 5/2/23

QA026R32.doc, 062719



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-485917-1					
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com	Page: Page 1 of 1					
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin	Job #: 180-155743-1					
Address: 5815 Middlebrook Pike, City: Knoxville		<b>Analysis Requested</b> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 8290A/8290_P_Sep 17 Isomers + Totals <input checked="" type="checkbox"/> Total Number of Containers <input checked="" type="checkbox"/>	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)					
Phone: 865-291-3000(Tel) 865-584-4315(Fax)								
Email: [Blank]								
Project Name: Superior, WI Semiannual Groundwater								
Site: [Blank]		Special Instructions/Note: Refer to PT-PM-WI-006 for Wisconsin Protocol Refer to PT-PM-WI-006 for Wisconsin Protocol Refer to PT-PM-WI-006 for Wisconsin Protocol Refer to PT-PM-WI-006 for Wisconsin Protocol Refer to PT-PM-WI-006 for Wisconsin Protocol Refer to PT-PM-WI-006 for Wisconsin Protocol Refer to PT-PM-WI-006 for Wisconsin Protocol Refer to PT-PM-WI-006 for Wisconsin Protocol						
<b>Sample Identification - Client ID (Lab ID)</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>Matrix (Water, Solid, Wastewater, Tissue, ASAL)</b>	<b>Preservation Code:</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>Total Number of Containers</b>
SUPE-W-99A-042623 (180-155743-1)	4/26/23	08:30 Central	Water	Water		X	X	2
SUPE-W-28C-042623 (180-155743-2)	4/26/23	10:38 Central	Water	Water		X	X	2
SUPE-W-06C-042623 (180-155743-3)	4/26/23	12:35 Central	Water	Water		X	X	2
SUPE-W-30C-042623 (180-155743-4)	4/26/23	14:42 Central	Water	Water		X	X	2
SUPE-W-06A-042623 (180-155743-6)	4/26/23	11:25 Central	Water	Water		X	X	2
SUPE-W-12CR-042623 (180-155743-7)	4/26/23	15:15 Central	Water	Water		X	X	2
SUPE-EB-01-042623 (180-155743-8)	4/26/23	15:40 Central	Water	Water		X	X	2

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/test/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  Return To Client  Disposal By Lab  Archive For  Months

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

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: *[Signature]* Date/Time: 5/1/23 17:00 Company: *ETL*

Relinquished by: *[Signature]* Date/Time: \_\_\_\_\_ Company: *ETA KUX*

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No Cooler Temperature(s) °C and °F: \_\_\_\_\_

Barcode:

180-155743 Chain of Custody

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	
2. Were ambient air containers received intact?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Yes <input type="checkbox"/> NA	Custody Seals Intact Received at RT: 0.7 / CT: 0.5°C RT: 0.3 / CT: 0.1°C RT: 0.4 / CT: 0.2°C DH 5/2/23
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID : <u>SC7S</u> Correction factor: <u>-0.2°C</u>	<input checked="" type="checkbox"/>			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	3 Coolers FedEx 64726 1927 7107 W PD
5. Were all of the sample containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC? <sup>DH</sup> 5/2/23	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/> Sampler Not Listed on COC	
11. Is the client and project name/# identified?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC No tests on COC	pH test strip lot number: _____
13. Is the matrix of the samples noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____
17. Were VOA samples received without headspace?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____			<input checked="" type="checkbox"/>		
19. For 1613B water samples is pH<9?			<input checked="" type="checkbox"/>	<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Project missing info	
Project #: <u>18015916</u> PM Instructions: _____					

Sample Receiving Associate: Dean Hick Date: 5/2/23

QA026R32.doc, 062719





# Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-155743-1

**Login Number: 155743**

**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	



# Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-155743-1

**Login Number: 155743**

**List Number: 2**

**Creator: Kolb, Chris M**

**List Source: Eurofins Buffalo**

**List Creation: 05/01/23 09:25 AM**

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	3.6 2.8 2.1 3.0 1.9 1.7 ir gun #1 ice
COC is present.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	N/A	
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

## PREPARED FOR

Attn: Ms. Angie Gatchie  
Field & Technical Services LLC  
200 Third Avenue  
Carnegie, Pennsylvania 15106

Generated 6/8/2023 12:13:18 PM

## JOB DESCRIPTION

Superior, WI Semiannual Groundwater

## JOB NUMBER

180-155743-2

# Eurofins Pittsburgh

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

## Authorization



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



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# Case Narrative

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

Job ID: 180-155743-2

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## Job ID: 180-155743-2

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Laboratory: Eurofins Pittsburgh

### Narrative

Job Narrative  
180-155743-2

### Comments

No additional comments.

### Receipt

The samples were received on 4/28/2023 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.1° C, 3.3° C and 3.8° C

### Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no sample was received: SUPE-W-18D-042623 (180-155743-5)

### Dioxin

Methods 0010/1668A, 1613B, 1668A, 1668C, 23, 8290A, Split, TO-9A: The identification of samples and analytes for which manual integrations were necessary is listed in the manual integration summary.

Method 8290A: The bracketing continuing calibration verification (CCV) associated with batch 140-74060 has analytes with percent difference values that are between the method criteria of 30% to 35% deviation from the initial calibration curve. Per method guidelines, an average relative response factor (RRF) is calculated from the bracketing CCV and is used to quantitate the Isotope Dilution Analyte (IDA) recovery in the associated samples.

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

### Organic Prep

Methods 1668\_Sep\_2L, 3540C, 8290, Combined Prep, HRMS-Sepf, HRMS-Sox, HRMS-waste, Split: The following samples were through Gel-Permeation Cleanup procedure, based on EPA method 3640A: SUPE-W-99A-042623 (180-155743-1), SUPE-W-28C-042623 (180-155743-2), SUPE-W-06C-042623 (180-155743-3), SUPE-W-30C-042623 (180-155743-4), SUPE-W-06A-042623 (180-155743-6), SUPE-W-12CR-042623 (180-155743-7) and SUPE-EB-01-042623 (180-155743-8)

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: 180-155743-2

## Qualifiers

### Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
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: 180-155743-2

## Laboratory: Eurofins Knoxville

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998044300	08-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8290A	8290	Water	Total HpCDD
8290A	8290	Water	Total HpCDF
8290A	8290	Water	Total HxCDD
8290A	8290	Water	Total HxCDF
8290A	8290	Water	Total PeCDD
8290A	8290	Water	Total PeCDF
8290A	8290	Water	Total TCDD
8290A	8290	Water	Total TCDF



# Sample Summary

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

Job ID: 180-155743-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-155743-1	SUPE-W-99A-042623	Water	04/26/23 08:30	04/28/23 09:10
180-155743-2	SUPE-W-28C-042623	Water	04/26/23 10:38	04/28/23 09:10
180-155743-3	SUPE-W-06C-042623	Water	04/26/23 12:35	04/28/23 09:10
180-155743-4	SUPE-W-30C-042623	Water	04/26/23 14:42	04/28/23 09:10
180-155743-6	SUPE-W-06A-042623	Water	04/26/23 11:25	04/28/23 09:10
180-155743-7	SUPE-W-12CR-042623	Water	04/26/23 15:15	04/28/23 09:10
180-155743-8	SUPE-EB-01-042623	Water	04/26/23 15:40	04/28/23 09:10

- 1
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- 10
- 11
- 12
- 13

# Method Summary

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

Job ID: 180-155743-2

Method	Method Description	Protocol	Laboratory
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	EET KNX
8290	Separatory Funnel (Liquid-Liquid) Extraction of Dioxins and Furans	SW846	EET KNX

**Protocol References:**

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

**Laboratory References:**

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000



# Lab Chronicle

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

Job ID: 180-155743-2

**Client Sample ID: SUPE-W-99A-042623**

**Lab Sample ID: 180-155743-1**

Date Collected: 04/26/23 08:30

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1030.8 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74060	06/07/23 12:22	BKK	EET KNX
Instrument ID: D4A										

**Client Sample ID: SUPE-W-28C-042623**

**Lab Sample ID: 180-155743-2**

Date Collected: 04/26/23 10:38

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1035.8 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74060	06/07/23 13:22	BKK	EET KNX
Instrument ID: D4A										

**Client Sample ID: SUPE-W-06C-042623**

**Lab Sample ID: 180-155743-3**

Date Collected: 04/26/23 12:35

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1032.1 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74060	06/07/23 14:22	BKK	EET KNX
Instrument ID: D4A										

**Client Sample ID: SUPE-W-30C-042623**

**Lab Sample ID: 180-155743-4**

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1051 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74060	06/07/23 15:21	BKK	EET KNX
Instrument ID: D4A										

**Client Sample ID: SUPE-W-06A-042623**

**Lab Sample ID: 180-155743-6**

Date Collected: 04/26/23 11:25

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			977.6 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74060	06/07/23 16:21	BKK	EET KNX
Instrument ID: D4A										

# Lab Chronicle

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

Job ID: 180-155743-2

**Client Sample ID: SUPE-W-12CR-042623**

**Lab Sample ID: 180-155743-7**

**Date Collected: 04/26/23 15:15**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			948.3 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74060	06/07/23 17:21	BKK	EET KNX

Instrument ID: D4A

**Client Sample ID: SUPE-EB-01-042623**

**Lab Sample ID: 180-155743-8**

**Date Collected: 04/26/23 15:40**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1037.5 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74060	06/07/23 18:21	BKK	EET KNX

Instrument ID: D4A

**Laboratory References:**

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

**Analyst References:**

Lab: EET KNX

Batch Type: Prep

DAC = Drew Costanzo

Batch Type: Analysis

BKK = Benjamin Knight

# Client Sample Results

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

Job ID: 180-155743-2

**Client Sample ID: SUPE-W-99A-042623**

**Lab Sample ID: 180-155743-1**

Date Collected: 04/26/23 08:30

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.7	0.15	pg/L		05/18/23 08:49	06/07/23 12:22	1
Total TCDD	ND		9.7	0.15	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>1,2,3,7,8-PeCDD</b>	<b>0.61</b>	<b>J B</b>	49	0.26	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>Total PeCDD</b>	<b>0.61</b>	<b>J B</b>	49	0.26	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>1,2,3,4,7,8-HxCDD</b>	<b>1.4</b>	<b>J I B</b>	49	0.23	pg/L		05/18/23 08:49	06/07/23 12:22	1
1,2,3,6,7,8-HxCDD	ND		49	0.22	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>1,2,3,7,8,9-HxCDD</b>	<b>0.63</b>	<b>J I</b>	49	0.21	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>Total HxCDD</b>	<b>2.4</b>	<b>J I B</b>	49	0.22	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>3.3</b>	<b>J B</b>	49	0.53	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>Total HpCDD</b>	<b>13</b>	<b>J B</b>	49	0.53	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>OCDD</b>	<b>22</b>	<b>J B</b>	97	0.28	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>2,3,7,8-TCDF</b>	<b>0.40</b>	<b>J I B</b>	9.7	0.085	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>Total TCDF</b>	<b>1.4</b>	<b>J I B</b>	9.7	0.085	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>1,2,3,7,8-PeCDF</b>	<b>0.87</b>	<b>J B</b>	49	0.18	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>2,3,4,7,8-PeCDF</b>	<b>0.18</b>	<b>J I B</b>	49	0.16	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>Total PeCDF</b>	<b>2.0</b>	<b>J I B</b>	49	0.17	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>1,2,3,4,7,8-HxCDF</b>	<b>1.4</b>	<b>J</b>	49	0.21	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>1,2,3,6,7,8-HxCDF</b>	<b>1.1</b>	<b>J I</b>	49	0.23	pg/L		05/18/23 08:49	06/07/23 12:22	1
2,3,4,6,7,8-HxCDF	ND		49	0.26	pg/L		05/18/23 08:49	06/07/23 12:22	1
1,2,3,7,8,9-HxCDF	ND		49	0.30	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>Total HxCDF</b>	<b>3.4</b>	<b>J I</b>	49	0.25	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>4.3</b>	<b>J B</b>	49	0.022	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>0.69</b>	<b>J B</b>	49	0.033	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>Total HpCDF</b>	<b>5.9</b>	<b>J I B</b>	49	0.028	pg/L		05/18/23 08:49	06/07/23 12:22	1
<b>OCDF</b>	<b>10</b>	<b>J B</b>	97	0.27	pg/L		05/18/23 08:49	06/07/23 12:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	72		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-1,2,3,7,8-PeCDD	67		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-1,2,3,4,7,8-HxCDD	74		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-1,2,3,6,7,8-HxCDD	82		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-1,2,3,4,6,7,8-HpCDD	80		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-OCDD	80		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-2,3,7,8-TCDF	78		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-1,2,3,7,8-PeCDF	70		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-2,3,4,7,8-PeCDF	71		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-1,2,3,4,7,8-HxCDF	83		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-1,2,3,6,7,8-HxCDF	78		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-2,3,4,6,7,8-HxCDF	79		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-1,2,3,7,8,9-HxCDF	78		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-1,2,3,4,6,7,8-HpCDF	83		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-1,2,3,4,7,8,9-HpCDF	73		40 - 135	05/18/23 08:49	06/07/23 12:22	1
13C-OCDF	59		40 - 135	05/18/23 08:49	06/07/23 12:22	1

**Client Sample ID: SUPE-W-28C-042623**

**Lab Sample ID: 180-155743-2**

Date Collected: 04/26/23 10:38

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.7	0.19	pg/L		05/18/23 08:49	06/07/23 13:22	1

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# Client Sample Results

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

Job ID: 180-155743-2

**Client Sample ID: SUPE-W-28C-042623**

**Lab Sample ID: 180-155743-2**

Date Collected: 04/26/23 10:38

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TCDD	ND		9.7	0.19	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>1,2,3,7,8-PeCDD</b>	<b>0.70</b>	<b>J I B</b>	48	0.23	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>Total PeCDD</b>	<b>0.70</b>	<b>J I B</b>	48	0.23	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>1,2,3,4,7,8-HxCDD</b>	<b>1.4</b>	<b>J B</b>	48	0.16	pg/L		05/18/23 08:49	06/07/23 13:22	1
1,2,3,6,7,8-HxCDD	ND		48	0.14	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>1,2,3,7,8,9-HxCDD</b>	<b>0.54</b>	<b>J</b>	48	0.14	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>Total HxCDD</b>	<b>3.5</b>	<b>J I B</b>	48	0.15	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>4.8</b>	<b>J I B</b>	48	0.65	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>Total HpCDD</b>	<b>17</b>	<b>J I B</b>	48	0.65	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>OCDD</b>	<b>29</b>	<b>J B</b>	97	0.17	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>2,3,7,8-TCDF</b>	<b>0.45</b>	<b>J I B</b>	9.7	0.081	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>Total TCDF</b>	<b>1.6</b>	<b>J I B</b>	9.7	0.081	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>1,2,3,7,8-PeCDF</b>	<b>1.2</b>	<b>J I B</b>	48	0.31	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>2,3,4,7,8-PeCDF</b>	<b>0.96</b>	<b>J B</b>	48	0.28	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>Total PeCDF</b>	<b>2.1</b>	<b>J I B</b>	48	0.29	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>1,2,3,4,7,8-HxCDF</b>	<b>1.9</b>	<b>J</b>	48	0.26	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>1,2,3,6,7,8-HxCDF</b>	<b>1.1</b>	<b>J</b>	48	0.29	pg/L		05/18/23 08:49	06/07/23 13:22	1
2,3,4,6,7,8-HxCDF	ND		48	0.31	pg/L		05/18/23 08:49	06/07/23 13:22	1
1,2,3,7,8,9-HxCDF	ND		48	0.37	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>Total HxCDF</b>	<b>4.6</b>	<b>J I</b>	48	0.31	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>4.8</b>	<b>J I B</b>	48	0.022	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>0.57</b>	<b>J I B</b>	48	0.029	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>Total HpCDF</b>	<b>6.6</b>	<b>J I B</b>	48	0.025	pg/L		05/18/23 08:49	06/07/23 13:22	1
<b>OCDF</b>	<b>11</b>	<b>J B</b>	97	0.11	pg/L		05/18/23 08:49	06/07/23 13:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	72		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-1,2,3,7,8-PeCDD	66		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-1,2,3,4,7,8-HxCDD	71		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-1,2,3,6,7,8-HxCDD	84		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-1,2,3,4,6,7,8-HpCDD	79		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-OCDD	80		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-2,3,7,8-TCDF	77		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-1,2,3,7,8-PeCDF	68		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-2,3,4,7,8-PeCDF	70		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-1,2,3,4,7,8-HxCDF	83		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-1,2,3,6,7,8-HxCDF	80		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-2,3,4,6,7,8-HxCDF	80		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-1,2,3,7,8,9-HxCDF	79		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-1,2,3,4,6,7,8-HpCDF	82		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-1,2,3,4,7,8,9-HpCDF	80		40 - 135	05/18/23 08:49	06/07/23 13:22	1
13C-OCDF	62		40 - 135	05/18/23 08:49	06/07/23 13:22	1

**Client Sample ID: SUPE-W-06C-042623**

**Lab Sample ID: 180-155743-3**

Date Collected: 04/26/23 12:35

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.7	0.17	pg/L		05/18/23 08:49	06/07/23 14:22	1
Total TCDD	ND		9.7	0.17	pg/L		05/18/23 08:49	06/07/23 14:22	1

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# Client Sample Results

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

Job ID: 180-155743-2

**Client Sample ID: SUPE-W-06C-042623**

**Lab Sample ID: 180-155743-3**

Date Collected: 04/26/23 12:35

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDD	0.43	J I B	48	0.27	pg/L		05/18/23 08:49	06/07/23 14:22	1
<b>Total PeCDD</b>	<b>0.43</b>	<b>J I B</b>	48	0.27	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,4,7,8-HxCDD	1.3	J I B	48	0.16	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,6,7,8-HxCDD	0.92	J I B	48	0.15	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,7,8,9-HxCDD	ND		48	0.15	pg/L		05/18/23 08:49	06/07/23 14:22	1
<b>Total HxCDD</b>	<b>6.0</b>	<b>J I B</b>	48	0.15	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,4,6,7,8-HpCDD	8.3	J B	48	0.98	pg/L		05/18/23 08:49	06/07/23 14:22	1
<b>Total HpCDD</b>	<b>42</b>	<b>J B</b>	48	0.98	pg/L		05/18/23 08:49	06/07/23 14:22	1
OCDD	85	J B	97	0.32	pg/L		05/18/23 08:49	06/07/23 14:22	1
2,3,7,8-TCDF	ND		9.7	0.13	pg/L		05/18/23 08:49	06/07/23 14:22	1
<b>Total TCDF</b>	<b>1.0</b>	<b>J I B</b>	9.7	0.13	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,7,8-PeCDF	1.1	J B	48	0.24	pg/L		05/18/23 08:49	06/07/23 14:22	1
2,3,4,7,8-PeCDF	0.77	J I B	48	0.22	pg/L		05/18/23 08:49	06/07/23 14:22	1
<b>Total PeCDF</b>	<b>2.4</b>	<b>J I B</b>	48	0.23	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,4,7,8-HxCDF	ND		48	0.31	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,6,7,8-HxCDF	1.1	J I	48	0.33	pg/L		05/18/23 08:49	06/07/23 14:22	1
2,3,4,6,7,8-HxCDF	0.96	J I	48	0.33	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,7,8,9-HxCDF	ND		48	0.42	pg/L		05/18/23 08:49	06/07/23 14:22	1
<b>Total HxCDF</b>	<b>3.8</b>	<b>J I</b>	48	0.35	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,4,6,7,8-HpCDF	1.4	J I B	48	0.16	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,4,7,8,9-HpCDF	ND		48	0.22	pg/L		05/18/23 08:49	06/07/23 14:22	1
<b>Total HpCDF</b>	<b>3.7</b>	<b>J I B</b>	48	0.19	pg/L		05/18/23 08:49	06/07/23 14:22	1
OCDF	4.2	J B	97	0.32	pg/L		05/18/23 08:49	06/07/23 14:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	55		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,7,8-PeCDD	51		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,4,7,8-HxCDD	53		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,6,7,8-HxCDD	62		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,4,6,7,8-HpCDD	61		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-OCDD	62		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-2,3,7,8-TCDF	57		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,7,8-PeCDF	53		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-2,3,4,7,8-PeCDF	54		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,4,7,8-HxCDF	62		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,6,7,8-HxCDF	58		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-2,3,4,6,7,8-HxCDF	61		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,7,8,9-HxCDF	59		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,4,6,7,8-HpCDF	65		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,4,7,8,9-HpCDF	60		40 - 135	05/18/23 08:49	06/07/23 14:22	1
13C-OCDF	48		40 - 135	05/18/23 08:49	06/07/23 14:22	1

**Client Sample ID: SUPE-W-30C-042623**

**Lab Sample ID: 180-155743-4**

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.20	J I	9.5	0.091	pg/L		05/18/23 08:49	06/07/23 15:21	1
<b>Total TCDD</b>	<b>0.60</b>	<b>J I B</b>	9.5	0.091	pg/L		05/18/23 08:49	06/07/23 15:21	1
1,2,3,7,8-PeCDD	ND		48	0.25	pg/L		05/18/23 08:49	06/07/23 15:21	1

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# Client Sample Results

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

Job ID: 180-155743-2

**Client Sample ID: SUPE-W-30C-042623**

**Lab Sample ID: 180-155743-4**

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PeCDD	ND		48	0.25	pg/L		05/18/23 08:49	06/07/23 15:21	1
1,2,3,4,7,8-HxCDD	1.4	J B	48	0.13	pg/L		05/18/23 08:49	06/07/23 15:21	1
1,2,3,6,7,8-HxCDD	0.58	J I B	48	0.12	pg/L		05/18/23 08:49	06/07/23 15:21	1
1,2,3,7,8,9-HxCDD	0.44	J	48	0.12	pg/L		05/18/23 08:49	06/07/23 15:21	1
Total HxCDD	5.4	J I B	48	0.12	pg/L		05/18/23 08:49	06/07/23 15:21	1
1,2,3,4,6,7,8-HpCDD	12	J I B	48	0.30	pg/L		05/18/23 08:49	06/07/23 15:21	1
Total HpCDD	25	J I B	48	0.30	pg/L		05/18/23 08:49	06/07/23 15:21	1
OCDD	62	J B	95	0.14	pg/L		05/18/23 08:49	06/07/23 15:21	1
2,3,7,8-TCDF	ND		9.5	0.12	pg/L		05/18/23 08:49	06/07/23 15:21	1
Total TCDF	11	I B	9.5	0.12	pg/L		05/18/23 08:49	06/07/23 15:21	1
1,2,3,7,8-PeCDF	0.64	J I B	48	0.18	pg/L		05/18/23 08:49	06/07/23 15:21	1
2,3,4,7,8-PeCDF	0.63	J I B	48	0.16	pg/L		05/18/23 08:49	06/07/23 15:21	1
Total PeCDF	4.3	J I B	48	0.17	pg/L		05/18/23 08:49	06/07/23 15:21	1
1,2,3,4,7,8-HxCDF	ND		48	0.41	pg/L		05/18/23 08:49	06/07/23 15:21	1
1,2,3,6,7,8-HxCDF	ND		48	0.44	pg/L		05/18/23 08:49	06/07/23 15:21	1
2,3,4,6,7,8-HxCDF	ND		48	0.47	pg/L		05/18/23 08:49	06/07/23 15:21	1
1,2,3,7,8,9-HxCDF	ND		48	0.55	pg/L		05/18/23 08:49	06/07/23 15:21	1
Total HxCDF	5.8	J I	48	0.47	pg/L		05/18/23 08:49	06/07/23 15:21	1
1,2,3,4,6,7,8-HpCDF	2.5	J I B	48	0.093	pg/L		05/18/23 08:49	06/07/23 15:21	1
1,2,3,4,7,8,9-HpCDF	1.1	J I B	48	0.13	pg/L		05/18/23 08:49	06/07/23 15:21	1
Total HpCDF	9.2	J I B	48	0.11	pg/L		05/18/23 08:49	06/07/23 15:21	1
OCDF	6.2	J I B	95	0.70	pg/L		05/18/23 08:49	06/07/23 15:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	66		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-1,2,3,7,8-PeCDD	61		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-1,2,3,4,7,8-HxCDD	63		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-1,2,3,6,7,8-HxCDD	78		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-1,2,3,4,6,7,8-HpCDD	76		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-OCDD	76		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-2,3,7,8-TCDF	71		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-1,2,3,7,8-PeCDF	66		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-2,3,4,7,8-PeCDF	65		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-1,2,3,4,7,8-HxCDF	76		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-1,2,3,6,7,8-HxCDF	72		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-2,3,4,6,7,8-HxCDF	74		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-1,2,3,7,8,9-HxCDF	73		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-1,2,3,4,6,7,8-HpCDF	79		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-1,2,3,4,7,8,9-HpCDF	73		40 - 135	05/18/23 08:49	06/07/23 15:21	1
13C-OCDF	60		40 - 135	05/18/23 08:49	06/07/23 15:21	1

**Client Sample ID: SUPE-W-06A-042623**

**Lab Sample ID: 180-155743-6**

Date Collected: 04/26/23 11:25

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.21	J I	10	0.15	pg/L		05/18/23 08:49	06/07/23 16:21	1
Total TCDD	0.21	J I B	10	0.15	pg/L		05/18/23 08:49	06/07/23 16:21	1
1,2,3,7,8-PeCDD	0.50	J I B	51	0.082	pg/L		05/18/23 08:49	06/07/23 16:21	1
Total PeCDD	0.50	J I B	51	0.082	pg/L		05/18/23 08:49	06/07/23 16:21	1

