



Field & Technical Services

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

June 24, 2024

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

**RE: First Semi-Annual 2024 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 2024 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 2024 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 23, 2024 through April 25, 2024. The sampling effort was led by Mr. Carter Auch, 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
ES Exceedance		
Benzene	5	W-10AR2, W-10AR DUP
Benzo(a)pyrene	0.2	W-04AR2
Benzo(b)fluoranthene	0.2	W-04AR2
Chrysene	0.2	W-04AR2
PAL Exceedance		
Benzene	0.5	W-10AR2, W-10AR DUP
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-04AR2

Based on these results, two wells (W-04AR2 and W-10AR2) 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 2024 sampling event exceeded the Wisconsin PALs and ESs.

The data evaluation performed by FTS for the first semi-annual 2024 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 first semi-annual 2024 data in reference to NR 140.24 and NR 140.26, no additional action beyond continued monitoring is necessary.

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

Sincerely,

Field & Technical Services LLC

Angela Gatchie

Angela Gatchie
Project Manager
agatchie@f-ts.com

Attachments

cc: J. Patarcity – Beazer	jane.patarcity@trmi.biz
B. Tatsch – Koppers	TatschRS@koppers.com
D. Bessingpas – ARCADIS	David.Bessingpas@arcadis.com
D. Coenen – WDNR	Douglas.Coenen@wisconsin.gov
GEMS Database – WDNR	Mike.Solomon@wisconsin.gov
T. Peterson – TRP Properties, LLC	terry@omahatrack.com

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 24 and 25, 2024

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

April 2024

Type of Data Submitted (Check all that apply)

- Groundwater monitoring data from monitoring wells
 Groundwater monitoring data from private water supply wells
 Leachate monitoring data
 Gas monitoring data
 Air monitoring data
 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 24, 2024
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 _____

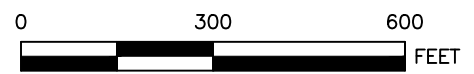
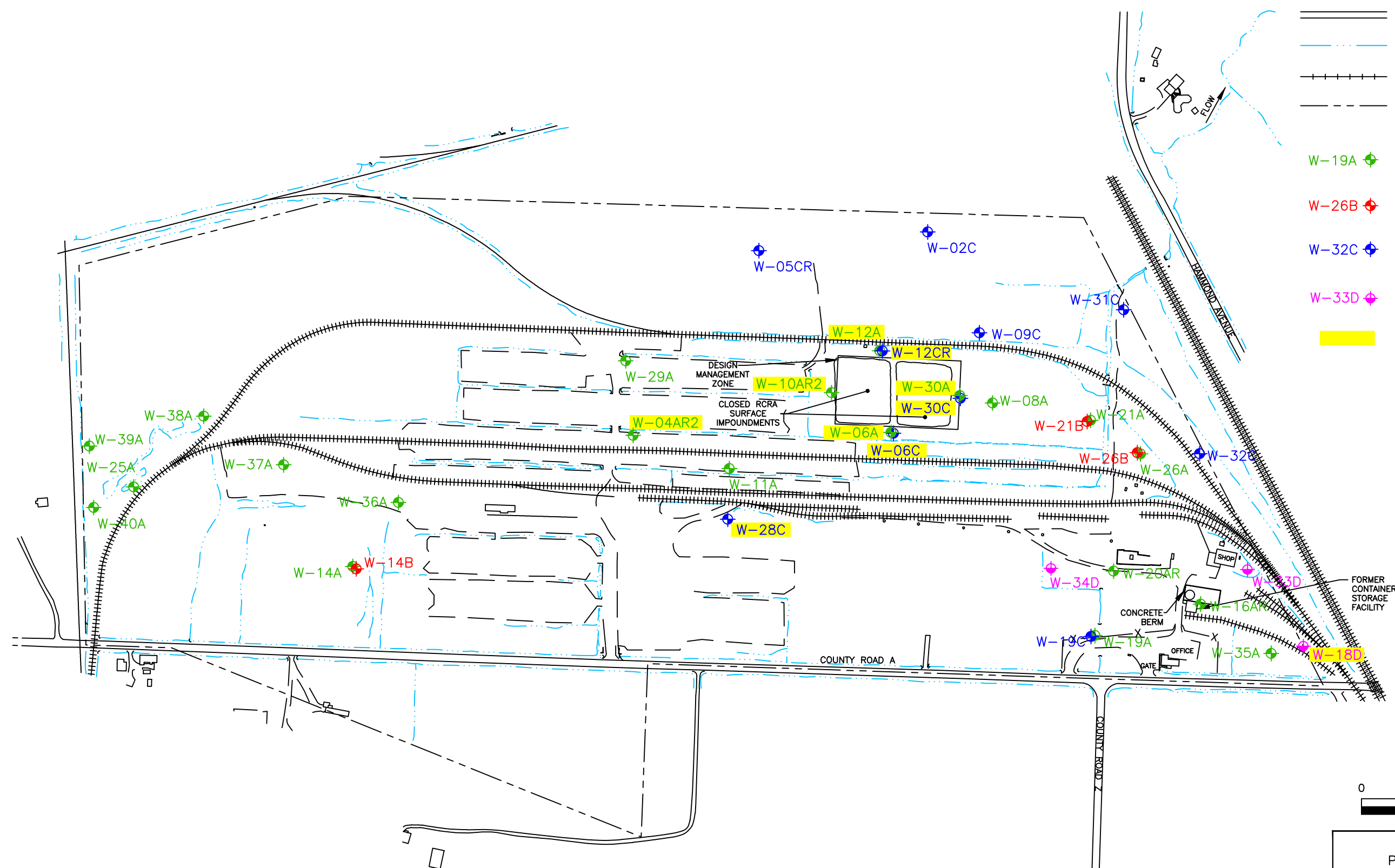
APPENDIX B
WELL LOCATION MAP





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											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DRWN: KLC</td> <td>DATE: 04/24/24</td> </tr> <tr> <td>CHKD: AMG</td> <td>DATE: 04/24/24</td> </tr> <tr> <td>APPD: JSZ</td> <td>DATE: 05/15/24</td> </tr> <tr> <td>SCALE: AS SHOWN</td> <td></td> </tr> <tr> <td>ISSUE DATE:</td> <td></td> </tr> </table>	DRWN: KLC	DATE: 04/24/24	CHKD: AMG	DATE: 04/24/24	APPD: JSZ	DATE: 05/15/24	SCALE: AS SHOWN		ISSUE DATE:		<p>FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106</p>
DRWN: KLC	DATE: 04/24/24										
CHKD: AMG	DATE: 04/24/24										
APPD: JSZ	DATE: 05/15/24										
SCALE: AS SHOWN											
ISSUE DATE:											
FORMER KOPPERS INC. FACILITY SUPERIOR, WISCONSIN											
WELL LOCATIONS	PROJECT NO: 0M055624 DRAWING NUMBER FIGURE B-1										

REFERENCE: WISCONSIN STATE PLANE COORDINATE SYSTEM.