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# Client Sample Results

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

Job ID: 180-155743-2

**Client Sample ID: SUPE-W-06A-042623**

**Lab Sample ID: 180-155743-6**

Date Collected: 04/26/23 11:25

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDD	1.4	J B	51	0.19	pg/L		05/18/23 08:49	06/07/23 16:21	1
1,2,3,6,7,8-HxCDD	0.76	J I B	51	0.16	pg/L		05/18/23 08:49	06/07/23 16:21	1
1,2,3,7,8,9-HxCDD	0.54	J I	51	0.17	pg/L		05/18/23 08:49	06/07/23 16:21	1
Total HxCDD	6.5	J I B	51	0.17	pg/L		05/18/23 08:49	06/07/23 16:21	1
1,2,3,4,6,7,8-HpCDD	13	J B	51	0.43	pg/L		05/18/23 08:49	06/07/23 16:21	1
Total HpCDD	38	J B	51	0.43	pg/L		05/18/23 08:49	06/07/23 16:21	1
OCDD	110	B	100	0.14	pg/L		05/18/23 08:49	06/07/23 16:21	1
2,3,7,8-TCDF	0.19	J I B	10	0.12	pg/L		05/18/23 08:49	06/07/23 16:21	1
Total TCDF	0.75	J I B	10	0.12	pg/L		05/18/23 08:49	06/07/23 16:21	1
1,2,3,7,8-PeCDF	ND		51	0.22	pg/L		05/18/23 08:49	06/07/23 16:21	1
2,3,4,7,8-PeCDF	0.51	J I B	51	0.20	pg/L		05/18/23 08:49	06/07/23 16:21	1
Total PeCDF	2.3	J I B	51	0.21	pg/L		05/18/23 08:49	06/07/23 16:21	1
1,2,3,4,7,8-HxCDF	0.90	J I	51	0.29	pg/L		05/18/23 08:49	06/07/23 16:21	1
1,2,3,6,7,8-HxCDF	0.88	J I	51	0.30	pg/L		05/18/23 08:49	06/07/23 16:21	1
2,3,4,6,7,8-HxCDF	0.55	J I	51	0.31	pg/L		05/18/23 08:49	06/07/23 16:21	1
1,2,3,7,8,9-HxCDF	0.40	J I	51	0.38	pg/L		05/18/23 08:49	06/07/23 16:21	1
Total HxCDF	11	J I	51	0.32	pg/L		05/18/23 08:49	06/07/23 16:21	1
1,2,3,4,6,7,8-HpCDF	3.1	J B	51	0.21	pg/L		05/18/23 08:49	06/07/23 16:21	1
1,2,3,4,7,8,9-HpCDF	0.60	J I B	51	0.28	pg/L		05/18/23 08:49	06/07/23 16:21	1
Total HpCDF	8.4	J I B	51	0.25	pg/L		05/18/23 08:49	06/07/23 16:21	1
OCDF	8.4	J I B	100	0.14	pg/L		05/18/23 08:49	06/07/23 16:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	69		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-1,2,3,7,8-PeCDD	63		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-1,2,3,4,7,8-HxCDD	67		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-1,2,3,6,7,8-HxCDD	80		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-1,2,3,4,6,7,8-HpCDD	77		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-OCDD	78		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-2,3,7,8-TCDF	73		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-1,2,3,7,8-PeCDF	68		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-2,3,4,7,8-PeCDF	69		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-1,2,3,4,7,8-HxCDF	76		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-1,2,3,6,7,8-HxCDF	76		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-2,3,4,6,7,8-HxCDF	76		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-1,2,3,7,8,9-HxCDF	76		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-1,2,3,4,6,7,8-HpCDF	80		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-1,2,3,4,7,8,9-HpCDF	76		40 - 135	05/18/23 08:49	06/07/23 16:21	1
13C-OCDF	60		40 - 135	05/18/23 08:49	06/07/23 16:21	1

**Client Sample ID: SUPE-W-12CR-042623**

**Lab Sample ID: 180-155743-7**

Date Collected: 04/26/23 15:15

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.26	J	11	0.13	pg/L		05/18/23 08:49	06/07/23 17:21	1
Total TCDD	0.26	J B	11	0.13	pg/L		05/18/23 08:49	06/07/23 17:21	1
1,2,3,7,8-PeCDD	0.37	J I B	53	0.13	pg/L		05/18/23 08:49	06/07/23 17:21	1
Total PeCDD	0.37	J I B	53	0.13	pg/L		05/18/23 08:49	06/07/23 17:21	1
1,2,3,4,7,8-HxCDD	0.98	J I B	53	0.19	pg/L		05/18/23 08:49	06/07/23 17:21	1

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# Client Sample Results

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

Job ID: 180-155743-2

**Client Sample ID: SUPE-W-12CR-042623**

**Lab Sample ID: 180-155743-7**

Date Collected: 04/26/23 15:15

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDD	ND		53	0.17	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>1,2,3,7,8,9-HxCDD</b>	<b>0.35</b>	<b>J I</b>	53	0.17	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>Total HxCDD</b>	<b>2.6</b>	<b>J I B</b>	53	0.18	pg/L		05/18/23 08:49	06/07/23 17:21	1
1,2,3,4,6,7,8-HpCDD	ND		53	0.24	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>Total HpCDD</b>	<b>4.0</b>	<b>J I B</b>	53	0.24	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>OCDD</b>	<b>12</b>	<b>J B</b>	110	0.16	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>2,3,7,8-TCDF</b>	<b>0.20</b>	<b>J I B</b>	11	0.12	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>Total TCDF</b>	<b>0.80</b>	<b>J I B</b>	11	0.12	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>1,2,3,7,8-PeCDF</b>	<b>0.55</b>	<b>J I B</b>	53	0.15	pg/L		05/18/23 08:49	06/07/23 17:21	1
2,3,4,7,8-PeCDF	ND		53	0.13	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>Total PeCDF</b>	<b>0.55</b>	<b>J I B</b>	53	0.14	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>1,2,3,4,7,8-HxCDF</b>	<b>0.82</b>	<b>J I</b>	53	0.12	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>1,2,3,6,7,8-HxCDF</b>	<b>0.87</b>	<b>J I</b>	53	0.13	pg/L		05/18/23 08:49	06/07/23 17:21	1
2,3,4,6,7,8-HxCDF	ND		53	0.14	pg/L		05/18/23 08:49	06/07/23 17:21	1
1,2,3,7,8,9-HxCDF	ND		53	0.17	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>Total HxCDF</b>	<b>1.7</b>	<b>J I</b>	53	0.14	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>0.70</b>	<b>J I B</b>	53	0.19	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>0.28</b>	<b>J I B</b>	53	0.26	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>Total HpCDF</b>	<b>0.98</b>	<b>J I B</b>	53	0.23	pg/L		05/18/23 08:49	06/07/23 17:21	1
<b>OCDF</b>	<b>1.2</b>	<b>J B</b>	110	0.11	pg/L		05/18/23 08:49	06/07/23 17:21	1

Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	72		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-1,2,3,7,8-PeCDD	68		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-1,2,3,4,7,8-HxCDD	74		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-1,2,3,6,7,8-HxCDD	85		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-1,2,3,4,6,7,8-HpCDD	83		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-OCDD	84		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-2,3,7,8-TCDF	74		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-1,2,3,7,8-PeCDF	70		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-2,3,4,7,8-PeCDF	71		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-1,2,3,4,7,8-HxCDF	85		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-1,2,3,6,7,8-HxCDF	81		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-2,3,4,6,7,8-HxCDF	81		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-1,2,3,7,8,9-HxCDF	81		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-1,2,3,4,6,7,8-HpCDF	86		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-1,2,3,4,7,8,9-HpCDF	82		40 - 135			05/18/23 08:49	06/07/23 17:21	1
13C-OCDF	65		40 - 135			05/18/23 08:49	06/07/23 17:21	1

**Client Sample ID: SUPE-EB-01-042623**

**Lab Sample ID: 180-155743-8**

Date Collected: 04/26/23 15:40

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.6	0.15	pg/L		05/18/23 08:49	06/07/23 18:21	1
<b>Total TCDD</b>	<b>0.48</b>	<b>J I B</b>	9.6	0.15	pg/L		05/18/23 08:49	06/07/23 18:21	1
<b>1,2,3,7,8-PeCDD</b>	<b>0.42</b>	<b>J B</b>	48	0.12	pg/L		05/18/23 08:49	06/07/23 18:21	1
<b>Total PeCDD</b>	<b>0.42</b>	<b>J B</b>	48	0.12	pg/L		05/18/23 08:49	06/07/23 18:21	1
<b>1,2,3,4,7,8-HxCDD</b>	<b>1.0</b>	<b>J B</b>	48	0.17	pg/L		05/18/23 08:49	06/07/23 18:21	1
<b>1,2,3,6,7,8-HxCDD</b>	<b>0.26</b>	<b>J I B</b>	48	0.17	pg/L		05/18/23 08:49	06/07/23 18:21	1

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# Client Sample Results

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

Job ID: 180-155743-2

**Client Sample ID: SUPE-EB-01-042623**

**Lab Sample ID: 180-155743-8**

Date Collected: 04/26/23 15:40

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-HxCDD	ND		48	0.16	pg/L		05/18/23 08:49	06/07/23 18:21	1
<b>Total HxCDD</b>	<b>1.3</b>	<b>J I B</b>	48	0.17	pg/L		05/18/23 08:49	06/07/23 18:21	1
1,2,3,4,6,7,8-HpCDD	ND		48	0.67	pg/L		05/18/23 08:49	06/07/23 18:21	1
Total HpCDD	ND		48	0.67	pg/L		05/18/23 08:49	06/07/23 18:21	1
<b>OCDD</b>	<b>2.9</b>	<b>J I B</b>	96	0.19	pg/L		05/18/23 08:49	06/07/23 18:21	1
2,3,7,8-TCDF	ND		9.6	0.079	pg/L		05/18/23 08:49	06/07/23 18:21	1
<b>Total TCDF</b>	<b>0.29</b>	<b>J I B</b>	9.6	0.079	pg/L		05/18/23 08:49	06/07/23 18:21	1
<b>1,2,3,7,8-PeCDF</b>	<b>0.24</b>	<b>J I B</b>	48	0.14	pg/L		05/18/23 08:49	06/07/23 18:21	1
2,3,4,7,8-PeCDF	ND		48	0.12	pg/L		05/18/23 08:49	06/07/23 18:21	1
<b>Total PeCDF</b>	<b>0.24</b>	<b>J I B</b>	48	0.13	pg/L		05/18/23 08:49	06/07/23 18:21	1
1,2,3,4,7,8-HxCDF	ND		48	0.15	pg/L		05/18/23 08:49	06/07/23 18:21	1
1,2,3,6,7,8-HxCDF	ND		48	0.16	pg/L		05/18/23 08:49	06/07/23 18:21	1
2,3,4,6,7,8-HxCDF	ND		48	0.17	pg/L		05/18/23 08:49	06/07/23 18:21	1
1,2,3,7,8,9-HxCDF	ND		48	0.20	pg/L		05/18/23 08:49	06/07/23 18:21	1
Total HxCDF	ND		48	0.20	pg/L		05/18/23 08:49	06/07/23 18:21	1
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>0.36</b>	<b>J I B</b>	48	0.17	pg/L		05/18/23 08:49	06/07/23 18:21	1
1,2,3,4,7,8,9-HpCDF	ND		48	0.22	pg/L		05/18/23 08:49	06/07/23 18:21	1
<b>Total HpCDF</b>	<b>0.56</b>	<b>J I B</b>	48	0.20	pg/L		05/18/23 08:49	06/07/23 18:21	1
<b>OCDF</b>	<b>0.33</b>	<b>J I B</b>	96	0.22	pg/L		05/18/23 08:49	06/07/23 18:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	72		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-1,2,3,7,8-PeCDD	67		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-1,2,3,4,7,8-HxCDD	70		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-1,2,3,6,7,8-HxCDD	83		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-1,2,3,4,6,7,8-HpCDD	80		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-OCDD	81		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-2,3,7,8-TCDF	73		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-1,2,3,7,8-PeCDF	69		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-2,3,4,7,8-PeCDF	72		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-1,2,3,4,7,8-HxCDF	80		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-1,2,3,6,7,8-HxCDF	80		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-2,3,4,6,7,8-HxCDF	79		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-1,2,3,7,8,9-HxCDF	80		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-1,2,3,4,6,7,8-HpCDF	80		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-1,2,3,4,7,8,9-HpCDF	78		40 - 135	05/18/23 08:49	06/07/23 18:21	1
13C-OCDF	62		40 - 135	05/18/23 08:49	06/07/23 18:21	1

# QC Sample Results

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

Job ID: 180-155743-2

## Method: 8290A - Dioxins and Furans (HRGC/HRMS)

**Lab Sample ID: MB 140-73375/19-A**  
**Matrix: Water**  
**Analysis Batch: 74037**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 73375**

Analyte	MB	MB	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	ND		10	0.13	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total TCDD	0.171	J I	10	0.13	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,7,8-PeCDD	0.661	J	50	0.13	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total PeCDD	0.661	J	50	0.13	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,4,7,8-HxCDD	1.55	J I	50	0.23	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,6,7,8-HxCDD	0.362	J	50	0.21	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,7,8,9-HxCDD	ND		50	0.21	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total HxCDD	2.36	J I	50	0.22	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,4,6,7,8-HpCDD	2.00	J I	50	0.47	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total HpCDD	2.00	J I	50	0.47	pg/L		05/19/23 08:35	06/07/23 06:14	1
OCDD	3.23	J	100	0.23	pg/L		05/19/23 08:35	06/07/23 06:14	1
2,3,7,8-TCDF	0.255	J I	10	0.12	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total TCDF	3.72	J I	10	0.12	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,7,8-PeCDF	0.920	J I	50	0.13	pg/L		05/19/23 08:35	06/07/23 06:14	1
2,3,4,7,8-PeCDF	1.13	J	50	0.12	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total PeCDF	3.32	J I	50	0.12	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,4,7,8-HxCDF	ND		50	0.23	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,6,7,8-HxCDF	ND		50	0.25	pg/L		05/19/23 08:35	06/07/23 06:14	1
2,3,4,6,7,8-HxCDF	ND		50	0.26	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,7,8,9-HxCDF	ND		50	0.33	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total HxCDF	ND		50	0.33	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,4,6,7,8-HpCDF	0.866	J I	50	0.18	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,4,7,8,9-HpCDF	0.635	J I	50	0.23	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total HpCDF	1.96	J I	50	0.21	pg/L		05/19/23 08:35	06/07/23 06:14	1
OCDF	1.50	J I	100	0.19	pg/L		05/19/23 08:35	06/07/23 06:14	1
	<b>MB</b>	<b>MB</b>							
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C-2,3,7,8-TCDD	65		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,7,8-PeCDD	62		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,4,7,8-HxCDD	71		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,6,7,8-HxCDD	82		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,4,6,7,8-HpCDD	81		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-OCDD	83		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-2,3,7,8-TCDF	66		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,7,8-PeCDF	64		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-2,3,4,7,8-PeCDF	66		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,4,7,8-HxCDF	81		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,6,7,8-HxCDF	78		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-2,3,4,6,7,8-HxCDF	79		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,7,8,9-HxCDF	76		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,4,6,7,8-HpCDF	82		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,4,7,8,9-HpCDF	79		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-OCDF	74		40 - 135				05/19/23 08:35	06/07/23 06:14	1

# QC Sample Results

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

Job ID: 180-155743-2

## Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

**Lab Sample ID: LCS 140-73375/18-A**  
**Matrix: Water**  
**Analysis Batch: 74037**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 73375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDD	200	187		pg/L		93	77 - 127
1,2,3,7,8-PeCDD	1000	1010		pg/L		101	78 - 128
1,2,3,4,7,8-HxCDD	1000	1000		pg/L		100	73 - 123
1,2,3,6,7,8-HxCDD	1000	935		pg/L		93	72 - 127
1,2,3,7,8,9-HxCDD	1000	1010		pg/L		101	76 - 126
1,2,3,4,6,7,8-HpCDD	1000	964		pg/L		96	73 - 123
OCDD	2000	1930		pg/L		97	75 - 125
2,3,7,8-TCDF	200	190		pg/L		95	74 - 124
1,2,3,7,8-PeCDF	1000	1020		pg/L		102	74 - 124
2,3,4,7,8-PeCDF	1000	1020		pg/L		102	74 - 124
1,2,3,4,7,8-HxCDF	1000	865		pg/L		87	75 - 125
1,2,3,6,7,8-HxCDF	1000	932		pg/L		93	75 - 125
2,3,4,6,7,8-HxCDF	1000	949		pg/L		95	76 - 126
1,2,3,7,8,9-HxCDF	1000	929		pg/L		93	76 - 126
1,2,3,4,6,7,8-HpCDF	1000	920		pg/L		92	71 - 121
1,2,3,4,7,8,9-HpCDF	1000	972		pg/L		97	73 - 123
OCDF	2000	1940		pg/L		97	68 - 132

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-2,3,7,8-TCDD	64		40 - 135
13C-1,2,3,7,8-PeCDD	65		40 - 135
13C-1,2,3,4,7,8-HxCDD	71		40 - 135
13C-1,2,3,6,7,8-HxCDD	76		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	81		40 - 135
13C-OCDD	85		40 - 135
13C-2,3,7,8-TCDF	65		40 - 135
13C-1,2,3,7,8-PeCDF	63		40 - 135
13C-2,3,4,7,8-PeCDF	67		40 - 135
13C-1,2,3,4,7,8-HxCDF	79		40 - 135
13C-1,2,3,6,7,8-HxCDF	73		40 - 135
13C-2,3,4,6,7,8-HxCDF	76		40 - 135
13C-1,2,3,7,8,9-HxCDF	75		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	82		40 - 135
13C-1,2,3,4,7,8,9-HpCDF	81		40 - 135
13C-OCDF	80		40 - 135

# QC Association Summary

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

Job ID: 180-155743-2

## Specialty Organics

### Prep Batch: 73375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155743-1	SUPE-W-99A-042623	Total/NA	Water	8290	
180-155743-2	SUPE-W-28C-042623	Total/NA	Water	8290	
180-155743-3	SUPE-W-06C-042623	Total/NA	Water	8290	
180-155743-4	SUPE-W-30C-042623	Total/NA	Water	8290	
180-155743-6	SUPE-W-06A-042623	Total/NA	Water	8290	
180-155743-7	SUPE-W-12CR-042623	Total/NA	Water	8290	
180-155743-8	SUPE-EB-01-042623	Total/NA	Water	8290	
MB 140-73375/19-A	Method Blank	Total/NA	Water	8290	
LCS 140-73375/18-A	Lab Control Sample	Total/NA	Water	8290	

### Analysis Batch: 74037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 140-73375/19-A	Method Blank	Total/NA	Water	8290A	73375
LCS 140-73375/18-A	Lab Control Sample	Total/NA	Water	8290A	73375

### Analysis Batch: 74060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155743-1	SUPE-W-99A-042623	Total/NA	Water	8290A	73375
180-155743-2	SUPE-W-28C-042623	Total/NA	Water	8290A	73375
180-155743-3	SUPE-W-06C-042623	Total/NA	Water	8290A	73375
180-155743-4	SUPE-W-30C-042623	Total/NA	Water	8290A	73375
180-155743-6	SUPE-W-06A-042623	Total/NA	Water	8290A	73375
180-155743-7	SUPE-W-12CR-042623	Total/NA	Water	8290A	73375
180-155743-8	SUPE-EB-01-042623	Total/NA	Water	8290A	73375



Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF # 502071



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 - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TACHI  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	Total Bottle Count		Notes:
						None	8270D_SVOC (less naphtha) (Chicago)	
04/26/2023	1125	GW	SUPE-W-06A-042623	2	None	2		
04/26/2023	1515	GW	SUPE-W-12CR-042623	2	None	2		
04/26/2023	1540	GW	SUPE-EB-01-042623	2	None	2		



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS	Signature: <i>Keenya Rucker</i> Printed Name: Keenya Rucker Firm: FTS	Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS	Signature: <i>Keenya Rucker</i> Printed Name: Keenya Rucker Firm: FTS	<input type="checkbox"/> Rush  <input checked="" type="checkbox"/> Standard
Date/Time: 04/26/2023 1704	Date/Time: 4-28-23 0910	Date/Time: 4-28-23 0910	Date/Time: 4-28-23 0910	





Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502073



Client: Beazer East, Inc.  
Contact: mferfick.2006@fts.com

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TAKNOX  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					8290 Dioxins/Furans (Knoxville) (TL)	None		
04/26/2023	1125	GW	SUPE-W-06A-042623	2			2	
04/26/2023	1515	GW	SUPE-W-12CR-042623	2			2	
04/26/2023	1540	GW	SUPE-EB-01-042623	2			2	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS	Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS	Signature: _____ Printed Name: _____ Firm: _____	Signature: _____ Printed Name: _____ Firm: _____	<input type="checkbox"/> Rush  <input checked="" type="checkbox"/> Standard
Date/Time: 04/26/2023 1704	Date/Time: 04-28-23 0910	Date/Time: _____	Date/Time: _____	





Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502078



Project Name: Superior, WI - 2023 OM&M Program  
 Project Number: OM-0556-23  
 Laboratory: TACHI  
 Shipment Method: FEDEX  
 Program: Superior 2023 1SA Sampling\_001

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count		Notes:
					8270D_SVOC (less naphtha) (Chicago)	None	8270D_SVOC+naphtha (Chicago) (250ml)	None	
04/26/2023	0830	GW	SUPE-W-99A-042623		2	0			
04/26/2023	1038	GW	SUPE-W-28C-042623		2	0			
04/26/2023	1235	GW	SUPE-W-06C-042623		2	0			
04/26/2023	1442	GW	SUPE-W-30C-042623		2	0			
04/26/2023	1615	GW	SUPE-W-18D-042623		2	0	2		

Relinquished by: <i>Shane Lindquist</i>	Received by:	Signature: <i>Shane Lindquist</i>	Received by:	Signature:	Turnaround Requirements
	Printed Name: Shane Lindquist	Printed Name: <i>Shane Lindquist</i>	Printed Name:	Printed Name:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Firm: FTS	Firm: FTS	Firm:	Firm:	Firm:	
Date/Time: 04/26/2023 1700	Date/Time: 4-28-23 0910	Date/Time:	Date/Time:	Date/Time:	



Ref 210211

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502080



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

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TAKNOX  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					8290 Dioxins/Furans (Knoxville) (TL)	None		
04/26/2023	0830	GW	SUPE-W-99A-042623	2			2	
04/26/2023	1038	GW	SUPE-W-28C-042623	2			2	
04/26/2023	1235	GW	SUPE-W-06C-042623	2			2	
04/26/2023	1442	GW	SUPE-W-30C-042623	2			2	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Shane Lindquist</i> Printed Name: Shane Lindquist Firm: FTS	Signature: <i>Keegan Ruck</i> Printed Name: Keegan Ruck Firm: F.P. HARTZ	Signature: Printed Name: Firm:	Signature: Printed Name: Firm:	<input type="checkbox"/> Rush  <input checked="" type="checkbox"/> Standard
Date/Time: 04/26/2023 1701	Date/Time: 4-28-23 0910	Date/Time:	Date/Time:	





Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502072



Client: Beazer East, Inc.  
Contact: mferrick.2006@fts.com

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TABUF  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					HCL	None		
04/26/2023	1125	GW	SUPE-W-06A-042623	8260C_VOA+naphtha (Buffalo)	None	3	3	
04/26/2023	1515	GW	SUPE-W-12CR-042623	8270D_LL_PCP (Buffalo) (TL)	None	3	3	
04/26/2023	1540	GW	SUPE-EB-01-042623	8270D_LL_PCP (Buffalo) (TL)	None	3	3	

Relinquished by: <i>Marie Ferrick</i>	Received by: <i>Keenan Rush</i>	Relinquished by: Signature: <i>Keenan Rush</i> Printed Name: Keenan Rush Firm Elite	Received by: Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm FTS	Turnaround Requirements: <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Date/Time: 04/26/2023 1704	Date/Time: 4-27-23 0910	Date/Time:	Date/Time:	





Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502079



**Project Name:** Superior, WI - 2023 OM&M Program  
**Project Number:** OM-0556-23  
**Laboratory:** TABUF  
**Shipment Method:** FEDEX  
**Program:** Superior 2023 1SA Sampling\_001

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

**Client:** Beazer East, Inc.  
**Contact:** slindquist.2006@fts.com

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					HCL (Butfalo)	None (Butfalo) (1L)		
04/26/2023	0830	GW	SUPE-W-99A-042623		3	3	6	
04/26/2023	1038	GW	SUPE-W-28C-042623		3	3	6	
04/26/2023	1235	GW	SUPE-W-06C-042623		3	3	6	
04/26/2023	1442	GW	SUPE-W-30C-042623		3	3	6	
04/26/2023	1615	GW	SUPE-W-18D-042623		0	3	3	

<b>Relinquished by:</b>  Printed Name: Shane Lindquist Firm: FTS	<b>Received by:</b>  Printed Name: Keenya Ruhn Firm: ELIANT	<b>Relinquished by:</b> Signature: Printed Name: Firm:	<b>Received by:</b> Signature: Printed Name: Firm:	<b>Turnaround Requirements:</b> <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
<b>Date/Time:</b> 04/26/2023 1701	<b>Date/Time:</b> 4-28-23 0901	<b>Date/Time:</b>	<b>Date/Time:</b>	



ORIGIN ID:AGCA  
STEVEN WILLIS  
KUPPERS INC RAILROAD  
3185 SOUTH COUNTRY RD

RT 198  
FZ 197

04.26

1803/CAFE3.21

SUPERIOR, WI 54880  
UNITED STATES US

TO SHIPPING / RECEIVING  
EUROFINS ENVIRONMENT TESTING NE LLC  
301 ALPHA DRIVE

PITTSBURGH PA 152382907

(412) 963-7068

REF:

INVT:

DEPT:

RMA

Uncorrected temp

Thermometer ID 33 17

CF 0 Initials JD

PT-WI-SR-001 effective 11/8/18

FedEx  
Express



FedEx

TRK# 0221 6426 1927 2002

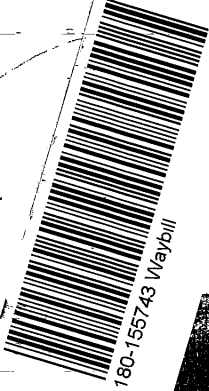
FRI - 28 APR 10:30A  
PRIORITY OVERNIGHT

XN AGCA

15238  
PA-US PIT



#5115555 04/27 583J3/78CF/FE2D



180-155743 Waybill

N.O CHAIN

UKRUTN. WI-AGCA (218) 391-0409  
STLVN WILLIS  
KOPPERS INC RAILROAD PRODUCTS & SER  
3185 SOUTH COUNTRY ROAD, A

SHIP DATE: 15APR23  
ACTWGT: 30.00 LB MAN  
CAD: 0551803/CAFE3621

Part # 5496234 ARW/ESR30124

SUPERIOR, WI 54880  
UNITED STATES US

TO SHIPPING / RECEIVING

EUROFINS ENVIRONMENT TESTING NE LLC  
301 ALPHA DRIVE

PITTSBURGH PA 152382907

(412) 963-7058

REF:

PO:

DEPT:

RM Uncorrected temp  
Thermometer ID 3.1

CF 0 Initials JD

PT-WI-SR-001 effective 11/8/18

FedEx  
Express



AN 1890902020227

FedEx

TRK# 0221 6426 1927 2013

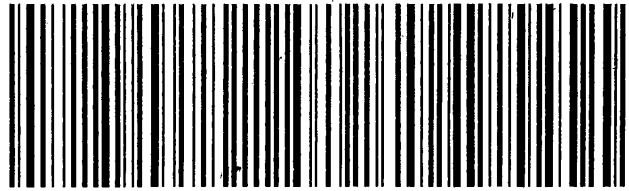
FRI - 28 APR 10:30A  
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US

PI



W5115555 04/27 583J3/78CF/FE2D

15238-4011022 EXP 08/22

ORIGIN ID: AGCA (412) 563-7020  
ORIGIN ID: AGCA (218) 591-0409  
STEVEN WILLIS  
KOPPERS INC RAILROAD PRODUCTS & SER  
3165 SOUTH COUNTRY ROAD A

SHIP DATE: 17 APR 23  
SHIP DATE: 15 APR 23  
ACTWGT: 30.00 LB MAN  
CAD: 0551803/CAFE3621

POSTRIOR, WI 54880  
UNITED STATES US

10 SHIPPING / RECEIVING  
EUROFINS ENVIRONMENT TESTING NE LLC  
301 ALPHA DRIVE

PITTSBURGH PA 152382907

(412) 963-7058

REF:

INV:

PO:

DEPT:

RMA: 

Uncorrected temp

Thermometer ID 38

17

CF 0

Initials JD

PT-WI-SR-001 effective 11/8/18

FedEx  
Express



Alt. 08080228282728  
10109090200228

FedEx

TRK#

0221

6426 1927 1999

FRI - 28 APR 10:30A  
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US

PI



#5115555 04/27 583J3/78CF/FE2D

# Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-155743-2

**Login Number: 155743**

**List Source: Eurofins Pittsburgh**

**List Number: 1**

**Creator: Abernathy, Eric L**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ms. Angie Gatchie  
Field & Technical Services LLC  
200 Third Avenue  
Carnegie, Pennsylvania 15106

Generated 5/19/2023 3:38:29 PM

## JOB DESCRIPTION

Superior, WI Semiannual Groundwater

## JOB NUMBER

180-155744-1

# Eurofins Pittsburgh

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

## Authorization



Generated  
5/19/2023 3:38:29 PM

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



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# Case Narrative

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

Job ID: 180-155744-1

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## Job ID: 180-155744-1

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### Laboratory: Eurofins Pittsburgh

#### Narrative

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#### Job Narrative 180-155744-1

#### Receipt

The samples were received on 4/28/2023 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.1°C and 4.6°C

#### GC/MS VOA

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: SUPE-W-30A-042723 (180-155744-5). 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.

#### GC/MS Semi VOA

Method 8270E\_LL: The continuing calibration verification (CCV) associated with batch 180-434343 recovered above the upper control limit for 2,3,5,6-Tetrachlorophenol, Bis(2-chloroethoxy)methane and Pentachlorophenol. 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 180-434343/3).

Method 8270E\_LL: The laboratory control sample (LCS) for preparation batch 180-434154 and analytical batch 180-434343 recovered outside control limits for the following analyte: Di-n-octyl phthalate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8270E\_LL: The continuing calibration verification (CCV) associated with batch 180-434450 recovered above the upper control limit for 2,3,5,6-Tetrachlorophenol, 2-Nitroaniline and Bis(2-chloroethoxy)methane. 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 180-434450/3).

Method 8270E\_LL: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SUPE-EB-02-042723 (180-155744-4). Percent recoveries are based on the amount spiked.

Method 8270E\_LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: SUPE-W-10AR2-042723 (180-155744-6). Elevated reporting limits (RLs) are provided.

Method 8270D\_LL: The following sample was diluted due to color, appearance, and viscosity: SUPE-W-04AR2-042723 (180-155744-1). Elevated reporting limits (RL) are provided.

Method 8270D\_LL: The following samples were diluted due to color, appearance, and viscosity: SUPE-W-30A-042723 (180-155744-5) and SUPE-W-10AR2-042723 (180-155744-6). Elevated reporting limits (RL) are provided.

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: 180-155744-1

## 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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.
□	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: 180-155744-1

## 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: 180-155744-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-155744-1	SUPE-W-04AR2-042723	Water	04/27/23 08:55	04/28/23 09:10
180-155744-2	SUPE-W-99B-042723	Water	04/27/23 10:30	04/28/23 09:10
180-155744-3	SUPE-W-12A-042723	Water	04/27/23 08:44	04/28/23 09:10
180-155744-4	SUPE-EB-02-042723	Water	04/27/23 11:00	04/28/23 09:10
180-155744-5	SUPE-W-30A-042723	Water	04/27/23 11:29	04/28/23 09:10
180-155744-6	SUPE-W-10AR2-042723	Water	04/27/23 14:33	04/28/23 09:10

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# Method Summary

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

Job ID: 180-155744-1

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: 180-155744-1

**Client Sample ID: SUPE-W-04AR2-042723**

**Lab Sample ID: 180-155744-1**

Date Collected: 04/27/23 08:55

Matrix: Water

Date Received: 04/28/23 09:10

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	667627	05/01/23 16:38	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			1050 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	668191	05/04/23 19:47	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			300 mL	250 uL	434154	05/03/23 14:11	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434343	05/05/23 19:00	VVP	EET PIT
Instrument ID: CH71										

**Client Sample ID: SUPE-W-99B-042723**

**Lab Sample ID: 180-155744-2**

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

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	667627	05/01/23 17:00	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			970 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 20:15	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			290 mL	250 uL	434154	05/03/23 14:11	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434343	05/05/23 19:22	VVP	EET PIT
Instrument ID: CH71										

**Client Sample ID: SUPE-W-12A-042723**

**Lab Sample ID: 180-155744-3**

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

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	667627	05/01/23 17:22	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			970 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 20:43	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			290 mL	250 uL	434154	05/03/23 14:11	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434450	05/06/23 19:42	VVP	EET PIT
Instrument ID: CH71										

**Client Sample ID: SUPE-EB-02-042723**

**Lab Sample ID: 180-155744-4**

Date Collected: 04/27/23 11:00

Matrix: Water

Date Received: 04/28/23 09:10

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	667627	05/01/23 17:45	CDC	EET BUF
Instrument ID: HP5977K										

# Lab Chronicle

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-EB-02-042723**

**Lab Sample ID: 180-155744-4**

**Date Collected: 04/27/23 11:00**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1050 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 21:10	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			300 mL	250 uL	434154	05/03/23 14:11	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434450	05/06/23 20:04	VVP	EET PIT
Instrument ID: CH71										

**Client Sample ID: SUPE-W-30A-042723**

**Lab Sample ID: 180-155744-5**

**Date Collected: 04/27/23 11:29**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	5 mL	5 mL	667627	05/01/23 18:07	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			940 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	668304	05/05/23 12:26	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			300 mL	250 uL	434154	05/03/23 14:11	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434450	05/06/23 20:26	VVP	EET PIT
Instrument ID: CH71										

**Client Sample ID: SUPE-W-10AR2-042723**

**Lab Sample ID: 180-155744-6**

**Date Collected: 04/27/23 14:33**

**Matrix: Water**

**Date Received: 04/28/23 09:10**

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	667627	05/01/23 18:29	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			950 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	668304	05/05/23 12:53	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			290 mL	250 uL	434154	05/03/23 14:11	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434450	05/06/23 20:48	VVP	EET PIT
Instrument ID: CH71										
Total/NA	Prep	3520C	DL		290 mL	250 uL	434154	05/03/23 14:11	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL	DL	4	1 mL	1 mL	434715	05/10/23 09:51	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

# Lab Chronicle

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

Job ID: 180-155744-1

## Analyst References:

Lab: EET BUF

Batch Type: Prep

JMP = Jacob Pollock

Batch Type: Analysis

CDC = Charles Cwiklinski

JMM = Joseph Marshall

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: 180-155744-1

**Client Sample ID: SUPE-W-04AR2-042723**

**Lab Sample ID: 180-155744-1**

Date Collected: 04/27/23 08:55

Matrix: Water

Date Received: 04/28/23 09:10

## 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			05/01/23 16:38	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 16:38	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 16:38	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 16:38	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 16:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 16:38	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 16:38	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 16:38	1
<b>Naphthalene</b>	<b>0.72</b>	<b>J</b>	1.0	0.43	ug/L			05/01/23 16:38	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 16:38	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 16:38	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 16:38	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 16:38	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 16:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120					05/01/23 16:38	1
4-Bromofluorobenzene (Surr)	94		73 - 120					05/01/23 16:38	1
Dibromofluoromethane (Surr)	98		75 - 123					05/01/23 16:38	1
Toluene-d8 (Surr)	100		80 - 120					05/01/23 16:38	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		4.8	1.6	ug/L		05/02/23 09:25	05/04/23 19:47	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		24 - 146				05/02/23 09:25	05/04/23 19:47	5
2-Fluorobiphenyl	91		37 - 120				05/02/23 09:25	05/04/23 19:47	5
2-Fluorophenol (Surr)	41		10 - 120				05/02/23 09:25	05/04/23 19:47	5
Nitrobenzene-d5 (Surr)	64		26 - 120				05/02/23 09:25	05/04/23 19:47	5
Phenol-d5 (Surr)	28		11 - 120				05/02/23 09:25	05/04/23 19:47	5
p-Terphenyl-d14	87		64 - 127				05/02/23 09:25	05/04/23 19:47	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		0.83	0.11	ug/L		05/03/23 14:11	05/05/23 19:00	1
1,2-Dichlorobenzene	ND		0.83	0.079	ug/L		05/03/23 14:11	05/05/23 19:00	1
1,3-Dichlorobenzene	ND		0.83	0.083	ug/L		05/03/23 14:11	05/05/23 19:00	1
1,4-Dichlorobenzene	ND		0.83	0.051	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>1-Methylnaphthalene</b>	<b>0.059</b>	<b>J</b>	0.16	0.047	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,3,4,6-Tetrachlorophenol	ND		0.83	0.27	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,3,5,6-Tetrachlorophenol	ND		0.83	0.42	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,4,5-Trichlorophenol	ND		0.83	0.21	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,4,6-Trichlorophenol	ND		0.83	0.19	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,4-Dichlorophenol	ND		0.16	0.043	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,4-Dimethylphenol	ND		0.83	0.14	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,4-Dinitrophenol	ND		8.3	1.3	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,4-Dinitrotoluene	ND		0.83	0.29	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,6-Dinitrotoluene	ND		0.83	0.14	ug/L		05/03/23 14:11	05/05/23 19:00	1

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-W-04AR2-042723**

**Lab Sample ID: 180-155744-1**

Date Collected: 04/27/23 08:55

Matrix: Water

Date Received: 04/28/23 09:10

**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		0.16	0.049	ug/L		05/03/23 14:11	05/05/23 19:00	1
2-Chlorophenol	ND		0.83	0.11	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>2-Methylnaphthalene</b>	<b>0.099</b>	<b>J</b>	0.16	0.052	ug/L		05/03/23 14:11	05/05/23 19:00	1
2-Methylphenol	ND		0.83	0.25	ug/L		05/03/23 14:11	05/05/23 19:00	1
2-Nitroaniline	ND		4.2	0.46	ug/L		05/03/23 14:11	05/05/23 19:00	1
2-Nitrophenol	ND		0.83	0.16	ug/L		05/03/23 14:11	05/05/23 19:00	1
3,3'-Dichlorobenzidine	ND		0.83	0.49	ug/L		05/03/23 14:11	05/05/23 19:00	1
3-Nitroaniline	ND		4.2	0.36	ug/L		05/03/23 14:11	05/05/23 19:00	1
4,6-Dinitro-2-methylphenol	ND		4.2	1.2	ug/L		05/03/23 14:11	05/05/23 19:00	1
4-Bromophenyl phenyl ether	ND		0.83	0.27	ug/L		05/03/23 14:11	05/05/23 19:00	1
4-Chloro-3-methylphenol	ND		0.83	0.23	ug/L		05/03/23 14:11	05/05/23 19:00	1
4-Chloroaniline	ND		0.83	0.31	ug/L		05/03/23 14:11	05/05/23 19:00	1
4-Chlorophenyl phenyl ether	ND		0.83	0.18	ug/L		05/03/23 14:11	05/05/23 19:00	1
4-Nitroaniline	ND		4.2	0.30	ug/L		05/03/23 14:11	05/05/23 19:00	1
4-Nitrophenol	ND		4.2	0.78	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>Acenaphthene</b>	<b>0.24</b>		0.16	0.054	ug/L		05/03/23 14:11	05/05/23 19:00	1
Acenaphthylene	ND		0.16	0.054	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>Anthracene</b>	<b>1.1</b>		0.16	0.041	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>Benzo[a]anthracene</b>	<b>0.17</b>		0.16	0.063	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>Benzo[a]pyrene</b>	<b>0.076</b>	<b>J</b>	0.16	0.044	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>Benzo[b]fluoranthene</b>	<b>0.17</b>		0.16	0.081	ug/L		05/03/23 14:11	05/05/23 19:00	1
Benzo[g,h,i]perylene	ND		0.16	0.058	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>Benzo[k]fluoranthene</b>	<b>0.081</b>	<b>J</b>	0.16	0.073	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>Benzoic acid</b>	<b>4.2</b>		4.2	0.77	ug/L		05/03/23 14:11	05/05/23 19:00	1
Benzyl alcohol	ND		0.83	0.14	ug/L		05/03/23 14:11	05/05/23 19:00	1
Bis(2-chloroethoxy)methane	ND		0.83	0.13	ug/L		05/03/23 14:11	05/05/23 19:00	1
Bis(2-chloroethyl)ether	ND		0.16	0.033	ug/L		05/03/23 14:11	05/05/23 19:00	1
Bis(2-ethylhexyl) phthalate	ND		8.3	5.2	ug/L		05/03/23 14:11	05/05/23 19:00	1
bis(chloroisopropyl) ether	ND		0.16	0.048	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>Butyl benzyl phthalate</b>	<b>0.84</b>		0.83	0.39	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>Chrysene</b>	<b>0.24</b>		0.16	0.068	ug/L		05/03/23 14:11	05/05/23 19:00	1
Dibenz(a,h)anthracene	ND		0.16	0.060	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>Dibenzofuran</b>	<b>0.20</b>	<b>J</b>	0.83	0.16	ug/L		05/03/23 14:11	05/05/23 19:00	1
Diethyl phthalate	ND		0.83	0.47	ug/L		05/03/23 14:11	05/05/23 19:00	1
Dimethyl phthalate	ND		0.83	0.17	ug/L		05/03/23 14:11	05/05/23 19:00	1
Di-n-butyl phthalate	ND		0.83	0.62	ug/L		05/03/23 14:11	05/05/23 19:00	1
Di-n-octyl phthalate	ND	+	0.83	0.57	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>Fluoranthene</b>	<b>0.71</b>		0.16	0.050	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>Fluorene</b>	<b>0.23</b>		0.16	0.058	ug/L		05/03/23 14:11	05/05/23 19:00	1
Hexachlorobenzene	ND		0.16	0.047	ug/L		05/03/23 14:11	05/05/23 19:00	1
Hexachlorobutadiene	ND		0.16	0.058	ug/L		05/03/23 14:11	05/05/23 19:00	1
Hexachlorocyclopentadiene	ND		0.83	0.41	ug/L		05/03/23 14:11	05/05/23 19:00	1
Hexachloroethane	ND		0.83	0.11	ug/L		05/03/23 14:11	05/05/23 19:00	1
Indeno[1,2,3-cd]pyrene	ND		0.16	0.071	ug/L		05/03/23 14:11	05/05/23 19:00	1
Isophorone	ND		0.83	0.16	ug/L		05/03/23 14:11	05/05/23 19:00	1
Methylphenol, 3 & 4	ND		0.83	0.31	ug/L		05/03/23 14:11	05/05/23 19:00	1
Nitrobenzene	ND		1.7	0.42	ug/L		05/03/23 14:11	05/05/23 19:00	1
N-Nitrosodi-n-propylamine	ND		0.16	0.059	ug/L		05/03/23 14:11	05/05/23 19:00	1
N-Nitrosodiphenylamine	ND		0.83	0.099	ug/L		05/03/23 14:11	05/05/23 19:00	1

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-W-04AR2-042723**

**Lab Sample ID: 180-155744-1**

Date Collected: 04/27/23 08:55

Matrix: Water

Date Received: 04/28/23 09:10

**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>0.73</b>		0.16	0.046	ug/L		05/03/23 14:11	05/05/23 19:00	1
Phenol	ND		0.83	0.41	ug/L		05/03/23 14:11	05/05/23 19:00	1
<b>Pyrene</b>	<b>0.55</b>		0.16	0.045	ug/L		05/03/23 14:11	05/05/23 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		23 - 128				05/03/23 14:11	05/05/23 19:00	1
2-Fluorobiphenyl	63		20 - 105				05/03/23 14:11	05/05/23 19:00	1
2-Fluorophenol (Surr)	72		20 - 105				05/03/23 14:11	05/05/23 19:00	1
Nitrobenzene-d5 (Surr)	74		20 - 107				05/03/23 14:11	05/05/23 19:00	1
Phenol-d5 (Surr)	67		20 - 106				05/03/23 14:11	05/05/23 19:00	1
Terphenyl-d14 (Surr)	68		22 - 120				05/03/23 14:11	05/05/23 19:00	1

**Client Sample ID: SUPE-W-99B-042723**

**Lab Sample ID: 180-155744-2**

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

**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			05/01/23 17:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 17:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 17:00	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 17:00	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 17:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 17:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 17:00	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 17:00	1
<b>Naphthalene</b>	<b>0.94</b>	<b>J</b>	1.0	0.43	ug/L			05/01/23 17:00	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 17:00	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 17:00	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 17:00	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 17:00	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 17:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					05/01/23 17:00	1
4-Bromofluorobenzene (Surr)	93		73 - 120					05/01/23 17:00	1
Dibromofluoromethane (Surr)	98		75 - 123					05/01/23 17:00	1
Toluene-d8 (Surr)	99		80 - 120					05/01/23 17:00	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		05/02/23 09:25	05/04/23 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	102		24 - 146				05/02/23 09:25	05/04/23 20:15	1
2-Fluorobiphenyl	104		37 - 120				05/02/23 09:25	05/04/23 20:15	1
2-Fluorophenol (Surr)	53		10 - 120				05/02/23 09:25	05/04/23 20:15	1
Nitrobenzene-d5 (Surr)	80		26 - 120				05/02/23 09:25	05/04/23 20:15	1
Phenol-d5 (Surr)	35		11 - 120				05/02/23 09:25	05/04/23 20:15	1
p-Terphenyl-d14	87		64 - 127				05/02/23 09:25	05/04/23 20:15	1

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-W-99B-042723**

**Lab Sample ID: 180-155744-2**

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

**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		0.86	0.11	ug/L		05/03/23 14:11	05/05/23 19:22	1
1,2-Dichlorobenzene	ND		0.86	0.082	ug/L		05/03/23 14:11	05/05/23 19:22	1
1,3-Dichlorobenzene	ND		0.86	0.085	ug/L		05/03/23 14:11	05/05/23 19:22	1
1,4-Dichlorobenzene	ND		0.86	0.053	ug/L		05/03/23 14:11	05/05/23 19:22	1
<b>1-Methylnaphthalene</b>	<b>0.072</b>	<b>J</b>	0.16	0.048	ug/L		05/03/23 14:11	05/05/23 19:22	1
2,3,4,6-Tetrachlorophenol	ND		0.86	0.28	ug/L		05/03/23 14:11	05/05/23 19:22	1
2,3,5,6-Tetrachlorophenol	ND		0.86	0.44	ug/L		05/03/23 14:11	05/05/23 19:22	1
2,4,5-Trichlorophenol	ND		0.86	0.22	ug/L		05/03/23 14:11	05/05/23 19:22	1
2,4,6-Trichlorophenol	ND		0.86	0.19	ug/L		05/03/23 14:11	05/05/23 19:22	1
2,4-Dichlorophenol	ND		0.16	0.044	ug/L		05/03/23 14:11	05/05/23 19:22	1
2,4-Dimethylphenol	ND		0.86	0.14	ug/L		05/03/23 14:11	05/05/23 19:22	1
2,4-Dinitrophenol	ND		8.6	1.3	ug/L		05/03/23 14:11	05/05/23 19:22	1
2,4-Dinitrotoluene	ND		0.86	0.30	ug/L		05/03/23 14:11	05/05/23 19:22	1
2,6-Dinitrotoluene	ND		0.86	0.15	ug/L		05/03/23 14:11	05/05/23 19:22	1
2-Chloronaphthalene	ND		0.16	0.051	ug/L		05/03/23 14:11	05/05/23 19:22	1
2-Chlorophenol	ND		0.86	0.11	ug/L		05/03/23 14:11	05/05/23 19:22	1
<b>2-Methylnaphthalene</b>	<b>0.12</b>	<b>J</b>	0.16	0.053	ug/L		05/03/23 14:11	05/05/23 19:22	1
2-Methylphenol	ND		0.86	0.26	ug/L		05/03/23 14:11	05/05/23 19:22	1
2-Nitroaniline	ND		4.3	0.47	ug/L		05/03/23 14:11	05/05/23 19:22	1
2-Nitrophenol	ND		0.86	0.17	ug/L		05/03/23 14:11	05/05/23 19:22	1
3,3'-Dichlorobenzidine	ND		0.86	0.50	ug/L		05/03/23 14:11	05/05/23 19:22	1
3-Nitroaniline	ND		4.3	0.38	ug/L		05/03/23 14:11	05/05/23 19:22	1
4,6-Dinitro-2-methylphenol	ND		4.3	1.3	ug/L		05/03/23 14:11	05/05/23 19:22	1
4-Bromophenyl phenyl ether	ND		0.86	0.28	ug/L		05/03/23 14:11	05/05/23 19:22	1
4-Chloro-3-methylphenol	ND		0.86	0.24	ug/L		05/03/23 14:11	05/05/23 19:22	1
4-Chloroaniline	ND		0.86	0.32	ug/L		05/03/23 14:11	05/05/23 19:22	1
4-Chlorophenyl phenyl ether	ND		0.86	0.19	ug/L		05/03/23 14:11	05/05/23 19:22	1
4-Nitroaniline	ND		4.3	0.31	ug/L		05/03/23 14:11	05/05/23 19:22	1
4-Nitrophenol	ND		4.3	0.81	ug/L		05/03/23 14:11	05/05/23 19:22	1
<b>Acenaphthene</b>	<b>0.26</b>		0.16	0.056	ug/L		05/03/23 14:11	05/05/23 19:22	1
Acenaphthylene	ND		0.16	0.056	ug/L		05/03/23 14:11	05/05/23 19:22	1
<b>Anthracene</b>	<b>1.0</b>		0.16	0.042	ug/L		05/03/23 14:11	05/05/23 19:22	1
<b>Benzo[a]anthracene</b>	<b>0.13</b>	<b>J</b>	0.16	0.065	ug/L		05/03/23 14:11	05/05/23 19:22	1
Benzo[a]pyrene	ND		0.16	0.046	ug/L		05/03/23 14:11	05/05/23 19:22	1
<b>Benzo[b]fluoranthene</b>	<b>0.089</b>	<b>J</b>	0.16	0.084	ug/L		05/03/23 14:11	05/05/23 19:22	1
Benzo[g,h,i]perylene	ND		0.16	0.059	ug/L		05/03/23 14:11	05/05/23 19:22	1
Benzo[k]fluoranthene	ND		0.16	0.076	ug/L		05/03/23 14:11	05/05/23 19:22	1
<b>Benzoic acid</b>	<b>5.1</b>		4.3	0.80	ug/L		05/03/23 14:11	05/05/23 19:22	1
Benzyl alcohol	ND		0.86	0.14	ug/L		05/03/23 14:11	05/05/23 19:22	1
Bis(2-chloroethoxy)methane	ND		0.86	0.13	ug/L		05/03/23 14:11	05/05/23 19:22	1
Bis(2-chloroethyl)ether	ND		0.16	0.034	ug/L		05/03/23 14:11	05/05/23 19:22	1
Bis(2-ethylhexyl) phthalate	ND		8.6	5.4	ug/L		05/03/23 14:11	05/05/23 19:22	1
bis(chloroisopropyl) ether	ND		0.16	0.050	ug/L		05/03/23 14:11	05/05/23 19:22	1
Butyl benzyl phthalate	ND		0.86	0.40	ug/L		05/03/23 14:11	05/05/23 19:22	1
<b>Chrysene</b>	<b>0.13</b>	<b>J</b>	0.16	0.070	ug/L		05/03/23 14:11	05/05/23 19:22	1
Dibenz(a,h)anthracene	ND		0.16	0.062	ug/L		05/03/23 14:11	05/05/23 19:22	1
<b>Dibenzofuran</b>	<b>0.21</b>	<b>J</b>	0.86	0.16	ug/L		05/03/23 14:11	05/05/23 19:22	1
Diethyl phthalate	ND		0.86	0.49	ug/L		05/03/23 14:11	05/05/23 19:22	1
Dimethyl phthalate	ND		0.86	0.17	ug/L		05/03/23 14:11	05/05/23 19:22	1