REV #	DATE	DESCRIPTION	APPD

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APPENDIX C

TABLES



**Table C-1
Summary of Detected Constituents
First Semi-Annual 2024 Sampling Event
Superior Facility
Superior, Wisconsin**

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
8270E LL				
W-04AR2	1-Methylnaphthalene	0.079 J	NA	NA
W-06C	1-Methylnaphthalene	0.089 J	NA	NA
W-10AR2	1-Methylnaphthalene	8.1 J	NA	NA
W-10AR2 DUP	1-Methylnaphthalene	2.1 J	NA	NA
W-12A	1-Methylnaphthalene	0.13 J	NA	NA
W-12A	2-Chloronaphthalene	0.069 J	NA	NA
W-04AR2	2-Methylnaphthalene	0.11 J	NA	NA
W-06C	2-Methylnaphthalene	0.18 J	NA	NA
W-12A	2-Methylnaphthalene	0.12 J	NA	NA
W-04AR2	Acenaphthene	1.1	NA	NA
W-10AR2	Acenaphthene	35 J	NA	NA
W-10AR2 DUP	Acenaphthene	10 J	NA	NA
W-30A	Acenaphthene	0.58	NA	NA
W-04AR2	Acenaphthylene	0.32	NA	NA
W-10AR2	Acenaphthylene	0.72 J	NA	NA
W-10AR2 DUP	Acenaphthylene	0.2 J	NA	NA
W-04AR2	Anthracene	4.8	600	3000
W-10AR2	Anthracene	0.37 J	600	3000
W-10AR2 DUP	Anthracene	0.071 J	600	3000
W-30A	Anthracene	0.33	600	3000
W-30C	Anthracene	0.075 J	600	3000
W-30C DUP	Anthracene	0.22 J	600	3000
W-04AR2	Benzo(a)anthracene	3.4	NA	NA
W-04AR2	Benzo(a)pyrene	1.2	0.02	0.2
W-04AR2	Benzo(b)fluoranthene	2.9	0.02	0.2
W-04AR2	Benzo(g,h,i)perylene	0.67	NA	NA
W-04AR2	Benzo(k)fluoranthene	1.3	NA	NA
W-04AR2	Chrysene	6.1	0.02	0.2
W-04AR2	Dibenzo(a,h)anthracene	0.21	NA	NA
W-04AR2	Dibenzofuran	1.3	NA	NA
W-10AR2	Dibenzofuran	9.3 J	NA	NA
W-10AR2 DUP	Dibenzofuran	2.4 J	NA	NA
W-06A	Dimethylphthalate	1 J	NA	NA
W-10AR2	Dimethylphthalate	3.1 J	NA	NA
W-10AR2 DUP	Dimethylphthalate	0.28 J	NA	NA
W-12A	Dimethylphthalate	0.54 J	NA	NA
W-30A	Dimethylphthalate	2.5	NA	NA
W-04AR2	Fluoranthene	26	80	400
W-10AR2	Fluoranthene	0.79 J	80	400
W-10AR2 DUP	Fluoranthene	0.21 J	80	400
W-30C DUP	Fluoranthene	0.064 J	80	400
W-04AR2	Fluorene	1.9	80	400
W-10AR2	Fluorene	8.8 J	80	400
W-10AR2 DUP	Fluorene	2.3 J	80	400
W-30A	Fluorene	0.099 J	80	400
W-04AR2	Indeno(1,2,3-cd)pyrene	0.64	NA	NA
W-04AR2	Phenanthrene	4.2	NA	NA
W-10AR2	Phenanthrene	1.1	NA	NA
W-10AR2	Phenol	0.52 J	400	2000
W-04AR2	Pyrene	17	50	250
W-10AR2	Pyrene	0.57 J	50	250
W-10AR2 DUP	Pyrene	0.13 J	50	250
8260C				
W-10AR2	1,2,4-Trimethylbenzene	5.4	96*	480*
W-10AR2 DUP	1,2,4-Trimethylbenzene	5.1	96*	480*
W-10AR2	Benzene	13	0.5	5
W-10AR2 DUP	Benzene	13	0.5	5
W-10AR2	Ethylbenzene	25	140	700
W-10AR2 DUP	Ethylbenzene	26	140	700
W-30A	Ethylbenzene	0.84 J	140	700
W-10AR2	Naphthalene	1.2	10	100
W-10AR2 DUP	Naphthalene	1.2	10	100
W-30A	Naphthalene	0.48 J	10	100
W-10AR2	Toluene	1.5	160	800
W-10AR2	Toluene	1.4	160	800
W-10AR2	Xylene, Meta & Para	2.3	400**	2000**
W-10AR2	Xylene, Meta & Para	2.4	400**	2000**
W-10AR2	Xylene, Ortho	9.1	400**	2000**
W-10AR2	Xylene, Ortho	9	400**	2000**