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-W-99B-042723**

**Lab Sample ID: 180-155744-2**

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		0.86	0.64	ug/L		05/03/23 14:11	05/05/23 19:22	1
Di-n-octyl phthalate	ND	*+	0.86	0.59	ug/L		05/03/23 14:11	05/05/23 19:22	1
<b>Fluoranthene</b>	<b>0.50</b>		0.16	0.052	ug/L		05/03/23 14:11	05/05/23 19:22	1
<b>Fluorene</b>	<b>0.24</b>		0.16	0.059	ug/L		05/03/23 14:11	05/05/23 19:22	1
Hexachlorobenzene	ND		0.16	0.048	ug/L		05/03/23 14:11	05/05/23 19:22	1
Hexachlorobutadiene	ND		0.16	0.059	ug/L		05/03/23 14:11	05/05/23 19:22	1
Hexachlorocyclopentadiene	ND		0.86	0.43	ug/L		05/03/23 14:11	05/05/23 19:22	1
Hexachloroethane	ND		0.86	0.11	ug/L		05/03/23 14:11	05/05/23 19:22	1
Indeno[1,2,3-cd]pyrene	ND		0.16	0.073	ug/L		05/03/23 14:11	05/05/23 19:22	1
Isophorone	ND		0.86	0.16	ug/L		05/03/23 14:11	05/05/23 19:22	1
Methylphenol, 3 & 4	ND		0.86	0.32	ug/L		05/03/23 14:11	05/05/23 19:22	1
Nitrobenzene	ND		1.7	0.43	ug/L		05/03/23 14:11	05/05/23 19:22	1
N-Nitrosodi-n-propylamine	ND		0.16	0.061	ug/L		05/03/23 14:11	05/05/23 19:22	1
N-Nitrosodiphenylamine	ND		0.86	0.10	ug/L		05/03/23 14:11	05/05/23 19:22	1
<b>Phenanthrene</b>	<b>0.76</b>		0.16	0.047	ug/L		05/03/23 14:11	05/05/23 19:22	1
Phenol	ND		0.86	0.42	ug/L		05/03/23 14:11	05/05/23 19:22	1
<b>Pyrene</b>	<b>0.44</b>		0.16	0.047	ug/L		05/03/23 14:11	05/05/23 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		23 - 128	05/03/23 14:11	05/05/23 19:22	1
2-Fluorobiphenyl	71		20 - 105	05/03/23 14:11	05/05/23 19:22	1
2-Fluorophenol (Surr)	77		20 - 105	05/03/23 14:11	05/05/23 19:22	1
Nitrobenzene-d5 (Surr)	82		20 - 107	05/03/23 14:11	05/05/23 19:22	1
Phenol-d5 (Surr)	71		20 - 106	05/03/23 14:11	05/05/23 19:22	1
Terphenyl-d14 (Surr)	105		22 - 120	05/03/23 14:11	05/05/23 19:22	1

**Client Sample ID: SUPE-W-12A-042723**

**Lab Sample ID: 180-155744-3**

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

**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			05/01/23 17:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 17:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 17:22	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 17:22	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 17:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 17:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 17:22	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 17:22	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 17:22	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 17:22	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 17:22	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 17:22	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 17:22	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 17:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		05/01/23 17:22	1

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-W-12A-042723**

**Lab Sample ID: 180-155744-3**

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		73 - 120		05/01/23 17:22	1
Dibromofluoromethane (Surr)	101		75 - 123		05/01/23 17:22	1
Toluene-d8 (Surr)	98		80 - 120		05/01/23 17:22	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		05/02/23 09:25	05/04/23 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		24 - 146	05/02/23 09:25	05/04/23 20:43	1
2-Fluorobiphenyl	77		37 - 120	05/02/23 09:25	05/04/23 20:43	1
2-Fluorophenol (Surr)	39		10 - 120	05/02/23 09:25	05/04/23 20:43	1
Nitrobenzene-d5 (Surr)	57		26 - 120	05/02/23 09:25	05/04/23 20:43	1
Phenol-d5 (Surr)	28		11 - 120	05/02/23 09:25	05/04/23 20:43	1
p-Terphenyl-d14	85		64 - 127	05/02/23 09:25	05/04/23 20:43	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		0.86	0.11	ug/L		05/03/23 14:11	05/06/23 19:42	1
1,2-Dichlorobenzene	ND		0.86	0.082	ug/L		05/03/23 14:11	05/06/23 19:42	1
1,3-Dichlorobenzene	ND		0.86	0.085	ug/L		05/03/23 14:11	05/06/23 19:42	1
1,4-Dichlorobenzene	ND		0.86	0.053	ug/L		05/03/23 14:11	05/06/23 19:42	1
1-Methylnaphthalene	ND		0.16	0.048	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,3,4,6-Tetrachlorophenol	ND		0.86	0.28	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,3,5,6-Tetrachlorophenol	ND		0.86	0.44	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,4,5-Trichlorophenol	ND		0.86	0.22	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,4,6-Trichlorophenol	ND		0.86	0.19	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,4-Dichlorophenol	ND		0.16	0.044	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,4-Dimethylphenol	ND		0.86	0.14	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,4-Dinitrophenol	ND		8.6	1.3	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,4-Dinitrotoluene	ND		0.86	0.30	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,6-Dinitrotoluene	ND		0.86	0.15	ug/L		05/03/23 14:11	05/06/23 19:42	1
2-Chloronaphthalene	ND		0.16	0.051	ug/L		05/03/23 14:11	05/06/23 19:42	1
2-Chlorophenol	ND		0.86	0.11	ug/L		05/03/23 14:11	05/06/23 19:42	1
2-Methylnaphthalene	ND		0.16	0.053	ug/L		05/03/23 14:11	05/06/23 19:42	1
2-Methylphenol	ND		0.86	0.26	ug/L		05/03/23 14:11	05/06/23 19:42	1
2-Nitroaniline	ND		4.3	0.47	ug/L		05/03/23 14:11	05/06/23 19:42	1
2-Nitrophenol	ND		0.86	0.17	ug/L		05/03/23 14:11	05/06/23 19:42	1
3,3'-Dichlorobenzidine	ND		0.86	0.50	ug/L		05/03/23 14:11	05/06/23 19:42	1
3-Nitroaniline	ND		4.3	0.38	ug/L		05/03/23 14:11	05/06/23 19:42	1
4,6-Dinitro-2-methylphenol	ND		4.3	1.3	ug/L		05/03/23 14:11	05/06/23 19:42	1
4-Bromophenyl phenyl ether	ND		0.86	0.28	ug/L		05/03/23 14:11	05/06/23 19:42	1
4-Chloro-3-methylphenol	ND		0.86	0.24	ug/L		05/03/23 14:11	05/06/23 19:42	1
4-Chloroaniline	ND		0.86	0.32	ug/L		05/03/23 14:11	05/06/23 19:42	1
4-Chlorophenyl phenyl ether	ND		0.86	0.19	ug/L		05/03/23 14:11	05/06/23 19:42	1
4-Nitroaniline	ND		4.3	0.31	ug/L		05/03/23 14:11	05/06/23 19:42	1
4-Nitrophenol	ND		4.3	0.81	ug/L		05/03/23 14:11	05/06/23 19:42	1
<b>Acenaphthene</b>	<b>0.059</b>	<b>J</b>	0.16	0.056	ug/L		05/03/23 14:11	05/06/23 19:42	1
Acenaphthylene	ND		0.16	0.056	ug/L		05/03/23 14:11	05/06/23 19:42	1
<b>Anthracene</b>	<b>0.064</b>	<b>J</b>	0.16	0.042	ug/L		05/03/23 14:11	05/06/23 19:42	1

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-W-12A-042723**

**Lab Sample ID: 180-155744-3**

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

**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		0.16	0.065	ug/L		05/03/23 14:11	05/06/23 19:42	1
Benzo[a]pyrene	ND		0.16	0.046	ug/L		05/03/23 14:11	05/06/23 19:42	1
Benzo[b]fluoranthene	ND		0.16	0.084	ug/L		05/03/23 14:11	05/06/23 19:42	1
Benzo[g,h,i]perylene	ND		0.16	0.059	ug/L		05/03/23 14:11	05/06/23 19:42	1
Benzo[k]fluoranthene	ND		0.16	0.076	ug/L		05/03/23 14:11	05/06/23 19:42	1
<b>Benzoic acid</b>	<b>1.8</b>	<b>J</b>	4.3	0.80	ug/L		05/03/23 14:11	05/06/23 19:42	1
Benzyl alcohol	ND		0.86	0.14	ug/L		05/03/23 14:11	05/06/23 19:42	1
Bis(2-chloroethoxy)methane	ND		0.86	0.13	ug/L		05/03/23 14:11	05/06/23 19:42	1
Bis(2-chloroethyl)ether	ND		0.16	0.034	ug/L		05/03/23 14:11	05/06/23 19:42	1
Bis(2-ethylhexyl) phthalate	ND		8.6	5.4	ug/L		05/03/23 14:11	05/06/23 19:42	1
bis(chloroisopropyl) ether	ND		0.16	0.050	ug/L		05/03/23 14:11	05/06/23 19:42	1
<b>Butyl benzyl phthalate</b>	<b>0.66</b>	<b>J</b>	0.86	0.40	ug/L		05/03/23 14:11	05/06/23 19:42	1
Chrysene	ND		0.16	0.070	ug/L		05/03/23 14:11	05/06/23 19:42	1
Dibenz(a,h)anthracene	ND		0.16	0.062	ug/L		05/03/23 14:11	05/06/23 19:42	1
Dibenzofuran	ND		0.86	0.16	ug/L		05/03/23 14:11	05/06/23 19:42	1
Diethyl phthalate	ND		0.86	0.49	ug/L		05/03/23 14:11	05/06/23 19:42	1
Dimethyl phthalate	ND		0.86	0.17	ug/L		05/03/23 14:11	05/06/23 19:42	1
<b>Di-n-butyl phthalate</b>	<b>0.71</b>	<b>J</b>	0.86	0.64	ug/L		05/03/23 14:11	05/06/23 19:42	1
Di-n-octyl phthalate	ND	*+	0.86	0.59	ug/L		05/03/23 14:11	05/06/23 19:42	1
<b>Fluoranthene</b>	<b>0.087</b>	<b>J</b>	0.16	0.052	ug/L		05/03/23 14:11	05/06/23 19:42	1
Fluorene	ND		0.16	0.059	ug/L		05/03/23 14:11	05/06/23 19:42	1
Hexachlorobenzene	ND		0.16	0.048	ug/L		05/03/23 14:11	05/06/23 19:42	1
Hexachlorobutadiene	ND		0.16	0.059	ug/L		05/03/23 14:11	05/06/23 19:42	1
Hexachlorocyclopentadiene	ND		0.86	0.43	ug/L		05/03/23 14:11	05/06/23 19:42	1
Hexachloroethane	ND		0.86	0.11	ug/L		05/03/23 14:11	05/06/23 19:42	1
Indeno[1,2,3-cd]pyrene	ND		0.16	0.073	ug/L		05/03/23 14:11	05/06/23 19:42	1
Isophorone	ND		0.86	0.16	ug/L		05/03/23 14:11	05/06/23 19:42	1
Methylphenol, 3 & 4	ND		0.86	0.32	ug/L		05/03/23 14:11	05/06/23 19:42	1
Nitrobenzene	ND		1.7	0.43	ug/L		05/03/23 14:11	05/06/23 19:42	1
N-Nitrosodi-n-propylamine	ND		0.16	0.061	ug/L		05/03/23 14:11	05/06/23 19:42	1
N-Nitrosodiphenylamine	ND		0.86	0.10	ug/L		05/03/23 14:11	05/06/23 19:42	1
<b>Phenanthrene</b>	<b>0.13</b>	<b>J</b>	0.16	0.047	ug/L		05/03/23 14:11	05/06/23 19:42	1
Phenol	ND		0.86	0.42	ug/L		05/03/23 14:11	05/06/23 19:42	1
<b>Pyrene</b>	<b>0.054</b>	<b>J</b>	0.16	0.047	ug/L		05/03/23 14:11	05/06/23 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		23 - 128	05/03/23 14:11	05/06/23 19:42	1
2-Fluorobiphenyl	86		20 - 105	05/03/23 14:11	05/06/23 19:42	1
2-Fluorophenol (Surr)	94		20 - 105	05/03/23 14:11	05/06/23 19:42	1
Nitrobenzene-d5 (Surr)	98		20 - 107	05/03/23 14:11	05/06/23 19:42	1
Phenol-d5 (Surr)	92		20 - 106	05/03/23 14:11	05/06/23 19:42	1
Terphenyl-d14 (Surr)	101		22 - 120	05/03/23 14:11	05/06/23 19:42	1

**Client Sample ID: SUPE-EB-02-042723**

**Lab Sample ID: 180-155744-4**

Date Collected: 04/27/23 11:00

Matrix: Water

Date Received: 04/28/23 09:10

**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			05/01/23 17:45	1

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-EB-02-042723**

**Lab Sample ID: 180-155744-4**

Date Collected: 04/27/23 11:00

Matrix: Water

Date Received: 04/28/23 09:10

## 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			05/01/23 17:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 17:45	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 17:45	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 17:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 17:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 17:45	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 17:45	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 17:45	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 17:45	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 17:45	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 17:45	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 17:45	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 17:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		05/01/23 17:45	1
4-Bromofluorobenzene (Surr)	96		73 - 120		05/01/23 17:45	1
Dibromofluoromethane (Surr)	102		75 - 123		05/01/23 17:45	1
Toluene-d8 (Surr)	99		80 - 120		05/01/23 17:45	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		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		24 - 146	05/02/23 09:25	05/04/23 21:10	1
2-Fluorobiphenyl	68		37 - 120	05/02/23 09:25	05/04/23 21:10	1
2-Fluorophenol (Surr)	33		10 - 120	05/02/23 09:25	05/04/23 21:10	1
Nitrobenzene-d5 (Surr)	51		26 - 120	05/02/23 09:25	05/04/23 21:10	1
Phenol-d5 (Surr)	23		11 - 120	05/02/23 09:25	05/04/23 21:10	1
p-Terphenyl-d14	103		64 - 127	05/02/23 09:25	05/04/23 21:10	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		0.83	0.11	ug/L		05/03/23 14:11	05/06/23 20:04	1
1,2-Dichlorobenzene	ND		0.83	0.079	ug/L		05/03/23 14:11	05/06/23 20:04	1
1,3-Dichlorobenzene	ND		0.83	0.083	ug/L		05/03/23 14:11	05/06/23 20:04	1
1,4-Dichlorobenzene	ND		0.83	0.051	ug/L		05/03/23 14:11	05/06/23 20:04	1
1-Methylnaphthalene	ND		0.16	0.047	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,3,4,6-Tetrachlorophenol	ND		0.83	0.27	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,3,5,6-Tetrachlorophenol	ND		0.83	0.42	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,4,5-Trichlorophenol	ND		0.83	0.21	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,4,6-Trichlorophenol	ND		0.83	0.19	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,4-Dichlorophenol	ND		0.16	0.043	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,4-Dimethylphenol	ND		0.83	0.14	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,4-Dinitrophenol	ND		8.3	1.3	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,4-Dinitrotoluene	ND		0.83	0.29	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,6-Dinitrotoluene	ND		0.83	0.14	ug/L		05/03/23 14:11	05/06/23 20:04	1
2-Chloronaphthalene	ND		0.16	0.049	ug/L		05/03/23 14:11	05/06/23 20:04	1

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-EB-02-042723**

**Lab Sample ID: 180-155744-4**

Date Collected: 04/27/23 11:00

Matrix: Water

Date Received: 04/28/23 09:10

**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		0.83	0.11	ug/L		05/03/23 14:11	05/06/23 20:04	1
2-Methylnaphthalene	ND		0.16	0.052	ug/L		05/03/23 14:11	05/06/23 20:04	1
2-Methylphenol	ND		0.83	0.25	ug/L		05/03/23 14:11	05/06/23 20:04	1
2-Nitroaniline	ND		4.2	0.46	ug/L		05/03/23 14:11	05/06/23 20:04	1
2-Nitrophenol	ND		0.83	0.16	ug/L		05/03/23 14:11	05/06/23 20:04	1
3,3'-Dichlorobenzidine	ND		0.83	0.49	ug/L		05/03/23 14:11	05/06/23 20:04	1
3-Nitroaniline	ND		4.2	0.36	ug/L		05/03/23 14:11	05/06/23 20:04	1
4,6-Dinitro-2-methylphenol	ND		4.2	1.2	ug/L		05/03/23 14:11	05/06/23 20:04	1
4-Bromophenyl phenyl ether	ND		0.83	0.27	ug/L		05/03/23 14:11	05/06/23 20:04	1
4-Chloro-3-methylphenol	ND		0.83	0.23	ug/L		05/03/23 14:11	05/06/23 20:04	1
4-Chloroaniline	ND		0.83	0.31	ug/L		05/03/23 14:11	05/06/23 20:04	1
4-Chlorophenyl phenyl ether	ND		0.83	0.18	ug/L		05/03/23 14:11	05/06/23 20:04	1
4-Nitroaniline	ND		4.2	0.30	ug/L		05/03/23 14:11	05/06/23 20:04	1
4-Nitrophenol	ND		4.2	0.78	ug/L		05/03/23 14:11	05/06/23 20:04	1
Acenaphthene	ND		0.16	0.054	ug/L		05/03/23 14:11	05/06/23 20:04	1
Acenaphthylene	ND		0.16	0.054	ug/L		05/03/23 14:11	05/06/23 20:04	1
Anthracene	ND		0.16	0.041	ug/L		05/03/23 14:11	05/06/23 20:04	1
Benzo[a]anthracene	ND		0.16	0.063	ug/L		05/03/23 14:11	05/06/23 20:04	1
Benzo[a]pyrene	ND		0.16	0.044	ug/L		05/03/23 14:11	05/06/23 20:04	1
Benzo[b]fluoranthene	ND		0.16	0.081	ug/L		05/03/23 14:11	05/06/23 20:04	1
Benzo[g,h,i]perylene	ND		0.16	0.058	ug/L		05/03/23 14:11	05/06/23 20:04	1
Benzo[k]fluoranthene	ND		0.16	0.073	ug/L		05/03/23 14:11	05/06/23 20:04	1
<b>Benzoic acid</b>	<b>10</b>		4.2	0.77	ug/L		05/03/23 14:11	05/06/23 20:04	1
<b>Benzyl alcohol</b>	<b>0.56</b>	<b>J</b>	0.83	0.14	ug/L		05/03/23 14:11	05/06/23 20:04	1
Bis(2-chloroethoxy)methane	ND		0.83	0.13	ug/L		05/03/23 14:11	05/06/23 20:04	1
Bis(2-chloroethyl)ether	ND		0.16	0.033	ug/L		05/03/23 14:11	05/06/23 20:04	1
Bis(2-ethylhexyl) phthalate	ND		8.3	5.2	ug/L		05/03/23 14:11	05/06/23 20:04	1
bis(chloroisopropyl) ether	ND		0.16	0.048	ug/L		05/03/23 14:11	05/06/23 20:04	1
<b>Butyl benzyl phthalate</b>	<b>0.79</b>	<b>J</b>	0.83	0.39	ug/L		05/03/23 14:11	05/06/23 20:04	1
Chrysene	ND		0.16	0.068	ug/L		05/03/23 14:11	05/06/23 20:04	1
Dibenz(a,h)anthracene	ND		0.16	0.060	ug/L		05/03/23 14:11	05/06/23 20:04	1
Dibenzofuran	ND		0.83	0.16	ug/L		05/03/23 14:11	05/06/23 20:04	1
Diethyl phthalate	ND		0.83	0.47	ug/L		05/03/23 14:11	05/06/23 20:04	1
Dimethyl phthalate	ND		0.83	0.17	ug/L		05/03/23 14:11	05/06/23 20:04	1
<b>Di-n-butyl phthalate</b>	<b>0.78</b>	<b>J</b>	0.83	0.62	ug/L		05/03/23 14:11	05/06/23 20:04	1
Di-n-octyl phthalate	ND	*+	0.83	0.57	ug/L		05/03/23 14:11	05/06/23 20:04	1
Fluoranthene	ND		0.16	0.050	ug/L		05/03/23 14:11	05/06/23 20:04	1
Fluorene	ND		0.16	0.058	ug/L		05/03/23 14:11	05/06/23 20:04	1
Hexachlorobenzene	ND		0.16	0.047	ug/L		05/03/23 14:11	05/06/23 20:04	1
Hexachlorobutadiene	ND		0.16	0.058	ug/L		05/03/23 14:11	05/06/23 20:04	1
Hexachlorocyclopentadiene	ND		0.83	0.41	ug/L		05/03/23 14:11	05/06/23 20:04	1
Hexachloroethane	ND		0.83	0.11	ug/L		05/03/23 14:11	05/06/23 20:04	1
Indeno[1,2,3-cd]pyrene	ND		0.16	0.071	ug/L		05/03/23 14:11	05/06/23 20:04	1
Isophorone	ND		0.83	0.16	ug/L		05/03/23 14:11	05/06/23 20:04	1
Methylphenol, 3 & 4	ND		0.83	0.31	ug/L		05/03/23 14:11	05/06/23 20:04	1
Nitrobenzene	ND		1.7	0.42	ug/L		05/03/23 14:11	05/06/23 20:04	1
N-Nitrosodi-n-propylamine	ND		0.16	0.059	ug/L		05/03/23 14:11	05/06/23 20:04	1
N-Nitrosodiphenylamine	ND		0.83	0.099	ug/L		05/03/23 14:11	05/06/23 20:04	1
<b>Phenanthrene</b>	<b>0.079</b>	<b>J</b>	0.16	0.046	ug/L		05/03/23 14:11	05/06/23 20:04	1

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-EB-02-042723**

**Lab Sample ID: 180-155744-4**

Date Collected: 04/27/23 11:00

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.83	0.41	ug/L		05/03/23 14:11	05/06/23 20:04	1
Pyrene	ND		0.16	0.045	ug/L		05/03/23 14:11	05/06/23 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		23 - 128				05/03/23 14:11	05/06/23 20:04	1
2-Fluorobiphenyl	66		20 - 105				05/03/23 14:11	05/06/23 20:04	1
2-Fluorophenol (Surr)	74		20 - 105				05/03/23 14:11	05/06/23 20:04	1
Nitrobenzene-d5 (Surr)	79		20 - 107				05/03/23 14:11	05/06/23 20:04	1
Phenol-d5 (Surr)	73		20 - 106				05/03/23 14:11	05/06/23 20:04	1
Terphenyl-d14 (Surr)	76		22 - 120				05/03/23 14:11	05/06/23 20:04	1

**Client Sample ID: SUPE-W-30A-042723**

**Lab Sample ID: 180-155744-5**

Date Collected: 04/27/23 11:29

Matrix: Water

Date Received: 04/28/23 09:10

**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		2.0	1.6	ug/L			05/01/23 18:07	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			05/01/23 18:07	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			05/01/23 18:07	2
Benzene	ND		2.0	0.82	ug/L			05/01/23 18:07	2
Chloromethane	ND		2.0	0.70	ug/L			05/01/23 18:07	2
Ethylbenzene	ND		2.0	1.5	ug/L			05/01/23 18:07	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			05/01/23 18:07	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			05/01/23 18:07	2
<b>Naphthalene</b>	<b>2.0</b>		2.0	0.86	ug/L			05/01/23 18:07	2
n-Butylbenzene	ND		2.0	1.3	ug/L			05/01/23 18:07	2
N-Propylbenzene	ND		2.0	1.4	ug/L			05/01/23 18:07	2
o-Xylene	ND		2.0	1.5	ug/L			05/01/23 18:07	2
Styrene	ND		2.0	1.5	ug/L			05/01/23 18:07	2
Toluene	ND		2.0	1.0	ug/L			05/01/23 18:07	2
Xylenes, Total	ND		4.0	1.3	ug/L			05/01/23 18:07	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120					05/01/23 18:07	2
4-Bromofluorobenzene (Surr)	96		73 - 120					05/01/23 18:07	2
Dibromofluoromethane (Surr)	99		75 - 123					05/01/23 18:07	2
Toluene-d8 (Surr)	98		80 - 120					05/01/23 18:07	2

**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	3.6	ug/L		05/02/23 09:25	05/05/23 12:26	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		24 - 146				05/02/23 09:25	05/05/23 12:26	10
2-Fluorobiphenyl	80		37 - 120				05/02/23 09:25	05/05/23 12:26	10
2-Fluorophenol (Surr)	40		10 - 120				05/02/23 09:25	05/05/23 12:26	10
Nitrobenzene-d5 (Surr)	56		26 - 120				05/02/23 09:25	05/05/23 12:26	10
Phenol-d5 (Surr)	25		11 - 120				05/02/23 09:25	05/05/23 12:26	10
p-Terphenyl-d14	88		64 - 127				05/02/23 09:25	05/05/23 12:26	10

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-W-30A-042723**

**Lab Sample ID: 180-155744-5**

Date Collected: 04/27/23 11:29

Matrix: Water

Date Received: 04/28/23 09:10

**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		0.83	0.11	ug/L		05/03/23 14:11	05/06/23 20:26	1
<b>1,2-Dichlorobenzene</b>	<b>0.11</b>	<b>J</b>	0.83	0.079	ug/L		05/03/23 14:11	05/06/23 20:26	1
1,3-Dichlorobenzene	ND		0.83	0.083	ug/L		05/03/23 14:11	05/06/23 20:26	1
1,4-Dichlorobenzene	ND		0.83	0.051	ug/L		05/03/23 14:11	05/06/23 20:26	1
1-Methylnaphthalene	ND		0.16	0.047	ug/L		05/03/23 14:11	05/06/23 20:26	1
2,3,4,6-Tetrachlorophenol	ND		0.83	0.27	ug/L		05/03/23 14:11	05/06/23 20:26	1
2,3,5,6-Tetrachlorophenol	ND		0.83	0.42	ug/L		05/03/23 14:11	05/06/23 20:26	1
2,4,5-Trichlorophenol	ND		0.83	0.21	ug/L		05/03/23 14:11	05/06/23 20:26	1
2,4,6-Trichlorophenol	ND		0.83	0.19	ug/L		05/03/23 14:11	05/06/23 20:26	1
2,4-Dichlorophenol	ND		0.16	0.043	ug/L		05/03/23 14:11	05/06/23 20:26	1
2,4-Dimethylphenol	ND		0.83	0.14	ug/L		05/03/23 14:11	05/06/23 20:26	1
2,4-Dinitrophenol	ND		8.3	1.3	ug/L		05/03/23 14:11	05/06/23 20:26	1
2,4-Dinitrotoluene	ND		0.83	0.29	ug/L		05/03/23 14:11	05/06/23 20:26	1
2,6-Dinitrotoluene	ND		0.83	0.14	ug/L		05/03/23 14:11	05/06/23 20:26	1
2-Chloronaphthalene	ND		0.16	0.049	ug/L		05/03/23 14:11	05/06/23 20:26	1
2-Chlorophenol	ND		0.83	0.11	ug/L		05/03/23 14:11	05/06/23 20:26	1
2-Methylnaphthalene	ND		0.16	0.052	ug/L		05/03/23 14:11	05/06/23 20:26	1
2-Methylphenol	ND		0.83	0.25	ug/L		05/03/23 14:11	05/06/23 20:26	1
2-Nitroaniline	ND		4.2	0.46	ug/L		05/03/23 14:11	05/06/23 20:26	1
2-Nitrophenol	ND		0.83	0.16	ug/L		05/03/23 14:11	05/06/23 20:26	1
3,3'-Dichlorobenzidine	ND		0.83	0.49	ug/L		05/03/23 14:11	05/06/23 20:26	1
3-Nitroaniline	ND		4.2	0.36	ug/L		05/03/23 14:11	05/06/23 20:26	1
4,6-Dinitro-2-methylphenol	ND		4.2	1.2	ug/L		05/03/23 14:11	05/06/23 20:26	1
4-Bromophenyl phenyl ether	ND		0.83	0.27	ug/L		05/03/23 14:11	05/06/23 20:26	1
4-Chloro-3-methylphenol	ND		0.83	0.23	ug/L		05/03/23 14:11	05/06/23 20:26	1
4-Chloroaniline	ND		0.83	0.31	ug/L		05/03/23 14:11	05/06/23 20:26	1
4-Chlorophenyl phenyl ether	ND		0.83	0.18	ug/L		05/03/23 14:11	05/06/23 20:26	1
4-Nitroaniline	ND		4.2	0.30	ug/L		05/03/23 14:11	05/06/23 20:26	1
4-Nitrophenol	ND		4.2	0.78	ug/L		05/03/23 14:11	05/06/23 20:26	1
<b>Acenaphthene</b>	<b>0.074</b>	<b>J</b>	0.16	0.054	ug/L		05/03/23 14:11	05/06/23 20:26	1
Acenaphthylene	ND		0.16	0.054	ug/L		05/03/23 14:11	05/06/23 20:26	1
<b>Anthracene</b>	<b>0.39</b>		0.16	0.041	ug/L		05/03/23 14:11	05/06/23 20:26	1
Benzo[a]anthracene	ND		0.16	0.063	ug/L		05/03/23 14:11	05/06/23 20:26	1
Benzo[a]pyrene	ND		0.16	0.044	ug/L		05/03/23 14:11	05/06/23 20:26	1
Benzo[b]fluoranthene	ND		0.16	0.081	ug/L		05/03/23 14:11	05/06/23 20:26	1
Benzo[g,h,i]perylene	ND		0.16	0.058	ug/L		05/03/23 14:11	05/06/23 20:26	1
Benzo[k]fluoranthene	ND		0.16	0.073	ug/L		05/03/23 14:11	05/06/23 20:26	1
<b>Benzoic acid</b>	<b>1.8</b>	<b>J</b>	4.2	0.77	ug/L		05/03/23 14:11	05/06/23 20:26	1
Benzyl alcohol	ND		0.83	0.14	ug/L		05/03/23 14:11	05/06/23 20:26	1
Bis(2-chloroethoxy)methane	ND		0.83	0.13	ug/L		05/03/23 14:11	05/06/23 20:26	1
Bis(2-chloroethyl)ether	ND		0.16	0.033	ug/L		05/03/23 14:11	05/06/23 20:26	1
Bis(2-ethylhexyl) phthalate	ND		8.3	5.2	ug/L		05/03/23 14:11	05/06/23 20:26	1
bis(chloroisopropyl) ether	ND		0.16	0.048	ug/L		05/03/23 14:11	05/06/23 20:26	1
Butyl benzyl phthalate	ND		0.83	0.39	ug/L		05/03/23 14:11	05/06/23 20:26	1
Chrysene	ND		0.16	0.068	ug/L		05/03/23 14:11	05/06/23 20:26	1
Dibenz(a,h)anthracene	ND		0.16	0.060	ug/L		05/03/23 14:11	05/06/23 20:26	1
Dibenzofuran	ND		0.83	0.16	ug/L		05/03/23 14:11	05/06/23 20:26	1
Diethyl phthalate	ND		0.83	0.47	ug/L		05/03/23 14:11	05/06/23 20:26	1
Dimethyl phthalate	ND		0.83	0.17	ug/L		05/03/23 14:11	05/06/23 20:26	1

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-W-30A-042723**

**Lab Sample ID: 180-155744-5**

Date Collected: 04/27/23 11:29

Matrix: Water

Date Received: 04/28/23 09:10

**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>0.64</b>	<b>J</b>	0.83	0.62	ug/L		05/03/23 14:11	05/06/23 20:26	1
Di-n-octyl phthalate	ND	*+	0.83	0.57	ug/L		05/03/23 14:11	05/06/23 20:26	1
<b>Fluoranthene</b>	<b>0.053</b>	<b>J</b>	0.16	0.050	ug/L		05/03/23 14:11	05/06/23 20:26	1
Fluorene	ND		0.16	0.058	ug/L		05/03/23 14:11	05/06/23 20:26	1
Hexachlorobenzene	ND		0.16	0.047	ug/L		05/03/23 14:11	05/06/23 20:26	1
Hexachlorobutadiene	ND		0.16	0.058	ug/L		05/03/23 14:11	05/06/23 20:26	1
Hexachlorocyclopentadiene	ND		0.83	0.41	ug/L		05/03/23 14:11	05/06/23 20:26	1
Hexachloroethane	ND		0.83	0.11	ug/L		05/03/23 14:11	05/06/23 20:26	1
Indeno[1,2,3-cd]pyrene	ND		0.16	0.071	ug/L		05/03/23 14:11	05/06/23 20:26	1
Isophorone	ND		0.83	0.16	ug/L		05/03/23 14:11	05/06/23 20:26	1
Methylphenol, 3 & 4	ND		0.83	0.31	ug/L		05/03/23 14:11	05/06/23 20:26	1
Nitrobenzene	ND		1.7	0.42	ug/L		05/03/23 14:11	05/06/23 20:26	1
N-Nitrosodi-n-propylamine	ND		0.16	0.059	ug/L		05/03/23 14:11	05/06/23 20:26	1
N-Nitrosodiphenylamine	ND		0.83	0.099	ug/L		05/03/23 14:11	05/06/23 20:26	1
<b>Phenanthrene</b>	<b>0.076</b>	<b>J</b>	0.16	0.046	ug/L		05/03/23 14:11	05/06/23 20:26	1
Phenol	ND		0.83	0.41	ug/L		05/03/23 14:11	05/06/23 20:26	1
<b>Pyrene</b>	<b>0.050</b>	<b>J</b>	0.16	0.045	ug/L		05/03/23 14:11	05/06/23 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		23 - 128	05/03/23 14:11	05/06/23 20:26	1
2-Fluorobiphenyl	82		20 - 105	05/03/23 14:11	05/06/23 20:26	1
2-Fluorophenol (Surr)	89		20 - 105	05/03/23 14:11	05/06/23 20:26	1
Nitrobenzene-d5 (Surr)	88		20 - 107	05/03/23 14:11	05/06/23 20:26	1
Phenol-d5 (Surr)	84		20 - 106	05/03/23 14:11	05/06/23 20:26	1
Terphenyl-d14 (Surr)	101		22 - 120	05/03/23 14:11	05/06/23 20:26	1

**Client Sample ID: SUPE-W-10AR2-042723**

**Lab Sample ID: 180-155744-6**

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

**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		05/01/23 18:29	05/01/23 18:29	1
<b>1,2,4-Trimethylbenzene</b>	<b>6.9</b>		1.0	0.75	ug/L		05/01/23 18:29	05/01/23 18:29	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L		05/01/23 18:29	05/01/23 18:29	1
<b>Benzene</b>	<b>15</b>		1.0	0.41	ug/L		05/01/23 18:29	05/01/23 18:29	1
Chloromethane	ND		1.0	0.35	ug/L		05/01/23 18:29	05/01/23 18:29	1
<b>Ethylbenzene</b>	<b>25</b>		1.0	0.74	ug/L		05/01/23 18:29	05/01/23 18:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L		05/01/23 18:29	05/01/23 18:29	1
<b>m-Xylene &amp; p-Xylene</b>	<b>2.4</b>		2.0	0.66	ug/L		05/01/23 18:29	05/01/23 18:29	1
<b>Naphthalene</b>	<b>1.5</b>		1.0	0.43	ug/L		05/01/23 18:29	05/01/23 18:29	1
n-Butylbenzene	ND		1.0	0.64	ug/L		05/01/23 18:29	05/01/23 18:29	1
N-Propylbenzene	ND		1.0	0.69	ug/L		05/01/23 18:29	05/01/23 18:29	1
<b>o-Xylene</b>	<b>12</b>		1.0	0.76	ug/L		05/01/23 18:29	05/01/23 18:29	1
Styrene	ND		1.0	0.73	ug/L		05/01/23 18:29	05/01/23 18:29	1
<b>Toluene</b>	<b>1.7</b>		1.0	0.51	ug/L		05/01/23 18:29	05/01/23 18:29	1
<b>Xylenes, Total</b>	<b>14</b>		2.0	0.66	ug/L		05/01/23 18:29	05/01/23 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120	05/01/23 18:29	05/01/23 18:29	1

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-W-10AR2-042723**

**Lab Sample ID: 180-155744-6**

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		73 - 120		05/01/23 18:29	1
Dibromofluoromethane (Surr)	102		75 - 123		05/01/23 18:29	1
Toluene-d8 (Surr)	99		80 - 120		05/01/23 18:29	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		5.3	1.8	ug/L		05/02/23 09:25	05/05/23 12:53	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		24 - 146	05/02/23 09:25	05/05/23 12:53	5
2-Fluorobiphenyl	73		37 - 120	05/02/23 09:25	05/05/23 12:53	5
2-Fluorophenol (Surr)	42		10 - 120	05/02/23 09:25	05/05/23 12:53	5
Nitrobenzene-d5 (Surr)	59		26 - 120	05/02/23 09:25	05/05/23 12:53	5
Phenol-d5 (Surr)	25		11 - 120	05/02/23 09:25	05/05/23 12:53	5
p-Terphenyl-d14	88		64 - 127	05/02/23 09:25	05/05/23 12:53	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		0.86	0.11	ug/L		05/03/23 14:11	05/06/23 20:48	1
1,2-Dichlorobenzene	ND		0.86	0.082	ug/L		05/03/23 14:11	05/06/23 20:48	1
1,3-Dichlorobenzene	ND		0.86	0.085	ug/L		05/03/23 14:11	05/06/23 20:48	1
1,4-Dichlorobenzene	ND		0.86	0.053	ug/L		05/03/23 14:11	05/06/23 20:48	1
<b>1-Methylnaphthalene</b>	<b>7.3</b>		0.16	0.048	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,3,4,6-Tetrachlorophenol	ND		0.86	0.28	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,3,5,6-Tetrachlorophenol	ND		0.86	0.44	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,4,5-Trichlorophenol	ND		0.86	0.22	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,4,6-Trichlorophenol	ND		0.86	0.19	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,4-Dichlorophenol	ND		0.16	0.044	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,4-Dimethylphenol	ND		0.86	0.14	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,4-Dinitrophenol	ND		8.6	1.3	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,4-Dinitrotoluene	ND		0.86	0.30	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,6-Dinitrotoluene	ND		0.86	0.15	ug/L		05/03/23 14:11	05/06/23 20:48	1
2-Chloronaphthalene	ND		0.16	0.051	ug/L		05/03/23 14:11	05/06/23 20:48	1
2-Chlorophenol	ND		0.86	0.11	ug/L		05/03/23 14:11	05/06/23 20:48	1
2-Methylnaphthalene	ND		0.16	0.053	ug/L		05/03/23 14:11	05/06/23 20:48	1
2-Methylphenol	ND		0.86	0.26	ug/L		05/03/23 14:11	05/06/23 20:48	1
2-Nitroaniline	ND		4.3	0.47	ug/L		05/03/23 14:11	05/06/23 20:48	1
2-Nitrophenol	ND		0.86	0.17	ug/L		05/03/23 14:11	05/06/23 20:48	1
3,3'-Dichlorobenzidine	ND		0.86	0.50	ug/L		05/03/23 14:11	05/06/23 20:48	1
3-Nitroaniline	ND		4.3	0.38	ug/L		05/03/23 14:11	05/06/23 20:48	1
4,6-Dinitro-2-methylphenol	ND		4.3	1.3	ug/L		05/03/23 14:11	05/06/23 20:48	1
4-Bromophenyl phenyl ether	ND		0.86	0.28	ug/L		05/03/23 14:11	05/06/23 20:48	1
4-Chloro-3-methylphenol	ND		0.86	0.24	ug/L		05/03/23 14:11	05/06/23 20:48	1
4-Chloroaniline	ND		0.86	0.32	ug/L		05/03/23 14:11	05/06/23 20:48	1
4-Chlorophenyl phenyl ether	ND		0.86	0.19	ug/L		05/03/23 14:11	05/06/23 20:48	1
4-Nitroaniline	ND		4.3	0.31	ug/L		05/03/23 14:11	05/06/23 20:48	1
4-Nitrophenol	ND		4.3	0.81	ug/L		05/03/23 14:11	05/06/23 20:48	1
<b>Acenaphthene</b>	<b>39</b>	<b>E</b>	0.16	0.056	ug/L		05/03/23 14:11	05/06/23 20:48	1
<b>Acenaphthylene</b>	<b>0.86</b>		0.16	0.056	ug/L		05/03/23 14:11	05/06/23 20:48	1
<b>Anthracene</b>	<b>0.32</b>		0.16	0.042	ug/L		05/03/23 14:11	05/06/23 20:48	1

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-W-10AR2-042723**

**Lab Sample ID: 180-155744-6**

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

**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		0.16	0.065	ug/L		05/03/23 14:11	05/06/23 20:48	1
Benzo[a]pyrene	ND		0.16	0.046	ug/L		05/03/23 14:11	05/06/23 20:48	1
Benzo[b]fluoranthene	ND		0.16	0.084	ug/L		05/03/23 14:11	05/06/23 20:48	1
Benzo[g,h,i]perylene	ND		0.16	0.059	ug/L		05/03/23 14:11	05/06/23 20:48	1
Benzo[k]fluoranthene	ND		0.16	0.076	ug/L		05/03/23 14:11	05/06/23 20:48	1
Benzoic acid	ND		4.3	0.80	ug/L		05/03/23 14:11	05/06/23 20:48	1
Benzyl alcohol	ND		0.86	0.14	ug/L		05/03/23 14:11	05/06/23 20:48	1
Bis(2-chloroethoxy)methane	ND		0.86	0.13	ug/L		05/03/23 14:11	05/06/23 20:48	1
Bis(2-chloroethyl)ether	ND		0.16	0.034	ug/L		05/03/23 14:11	05/06/23 20:48	1
Bis(2-ethylhexyl) phthalate	ND		8.6	5.4	ug/L		05/03/23 14:11	05/06/23 20:48	1
bis(chloroisopropyl) ether	ND		0.16	0.050	ug/L		05/03/23 14:11	05/06/23 20:48	1
Butyl benzyl phthalate	ND		0.86	0.40	ug/L		05/03/23 14:11	05/06/23 20:48	1
Chrysene	ND		0.16	0.070	ug/L		05/03/23 14:11	05/06/23 20:48	1
Dibenz(a,h)anthracene	ND		0.16	0.062	ug/L		05/03/23 14:11	05/06/23 20:48	1
<b>Dibenzofuran</b>	<b>8.7</b>		0.86	0.16	ug/L		05/03/23 14:11	05/06/23 20:48	1
Diethyl phthalate	ND		0.86	0.49	ug/L		05/03/23 14:11	05/06/23 20:48	1
Dimethyl phthalate	ND		0.86	0.17	ug/L		05/03/23 14:11	05/06/23 20:48	1
Di-n-butyl phthalate	ND		0.86	0.64	ug/L		05/03/23 14:11	05/06/23 20:48	1
Di-n-octyl phthalate	ND	*+	0.86	0.59	ug/L		05/03/23 14:11	05/06/23 20:48	1
<b>Fluoranthene</b>	<b>0.78</b>		0.16	0.052	ug/L		05/03/23 14:11	05/06/23 20:48	1
<b>Fluorene</b>	<b>8.5</b>		0.16	0.059	ug/L		05/03/23 14:11	05/06/23 20:48	1
Hexachlorobenzene	ND		0.16	0.048	ug/L		05/03/23 14:11	05/06/23 20:48	1
Hexachlorobutadiene	ND		0.16	0.059	ug/L		05/03/23 14:11	05/06/23 20:48	1
Hexachlorocyclopentadiene	ND		0.86	0.43	ug/L		05/03/23 14:11	05/06/23 20:48	1
Hexachloroethane	ND		0.86	0.11	ug/L		05/03/23 14:11	05/06/23 20:48	1
Indeno[1,2,3-cd]pyrene	ND		0.16	0.073	ug/L		05/03/23 14:11	05/06/23 20:48	1
Isophorone	ND		0.86	0.16	ug/L		05/03/23 14:11	05/06/23 20:48	1
Methylphenol, 3 & 4	ND		0.86	0.32	ug/L		05/03/23 14:11	05/06/23 20:48	1
Nitrobenzene	ND		1.7	0.43	ug/L		05/03/23 14:11	05/06/23 20:48	1
N-Nitrosodi-n-propylamine	ND		0.16	0.061	ug/L		05/03/23 14:11	05/06/23 20:48	1
N-Nitrosodiphenylamine	ND		0.86	0.10	ug/L		05/03/23 14:11	05/06/23 20:48	1
<b>Phenanthrene</b>	<b>1.2</b>		0.16	0.047	ug/L		05/03/23 14:11	05/06/23 20:48	1
Phenol	ND		0.86	0.42	ug/L		05/03/23 14:11	05/06/23 20:48	1
<b>Pyrene</b>	<b>0.53</b>		0.16	0.047	ug/L		05/03/23 14:11	05/06/23 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		23 - 128	05/03/23 14:11	05/06/23 20:48	1
2-Fluorobiphenyl	64		20 - 105	05/03/23 14:11	05/06/23 20:48	1
2-Fluorophenol (Surr)	72		20 - 105	05/03/23 14:11	05/06/23 20:48	1
Nitrobenzene-d5 (Surr)	72		20 - 107	05/03/23 14:11	05/06/23 20:48	1
Phenol-d5 (Surr)	68		20 - 106	05/03/23 14:11	05/06/23 20:48	1
Terphenyl-d14 (Surr)	79		22 - 120	05/03/23 14:11	05/06/23 20:48	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		3.4	0.45	ug/L		05/03/23 14:11	05/10/23 09:51	4
1,2-Dichlorobenzene	ND		3.4	0.33	ug/L		05/03/23 14:11	05/10/23 09:51	4
1,3-Dichlorobenzene	ND		3.4	0.34	ug/L		05/03/23 14:11	05/10/23 09:51	4
1,4-Dichlorobenzene	ND		3.4	0.21	ug/L		05/03/23 14:11	05/10/23 09:51	4
<b>1-Methylnaphthalene</b>	<b>7.4</b>		0.66	0.19	ug/L		05/03/23 14:11	05/10/23 09:51	4

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-W-10AR2-042723**

**Lab Sample ID: 180-155744-6**

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	ND		3.4	1.1	ug/L		05/03/23 14:11	05/10/23 09:51	4
2,3,5,6-Tetrachlorophenol	ND		3.4	1.7	ug/L		05/03/23 14:11	05/10/23 09:51	4
2,4,5-Trichlorophenol	ND		3.4	0.87	ug/L		05/03/23 14:11	05/10/23 09:51	4
2,4,6-Trichlorophenol	ND		3.4	0.77	ug/L		05/03/23 14:11	05/10/23 09:51	4
2,4-Dichlorophenol	ND		0.66	0.18	ug/L		05/03/23 14:11	05/10/23 09:51	4
2,4-Dimethylphenol	ND		3.4	0.58	ug/L		05/03/23 14:11	05/10/23 09:51	4
2,4-Dinitrophenol	ND		34	5.3	ug/L		05/03/23 14:11	05/10/23 09:51	4
2,4-Dinitrotoluene	ND		3.4	1.2	ug/L		05/03/23 14:11	05/10/23 09:51	4
2,6-Dinitrotoluene	ND		3.4	0.60	ug/L		05/03/23 14:11	05/10/23 09:51	4
2-Chloronaphthalene	ND		0.66	0.20	ug/L		05/03/23 14:11	05/10/23 09:51	4
2-Chlorophenol	ND		3.4	0.44	ug/L		05/03/23 14:11	05/10/23 09:51	4
2-Methylnaphthalene	ND		0.66	0.21	ug/L		05/03/23 14:11	05/10/23 09:51	4
2-Methylphenol	ND		3.4	1.0	ug/L		05/03/23 14:11	05/10/23 09:51	4
2-Nitroaniline	ND		17	1.9	ug/L		05/03/23 14:11	05/10/23 09:51	4
2-Nitrophenol	ND		3.4	0.67	ug/L		05/03/23 14:11	05/10/23 09:51	4
3,3'-Dichlorobenzidine	ND		3.4	2.0	ug/L		05/03/23 14:11	05/10/23 09:51	4
3-Nitroaniline	ND		17	1.5	ug/L		05/03/23 14:11	05/10/23 09:51	4
4,6-Dinitro-2-methylphenol	ND		17	5.1	ug/L		05/03/23 14:11	05/10/23 09:51	4
4-Bromophenyl phenyl ether	ND		3.4	1.1	ug/L		05/03/23 14:11	05/10/23 09:51	4
4-Chloro-3-methylphenol	ND		3.4	0.96	ug/L		05/03/23 14:11	05/10/23 09:51	4
4-Chloroaniline	ND		3.4	1.3	ug/L		05/03/23 14:11	05/10/23 09:51	4
4-Chlorophenyl phenyl ether	ND		3.4	0.76	ug/L		05/03/23 14:11	05/10/23 09:51	4
4-Nitroaniline	ND		17	1.3	ug/L		05/03/23 14:11	05/10/23 09:51	4
4-Nitrophenol	ND		17	3.2	ug/L		05/03/23 14:11	05/10/23 09:51	4
<b>Acenaphthene</b>	<b>36</b>		0.66	0.22	ug/L		05/03/23 14:11	05/10/23 09:51	4
<b>Acenaphthylene</b>	<b>0.71</b>		0.66	0.22	ug/L		05/03/23 14:11	05/10/23 09:51	4
<b>Anthracene</b>	<b>0.29 J</b>		0.66	0.17	ug/L		05/03/23 14:11	05/10/23 09:51	4
Benzo[a]anthracene	ND		0.66	0.26	ug/L		05/03/23 14:11	05/10/23 09:51	4
Benzo[a]pyrene	ND		0.66	0.18	ug/L		05/03/23 14:11	05/10/23 09:51	4
Benzo[b]fluoranthene	ND		0.66	0.33	ug/L		05/03/23 14:11	05/10/23 09:51	4
Benzo[g,h,i]perylene	ND		0.66	0.24	ug/L		05/03/23 14:11	05/10/23 09:51	4
Benzo[k]fluoranthene	ND		0.66	0.30	ug/L		05/03/23 14:11	05/10/23 09:51	4
Benzoic acid	ND		17	3.2	ug/L		05/03/23 14:11	05/10/23 09:51	4
Benzyl alcohol	ND		3.4	0.56	ug/L		05/03/23 14:11	05/10/23 09:51	4
Bis(2-chloroethoxy)methane	ND		3.4	0.52	ug/L		05/03/23 14:11	05/10/23 09:51	4
Bis(2-chloroethyl)ether	ND		0.66	0.14	ug/L		05/03/23 14:11	05/10/23 09:51	4
Bis(2-ethylhexyl) phthalate	ND		34	21	ug/L		05/03/23 14:11	05/10/23 09:51	4
bis(chloroisopropyl) ether	ND		0.66	0.20	ug/L		05/03/23 14:11	05/10/23 09:51	4
Butyl benzyl phthalate	ND		3.4	1.6	ug/L		05/03/23 14:11	05/10/23 09:51	4
Chrysene	ND		0.66	0.28	ug/L		05/03/23 14:11	05/10/23 09:51	4
Dibenz(a,h)anthracene	ND		0.66	0.25	ug/L		05/03/23 14:11	05/10/23 09:51	4
<b>Dibenzofuran</b>	<b>9.0</b>		3.4	0.66	ug/L		05/03/23 14:11	05/10/23 09:51	4
Diethyl phthalate	ND		3.4	2.0	ug/L		05/03/23 14:11	05/10/23 09:51	4
Dimethyl phthalate	ND		3.4	0.69	ug/L		05/03/23 14:11	05/10/23 09:51	4
Di-n-butyl phthalate	ND		3.4	2.6	ug/L		05/03/23 14:11	05/10/23 09:51	4
Di-n-octyl phthalate	ND	+	3.4	2.4	ug/L		05/03/23 14:11	05/10/23 09:51	4
<b>Fluoranthene</b>	<b>0.79</b>		0.66	0.21	ug/L		05/03/23 14:11	05/10/23 09:51	4
<b>Fluorene</b>	<b>9.1</b>		0.66	0.24	ug/L		05/03/23 14:11	05/10/23 09:51	4
Hexachlorobenzene	ND		0.66	0.19	ug/L		05/03/23 14:11	05/10/23 09:51	4