Table C-1
Summary of Detected Constituents
First Semi-Annual 2024 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
8290A				
W-04AR2	1,2,3,4,6,7,8-HPCDD	0.00071	NA	NA
W-06A	1,2,3,4,6,7,8-HPCDD	0.0000086 JI	NA	NA
W-06C	1,2,3,4,6,7,8-HPCDD	0.0000027 JI	NA	NA
W-10AR2	1,2,3,4,6,7,8-HPCDD	0.000013 J	NA	NA
W-10AR2 DUP	1,2,3,4,6,7,8-HPCDD	0.000016 J	NA	NA
W-12A	1,2,3,4,6,7,8-HPCDD	0.000057	NA	NA
W-28C	1,2,3,4,6,7,8-HPCDD	0.000013 JI	NA	NA
W-30A	1,2,3,4,6,7,8-HPCDD	0.000084	NA	NA
W-30C	1,2,3,4,6,7,8-HPCDD	0.000055 J	NA	NA
W-30C DUP	1,2,3,4,6,7,8-HPCDD	0.00015 J	NA	NA
W-04AR2	1,2,3,4,6,7,8-HPCDF	0.00011	NA	NA
W-10AR2	1,2,3,4,6,7,8-HPCDF	0.0000056 J	NA	NA
W-10AR2 DUP	1,2,3,4,6,7,8-HPCDF	0.0000032 J	NA	NA
W-12A	1,2,3,4,6,7,8-HPCDF	0.000014 J	NA	NA
W-04AR2	1,2,3,4,7,8,9-HPCDF	0.0000075 J	NA	NA
W-12A	1,2,3,4,7,8,9-HPCDF	0.0000024 J	NA	NA
W-30A	1,2,3,4,7,8,9-HPCDF	0.0000024 J	NA	NA
W-30C	1,2,3,4,7,8,9-HPCDF	0.0000022 J	NA	NA
W-30C DUP	1,2,3,4,7,8,9-HPCDF	0.0000063 J	NA	NA
W-12A	1,2,3,4,7,8-HXCDF	0.000006 JI	NA	NA
W-10AR2 DUP	1,2,3,6,7,8-HXCDD	0.0000081 JI	NA	NA
W-12A	1,2,3,6,7,8-HXCDD	0.0000047 JI	NA	NA
W-10AR2	1,2,3,6,7,8-HXCDF	0.0000015 JI	NA	NA
W-10AR2 DUP	1,2,3,6,7,8-HXCDF	0.0000023 JI	NA	NA
W-12A	1,2,3,6,7,8-HXCDF	0.0000049 JI	NA	NA
W-12A	2,3,4,6,7,8-HXCDF	0.0000011 JI	NA	NA
W-04AR2	2,3,4,7,8-PECDF	0.000001 JI	NA	NA
W-10AR2 DUP	2,3,4,7,8-PECDF	0.0000003 JI	NA	NA
W-12A	2,3,4,7,8-PECDF	0.0000014 JI	NA	NA
W-30A	2,3,4,7,8-PECDF	0.0000014 J	NA	NA
W-12A	2,3,7,8-TCDF	0.00000063 JI	NA	NA
W-30A	2,3,7,8-TCDF	0.00000056 JI	NA	NA
W-30C	2,3,7,8-TCDF	0.00000032 J	NA	NA
W-30C DUP	2,3,7,8-TCDF	0.00000059 JI	NA	NA
W-04AR2	OCDD	0.0067	NA	NA
W-10AR2	OCDD	0.00011 J	NA	NA
W-10AR2 DUP	OCDD	0.00016 J	NA	NA
W-12A	OCDD	0.00023	NA	NA
W-28C	OCDD	0.00011	NA	NA
W-30A	OCDD	0.00093	NA	NA
W-30C	OCDD	0.00035 J	NA	NA
W-30C DUP	OCDD	0.00074 J	NA	NA
W-04AR2	OCDF	0.00044	NA	NA
W-04AR2	Total HPCDD	0.0028	NA	NA
W-06A	Total HPCDD	0.000039 JI	NA	NA
W-06C	Total HPCDD	0.000018 JI	NA	NA
W-10AR2	Total HPCDD	0.00004 JI	NA	NA
W-10AR2 DUP	Total HPCDD	0.000056 J	NA	NA
W-12A	Total HPCDD	0.000092	NA	NA
W-28C	Total HPCDD	0.000043 JI	NA	NA
W-30A	Total HPCDD	0.00017	NA	NA
W-30C	Total HPCDD	0.000098 J	NA	NA
W-30C DUP	Total HPCDD	0.00026 J	NA	NA
W-04AR2	Total HPCDF	0.00044	NA	NA
W-10AR2	Total HPCDF	0.000012 J	NA	NA
W-10AR2 DUP	Total HPCDF	0.00001 J	NA	NA
W-12A	Total HPCDF	0.00004 J	NA	NA
W-30A	Total HPCDF	0.000085	NA	NA
W-30C DUP	Total HPCDF	0.00011 J	NA	NA
W-04AR2	Total HXCDD	0.00022 I	NA	NA
W-04AR2	Total HXCDF	0.00034 I	NA	NA
W-10AR2	Total HXCDF	0.000021 JI	NA	NA
W-10AR2 DUP	Total HXCDF	0.000022 JI	NA	NA
W-12A	Total HXCDF	0.000079 I	NA	NA
W-30A	Total HXCDF	0.00014 I	NA	NA
W-30C	Total HXCDF	0.000048 JI	NA	NA
W-30C DUP	Total HXCDF	0.00012 JI	NA	NA
W-04AR2	Total PECDF	0.00011 I	NA	NA
W-06A	Total PECDF	0.0000046 JI	NA	NA
W-10AR2	Total PECDF	0.0000086 JI	NA	NA
W-10AR2 DUP	Total PECDF	0.000011 JI	NA	NA
W-12A	Total PECDF	0.000053 I	NA	NA
W-28C	Total PECDF	0.0000017 JI	NA	NA
W-30A	Total PECDF	0.0001 I	NA	NA
W-30C	Total PECDF	0.00016 JI	NA	NA
W-30C DUP	Total PECDF	0.00035 JI	NA	NA
W-12A	Total TCDD	0.00000095 JI	NA	NA
W-04AR2	Total TCDF	0.000025 I	NA	NA
W-10AR2 DUP	Total TCDF	0.000012 JI	NA	NA
W-12A	Total TCDF	0.000042 I	NA	NA
W-30A	Total TCDF	0.000025 I	NA	NA
W-30C	Total TCDF	0.00014 JI	NA	NA

Table C-1
Summary of Detected Constituents
First Semi-Annual 2024 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
W-30C DUP	Total TCDF	0.00037 JI	NA	NA
W-04AR2	2,3,7,8-TCDD TEQ	1.07E-05	0.000003	0.00003
W-06A	2,3,7,8-TCDD TEQ	8.60E-08	0.000003	0.00003
W-06C	2,3,7,8-TCDD TEQ	2.70E-08	0.000003	0.00003
W-10AR2	2,3,7,8-TCDD TEQ	3.69E-07	0.000003	0.00003
W-10AR2 DUP	2,3,7,8-TCDD TEQ	6.41E-07	0.000003	0.00003
W-12A	2,3,7,8-TCDD TEQ	2.96E-06	0.000003	0.00003
W-28C	2,3,7,8-TCDD TEQ	1.63E-07	0.000003	0.00003
W-30A	2,3,7,8-TCDD TEQ	1.62E-06	0.000003	0.00003
W-30C	2,3,7,8-TCDD TEQ	7.09E-07	0.000003	0.00003
W-30C DUP	2,3,7,8-TCDD TEQ	1.84E-06	0.000003	0.00003

Notes:

[Yellow Box] - 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

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 2024 Groundwater Data
First Semi-Annual 2024 Sampling Event
Superior Facility
Superior, Wisconsin