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# Client Sample Results

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

Job ID: 180-155744-1

**Client Sample ID: SUPE-W-10AR2-042723**

**Lab Sample ID: 180-155744-6**

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.66	0.24	ug/L		05/03/23 14:11	05/10/23 09:51	4
Hexachlorocyclopentadiene	ND		3.4	1.7	ug/L		05/03/23 14:11	05/10/23 09:51	4
Hexachloroethane	ND		3.4	0.46	ug/L		05/03/23 14:11	05/10/23 09:51	4
Indeno[1,2,3-cd]pyrene	ND		0.66	0.29	ug/L		05/03/23 14:11	05/10/23 09:51	4
Isophorone	ND		3.4	0.65	ug/L		05/03/23 14:11	05/10/23 09:51	4
Methylphenol, 3 & 4	ND		3.4	1.3	ug/L		05/03/23 14:11	05/10/23 09:51	4
Nitrobenzene	ND		6.9	1.7	ug/L		05/03/23 14:11	05/10/23 09:51	4
N-Nitrosodi-n-propylamine	ND		0.66	0.24	ug/L		05/03/23 14:11	05/10/23 09:51	4
N-Nitrosodiphenylamine	ND		3.4	0.41	ug/L		05/03/23 14:11	05/10/23 09:51	4
<b>Phenanthrene</b>	<b>1.2</b>		0.66	0.19	ug/L		05/03/23 14:11	05/10/23 09:51	4
Phenol	ND		3.4	1.7	ug/L		05/03/23 14:11	05/10/23 09:51	4
<b>Pyrene</b>	<b>0.41 J</b>		0.66	0.19	ug/L		05/03/23 14:11	05/10/23 09:51	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol (Surr)	56		23 - 128				05/03/23 14:11	05/10/23 09:51	4
2-Fluorobiphenyl	59		20 - 105				05/03/23 14:11	05/10/23 09:51	4
2-Fluorophenol (Surr)	49		20 - 105				05/03/23 14:11	05/10/23 09:51	4
Nitrobenzene-d5 (Surr)	51		20 - 107				05/03/23 14:11	05/10/23 09:51	4
Phenol-d5 (Surr)	55		20 - 106				05/03/23 14:11	05/10/23 09:51	4
Terphenyl-d14 (Surr)	64		22 - 120				05/03/23 14:11	05/10/23 09:51	4

# QC Sample Results

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

Job ID: 180-155744-1

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

**Lab Sample ID: MB 480-667627/8**  
**Matrix: Water**  
**Analysis Batch: 667627**

**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			05/01/23 13:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 13:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 13:40	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 13:40	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 13:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 13:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 13:40	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 13:40	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 13:40	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 13:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 13:40	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 13:40	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 13:40	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 13:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 13:40	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		05/01/23 13:40	1
4-Bromofluorobenzene (Surr)	97		73 - 120		05/01/23 13:40	1
Dibromofluoromethane (Surr)	102		75 - 123		05/01/23 13:40	1
Toluene-d8 (Surr)	99		80 - 120		05/01/23 13:40	1

**Lab Sample ID: LCS 480-667627/6**  
**Matrix: Water**  
**Analysis Batch: 667627**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	25.0	21.7		ug/L		87	76 - 121
1,3,5-Trimethylbenzene	25.0	21.7		ug/L		87	77 - 121
Benzene	25.0	21.9		ug/L		88	71 - 124
Chloromethane	25.0	19.3		ug/L		77	68 - 124
Ethylbenzene	25.0	21.5		ug/L		86	77 - 123
Methyl tert-butyl ether	25.0	20.6		ug/L		83	77 - 120
m-Xylene & p-Xylene	25.0	22.3		ug/L		89	76 - 122
Naphthalene	25.0	21.7		ug/L		87	66 - 125
n-Butylbenzene	25.0	22.8		ug/L		91	71 - 128
N-Propylbenzene	25.0	21.8		ug/L		87	75 - 127
o-Xylene	25.0	22.5		ug/L		90	76 - 122
Styrene	25.0	22.1		ug/L		88	80 - 120
Toluene	25.0	21.6		ug/L		86	80 - 122
Xylenes, Total	50.0	44.8		ug/L		90	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	98		80 - 120

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# QC Sample Results

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

Job ID: 180-155744-1

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

**Lab Sample ID: MB 480-667743/1-A**  
**Matrix: Water**  
**Analysis Batch: 668191**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 667743**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/23 09:25	05/04/23 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	53		24 - 146				05/02/23 09:25	05/04/23 14:13	1
2-Fluorobiphenyl	104		37 - 120				05/02/23 09:25	05/04/23 14:13	1
2-Fluorophenol (Surr)	51		10 - 120				05/02/23 09:25	05/04/23 14:13	1
Nitrobenzene-d5 (Surr)	87		26 - 120				05/02/23 09:25	05/04/23 14:13	1
Phenol-d5 (Surr)	38		11 - 120				05/02/23 09:25	05/04/23 14:13	1
p-Terphenyl-d14	111		64 - 127				05/02/23 09:25	05/04/23 14:13	1

**Lab Sample ID: LCS 480-667743/2-A**  
**Matrix: Water**  
**Analysis Batch: 668191**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 667743**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachlorophenol	16.0	13.8		ug/L		86	10 - 131
Surrogate	%Recovery	Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	99		24 - 146				
2-Fluorobiphenyl	93		37 - 120				
2-Fluorophenol (Surr)	53		10 - 120				
Nitrobenzene-d5 (Surr)	82		26 - 120				
Phenol-d5 (Surr)	37		11 - 120				
p-Terphenyl-d14	99		64 - 127				

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

**Lab Sample ID: MB 180-434154/1-A**  
**Matrix: Water**  
**Analysis Batch: 434343**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 434154**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L		05/03/23 14:11	05/05/23 08:25	1
1,2-Dichlorobenzene	ND		1.0	0.095	ug/L		05/03/23 14:11	05/05/23 08:25	1
1,3-Dichlorobenzene	ND		1.0	0.099	ug/L		05/03/23 14:11	05/05/23 08:25	1
1,4-Dichlorobenzene	ND		1.0	0.061	ug/L		05/03/23 14:11	05/05/23 08:25	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		05/03/23 14:11	05/05/23 08:25	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		05/03/23 14:11	05/05/23 08:25	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		05/03/23 14:11	05/05/23 08:25	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		05/03/23 14:11	05/05/23 08:25	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		05/03/23 14:11	05/05/23 08:25	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		05/03/23 14:11	05/05/23 08:25	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		05/03/23 14:11	05/05/23 08:25	1
2,4-Dinitrophenol	ND		10	1.5	ug/L		05/03/23 14:11	05/05/23 08:25	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		05/03/23 14:11	05/05/23 08:25	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		05/03/23 14:11	05/05/23 08:25	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		05/03/23 14:11	05/05/23 08:25	1
2-Chlorophenol	ND		1.0	0.13	ug/L		05/03/23 14:11	05/05/23 08:25	1

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# QC Sample Results

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

Job ID: 180-155744-1

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

**Lab Sample ID: MB 180-434154/1-A**  
**Matrix: Water**  
**Analysis Batch: 434343**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 434154**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
	Result	Qualifier							
2-Methylnaphthalene	ND		0.19	0.062	ug/L		05/03/23 14:11	05/05/23 08:25	1
2-Methylphenol	ND		1.0	0.30	ug/L		05/03/23 14:11	05/05/23 08:25	1
2-Nitroaniline	ND		5.0	0.55	ug/L		05/03/23 14:11	05/05/23 08:25	1
2-Nitrophenol	ND		1.0	0.19	ug/L		05/03/23 14:11	05/05/23 08:25	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		05/03/23 14:11	05/05/23 08:25	1
3-Nitroaniline	ND		5.0	0.44	ug/L		05/03/23 14:11	05/05/23 08:25	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		05/03/23 14:11	05/05/23 08:25	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		05/03/23 14:11	05/05/23 08:25	1
4-Chloro-3-methylphenol	ND		1.0	0.28	ug/L		05/03/23 14:11	05/05/23 08:25	1
4-Chloroaniline	ND		1.0	0.38	ug/L		05/03/23 14:11	05/05/23 08:25	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		05/03/23 14:11	05/05/23 08:25	1
4-Nitroaniline	ND		5.0	0.36	ug/L		05/03/23 14:11	05/05/23 08:25	1
4-Nitrophenol	ND		5.0	0.94	ug/L		05/03/23 14:11	05/05/23 08:25	1
Acenaphthene	ND		0.19	0.065	ug/L		05/03/23 14:11	05/05/23 08:25	1
Acenaphthylene	ND		0.19	0.065	ug/L		05/03/23 14:11	05/05/23 08:25	1
Anthracene	ND		0.19	0.049	ug/L		05/03/23 14:11	05/05/23 08:25	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		05/03/23 14:11	05/05/23 08:25	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		05/03/23 14:11	05/05/23 08:25	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		05/03/23 14:11	05/05/23 08:25	1
Benzo[g,h,i]perylene	ND		0.19	0.069	ug/L		05/03/23 14:11	05/05/23 08:25	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		05/03/23 14:11	05/05/23 08:25	1
Benzoic acid	ND		5.0	0.92	ug/L		05/03/23 14:11	05/05/23 08:25	1
Benzyl alcohol	ND		1.0	0.16	ug/L		05/03/23 14:11	05/05/23 08:25	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		05/03/23 14:11	05/05/23 08:25	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		05/03/23 14:11	05/05/23 08:25	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		05/03/23 14:11	05/05/23 08:25	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		05/03/23 14:11	05/05/23 08:25	1
Butyl benzyl phthalate	ND		1.0	0.46	ug/L		05/03/23 14:11	05/05/23 08:25	1
Chrysene	ND		0.19	0.081	ug/L		05/03/23 14:11	05/05/23 08:25	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		05/03/23 14:11	05/05/23 08:25	1
Dibenzofuran	ND		1.0	0.19	ug/L		05/03/23 14:11	05/05/23 08:25	1
Diethyl phthalate	ND		1.0	0.57	ug/L		05/03/23 14:11	05/05/23 08:25	1
Dimethyl phthalate	ND		1.0	0.20	ug/L		05/03/23 14:11	05/05/23 08:25	1
Di-n-butyl phthalate	ND		1.0	0.74	ug/L		05/03/23 14:11	05/05/23 08:25	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		05/03/23 14:11	05/05/23 08:25	1
Fluoranthene	ND		0.19	0.060	ug/L		05/03/23 14:11	05/05/23 08:25	1
Fluorene	ND		0.19	0.069	ug/L		05/03/23 14:11	05/05/23 08:25	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		05/03/23 14:11	05/05/23 08:25	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		05/03/23 14:11	05/05/23 08:25	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		05/03/23 14:11	05/05/23 08:25	1
Hexachloroethane	ND		1.0	0.13	ug/L		05/03/23 14:11	05/05/23 08:25	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		05/03/23 14:11	05/05/23 08:25	1
Isophorone	ND		1.0	0.19	ug/L		05/03/23 14:11	05/05/23 08:25	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		05/03/23 14:11	05/05/23 08:25	1
Nitrobenzene	ND		2.0	0.50	ug/L		05/03/23 14:11	05/05/23 08:25	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		05/03/23 14:11	05/05/23 08:25	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		05/03/23 14:11	05/05/23 08:25	1
Phenanthrene	ND		0.19	0.055	ug/L		05/03/23 14:11	05/05/23 08:25	1
Phenol	ND		1.0	0.49	ug/L		05/03/23 14:11	05/05/23 08:25	1

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# QC Sample Results

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

Job ID: 180-155744-1

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

**Lab Sample ID: MB 180-434154/1-A**  
**Matrix: Water**  
**Analysis Batch: 434343**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 434154**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		0.19	0.054	ug/L		05/03/23 14:11	05/05/23 08:25	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		23 - 128				05/03/23 14:11	05/05/23 08:25	1
2-Fluorobiphenyl	74		20 - 105				05/03/23 14:11	05/05/23 08:25	1
2-Fluorophenol (Surr)	91		20 - 105				05/03/23 14:11	05/05/23 08:25	1
Nitrobenzene-d5 (Surr)	81		20 - 107				05/03/23 14:11	05/05/23 08:25	1
Phenol-d5 (Surr)	87		20 - 106				05/03/23 14:11	05/05/23 08:25	1
Terphenyl-d14 (Surr)	92		22 - 120				05/03/23 14:11	05/05/23 08:25	1

**Lab Sample ID: LCS 180-434154/2-A**  
**Matrix: Water**  
**Analysis Batch: 434343**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 434154**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	20.0	15.9		ug/L		80	51 - 100
1,2-Dichlorobenzene	20.0	15.3		ug/L		76	51 - 100
1,3-Dichlorobenzene	20.0	15.3		ug/L		77	51 - 100
1,4-Dichlorobenzene	20.0	15.3		ug/L		76	52 - 100
1-Methylnaphthalene	20.0	15.8		ug/L		79	53 - 100
2,3,4,6-Tetrachlorophenol	20.0	15.9		ug/L		80	50 - 100
2,4,5-Trichlorophenol	20.0	16.6		ug/L		83	55 - 100
2,4,6-Trichlorophenol	20.0	16.3		ug/L		81	54 - 100
2,4-Dichlorophenol	20.0	16.7		ug/L		83	55 - 100
2,4-Dimethylphenol	20.0	16.1		ug/L		81	51 - 100
2,4-Dinitrophenol	40.0	22.5		ug/L		56	32 - 100
2,4-Dinitrotoluene	20.0	16.1		ug/L		81	56 - 100
2,6-Dinitrotoluene	20.0	16.2		ug/L		81	56 - 101
2-Chloronaphthalene	20.0	15.7		ug/L		78	52 - 100
2-Chlorophenol	20.0	15.8		ug/L		79	53 - 100
2-Methylnaphthalene	20.0	16.2		ug/L		81	53 - 100
2-Methylphenol	20.0	16.3		ug/L		82	51 - 100
2-Nitroaniline	20.0	18.8		ug/L		94	47 - 104
2-Nitrophenol	20.0	18.3		ug/L		92	56 - 100
3,3'-Dichlorobenzidine	20.0	13.9		ug/L		70	42 - 100
3-Nitroaniline	20.0	16.7		ug/L		83	54 - 100
4,6-Dinitro-2-methylphenol	40.0	28.3		ug/L		71	48 - 100
4-Bromophenyl phenyl ether	20.0	16.9		ug/L		85	50 - 100
4-Chloro-3-methylphenol	20.0	16.2		ug/L		81	47 - 105
4-Chloroaniline	20.0	15.7		ug/L		78	48 - 100
4-Chlorophenyl phenyl ether	20.0	15.6		ug/L		78	52 - 100
4-Nitroaniline	20.0	16.0		ug/L		80	54 - 100
4-Nitrophenol	40.0	30.7		ug/L		77	37 - 120
Acenaphthene	20.0	15.5		ug/L		77	51 - 100
Acenaphthylene	20.0	16.5		ug/L		82	54 - 100
Anthracene	20.0	16.6		ug/L		83	54 - 100
Benzo[a]anthracene	20.0	16.6		ug/L		83	52 - 100
Benzo[a]pyrene	20.0	16.0		ug/L		80	52 - 100

Eurofins Pittsburgh

# QC Sample Results

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

Job ID: 180-155744-1

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

**Lab Sample ID: LCS 180-434154/2-A**  
**Matrix: Water**  
**Analysis Batch: 434343**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 434154**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[b]fluoranthene	20.0	14.9		ug/L		75	50 - 100
Benzo[g,h,i]perylene	20.0	15.4		ug/L		77	53 - 100
Benzo[k]fluoranthene	20.0	16.0		ug/L		80	49 - 100
Benzoic acid	20.0	19.4		ug/L		97	31 - 122
Benzyl alcohol	20.0	12.7		ug/L		64	33 - 107
Bis(2-chloroethoxy)methane	20.0	16.5		ug/L		83	49 - 100
Bis(2-chloroethyl)ether	20.0	15.9		ug/L		80	46 - 100
Bis(2-ethylhexyl) phthalate	20.0	18.5		ug/L		93	52 - 101
bis(chloroisopropyl) ether	20.0	16.4		ug/L		82	29 - 102
Butyl benzyl phthalate	20.0	18.8		ug/L		94	52 - 100
Chrysene	20.0	15.9		ug/L		80	51 - 100
Dibenz(a,h)anthracene	20.0	16.0		ug/L		80	52 - 101
Dibenzofuran	20.0	15.7		ug/L		78	53 - 100
Diethyl phthalate	20.0	15.7		ug/L		79	52 - 100
Dimethyl phthalate	20.0	16.1		ug/L		80	55 - 100
Di-n-butyl phthalate	20.0	17.1		ug/L		86	57 - 100
Di-n-octyl phthalate	20.0	20.4	*+	ug/L		102	41 - 100
Fluoranthene	20.0	15.2		ug/L		76	56 - 100
Fluorene	20.0	16.0		ug/L		80	53 - 100
Hexachlorobenzene	20.0	16.3		ug/L		81	46 - 100
Hexachlorobutadiene	20.0	16.0		ug/L		80	42 - 101
Hexachlorocyclopentadiene	20.0	15.8		ug/L		79	38 - 102
Hexachloroethane	20.0	15.6		ug/L		78	46 - 100
Indeno[1,2,3-cd]pyrene	20.0	16.4		ug/L		82	54 - 100
Isophorone	20.0	17.1		ug/L		85	50 - 100
Methylphenol, 3 & 4	20.0	15.7		ug/L		78	51 - 100
Nitrobenzene	20.0	16.1		ug/L		80	47 - 100
N-Nitrosodi-n-propylamine	20.0	16.4		ug/L		82	43 - 103
N-Nitrosodiphenylamine	20.0	17.0		ug/L		85	53 - 100
Phenanthrene	20.0	15.8		ug/L		79	53 - 100
Phenol	20.0	15.7		ug/L		79	49 - 100
Pyrene	20.0	17.9		ug/L		89	53 - 100

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	80		23 - 128
2-Fluorobiphenyl	74		20 - 105
2-Fluorophenol (Surr)	79		20 - 105
Nitrobenzene-d5 (Surr)	81		20 - 107
Phenol-d5 (Surr)	81		20 - 106
Terphenyl-d14 (Surr)	82		22 - 120



# QC Association Summary

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

Job ID: 180-155744-1

## GC/MS VOA

### Analysis Batch: 667627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155744-1	SUPE-W-04AR2-042723	Total/NA	Water	8260C	
180-155744-2	SUPE-W-99B-042723	Total/NA	Water	8260C	
180-155744-3	SUPE-W-12A-042723	Total/NA	Water	8260C	
180-155744-4	SUPE-EB-02-042723	Total/NA	Water	8260C	
180-155744-5	SUPE-W-30A-042723	Total/NA	Water	8260C	
180-155744-6	SUPE-W-10AR2-042723	Total/NA	Water	8260C	
MB 480-667627/8	Method Blank	Total/NA	Water	8260C	
LCS 480-667627/6	Lab Control Sample	Total/NA	Water	8260C	

## GC/MS Semi VOA

### Prep Batch: 434154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155744-1	SUPE-W-04AR2-042723	Total/NA	Water	3520C	
180-155744-2	SUPE-W-99B-042723	Total/NA	Water	3520C	
180-155744-3	SUPE-W-12A-042723	Total/NA	Water	3520C	
180-155744-4	SUPE-EB-02-042723	Total/NA	Water	3520C	
180-155744-5	SUPE-W-30A-042723	Total/NA	Water	3520C	
180-155744-6	SUPE-W-10AR2-042723	Total/NA	Water	3520C	
180-155744-6 - DL	SUPE-W-10AR2-042723	Total/NA	Water	3520C	
MB 180-434154/1-A	Method Blank	Total/NA	Water	3520C	
LCS 180-434154/2-A	Lab Control Sample	Total/NA	Water	3520C	

### Analysis Batch: 434343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155744-1	SUPE-W-04AR2-042723	Total/NA	Water	EPA 8270E LL	434154
180-155744-2	SUPE-W-99B-042723	Total/NA	Water	EPA 8270E LL	434154
MB 180-434154/1-A	Method Blank	Total/NA	Water	EPA 8270E LL	434154
LCS 180-434154/2-A	Lab Control Sample	Total/NA	Water	EPA 8270E LL	434154

### Analysis Batch: 434450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155744-3	SUPE-W-12A-042723	Total/NA	Water	EPA 8270E LL	434154
180-155744-4	SUPE-EB-02-042723	Total/NA	Water	EPA 8270E LL	434154
180-155744-5	SUPE-W-30A-042723	Total/NA	Water	EPA 8270E LL	434154
180-155744-6	SUPE-W-10AR2-042723	Total/NA	Water	EPA 8270E LL	434154

### Analysis Batch: 434715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155744-6 - DL	SUPE-W-10AR2-042723	Total/NA	Water	EPA 8270E LL	434154

### Prep Batch: 667743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155744-1	SUPE-W-04AR2-042723	Total/NA	Water	3510C	
180-155744-2	SUPE-W-99B-042723	Total/NA	Water	3510C	
180-155744-3	SUPE-W-12A-042723	Total/NA	Water	3510C	
180-155744-4	SUPE-EB-02-042723	Total/NA	Water	3510C	
180-155744-5	SUPE-W-30A-042723	Total/NA	Water	3510C	
180-155744-6	SUPE-W-10AR2-042723	Total/NA	Water	3510C	
MB 480-667743/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-667743/2-A	Lab Control Sample	Total/NA	Water	3510C	

Eurofins Pittsburgh

# QC Association Summary

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

Job ID: 180-155744-1

## GC/MS Semi VOA

### Analysis Batch: 668191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155744-1	SUPE-W-04AR2-042723	Total/NA	Water	8270D LL	667743
180-155744-2	SUPE-W-99B-042723	Total/NA	Water	8270D LL	667743
180-155744-3	SUPE-W-12A-042723	Total/NA	Water	8270D LL	667743
180-155744-4	SUPE-EB-02-042723	Total/NA	Water	8270D LL	667743
MB 480-667743/1-A	Method Blank	Total/NA	Water	8270D LL	667743
LCS 480-667743/2-A	Lab Control Sample	Total/NA	Water	8270D LL	667743

### Analysis Batch: 668304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155744-5	SUPE-W-30A-042723	Total/NA	Water	8270D LL	667743
180-155744-6	SUPE-W-10AR2-042723	Total/NA	Water	8270D LL	667743



Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502083

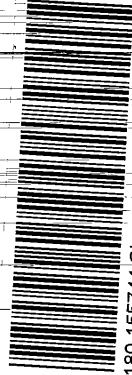


Client: Beazer East, Inc.  
Contact: slindquist.2006@fts.com

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TAKNOX  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	8290_Dioxins/Furans (Knoxville) (1L)	Notes:
04/27/2023	0855	GW	SUPE-WV-04AR2-042723	2	None	2	
04/27/2023	1030	GW	SUPE-WV-99B-042723	2		2	
				<b>Total Bottle Count</b>			



180-155744 Chain of Custody

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Shane Lindquist</i> Printed Name: Shane Lindquist Firm: FTS Date/Time: 04/27/2023 1647	Signature: <i>Melissa Rumbel</i> Printed Name: Melissa Rumbel Firm: FTS Date/Time: 4-27-23 0910	Signature: Printed Name: Firm: Date/Time:	Signature: Printed Name: Firm: Date/Time:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard



REF.# 502081

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM



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

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TACHI  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	Notes
04/27/2023	0855	GW	SUPE-W-04AR2-042723	2	None	
04/27/2023	1030	GW	SUPE-W-99B-042723	2	B270D, SVOC (less naphtha) (Chicago)	
				<b>Total Bottle Count</b>		