ANALYTE NAME	UNITS	W-04AR2 4/24/2024	W-06A 4/24/2024	W-06C 4/25/2024	W-10AR2 4/25/2024	W-10AR2 DUP 4/25/2024	W-12A 4/25/2024	W-12CR 4/24/2024	W-18D 4/24/2024	W-28C 4/24/2024	W-30A 4/24/2024	W-30C 4/24/2024	W-30C-DUP 4/24/2024	Field Blank 4/24/2024	Field Blank 4/25/2024	Trip Blank 4/24/2024	Trip Blank 4/25/2024
8260C																	
1,1,1-TRICHLOROETHANE	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	NA	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-TRIMETHYLBENZENE	UG/L	0.75 U	0.75 U	0.75 U	5.4	5.1	0.75 U	0.75 U	NA	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,3,5-TRIMETHYLBENZENE	UG/L	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	NA	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U
BENZENE	UG/L	0.41 U	0.41 U	0.41 U	13	13	0.41 U	0.41 U	NA	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CHLOROMETHANE	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	NA	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
ETHYLBENZENE	UG/L	0.74 U	0.74 U	0.74 U	25	26	0.74 U	0.74 U	NA	0.74 U	0.84 J	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U
METHYL(TERT)BUTYL ETHER	UG/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	NA	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
NAPHTHALENE	UG/L	0.43 U	0.43 U	0.43 U	1.2	1.2	0.43 U	0.43 U	NA	0.43 U	0.48 J	0.43 U	0.43 U	0.43 U	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	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
N-PROPYLBENZENE	UG/L	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	NA	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
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	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U
TOLUENE	UG/L	0.51 U	0.51 U	0.51 U	1.5	1.4	0.51 U	0.51 U	NA	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
XYLENE, META & PARA	UG/L	0.66 U	0.66 U	0.66 U	2.3	2.4	0.66 U	0.66 U	NA	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U
O-XYLENE	UG/L	0.76 U	0.76 U	0.76 U	9.1	9	0.76 U	0.76 U	NA	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
8270E LL																	
1,2,4-TRICHLOROBENZENE	UG/L	0.27 U	0.27 U	0.25 U	0.23 U	0.23 U	0.24 U	0.24 U	0.25 U	0.25 U	0.25 U	0.25 U	0.24 U	0.24 U	0.25 U	NA	NA
1,2-DICHLOROBENZENE	UG/L	0.23 U	0.23 U	0.22 U	0.2 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U	0.22 U	0.21 U	0.21 U	0.22 U	NA	NA
1,3-DICHLOROBENZENE	UG/L	0.23 U	0.23 U	0.22 U	0.21 U	0.21 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	NA	NA
1,4-DICHLOROBENZENE	UG/L	0.26 U	0.26 U	0.25 U	0.23 U	0.23 U	0.24 U	0.24 U	0.25 U	0.25 U	0.25 U	0.25 U	0.24 U	0.24 U	0.25 U	NA	NA
1-METHYLNAPHTHALENE	UG/L	0.079 J	0.061 U	0.089 J	8.1 J	2.1 J	0.13 J	0.056 U	0.058 U	0.058 U	0.058 U	0.058 U	0.056 U	0.056 U	0.058 U	NA	NA
2,3,4,6-TETRACHLOROPHENOL	UG/L	0.35 U	0.35 U	0.34 U	0.31 U	0.31 U	0.33 U	0.33 U	0.34 U	0.34 U	0.34 U	0.34 U	0.33 U	0.33 U	0.34 U	NA	NA
2,3,5,6-TETRACHLOROPHENOL	UG/L	0.55 U	0.55 U	0.53 U	0.49 U	0.49 U	0.51 U	0.51 U	0.53 U	0.53 U	0.53 U	0.53 U	0.51 U	0.51 U	0.53 U	NA	NA
2,4,5-TRICHLOROPHENOL	UG/L	0.27 U	0.27 U	0.26 U	0.24 U	0.24 U	0.25 U	0.25 U	0.26 U	0.26 U	0.26 U	0.26 U	0.25 U	0.25 U	0.26 U	NA	NA
2,4,6-TRICHLOROPHENOL	UG/L	0.24 U	0.24 U	0.23 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.22 U	0.22 U	0.23 U	NA	NA
2,4-DICHLOROPHENOL	UG/L	0.055 U	0.055 U	0.053 U	0.049 U	0.049 U	0.051 U	0.051 U	0.053 U	0.053 U	0.053 U	0.053 U	0.051 U	0.051 U	0.053 U	NA	NA
2,4-DIMETHYLPHENOL	UG/L	0.64 U	0.64 U	0.61 U	0.56 U	0.56 U	0.59 U	0.59 U	0.61 U	0.61 U	0.61 U	0.61 U	0.59 U	0.59 U	0.61 U	NA	NA
2,4-DINITROPHENOL	UG/L	3.5 U	3.5 U	3.4 U	3.1 U	3.1 U	3.3 U	3.3 U	3.4 U	3.4 U	3.4 U	3.4 U	3.3 U	3.3 U	3.4 U	NA	NA
2,4-DINITROTOLUENE	UG/L	0.38 U	0.38 U	0.37 U	0.34 U	0.34 U	0.35 U	0.35 U	0.37 U	0.37 U	0.37 U	0.37 U	0.35 U	0.35 U	0.37 U	NA	NA
2,6-DINITROTOLUENE	UG/L	0.19 U	0.19 U	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	0.17 U	0.18 U	NA	NA
2-CHLORONAPHTHALENE	UG/L	0.064 U	0.064 U	0.061 U	0.057 U	0.057 U	0.069 J	0.059 U	0.061 U	0.061 U	0.061 U	0.061 U	0.059 U	0.059 U	0.061 U	NA	NA
2-CHLOROPHENOL	UG/L	0.24 U	0.24 U	0.23 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	NA	NA
2-METHYLNAPHTHALENE	UG/L	0.11 J	0.067 U	0.18 J	0.06 U	0.06 U	0.12 J	0.062 U	0.065 U	0.065 U	0.065 U	0.065 U	0.062 U	0.062 U	0.065 U	NA	NA
2-METHYLPHENOL	UG/L	0.61 U	0.61 U	0.58 U	0.54 U	0.54 U	0.56 U	0.56 U	0.58 U	0.58 U	0.58 U	0.58 U	0.56 U	0.56 U	0.58 U	NA	NA
2-NITROANILINE	UG/L	0.6 U	0.6 U	0.57 U	0.53 U	0.53 U	0.55 U	0.55 U	0.57 U	0.57 U	0.57 U	0.57 U	0.55 U	0.55 U	0.57 U	NA	NA
2-NITROPHENOL	UG/L	0.21 U	0.21 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	NA	NA
3,3'-DICHLOROBENZIDINE	UG/L	0.63 U	0.63 U	0.61 U	0.56 U	0.56 U	0.58 U	0.58 U	0.61 U	0.61 U	0.61 U	0.61 U	0.58 U	0.58 U	0.61 U	NA	NA
3-NITROANILINE	UG/L	0.48 U	0.48 U	0.46 U	0.42 U	0.42 U	0.44 U	0.44 U	0.46 U	0.46 U	0.46 U	0.46 U	0.44 U	0.44 U	0.46 U	NA	NA
4,6-DINITRO-2-METHYLPHENOL	UG/L	1.6 U	1.6 U	1.5 U	1.4 U	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	NA	NA
4-BROMOPHENYL PHENYLETHER	UG/L	0.35 U	0.35 U	0.33 U	0.31 U	0.31 U	0.32 U	0.32 U	0.33 U	0.33 U	0.33 U	0.33 U	0.32 U	0.32 U	0.33 U	NA	NA