Relinquished by:	Received by:	Relinquished by:	Received by:
<i>Shane Lindquist</i>	<i>Shane Lindquist</i>	Signature:	Signature:
Printed Name: Shane Lindquist	Printed Name: Shane Lindquist	Printed Name:	Printed Name:
Firm: FTS	Firm: FTS	Firm:	Firm:
Date/Time: 5/19/2023 0810	Date/Time: 5/19/2023 0810	Date/Time:	Date/Time:
		Turnaround Requirements	
		<input type="checkbox"/> Rush	<input checked="" type="checkbox"/> Standard





Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502076



Client: Beazer East, Inc.  
Contact: mferrick.2006@fts.com

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TAKNOX  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	Total Bottle Count	Notes:
04/27/2023	0844	GW	SUPE-W-12A-042723	8290_Dioxins/Furans (Knoxville) (TL)	None	2	
04/27/2023	1100	GW	SUPE-EB-02-042723			2	
04/27/2023	1129	GW	SUPE-W-30A-042723			2	
04/27/2023	1433	GW	SUPE-W-10AR2-042723			2	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Marie Ferrick</i>	Signature: <i>Marie Ferrick</i>	Signature:	Signature:	<input type="checkbox"/> Rush
Printed Name: Marie Ferrick	Printed Name: Marie Ferrick	Printed Name:	Printed Name:	<input checked="" type="checkbox"/> Standard
Firm: FTS	Firm: FTS	Firm:	Firm:	
Date/Time: 04/27/2023 2212	Date/Time: 04/27/2023 0910	Date/Time:	Date/Time:	





Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502074



Client: Beazer East, Inc.  
Contact: mfernick.2006@fts.com

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TACHI  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	Notes:
				8270D_SVOC (less naphtha) (Chicago)	None	
				Total Bottle Count		
04/27/2023	0844	GW	SUPE-W-12A-042723	2		
04/27/2023	1100	GW	SUPE-EB-02-042723	2		
04/27/2023	1129	GW	SUPE-W-30A-042723	2		
04/27/2023	1433	GW	SUPE-W-10AR2-042723	2		

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Marie Ferrick</i>	Signature: <i>Alexander</i>	Signature:	Signature:	<input type="checkbox"/> Rush
Printed Name: Marie Ferrick	Printed Name: Alexander	Printed Name:	Printed Name:	<input checked="" type="checkbox"/> Standard
Firm: FTS	Firm: FTS	Firm:	Firm:	
Date/Time: 04/27/2023 2212	Date/Time: 4/28/23 0910	Date/Time:	Date/Time:	





Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502082  
[REDACTED]

**Project Name:** Superior, WI - 2023 OM&M Program  
**Project Number:** OM-0556-23  
**Laboratory:** TABUF  
**Shipment Method:** FEDEX  
**Program:** Superior 2023 1SA Sampling\_001

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

**Client:** Beazer East, Inc.  
**Contact:** slindquist.2006@fts.com

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					HCL	None		
04/27/2023	0855	GW	SUPE-W-04AR2-042723	8260C_VOA+naphtha (Buffalo)	8270D_LL_PCP (Buffalo) (TL)	3	3	
04/27/2023	1030	GW	SUPE-W-99B-042723	8260C_VOA+naphtha (Buffalo)	8270D_LL_PCP (Buffalo) (TL)	3	3	

Relinquished by:		Received by:		Relinquished by:		Received by:		Turnaround Requirements	
<i>Shane Lindquist</i>		<i>Kenya Bush</i>		<i>Kenya Bush</i>		<i>Kenya Bush</i>		<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard	
Printed Name: Shane Lindquist		Printed Name: Kenya Bush		Printed Name: Kenya Bush		Printed Name: Kenya Bush		Firm	
Firm: FTS		Firm: FTS		Firm: FTS		Firm: FTS		Date/Time: 04/27/2023 1647	
Date/Time: 04/27/2023 1647		Date/Time: 4-28-23 0910		Date/Time: 4-28-23 0910		Date/Time: 4-28-23 0910		Date/Time: 4-28-23 0910	



Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502075



Client: Beazer East, Inc.  
Contact: mferrick.2006@fts.com

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

Project Name: Superior, VI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TABUF  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					8260C_VOA+naphtha (Buffalo)	8270D_LL_PCP (Buffalo) (1L)		
04/27/2023	0844	GW	SUPE-W-12A-042723		3	None	6	
04/27/2023	1100	GW	SUPE-EB-02-042723		3		6	
04/27/2023	1129	GW	SUPE-W-30A-042723		3		6	
04/27/2023	1433	GW	SUPE-W-10AR2-042723		3		6	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Marie Ferrick</i>	Signature: <i>Marie Ferrick</i>	Signature: <i>Marie Ferrick</i>	Signature: <i>Marie Ferrick</i>	<input type="checkbox"/> Rush
Printed Name: Marie Ferrick	Printed Name: Marie Ferrick	Printed Name: Marie Ferrick	Printed Name: Marie Ferrick	<input checked="" type="checkbox"/> Standard
Firm: FTS	Firm: FTS	Firm: FTS	Firm: FTS	
Date/Time: 04/27/2023 2212	Date/Time: 4-28-23 0910	Date/Time: 4-28-23 0910	Date/Time: 4-28-23 0910	





ORIGIN TO: AGCA (21  
STEVEN WILLIS  
KOPPERS INC RAIL  
3185 SOUTH COUNTRY

SUPERIOR, WI 54880  
UNITED STATES: US

TO SHIPPING / RE  
EUROFINS ENVIRONMENT TESTING NE LLC  
301 ALPHA DRIVE

PITTSBURGH PA 152382907

(412) 963-7068 REF: DEPT:

RMA  
Uncorrected temp  
Thermometer ID 410-17  
CF 0 Initials JD  
PT-WI-SR-001 effective 11/8/18

FedEx  
Express

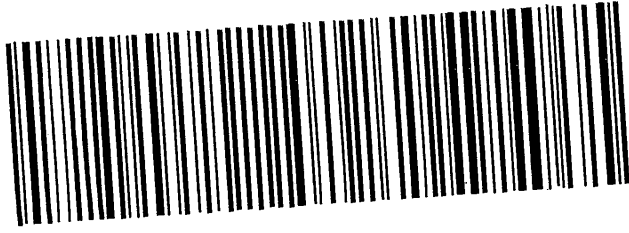
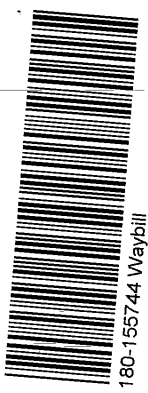


FedEx  
TRK# 6426 1927 1988  
0221

FRI - 28 APR 10:30A  
PRIORITY OVERNIGHT

XN AGCA

15238  
PA-US PI



#5115555 04/27 583J3/78CF/FE2D

NO CHAIN

STEVEN  
KOPPERS INC BRICKROAD  
3185 SOUTH COUNTRY ROAD A  
SUPERIOR, WI 54880  
UNITED STATES US


TO SHIPPING / RECEIVING  
EUROFINS ENVIRONMENT TESTING NE LLC  
301 ALPHA DRIVE

PITTSBURGH PA 152382907

(412) 963-7058

REF:

DEPT:

RMA: 

Uncorrected temp  
Thermometer ID 2.1

CF 0 Initials JD

PT-WI-SR-001 effective 11/8/18

FedEx  
Express



AT 109090220822Z

FedEx  
TRK# 6426 1927 1977  
0221

FRI - 28 APR 10:30A  
PRIORITY OVERNIGHT

XN AGCA

15238  
PA-US PIT



\*5115555 04/27 583J3/78CF/FE2D

NO CHAIN

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

ORIGIN ID: AGCA (21) T-04  
 STEVEN WILLIS  
 KOPPERS INC RAILI  
 3105 SOUTH COUNTR  
 SUPERIOR, WI 54880  
 UNITED STATES: US

RT 190  
 FZ 197

03/CAFE362

1594532294 8094/ES981 ZL

TO SHIPPING / RE  
 EUROFINS ENVIRONMENT TESTING NE LLC  
 301 ALPHA DRIVE

PITTSBURGH PA 152382907

(412) 963-7058 REF:  
 INU: DEPT:  
 PO:

RMA



Uncorrected temp

Thermometer ID 410

CF 0 Initials JD

PT-WI-SR-001 effective 11/8/18

FedEx  
 Express



AN109090202822T

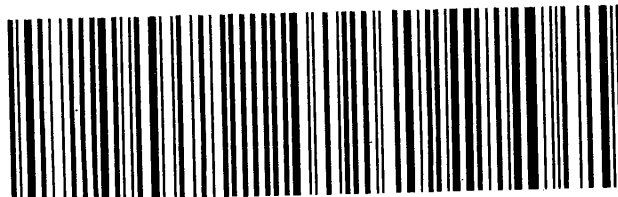
FedEx  
 TRK# 6426 1927 1988  
 0221

FRI - 28 APR 10:30A  
 PRIORITY OVERNIGHT

XN AGCA

15238  
 PA-US PI

297-4-48  
 FILE EXP 08/22



W5115555 04/27 583J3/78CF/FE2D

NO CHAIN



180-155744 Waybill

STEVEN KOPPERS INC RAILROAD  
3185 SOUTH COUNTRY ROAD A

SUPERIOR, WI 54880  
UNITED STATES US


TO SHIPPING / RECEIVING  
EUROFINS ENVIRONMENT TESTING NE LLC  
301 ALPHA DRIVE

PITTSBURGH PA 152382907

(412) 963-7058

REF:

DEPT:

RMA: 

Uncorrected temp  
Thermometer ID 2.1

CF 0 Initials JD

PT-WI-SR-001 effective 11/8/18

FedEx  
Express



APR 28 2018 10:30A

FedEx

TRK# 6426 1927 1977

0221

FRI - 28 APR 10:30A  
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US

PI

EXP 09/22



#5115555 04/27 583J3/78CF/FE2D

NO CHAIN



EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	
2. Were ambient air containers received intact?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/> Checked in lab	Custody Seals Intact
3. The coolers containers custody seal if present, is it intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Yes <input type="checkbox"/> NA	Received at RT: 0.7 / CT: 0.5°C RT: 0.3 / CT: 0.1°C RT: 0.4 / CT: 0.2°C
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID: <u>SCTS</u> Correction factor: <u>-0.2°C</u>	<input checked="" type="checkbox"/>			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	OH 5/21/23 3 Coolers FedEx 6426 1927 7107 W PD
5. Were all of the sample containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC? <sup>pH</sup> 5/21/23	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/> Sampler Not Listed on COC	pH test strip lot number: _____
11. Is the client and project name/# identified?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?	<input checked="" type="checkbox"/>			<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____
17. Were VOA samples received without headspace?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____	<input checked="" type="checkbox"/>				
19. For 1613B water samples is pH<9?	<input checked="" type="checkbox"/>			<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Project missing info	
Project #: <u>18615916</u> PM Instructions: _____					

Sample Receiving Associate: Dean Hoch Date: 5/21/23



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-485917-1
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin	
Address: 5815 Middlebrook Pike, City: Knoxville		Job #: 180-155744-1	
State, Zip: TN, 37921		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Phone: 865-291-3000(Tel) 865-584-4315(Fax)		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)	
Email:		Total Number of Containers	
Project Name: Superior, WI Semiannual Groundwater		Analysis Requested	
Site: SSOW#:		Perform MS/MSD (Yes or No)	
		Field Filtered Sample (Yes or No)	
		8290A/8290_P_Sep 17 Isomers + Totals	
		Preservation Code:	
		Special Instructions/Note:	
		Refer to PT-PM-WI-006 for Wisconsin Protocol	
		Refer to PT-PM-WI-006 for Wisconsin Protocol	
		Refer to PT-PM-WI-006 for Wisconsin Protocol	
		Refer to PT-PM-WI-006 for Wisconsin Protocol	
		Refer to PT-PM-WI-006 for Wisconsin Protocol	
		Refer to PT-PM-WI-006 for Wisconsin Protocol	
		Refer to PT-PM-WI-006 for Wisconsin Protocol	
		180-155744 Chain of Custody	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample maintain accreditation in the State of Origin listed above for analysis/less/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.</p>			
<b>Possible Hazard Identification</b>			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify)			
Primary Deliverable Rank: 2			
Special Instructions/QC Requirements:			
Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)			
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Empty Kit Relinquished by:			
Date/Time: _____			
Relinquished by: <i>[Signature]</i>			
Date/Time: 5/1/23			
Relinquished by: <i>[Signature]</i>			
Date/Time: 5/1/23			
Relinquished by: <i>[Signature]</i>			
Date/Time: 5/1/23			
Relinquished by: <i>[Signature]</i>			
Date/Time: 5/1/23			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Custody Seal No.:			
Cooler Temperature(s) °C and Other Remarks:			



EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	<i>Custody Seals Intact</i>
2. Were ambient air containers received intact?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Checked in lab	<i>Received at RT: 0.7 / CT: 0.5°C</i>
3. The coolers containers custody seal if present, is it intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Yes <input type="checkbox"/> NA	<i>RT: 0.3 / CT: 0.1°C RT: 0.4 / CT: 0.2°C</i>
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID: <u>SCTS</u> Correction factor: <u>-0.2°C</u>	<input checked="" type="checkbox"/>			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	<i>OH 5/21/23 3 Coolers FedEx 6426 1921 7107 W PD</i>
5. Were all of the sample containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC; No Date/Time; Client Contacted	<b>Labeling Verified by:</b> _____ <b>Date:</b> _____
10. Was the sampler identified on the COC? <sup>OH</sup> <u>5/21/23</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/> Sampler Not Listed on COC	<b>pH test strip lot number:</b> _____
11. Is the client and project name/# identified?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?	<input checked="" type="checkbox"/>			<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____
17. Were VOA samples received without headspace?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Headspace (VOA only)	Exp Date: _____
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____	<input checked="" type="checkbox"/>			<input type="checkbox"/> Residual Chlorine	Analyst: _____
19. For 1613B water samples is pH<9?	<input checked="" type="checkbox"/>			<input type="checkbox"/> If no, notify lab to adjust	Date: _____
20. For rad samples was sample activity info. Provided?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Project missing info	Time: _____
Project #: <u>18615916</u> PM Instructions: _____					

Sample Receiving Associate: Dean Hoch Date: 5/21/23





# Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-155744-1

**Login Number: 155744**

**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	



# Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-155744-1

**Login Number: 155744**

**List Number: 2**

**Creator: Kolb, Chris M**

**List Source: Eurofins Buffalo**

**List Creation: 05/01/23 09:27 AM**

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	3.6 2.8 2.1 3.0 1.9 1.7 ir gun #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

## PREPARED FOR

Attn: Ms. Angie Gatchie  
Field & Technical Services LLC  
200 Third Avenue  
Carnegie, Pennsylvania 15106

Generated 6/12/2023 4:39:20 PM Revision 1

## JOB DESCRIPTION

Superior, WI Semiannual Groundwater

## JOB NUMBER

180-155744-2

# Eurofins Pittsburgh

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

## Authorization



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

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6/12/2023 4:39:20 PM  
Revision 1



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# Case Narrative

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

Job ID: 180-155744-2

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## Job ID: 180-155744-2

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Laboratory: Eurofins Pittsburgh

### Narrative

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#### Job Narrative 180-155744-2

#### Comments

061223 Revised report to add the Receipt Exception comment below. This report replaces the report previously issued on 061223.

#### Receipt

The samples were received on 4/28/2023 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 4.6° C.

#### Receipt Exceptions

Amber liter bottles for Dioxin were not recieved for the folliwng sample: SUPE-EB-02-042723 (180-155744-4)

#### Dioxin

Methods 0010/1668A, 1613B, 1668A, 1668C, 23, 8290A, Split, TO-9A: The identification of samples and analytes for which manual integrations were necessary is listed in the manual integration summary.

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

#### Organic Prep

Methods 1668\_Sep\_2L, 3540C, 8290, Combined Prep, HRMS-Sepf, HRMS-Sox, HRMS-waste, Split: The following samples went through Gel-Permeation Cleanup procedure, based on EPA method 3640A: .SUPE-W-04AR2-042723 (180-155744-1), SUPE-W-99B-042723 (180-155744-2), SUPE-W-12A-042723 (180-155744-3), SUPE-W-30A-042723 (180-155744-5) and SUPE-W-10AR2-042723 (180-155744-6)

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: 180-155744-2

## Qualifiers

### Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
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: 180-155744-2

## Laboratory: Eurofins Knoxville

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998044300	08-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8290A	8290	Water	Total HpCDD
8290A	8290	Water	Total HpCDF
8290A	8290	Water	Total HxCDD
8290A	8290	Water	Total HxCDF
8290A	8290	Water	Total PeCDD
8290A	8290	Water	Total PeCDF
8290A	8290	Water	Total TCDD
8290A	8290	Water	Total TCDF



# Sample Summary

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

Job ID: 180-155744-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-155744-1	SUPE-W-04AR2-042723	Water	04/27/23 08:55	04/28/23 09:10
180-155744-2	SUPE-W-99B-042723	Water	04/27/23 10:30	04/28/23 09:10
180-155744-3	SUPE-W-12A-042723	Water	04/27/23 08:44	04/28/23 09:10
180-155744-5	SUPE-W-30A-042723	Water	04/27/23 11:29	04/28/23 09:10
180-155744-6	SUPE-W-10AR2-042723	Water	04/27/23 14:33	04/28/23 09:10

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# Method Summary

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

Job ID: 180-155744-2

Method	Method Description	Protocol	Laboratory
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	EET KNX
8290	Separatory Funnel (Liquid-Liquid) Extraction of Dioxins and Furans	SW846	EET KNX

**Protocol References:**

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

**Laboratory References:**

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000



# Lab Chronicle

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

Job ID: 180-155744-2

**Client Sample ID: SUPE-W-04AR2-042723**

**Lab Sample ID: 180-155744-1**

Date Collected: 04/27/23 08:55

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1006.4 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74097	06/08/23 01:10	MSP	EET KNX
Instrument ID: D4A										

**Client Sample ID: SUPE-W-99B-042723**

**Lab Sample ID: 180-155744-2**

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			986 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74097	06/08/23 02:10	MSP	EET KNX
Instrument ID: D4A										

**Client Sample ID: SUPE-W-12A-042723**

**Lab Sample ID: 180-155744-3**

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			961.1 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74097	06/08/23 03:09	MSP	EET KNX
Instrument ID: D4A										

**Client Sample ID: SUPE-W-30A-042723**

**Lab Sample ID: 180-155744-5**

Date Collected: 04/27/23 11:29

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			974.9 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74097	06/08/23 04:09	MSP	EET KNX
Instrument ID: D4A										

**Client Sample ID: SUPE-W-10AR2-042723**

**Lab Sample ID: 180-155744-6**

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			928.6 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74097	06/08/23 05:09	MSP	EET KNX
Instrument ID: D4A										

**Laboratory References:**

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

# Lab Chronicle

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

Job ID: 180-155744-2

## Analyst References:

Lab: EET KNX

Batch Type: Prep

DAC = Drew Costanzo

Batch Type: Analysis

MSP = Michael Patty

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# Client Sample Results

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

Job ID: 180-155744-2

**Client Sample ID: SUPE-W-04AR2-042723**

**Lab Sample ID: 180-155744-1**

Date Collected: 04/27/23 08:55

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.9	0.18	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total TCDD	ND		9.9	0.18	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,7,8-PeCDD	ND		50	0.15	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total PeCDD	ND		50	0.15	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,4,7,8-HxCDD	1.0	J I B	50	0.19	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,6,7,8-HxCDD	0.53	J B	50	0.17	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,7,8,9-HxCDD	1.0	J I	50	0.17	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total HxCDD	10	J I B	50	0.18	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,4,6,7,8-HpCDD	12	J I B	50	1.2	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total HpCDD	86	I B	50	1.2	pg/L		05/18/23 08:49	06/08/23 01:10	1
OCDD	130	B	99	0.061	pg/L		05/18/23 08:49	06/08/23 01:10	1
2,3,7,8-TCDF	ND		9.9	0.15	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total TCDF	1.8	J I B	9.9	0.15	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,7,8-PeCDF	0.52	J B	50	0.23	pg/L		05/18/23 08:49	06/08/23 01:10	1
2,3,4,7,8-PeCDF	0.80	J I B	50	0.22	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total PeCDF	4.1	J I B	50	0.23	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,4,7,8-HxCDF	0.55	J	50	0.20	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,6,7,8-HxCDF	ND		50	0.21	pg/L		05/18/23 08:49	06/08/23 01:10	1
2,3,4,6,7,8-HxCDF	0.66	J I	50	0.23	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,7,8,9-HxCDF	ND		50	0.27	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total HxCDF	8.1	J I	50	0.23	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,4,6,7,8-HpCDF	2.0	J I B	50	0.13	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,4,7,8,9-HpCDF	0.78	J I B	50	0.18	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total HpCDF	6.7	J I B	50	0.16	pg/L		05/18/23 08:49	06/08/23 01:10	1
OCDF	5.6	J I B	99	0.49	pg/L		05/18/23 08:49	06/08/23 01:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	69		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,7,8-PeCDD	63		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,4,7,8-HxCDD	64		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,6,7,8-HxCDD	82		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,4,6,7,8-HpCDD	73		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-OCDD	71		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-2,3,7,8-TCDF	73		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,7,8-PeCDF	68		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-2,3,4,7,8-PeCDF	66		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,4,7,8-HxCDF	77		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,6,7,8-HxCDF	75		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-2,3,4,6,7,8-HxCDF	75		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,7,8,9-HxCDF	74		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,4,6,7,8-HpCDF	76		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,4,7,8,9-HpCDF	70		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-OCDF	70		40 - 135	05/18/23 08:49	06/08/23 01:10	1

**Client Sample ID: SUPE-W-99B-042723**

**Lab Sample ID: 180-155744-2**

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.27	pg/L		05/18/23 08:49	06/08/23 02:10	1

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# Client Sample Results

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

Job ID: 180-155744-2

**Client Sample ID: SUPE-W-99B-042723**

**Lab Sample ID: 180-155744-2**

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TCDD	1.1	J I B	10	0.27	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,7,8-PeCDD	0.58	J I B	51	0.24	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total PeCDD	0.91	J I B	51	0.24	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,4,7,8-HxCDD	1.5	J I B	51	0.14	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,6,7,8-HxCDD	1.5	J B	51	0.13	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,7,8,9-HxCDD	2.1	J	51	0.13	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total HxCDD	33	J I B	51	0.13	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,4,6,7,8-HpCDD	54	B	51	1.5	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total HpCDD	460	B	51	1.5	pg/L		05/18/23 08:49	06/08/23 02:10	1
OCDD	540	B	100	0.35	pg/L		05/18/23 08:49	06/08/23 02:10	1
2,3,7,8-TCDF	0.13	J I B	10	0.11	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total TCDF	7.2	J I B	10	0.11	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,7,8-PeCDF	0.69	J I B	51	0.15	pg/L		05/18/23 08:49	06/08/23 02:10	1
2,3,4,7,8-PeCDF	0.44	J I B	51	0.13	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total PeCDF	12	J I B	51	0.14	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,4,7,8-HxCDF	1.3	J I	51	0.20	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,6,7,8-HxCDF	1.7	J I	51	0.22	pg/L		05/18/23 08:49	06/08/23 02:10	1
2,3,4,6,7,8-HxCDF	ND		51	0.24	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,7,8,9-HxCDF	ND		51	0.29	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total HxCDF	21	J I	51	0.24	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,4,6,7,8-HpCDF	4.7	J I B	51	0.17	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,4,7,8,9-HpCDF	1.2	J B	51	0.22	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total HpCDF	15	J I B	51	0.20	pg/L		05/18/23 08:49	06/08/23 02:10	1
OCDF	19	J B	100	0.11	pg/L		05/18/23 08:49	06/08/23 02:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	71		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,7,8-PeCDD	66		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,4,7,8-HxCDD	65		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,6,7,8-HxCDD	76		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,4,6,7,8-HpCDD	73		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-OCDD	73		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-2,3,7,8-TCDF	73		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,7,8-PeCDF	72		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-2,3,4,7,8-PeCDF	71		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,4,7,8-HxCDF	76		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,6,7,8-HxCDF	72		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-2,3,4,6,7,8-HxCDF	75		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,7,8,9-HxCDF	72		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,4,6,7,8-HpCDF	76		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,4,7,8,9-HpCDF	73		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-OCDF	69		40 - 135	05/18/23 08:49	06/08/23 02:10	1

**Client Sample ID: SUPE-W-12A-042723**

**Lab Sample ID: 180-155744-3**

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.095	pg/L		05/18/23 08:49	06/08/23 03:09	1
Total TCDD	1.3	J I B	10	0.095	pg/L		05/18/23 08:49	06/08/23 03:09	1