Table C-2
Analytical Summary - First Semi-Annual 2024 Groundwater Data
First Semi-Annual 2024 Sampling Event
Superior Facility
Superior, Wisconsin

ANALYTE NAME	UNITS	W-04AR2 4/24/2024	W-06A 4/24/2024	W-06C 4/25/2024	W-10AR2 4/25/2024	W-10AR2 DUP 4/25/2024	W-12A 4/25/2024	W-12CR 4/24/2024	W-18D 4/24/2024	W-28C 4/24/2024	W-30A 4/24/2024	W-30C 4/24/2024	W-30C-DUP 4/24/2024	Field Blank 4/24/2024	Field Blank 4/25/2024	Trip Blank 4/24/2024	Trip Blank 4/25/2024
4-CHLORO-3-METHYLPHENOL	UG/L	0.47 U	0.47 U	0.45 U	0.42 U	0.42 U	0.44 U	0.44 U	0.45 U	0.45 U	0.45 U	0.45 U	0.44 U	0.44 U	0.45 U	NA	NA
4-CHLOROANILINE	UG/L	0.41 U	0.41 U	0.39 U	0.36 U	0.36 U	0.38 U	0.38 U	0.39 U	0.39 U	0.39 U	0.39 U	0.38 U	0.38 U	0.39 U	NA	NA
4-CHLOROPHENYLPHENYL-ETHER	UG/L	0.24 U	0.24 U	0.23 U	0.21 U	0.21 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.22 U	0.22 U	0.23 U	NA	NA
4-METHYLPHENOL	UG/L	0.4 U	0.4 U	0.39 U	0.36 U	0.36 U	0.37 U	0.37 U	0.39 U	0.39 U	0.39 U	0.39 U	0.37 U	0.37 U	0.39 U	NA	NA
4-NITROANILINE	UG/L	0.39 U	0.39 U	0.38 U	0.35 U	0.35 U	0.36 U	0.36 U	0.38 U	0.38 U	0.38 U	0.38 U	0.36 U	0.36 U	0.38 U	NA	NA
4-NITROPHENOL	UG/L	1 U	1 U	0.98 U	0.9 U	0.9 U	0.94 U	0.94 U	0.98 U	0.98 U	0.98 U	0.98 U	0.94 U	0.94 U	0.98 U	NA	NA
ACENAPHTHENE	UG/L	1.1	0.071 U	0.068 U	35 J	10 J	0.065 U	0.065 U	0.068 U	0.068 U	0.58	0.068 U	0.065 U	0.065 U	0.068 U	NA	NA
ACENAPHTHYLENE	UG/L	0.32	0.071 U	0.068 U	0.72 J	0.2 J	0.065 U	0.065 U	0.068 U	0.068 U	0.068 U	0.068 U	0.065 U	0.065 U	0.068 U	NA	NA
ANTHRACENE	UG/L	4.8	0.053 U	0.051 U	0.37 J	0.071 J	0.049 U	0.049 U	0.051 U	0.051 U	0.33	0.075 J	0.22 J	0.049 U	0.051 U	NA	NA
BENZO (A) ANTHRACENE	UG/L	3.4	0.082 U	0.078 U	0.072 U	0.072 U	0.075 U	0.075 U	0.078 U	0.078 U	0.078 U	0.078 U	0.075 U	0.075 U	0.078 U	NA	NA
BENZO (A) PYRENE	UG/L	1.2	0.058 U	0.055 U	0.051 U	0.051 U	0.053 U	0.053 U	0.055 U	0.055 U	0.055 U	0.055 U	0.053 U	0.053 U	0.055 U	NA	NA
BENZO (B) FLUORANTHENE	UG/L	2.9	0.11 U	0.1 U	0.093 U	0.093 U	0.097 U	0.097 U	0.1 U	0.1 U	0.1 U	0.1 U	0.097 U	0.097 U	0.1 U	NA	NA
BENZO (G,H,I) PERYLENE	UG/L	0.67	0.075 U	0.072 U	0.066 U	0.066 U	0.069 U	0.069 U	0.072 U	0.072 U	0.072 U	0.072 U	0.069 U	0.069 U	0.072 U	NA	NA
BENZO (K) FLUORANTHENE	UG/L	1.3	0.096 U	0.092 U	0.085 U	0.085 U	0.088 U	0.088 U	0.092 U	0.092 U	0.092 U	0.092 U	0.088 U	0.088 U	0.092 U	NA	NA
BENZOIC ACID	UG/L	2.8 U	2.8 U	2.6 U	2.4 U	2.4 U	2.5 U	2.5 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.5 U	2.6 U	NA	NA
BENZYL ALCOHOL	UG/L	1.8 U	1.8 U	1.7 U	1.6 U	1.6 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	NA	NA
BIS (2-CHLOROETHOXY)- METHANE	UG/L	0.17 U	0.17 U	0.16 U	0.15 U	0.15 U	0.15 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	NA	NA
BIS (2-CHLOROETHYL) ETHER	UG/L	0.043 U	0.043 U	0.042 U	0.038 U	0.038 U	0.04 U	0.04 U	0.042 U	0.042 U	0.042 U	0.042 U	0.04 U	0.04 U	0.042 U	NA	NA
BIS (2-CHLOROISOPROPYL)-ETHER	UG/L	0.063 U	0.063 U	0.06 U	0.056 U	0.056 U	0.058 U	0.058 U	0.06 U	0.06 U	0.06 U	0.06 U	0.058 U	0.058 U	0.06 U	NA	NA
BIS (2-ETHYLHEXYL)- PHTHALATE	UG/L	6.8 U	6.8 U	6.5 U	6 U	6 U	6.2 U	6.2 U	6.5 U	6.5 U	6.5 U	6.5 U	6.2 U	6.2 U	6.5 U	NA	NA
BUTYL BENZYL PHTHALATE	UG/L	1 U	1 U	0.98 U	0.9 U	0.9 U	0.94 U	0.94 U	0.98 U	0.98 U	0.98 U	0.98 U	0.94 U	0.94 U	0.98 U	NA	NA
CHRYSENE	UG/L	6.1	0.088 U	0.084 U	0.078 U	0.078 U	0.081 U	0.081 U	0.084 U	0.084 U	0.084 U	0.084 U	0.081 U	0.081 U	0.084 U	NA	NA
DIBENZO (A,H) ANTHRACENE	UG/L	0.21	0.078 U	0.075 U	0.069 U	0.069 U	0.072 U	0.072 U	0.075 U	0.075 U	0.075 U	0.075 U	0.072 U	0.072 U	0.075 U	NA	NA
DIBENZOFURAN	UG/L	1.3	0.21 U	0.2 U	9.3 J	2.4 J	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	NA	NA
DIETHYLPHTHALATE	UG/L	0.62 U	0.62 U	0.59 U	0.55 U	0.55 U	0.57 U	0.57 U	0.59 U	0.59 U	0.59 U	0.59 U	0.57 U	0.57 U	0.59 U	NA	NA
DIMETHYLPHTHALATE	UG/L	0.22 U	1 J	0.21 U	3.1 J	0.28 J	0.54 J	0.2 U	0.21 U	0.21 U	2.5	0.21 U	0.2 U	0.2 U	0.21 U	NA	NA
DI-N-BUTYLPHTHALATE	UG/L	5.3 U	5.3 U	5.1 U	4.7 U	4.7 U	4.9 U	4.9 U	5.1 U	5.1 U	5.1 U	5.1 U	4.9 U	4.9 U	5.1 U	NA	NA
DI-N-OCTYLPHTHALATE	UG/L	0.74 U	0.74 U	0.71 U	0.66 U	0.66 U	0.69 U	0.69 U	0.71 U	0.71 U	0.71 U	0.71 U	0.69 U	0.69 U	0.71 U	NA	NA
FLUORANTHENE	UG/L	26	0.065 U	0.063 U	0.79 J	0.21 J	0.06 U	0.06 U	0.063 U	0.063 U	0.063 U	0.063 U	0.064 J	0.06 U	0.063 U	NA	NA
FLUORENE	UG/L	1.9	0.075 U	0.072 U	8.8 J	2.3 J	0.069 U	0.069 U	0.072 U	0.072 U	0.099 J	0.072 U	0.069 U	0.069 U	0.072 U	NA	NA

APPENDIX D
DATA EVALUATION SUMMARY



FTS, LLC

DATE: May 10, 2024

FROM: Kendra Chintella

SUBJECT: Superior Groundwater

SAMPLE DELIVERY GROUP (SDG): 180-172990-1

SAMPLES: SUPE-W-28C-042424, SUPE-W-04AR2-042424, SUPE-FB-1-042424, SUPE-TB-1-042424, SUPE-W-06A-042424, SUPE-W-30A-042424, SUPE-W-12CR-042424, SUPE-W-30C-042424, SUPE-M-99A-042424 (W-30C), SUPE-W-18D-042424

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

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: None
- Field Duplicate Precision
Noncompliance: See attached page for details.
- Surrogate Recoveries
Noncompliance: None
- Laboratory Control Sample
Noncompliance: The RPD of benzo(g,h,i)perylene was above the recovery limits. No action was taken on this basis.

Field Duplicate Precision:

FIELD DUPLICATE PRECISION					
ANALYTE	W-30C	QUAL	M-99A	QUAL	RPD
Anthracene	0.075	J	0.22		98.31*
Fluoranthene	0.063	U	0.064	J	NC

NC – not calculated due to nondetect result

* - RPD is greater than 30%, associated samples are qualified as estimated, "J," due to laboratory or field sampling imprecision unless qualified as not detected due to blank contamination.

FTS, LLC

DATE: May 23, 2024

FROM: Kendra Chintella

SUBJECT: Superior Groundwater

SAMPLE DELIVERY GROUP (SDG): 180-172990-2

SAMPLES: SUPE-W-28C-042424, SUPE-W-04AR2-042424, SUPE-FB-1-042424, SUPE-W-06A-042424, SUPE-W-30A-042424, SUPE-W-12CR-042424, SUPE-W-30C-042424, SUPE-M-99A-042424 (W-30C)

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 (0.394 JI pg/L) was detected below the QL in the method blank and results in samples M-99A, W-04AR2, W-06A, W-12CR, W-28C, W-30A, and W-30C were qualified not detected at the QL. 1,2,3,7,8-PeCDD (0.264 JI pg/L) was detected below the QL in the method blank and result in sample W-04AR2 was qualified not detected at the QL. Total PeCDD (1.14 JI pg/L) was detected below the QL in the method blank and results in samples M-99A, W-04AR2, W-06A, W-12CR, W-28C, and W-30C were qualified not detected at the QL. 1,2,3,4,7,8-HxCDD (1.99 JI pg/L) was detected below the QL in the method blank and results in samples M-99A, W-04AR2, W-06A, W-12CR, W-28C, W-30A, and W-30C were qualified not detected at the QL. Total HxCDD (1.99 JI pg/L) was detected below the QL in the method blank and results in samples M-99A, W-06A, W-12CR, W-28C, W-30A, and W-30C were qualified not detected at the QL. OCDD (0.981 JI pg/L) was detected below the QL in the method blank and results in samples W-06A and W-12CR were qualified not detected at the QL. Total TCDF (0.346 JI pg/L) was detected below the QL in the method blank and results in samples W-06A, W-12CR, and W-28C were qualified not detected at the QL. 1,2,3,4,7,8-HxCDF (0.672 JI pg/L) was detected below the QL in the method blank and results in samples M-99A, W-04AR2, W-28C, and W-30A were qualified not detected at the QL. Total HxCDF (0.672 JI pg/L) was detected below the QL in the method blank and results in samples W-06A and W-28C were qualified not detected at the QL. OCDF (1.01 JI pg/L) was detected below the QL in the method blank and results in samples M-99A, W-06A, W-12CR, W-28C, W-30A, and W-30C were qualified not detected at the QL.
- Field Blank Contamination
Noncompliance: Total TCDD (1.8 JI pg/L) was detected below the QL in the field blank, SUPE-FB-1-042424, and results in samples M-99A, W-04AR2, W-06A, W-12CR, W-28C, W-30A, and W-30C were qualified not detected at the QL. Total PeCDD (2.8 JI pg/L) was detected below the QL in the field blank, SUPE-FB-1-042424, and results in samples M-99A, W-04AR2, W-06A, W-12CR, W-28C, and W-30C were qualified not detected at the QL. 1,2,3,4,7,8-HxCDD (1.1 J pg/L) was