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# Client Sample Results

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

Job ID: 180-155744-2

**Client Sample ID: SUPE-W-12A-042723**

**Lab Sample ID: 180-155744-3**

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDD	0.40	J I B	52	0.26	pg/L		05/18/23 08:49	06/08/23 03:09	1
<b>Total PeCDD</b>	<b>0.40</b>	<b>J I B</b>	52	0.26	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,4,7,8-HxCDD	2.1	J I B	52	0.26	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,6,7,8-HxCDD	3.5	J B	52	0.23	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,7,8,9-HxCDD	1.7	J I	52	0.23	pg/L		05/18/23 08:49	06/08/23 03:09	1
<b>Total HxCDD</b>	<b>18</b>	<b>J I B</b>	52	0.24	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,4,6,7,8-HpCDD	69	B	52	1.5	pg/L		05/18/23 08:49	06/08/23 03:09	1
<b>Total HpCDD</b>	<b>130</b>	<b>B</b>	52	1.5	pg/L		05/18/23 08:49	06/08/23 03:09	1
OCDD	570	B	100	0.31	pg/L		05/18/23 08:49	06/08/23 03:09	1
2,3,7,8-TCDF	0.66	J I B	10	0.10	pg/L		05/18/23 08:49	06/08/23 03:09	1
<b>Total TCDF</b>	<b>24</b>	<b>I B</b>	10	0.10	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,7,8-PeCDF	0.84	J B	52	0.22	pg/L		05/18/23 08:49	06/08/23 03:09	1
2,3,4,7,8-PeCDF	0.92	J B	52	0.20	pg/L		05/18/23 08:49	06/08/23 03:09	1
<b>Total PeCDF</b>	<b>52</b>	<b>I B</b>	52	0.21	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,4,7,8-HxCDF	5.1	J	52	0.74	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,6,7,8-HxCDF	6.4	J I	52	0.80	pg/L		05/18/23 08:49	06/08/23 03:09	1
2,3,4,6,7,8-HxCDF	1.2	J I	52	0.82	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,7,8,9-HxCDF	ND		52	1.0	pg/L		05/18/23 08:49	06/08/23 03:09	1
<b>Total HxCDF</b>	<b>68</b>	<b>I</b>	52	0.84	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,4,6,7,8-HpCDF	19	J I B	52	0.59	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,4,7,8,9-HpCDF	2.3	J B	52	0.78	pg/L		05/18/23 08:49	06/08/23 03:09	1
<b>Total HpCDF</b>	<b>63</b>	<b>I B</b>	52	0.69	pg/L		05/18/23 08:49	06/08/23 03:09	1
OCDF	51	J B	100	0.11	pg/L		05/18/23 08:49	06/08/23 03:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	75		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,7,8-PeCDD	77		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,4,7,8-HxCDD	72		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,6,7,8-HxCDD	86		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,4,6,7,8-HpCDD	80		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-OCDD	82		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-2,3,7,8-TCDF	79		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,7,8-PeCDF	80		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-2,3,4,7,8-PeCDF	79		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,4,7,8-HxCDF	83		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,6,7,8-HxCDF	79		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-2,3,4,6,7,8-HxCDF	77		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,7,8,9-HxCDF	80		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,4,6,7,8-HpCDF	84		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,4,7,8,9-HpCDF	80		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-OCDF	76		40 - 135	05/18/23 08:49	06/08/23 03:09	1

**Client Sample ID: SUPE-W-30A-042723**

**Lab Sample ID: 180-155744-5**

Date Collected: 04/27/23 11:29

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.19	pg/L		05/18/23 08:49	06/08/23 04:09	1
<b>Total TCDD</b>	<b>0.40</b>	<b>J I B</b>	10	0.19	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,7,8-PeCDD	ND		51	0.35	pg/L		05/18/23 08:49	06/08/23 04:09	1

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# Client Sample Results

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

Job ID: 180-155744-2

**Client Sample ID: SUPE-W-30A-042723**

**Lab Sample ID: 180-155744-5**

Date Collected: 04/27/23 11:29

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PeCDD	ND		51	0.35	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,4,7,8-HxCDD	1.4	J B	51	0.35	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,6,7,8-HxCDD	7.1	J B	51	0.32	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,7,8,9-HxCDD	2.4	J	51	0.32	pg/L		05/18/23 08:49	06/08/23 04:09	1
Total HxCDD	28	J I B	51	0.33	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,4,6,7,8-HpCDD	130	B	51	0.98	pg/L		05/18/23 08:49	06/08/23 04:09	1
Total HpCDD	290	B	51	0.98	pg/L		05/18/23 08:49	06/08/23 04:09	1
OCDD	1600	B	100	0.22	pg/L		05/18/23 08:49	06/08/23 04:09	1
2,3,7,8-TCDF	ND		10	0.12	pg/L		05/18/23 08:49	06/08/23 04:09	1
Total TCDF	33	I B	10	0.12	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,7,8-PeCDF	ND		51	0.68	pg/L		05/18/23 08:49	06/08/23 04:09	1
2,3,4,7,8-PeCDF	2.0	J I B	51	0.57	pg/L		05/18/23 08:49	06/08/23 04:09	1
Total PeCDF	170	I B	51	0.63	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,4,7,8-HxCDF	7.8	J	51	0.90	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,6,7,8-HxCDF	15	J	51	0.96	pg/L		05/18/23 08:49	06/08/23 04:09	1
2,3,4,6,7,8-HxCDF	2.2	J I	51	1.0	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,7,8,9-HxCDF	ND		51	1.2	pg/L		05/18/23 08:49	06/08/23 04:09	1
Total HxCDF	170	I	51	1.0	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,4,6,7,8-HpCDF	39	J B	51	0.73	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,4,7,8,9-HpCDF	4.6	J B	51	0.98	pg/L		05/18/23 08:49	06/08/23 04:09	1
Total HpCDF	150	B	51	0.85	pg/L		05/18/23 08:49	06/08/23 04:09	1
OCDF	110	B	100	0.14	pg/L		05/18/23 08:49	06/08/23 04:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	68		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,7,8-PeCDD	65		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,4,7,8-HxCDD	67		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,6,7,8-HxCDD	80		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,4,6,7,8-HpCDD	78		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-OCDD	80		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-2,3,7,8-TCDF	72		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,7,8-PeCDF	68		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-2,3,4,7,8-PeCDF	69		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,4,7,8-HxCDF	76		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,6,7,8-HxCDF	74		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-2,3,4,6,7,8-HxCDF	74		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,7,8,9-HxCDF	75		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,4,6,7,8-HpCDF	81		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,4,7,8,9-HpCDF	76		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-OCDF	75		40 - 135	05/18/23 08:49	06/08/23 04:09	1

**Client Sample ID: SUPE-W-10AR2-042723**

**Lab Sample ID: 180-155744-6**

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		11	0.11	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total TCDD	ND		11	0.11	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,7,8-PeCDD	ND		54	0.18	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total PeCDD	0.36	J B	54	0.18	pg/L		05/18/23 08:49	06/08/23 05:09	1

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# Client Sample Results

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

Job ID: 180-155744-2

**Client Sample ID: SUPE-W-10AR2-042723**

**Lab Sample ID: 180-155744-6**

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

**Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)**

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDD	0.93	J I B	54	0.14	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,6,7,8-HxCDD	0.65	J B	54	0.13	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,7,8,9-HxCDD	0.53	J I	54	0.13	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total HxCDD	6.5	J I B	54	0.13	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,4,6,7,8-HpCDD	19	J B	54	0.66	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total HpCDD	51	J B	54	0.66	pg/L		05/18/23 08:49	06/08/23 05:09	1
OCDD	210	B	110	0.30	pg/L		05/18/23 08:49	06/08/23 05:09	1
2,3,7,8-TCDF	ND		11	0.092	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total TCDF	8.7	J I B	11	0.092	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,7,8-PeCDF	0.30	J I B	54	0.13	pg/L		05/18/23 08:49	06/08/23 05:09	1
2,3,4,7,8-PeCDF	0.39	J I B	54	0.12	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total PeCDF	13	J I B	54	0.12	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,4,7,8-HxCDF	1.1	J I	54	0.26	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,6,7,8-HxCDF	1.7	J I	54	0.27	pg/L		05/18/23 08:49	06/08/23 05:09	1
2,3,4,6,7,8-HxCDF	0.86	J I	54	0.30	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,7,8,9-HxCDF	ND		54	0.36	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total HxCDF	28	J I	54	0.30	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,4,6,7,8-HpCDF	4.2	J I B	54	0.27	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,4,7,8,9-HpCDF	0.88	J I B	54	0.37	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total HpCDF	14	J I B	54	0.32	pg/L		05/18/23 08:49	06/08/23 05:09	1
OCDF	12	J B	110	0.15	pg/L		05/18/23 08:49	06/08/23 05:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	65		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,7,8-PeCDD	62		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,4,7,8-HxCDD	66		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,6,7,8-HxCDD	81		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,4,6,7,8-HpCDD	75		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-OCDD	75		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-2,3,7,8-TCDF	66		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,7,8-PeCDF	65		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-2,3,4,7,8-PeCDF	65		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,4,7,8-HxCDF	75		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,6,7,8-HxCDF	75		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-2,3,4,6,7,8-HxCDF	74		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,7,8,9-HxCDF	74		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,4,6,7,8-HpCDF	80		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,4,7,8,9-HpCDF	75		40 - 135	05/18/23 08:49	06/08/23 05:09	1
13C-OCDF	73		40 - 135	05/18/23 08:49	06/08/23 05:09	1

Eurofins Pittsburgh

# QC Sample Results

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

Job ID: 180-155744-2

## Method: 8290A - Dioxins and Furans (HRGC/HRMS)

**Lab Sample ID: MB 140-73375/19-A**  
**Matrix: Water**  
**Analysis Batch: 74037**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 73375**

Analyte	MB	MB	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	ND		10	0.13	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total TCDD	0.171	J I	10	0.13	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,7,8-PeCDD	0.661	J	50	0.13	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total PeCDD	0.661	J	50	0.13	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,4,7,8-HxCDD	1.55	J I	50	0.23	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,6,7,8-HxCDD	0.362	J	50	0.21	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,7,8,9-HxCDD	ND		50	0.21	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total HxCDD	2.36	J I	50	0.22	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,4,6,7,8-HpCDD	2.00	J I	50	0.47	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total HpCDD	2.00	J I	50	0.47	pg/L		05/19/23 08:35	06/07/23 06:14	1
OCDD	3.23	J	100	0.23	pg/L		05/19/23 08:35	06/07/23 06:14	1
2,3,7,8-TCDF	0.255	J I	10	0.12	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total TCDF	3.72	J I	10	0.12	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,7,8-PeCDF	0.920	J I	50	0.13	pg/L		05/19/23 08:35	06/07/23 06:14	1
2,3,4,7,8-PeCDF	1.13	J	50	0.12	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total PeCDF	3.32	J I	50	0.12	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,4,7,8-HxCDF	ND		50	0.23	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,6,7,8-HxCDF	ND		50	0.25	pg/L		05/19/23 08:35	06/07/23 06:14	1
2,3,4,6,7,8-HxCDF	ND		50	0.26	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,7,8,9-HxCDF	ND		50	0.33	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total HxCDF	ND		50	0.33	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,4,6,7,8-HpCDF	0.866	J I	50	0.18	pg/L		05/19/23 08:35	06/07/23 06:14	1
1,2,3,4,7,8,9-HpCDF	0.635	J I	50	0.23	pg/L		05/19/23 08:35	06/07/23 06:14	1
Total HpCDF	1.96	J I	50	0.21	pg/L		05/19/23 08:35	06/07/23 06:14	1
OCDF	1.50	J I	100	0.19	pg/L		05/19/23 08:35	06/07/23 06:14	1
	<b>MB</b>	<b>MB</b>							
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C-2,3,7,8-TCDD	65		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,7,8-PeCDD	62		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,4,7,8-HxCDD	71		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,6,7,8-HxCDD	82		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,4,6,7,8-HpCDD	81		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-OCDD	83		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-2,3,7,8-TCDF	66		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,7,8-PeCDF	64		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-2,3,4,7,8-PeCDF	66		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,4,7,8-HxCDF	81		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,6,7,8-HxCDF	78		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-2,3,4,6,7,8-HxCDF	79		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,7,8,9-HxCDF	76		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,4,6,7,8-HpCDF	82		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-1,2,3,4,7,8,9-HpCDF	79		40 - 135				05/19/23 08:35	06/07/23 06:14	1
13C-OCDF	74		40 - 135				05/19/23 08:35	06/07/23 06:14	1

# QC Sample Results

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

Job ID: 180-155744-2

## Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

**Lab Sample ID: LCS 140-73375/18-A**  
**Matrix: Water**  
**Analysis Batch: 74037**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 73375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDD	200	187		pg/L		93	77 - 127
1,2,3,7,8-PeCDD	1000	1010		pg/L		101	78 - 128
1,2,3,4,7,8-HxCDD	1000	1000		pg/L		100	73 - 123
1,2,3,6,7,8-HxCDD	1000	935		pg/L		93	72 - 127
1,2,3,7,8,9-HxCDD	1000	1010		pg/L		101	76 - 126
1,2,3,4,6,7,8-HpCDD	1000	964		pg/L		96	73 - 123
OCDD	2000	1930		pg/L		97	75 - 125
2,3,7,8-TCDF	200	190		pg/L		95	74 - 124
1,2,3,7,8-PeCDF	1000	1020		pg/L		102	74 - 124
2,3,4,7,8-PeCDF	1000	1020		pg/L		102	74 - 124
1,2,3,4,7,8-HxCDF	1000	865		pg/L		87	75 - 125
1,2,3,6,7,8-HxCDF	1000	932		pg/L		93	75 - 125
2,3,4,6,7,8-HxCDF	1000	949		pg/L		95	76 - 126
1,2,3,7,8,9-HxCDF	1000	929		pg/L		93	76 - 126
1,2,3,4,6,7,8-HpCDF	1000	920		pg/L		92	71 - 121
1,2,3,4,7,8,9-HpCDF	1000	972		pg/L		97	73 - 123
OCDF	2000	1940		pg/L		97	68 - 132

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-2,3,7,8-TCDD	64		40 - 135
13C-1,2,3,7,8-PeCDD	65		40 - 135
13C-1,2,3,4,7,8-HxCDD	71		40 - 135
13C-1,2,3,6,7,8-HxCDD	76		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	81		40 - 135
13C-OCDD	85		40 - 135
13C-2,3,7,8-TCDF	65		40 - 135
13C-1,2,3,7,8-PeCDF	63		40 - 135
13C-2,3,4,7,8-PeCDF	67		40 - 135
13C-1,2,3,4,7,8-HxCDF	79		40 - 135
13C-1,2,3,6,7,8-HxCDF	73		40 - 135
13C-2,3,4,6,7,8-HxCDF	76		40 - 135
13C-1,2,3,7,8,9-HxCDF	75		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	82		40 - 135
13C-1,2,3,4,7,8,9-HpCDF	81		40 - 135
13C-OCDF	80		40 - 135

# QC Association Summary

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

Job ID: 180-155744-2

## Specialty Organics

### Prep Batch: 73375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155744-1	SUPE-W-04AR2-042723	Total/NA	Water	8290	
180-155744-2	SUPE-W-99B-042723	Total/NA	Water	8290	
180-155744-3	SUPE-W-12A-042723	Total/NA	Water	8290	
180-155744-5	SUPE-W-30A-042723	Total/NA	Water	8290	
180-155744-6	SUPE-W-10AR2-042723	Total/NA	Water	8290	
MB 140-73375/19-A	Method Blank	Total/NA	Water	8290	
LCS 140-73375/18-A	Lab Control Sample	Total/NA	Water	8290	

### Analysis Batch: 74037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 140-73375/19-A	Method Blank	Total/NA	Water	8290A	73375
LCS 140-73375/18-A	Lab Control Sample	Total/NA	Water	8290A	73375

### Analysis Batch: 74097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155744-1	SUPE-W-04AR2-042723	Total/NA	Water	8290A	73375
180-155744-2	SUPE-W-99B-042723	Total/NA	Water	8290A	73375
180-155744-3	SUPE-W-12A-042723	Total/NA	Water	8290A	73375
180-155744-5	SUPE-W-30A-042723	Total/NA	Water	8290A	73375
180-155744-6	SUPE-W-10AR2-042723	Total/NA	Water	8290A	73375



Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502083

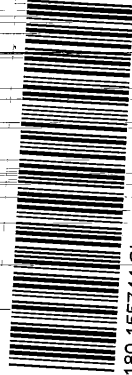


Client: Beazer East, Inc.  
Contact: slindquist.2006@fts.com

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TAKNOX  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	8290_Dioxins/Furans (Knoxville) (1L)	Notes:
04/27/2023	0855	GW	SUPE-WV-04AR2-042723	2	None	2	
04/27/2023	1030	GW	SUPE-WV-99B-042723	2		2	
				<b>Total Bottle Count</b>			



180-155744 Chain of Custody

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Shane Lindquist</i> Printed Name: Shane Lindquist Firm: FTS Date/Time: 04/27/2023 1647	Signature: <i>Melissa Rumbel</i> Printed Name: Melissa Rumbel Firm: FTS Date/Time: 4-27-23 0910	Signature: Printed Name: Firm: Date/Time:	Signature: Printed Name: Firm: Date/Time:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard



REF.# 502081

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM



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

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TACHI  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	Notes
04/27/2023	0855	GW	SUPE-W-04AR2-042723	2	None	
04/27/2023	1030	GW	SUPE-W-99B-042723	2	BZ70D, SVOC (less naphtha) (Chicago)	
				<b>Total Bottle Count</b>		

Relinquished by:		Received by:	
<i>Shane Lindquist</i>	<i>Shane Lindquist</i>	<i>Shane Lindquist</i>	<i>Shane Lindquist</i>
Printed Name: Shane Lindquist	Printed Name: Shane Lindquist	Printed Name: Shane Lindquist	Printed Name: Shane Lindquist
Firm: FTS	Firm: FTS	Firm: FTS	Firm: FTS
Date/Time: 04/27/2023 10:10	Date/Time: 04/27/2023 10:10	Date/Time: 04/27/2023 10:10	Date/Time: 04/27/2023 10:10
Turnaround Requirements:		Turnaround Requirements:	
<input type="checkbox"/> Rush		<input checked="" type="checkbox"/> Standard	





Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502076



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 - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TAKNOX  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	Total Bottle Count	Notes:
04/27/2023	0844	GW	SUPE-W-12A-042723	8290_Dioxins/Furans (Knoxville) (TL)	None	2	
04/27/2023	1100	GW	SUPE-EB-02-042723			2	
04/27/2023	1129	GW	SUPE-W-30A-042723			2	
04/27/2023	1433	GW	SUPE-W-10AR2-042723			2	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS Date/Time: 04/27/2023 2212	Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS Date/Time: 04/27/2023 2212	Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS Date/Time: 04/27/2023 2212	Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS Date/Time: 04/27/2023 2212	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard



REF.# 502074

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM



Ref 210311

Client: Beazer East, Inc.  
Contact: mfernick.2006@fts.com

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TACHI  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	Notes:
				8270D_SVOC (less naphtha) (Chicago)	None	
				Total Bottle Count		
04/27/2023	0844	GW	SUPE-W-12A-042723	2		
04/27/2023	1100	GW	SUPE-EB-02-042723	2		
04/27/2023	1129	GW	SUPE-W-30A-042723	2		
04/27/2023	1433	GW	SUPE-W-10AR2-042723	2		

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Marie Ferrick</i>	Signature: <i>Alexander</i>	Signature:	Signature:	<input type="checkbox"/> Rush
Printed Name: Marie Ferrick	Printed Name: Alexander	Printed Name:	Printed Name:	<input checked="" type="checkbox"/> Standard
Firm: FTS	Firm: E.P. Hark	Firm:	Firm:	
Date/Time: 04/27/2023 2212	Date/Time: 4/28/23 0910	Date/Time:	Date/Time:	







Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502082



Client: Beazer East, Inc.  
Contact: slindquist.2006@fts.com

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

Project Name: Superior, WI - 2023 OM&M Program  
Project Number: OM-0556-23  
Laboratory: TABUF  
Shipment Method: FEDEX  
Program: Superior 2023 1SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis		Total Bottle Count	Notes:
				Preservative	HCL		
04/27/2023	0855	GW	SUPE-W-04AR2-042723	8260C_VOA+naphtha (Buffalo)	None	6	
04/27/2023	1030	GW	SUPE-W-99B-042723	8270D_LL_PCP (Buffalo) (TL)	None	3	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Shane Lindquist</i> Printed Name: Shane Lindquist Firm: FTS Date/Time: 04/27/2023 1647	Signature: <i>Kenya Bush</i> Printed Name: Kenya Bush Firm: FTS Date/Time: 4-28-23 0910	Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	<input type="checkbox"/> Rush  <input checked="" type="checkbox"/> Standard



Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502075



Project Name: Superior, VI - 2023 OM&M Program  
 Project Number: OM-0556-23  
 Laboratory: TABUF  
 Shipment Method: FEDEX  
 Program: Superior 2023 1SA Sampling\_001

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

Client: Beazer East, Inc.  
 Contact: mferrick.2006@fts.com

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					8260C_VOA+naphtha (Buffalo)	8270D_LL_PCP (Buffalo) (1L)		
04/27/2023	0844	GW	SUPE-W-12A-042723		3	None	6	
04/27/2023	1100	GW	SUPE-EB-02-042723		3		6	
04/27/2023	1129	GW	SUPE-W-30A-042723		3		6	
04/27/2023	1433	GW	SUPE-W-10AR2-042723		3		6	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Marie Ferrick</i>	Signature: <i>Marie Ferrick</i>	Signature:	Signature:	<input type="checkbox"/> Rush
Printed Name: Marie Ferrick	Printed Name: Marie Ferrick	Printed Name:	Printed Name:	<input checked="" type="checkbox"/> Standard
Firm: FTS	Firm: FTS	Firm:	Firm:	
Date/Time: 04/27/2023 2212	Date/Time: 4-28-23 0910	Date/Time:	Date/Time:	



ORIGIN TO: AGCA (21  
STEVEN WILLIS  
KOPPERS INC RAIL  
3185 SOUTH COUNTRY

SUPERIOR, WI 54880  
UNITED STATES: US

TO SHIPPING / RE  
EUROFINS ENVIRONMENT TESTING NE LLC  
301 ALPHA DRIVE

PITTSBURGH PA 152382907

(412) 963-7068

REF:

DEPT:

RMA



Uncorrected temp

Thermometer ID 410-17

CF 0 Initials JD

PT-WI-SR-001 effective 11/8/18

FedEx  
Express



AN109090202822T

FedEx

TRK#  
0221

6426 1927 1988

FRI - 28 APR 10:30A  
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US

PI

EXP 08/22



180-156744 Waybill

#5115555 04/27 583J3/78CF/FE2D

NO CHAIN

STEVEN  
KOPPERS INC BRICKROAD  
3185 SOUTH COUNTRY ROAD A  
SUPERIOR, WI 54880  
UNITED STATES US


TO SHIPPING / RECEIVING  
EUROFINS ENVIRONMENT TESTING NE LLC  
301 ALPHA DRIVE

PITTSBURGH PA 152382907

(412) 963-7058  
INV:  
PO:

REF:

DEPT:

RMA: 

Uncorrected temp  
Thermometer ID 2.1

CF 0 Initials JD

PT-WI-SR-001 effective 11/8/18

FedEx  
Express



ATL09090220822Z

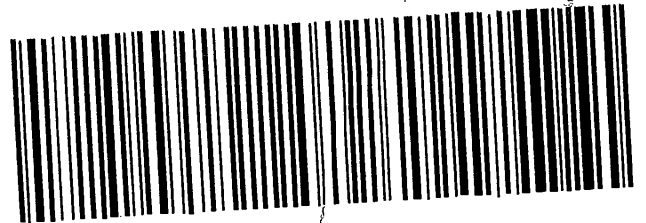
FedEx

TRK# 6426 1927 1977  
0221

FRI - 28 APR 10:30A  
PRIORITY OVERNIGHT

XN AGCA

15238  
PA-US PIT



#5115555 04/27 583J3/78CF/FE2D

NO CHAIN

- 1
- 2
- 3
- 4
- 5
- 6
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- 8
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- 10
- 11
- 12
- 13

ORIGIN ID: AGCA (21) T-04  
 STEVEN WILLIS  
 KOPPERS INC RAILI  
 3105 SOUTH COUNTR  
 SUPERIOR, WI 54880  
 UNITED STATES: US

RT 190  
 FZ 197

03/CAFE363

159632929/RTW/ES981/21

TO SHIPPING / RE  
 EUROFINS ENVIRONMENT TESTING NE LLC  
 301 ALPHA DRIVE

PITTSBURGH PA 152382907

(412) 963-7058 REF:  
 INU: DEPT:  
 PO:

RMA



Uncorrected temp

Thermometer ID 410

CF 0 Initials JD

PT-WI-SR-001 effective 11/8/18

FedEx  
 Express



AN1090902028227

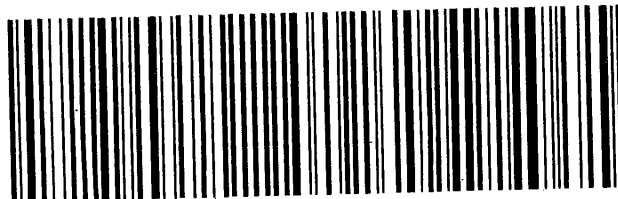
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 0221

FRI - 28 APR 10:30A  
 PRIORITY OVERNIGHT

XN AGCA

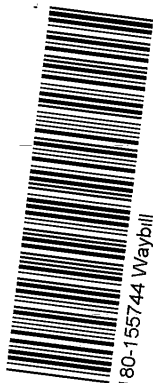
15238  
 PA-US PI

File EXP 08/22



W5115555 04/27 583J3/78CF/FE2D

NO CHAIN



180-155744 Waybill

STEVEN KOPPERS INC RAILROAD  
3185 SOUTH COUNTRY ROAD A

SUPERIOR, WI 54880  
UNITED STATES US


TO SHIPPING / RECEIVING  
EUROFINS ENVIRONMENT TESTING NE LLC  
301 ALPHA DRIVE

PITTSBURGH PA 152382907

(412) 963-7058

REF:

DEPT:

RMA: 

Uncorrected temp  
Thermometer ID 2.1

CF 0 Initials JD

PT-WI-SR-001 effective 11/8/18

FedEx  
Express



AR100909020222F

FedEx

TRK# 6426 1927 1977  
0221

FRI - 28 APR 10:30A  
PRIORITY OVERNIGHT

XN AGCA

15238  
PA-US PIT



#5115555 04/27 583J3/78CF/FE2D

NO CHAIN

# Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-155744-2

**Login Number: 155744**

**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	



# **APPENDIX F**

## **ASCII DATA**