detected below the QL in the field blank, SUPE-FB-1-042424, and results in samples M-99A, W-04AR2, W-06A, W-12CR, W-28C, W-30A, and W-30C were qualified not detected at the QL. 1,2,3,6,7,8-HxCDD (0.46 JI pg/L) was detected below the QL in the field blank, SUPE-FB-1-042424, and results in samples M-99A, W-04AR2, W-28C, W-30A, and W-30C were qualified not detected at the QL. 1,2,3,7,8,9-HxCDD (0.31 JI pg/L) was detected below the QL in the field blank, SUPE-FB-1-042424, and the results in samples W-04AR2, M-99A, W-30A, and W-30C were qualified not detected at the QL. Total HxCDD (3 JI pg/L) was detected below the QL in the field blank, SUPE-FB-1-042424, and results in samples M-99A, W-06A, W-12CR, W-28C, W-30A, and W-30C were qualified not detected at the QL. OCDD (3.4 JI pg/L) was detected below the QL in the field blank, SUPE-FB-1-042424, and results in samples W-06A and W-12CR were qualified not detected at the QL. Total TCDF (2.3 JI pg/L) was detected below the QL in the field blank, SUPE-FB-1-042424, and results in samples W-06A, W-12CR, and W-28C were qualified not detected at the QL. 1,2,3,6,7,8-HxCDF (1.1 JI pg/L) was detected below the QL in the field blank, SUPE-FB-1-042424, and results in samples M-99A, W-04AR2, W-06A, W-28C, and W-30A were qualified not detected at the QL. Total HxCDF (1.1 JI pg/L) was detected below the QL in the field blank, SUPE-FB-1-042424, and results in samples W-06A and W-28C were qualified not detected at the QL. 1,2,3,4,6,7,8-HpCDF (0.88 JI pg/L) was detected below the QL in the field blank, SUPE-FB-1-042424, and results in samples M-99A, W-06A, W-28C, W-30A, and W-30C were qualified not detected at the QL. Total HpCDF (0.88 JI pg/L) was detected below the QL in the field blank, SUPE-FB-1-042424, and results in samples W-06A, W-28C, and W-30C were qualified not detected at the QL. OCDF (1.3 JI pg/L) was detected below the QL in the field blank, SUPE-FB-1-042424, and results in samples M-99A, W-06A, W-12CR, W-28C, W-30A, and W-30C 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-30C	QUAL	M-99A	QUAL	RPD
1,2,3,4,6,7,8-HpCDD	55		150		92.68*
1,2,3,4,6,7,8-HpCDF	12	J	27	J	76.92*
1,2,3,4,7,8,9-HpCDF	2.2	J	6.3	J	96.47*
1,2,3,4,7,8-HxCDD	1.1	JI	1.6	J	37.04*
1,2,3,4,7,8-HxCDF	1.7	U	5.1	JI	NC
1,2,3,6,7,8-HxCDD	1.9	J	5	J	89.86*
1,2,3,6,7,8-HxCDF	1.8	U	8.9	JI	NC
1,2,3,7,8,9-HxCDD	1	JI	2.2	J	75.00*
2,3,7,8-TCDF	0.32	J	0.59	JI	59.34*
OCDD	350		740		71.56*
OCDF	38	J	93	J	83.97*
Total HpCDD	98		260		90.50*
Total HpCDF	45	J	110		83.87*
Total HxCDD	14	JI	33	JI	80.85*
Total HxCDF	48	I	120	I	85.71*
Total PeCDD	1.6	JI	2.9	JI	57.78*
Total PeCDF	160	I	350	I	74.51*
Total TCDD	1.3	JI	0.89	JI	37.44*
Total TCDF	140	I	370	I	90.20*

NC – not calculated due to non-detect result

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

FTS, LLC

DATE: May 10, 2024

FROM: Kendra Chintella

SUBJECT: Superior Groundwater

SAMPLE DELIVERY GROUP (SDG): 180-173098-1

SAMPLES: SUPE-W-10AR2-042524, SUPE-M-99B-042524 (W-10AR2), SUPE-W-06C-042524, SUPE-TB-2-042524, SUPE-FB-2-042524, SUPE-W-12A-042524

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

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: None
- Field Duplicate Precision
Noncompliance: See attached page for details.
- Surrogate Recoveries
Noncompliance: None
- Laboratory Control Sample
Noncompliance: The LCS recovery of bis(chloroisopropyl)ether was above the recovery limits. No action was taken on this basis.
- Matrix Spike/Matrix Spike Duplicate Sample
Noncompliance: The MS recoveries of 1,2,4-trichlorobenzene and 2,4-dimethylphenol fell below the recovery limits. The MSD recoveries of chloromethane, 1,4-dichlorobenzene, 2,4-dinitrophenol, and hexachloroethane fell below the recovery limits. The MS/MSD recoveries of 3,3'-dichlorobenzidine, 4-chloroaniline, benzyl alcohol, and hexachlorocyclopentadiene fell below the recovery limits. The RPD of hexachloroethane was above the recovery limits. No action was taken on this basis.

Field Duplicate Precision:

FIELD DUPLICATE PRECISION					
ANALYTE	W-10AR2	QUAL	M-99B	QUAL	RPD
1,2,4-Trimethylbenzene	5.4		5.1		5.71
1-Methylnaphthalene	8.1		2.1		117.65*
Acenaphthene	35		10		111.11*
Acenaphthylene	0.72		0.2		113.04*
Anthracene	0.37		0.071	J	135.60*
Benzene	13		13		0.00
Dibenzofuran	9.3		2.4		117.95*
Dimethyl phthalate	3.1		0.28	J	166.86*
Ethylbenzene	25		26		3.92
Fluoranthene	0.79		0.21		116.00*
Fluorene	8.8		2.3		117.12*
m&p-Xylenes	2.3		2.4		4.26
Naphthalene	1.2		1.2		0.00
o-Xylene	9.1		9		1.10
Phenanthrene	1.1		0.15	U	NC
Phenol	0.52	J	0.47	U	NC
Pyrene	0.57		0.13	J	125.71*
Toluene	1.5		1.4		6.90

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: May 23, 2024

FROM: Kendra Chintella

SUBJECT: Superior Groundwater

SAMPLE DELIVERY GROUP (SDG): 180-173098-2

SAMPLES: SUPE-W-10AR2-042524, SUPE-M-99B-042524 (W-10AR2), SUPE-W-06C-042524, SUPE-FB-2-042524, SUPE-W-12A-042524

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: 1,2,3,4,7,8-HxCDD (0.781 JI pg/L) was detected below the QL in the method blank and results in samples M-99B, W-06C, and W-12A were qualified not detected at the QL. 1,2,3,7,8,9-HxCDD (0.576 JI pg/L) was detected below the QL in the method blank and the result in sample W-12A was qualified not detected at the QL. Total HxCDD (1.36 JI pg/L) was detected below the QL in the method blank and results in samples M-99B, W-06C, W-10AR2, and W-12A were qualified not detected at the QL. OCDD (1.33 J pg/L) was detected below the QL in the method blank and result in sample W-06C was qualified not detected at the QL. OCDF (0.375 J pg/L) was detected below the QL in the method blank and results in samples M-99B, W-06C, W-10AR2, and W-12A were qualified not detected at the QL.
- Field Blank Contamination
Noncompliance: 1,2,3,7,8-PeCDD (0.35 JI pg/L) was detected below the QL in the field blank, SUPE-FB-2-042524, and result in sample MW-12A was qualified not detected at the QL. Total PeCDD (0.46 JI pg/L) was detected below the QL in the field blank, SUPE-FB-2-042524, and results in samples M-99B, W-06C, and W-12A were qualified not detected at the QL. 1,2,3,4,7,8-HxCDD (1.4 JI pg/L) was detected below the QL in the field blank, SUPE-FB-2-042524, and results in samples M-99B, W-06C, W-10AR2, and W-12A were qualified not detected at the QL. Total HxCDD (1.4 JI pg/L) was detected below the QL in the field blank, SUPE-FB-2-042524, and results in samples M-99B, W-06C, W-10AR2, and W-12A were qualified not detected at the QL. OCDD (2 J pg/L) was detected below the QL in the field blank, SUPE-FB-2-042524, and result in sample W-06C was qualified not detected at the QL. Total TCDF (1 JI pg/L) was detected below the QL in the field blank, SUPE-FB-2-042524, and results in samples W-06C and W-10AR2 were qualified not detected at the QL. OCDF (1.5 JI pg/L) was detected below the QL in the field blank, SUPE-FB-2-042524, and results in samples M-99B, W-06C, W-10AR2, and W-12A were qualified not detected at the QL.

- Field Duplicate Precision
Noncompliance: See attached.
- Surrogate Recoveries
Noncompliance: None
- Laboratory Control Sample
Noncompliance: None

Field Duplicate Precision:

FIELD DUPLICATE PRECISION					
ANALYTE	W-10AR2	QUAL	M-99B	QUAL	RPD
1,2,3,4,6,7,8-HpCDD	13	J	16	J	20.69
1,2,3,4,6,7,8-HpCDF	5.6	J	3.2	J	54.55*
1,2,3,4,7,8-HxCDD	0.36	U	1.9	JI	NC
1,2,3,6,7,8-HxCDD	0.33	U	0.81	JI	NC
1,2,3,6,7,8-HxCDF	1.5	JI	2.3	JI	42.11*
2,3,4,7,8-PeCDF	0.28	U	0.3	JI	NC
OCDD	110		160		37.04*
OCDF	19	J	9.6	J	65.73*
Total HpCDD	40	JI	56		33.33*
Total HpCDF	12	J	10	J	18.18
Total HxCDD	7	JI	10	JI	35.29*
Total HxCDF	21	JI	22	JI	4.65
Total PeCDD	0.18	U	0.65	JI	NC
Total PeCDF	8.6	JI	11	JI	24.49
Total TCDF	5.5	JI	12	I	74.29*

NC – not calculated due to non-detect result

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

APPENDIX E
LABORATORY ANALYTICAL DATA



 **ANALYTICAL REPORT****PREPARED FOR**

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

Generated 5/6/2024 8:16:00 AM

JOB DESCRIPTION

Superior, WI Semiannual Groundwater

JOB NUMBER

180-172990-1

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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5/6/2024 8:16:00 AM

Authorized for release by
Shali Brown, Project Manager II
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(615)301-5031



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Case Narrative

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

Job ID: 180-172990-1

Job ID: 180-172990-1

Eurofins Pittsburgh

Job Narrative 180-172990-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/25/2024 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°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: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 466963.

Method 8270E_LL: The continuing calibration verification (CCV) associated with batch 180-467383 recovered above the upper control limit for 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 180-467383/3).

Method 8270E_LL: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 180-466963 and analytical batch 180-467383 recovered outside control limits for the following analyte: Benzo[g,h,i]perylene.

Method 8270E_LL: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SUPE-M-99A-042424 (180-172990-9). 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.

Eurofins Pittsburgh

Definitions/Glossary

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

Job ID: 180-172990-1

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
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	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: 180-172990-1

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998027800	08-31-24

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998310390	08-31-24

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Sample Summary

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

Job ID: 180-172990-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-172990-1	SUPE-W-28C-042424	Water	04/24/24 09:40	04/25/24 09:15
180-172990-2	SUPE-W-04AR2-042424	Water	04/24/24 11:55	04/25/24 09:15
180-172990-3	SUPE-FB-1-042424	Water	04/24/24 11:55	04/25/24 09:15
180-172990-4	SUPE-TB-1-042424	Water	04/24/24 14:38	04/25/24 09:15
180-172990-5	SUPE-W-06A-042424	Water	04/24/24 14:38	04/25/24 09:15
180-172990-6	SUPE-W-30A-042424	Water	04/24/24 12:33	04/25/24 09:15
180-172990-7	SUPE-W-12CR-042424	Water	04/24/24 10:33	04/25/24 09:15
180-172990-8	SUPE-W-30C-042424	Water	04/24/24 14:14	04/25/24 09:15
180-172990-9	SUPE-M-99A-042424	Water	04/24/24 16:00	04/25/24 09:15
180-172990-10	SUPE-W-18D-042424	Water	04/24/24 13:30	04/25/24 09:15

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Method Summary

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

Job ID: 180-172990-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
EPA 8270E LL	Semivolatile Organic Compounds (GC/MS)	SW846	EET PIT
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: 180-172990-1

Client Sample ID: SUPE-W-28C-042424

Lab Sample ID: 180-172990-1

Date Collected: 04/24/24 09:40

Matrix: Water

Date Received: 04/25/24 09:15

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	709835	04/29/24 14:49	CC	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3520C			240 mL	250 uL	466963	04/30/24 13:31	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467383	05/03/24 14:45	VVP	EET PIT
Instrument ID: CHMSD7										

Client Sample ID: SUPE-W-04AR2-042424

Lab Sample ID: 180-172990-2

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/25/24 09:15

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	709835	04/29/24 15:11	CC	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3520C			230 mL	250 uL	466963	04/30/24 13:31	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467383	05/03/24 15:08	VVP	EET PIT
Instrument ID: CHMSD7										

Client Sample ID: SUPE-FB-1-042424

Lab Sample ID: 180-172990-3

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/25/24 09:15

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	709835	04/29/24 15:34	CC	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3520C			250 mL	250 uL	466963	04/30/24 13:31	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467383	05/03/24 15:31	VVP	EET PIT
Instrument ID: CHMSD7										

Client Sample ID: SUPE-TB-1-042424

Lab Sample ID: 180-172990-4

Date Collected: 04/24/24 14:38

Matrix: Water

Date Received: 04/25/24 09:15

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	709835	04/29/24 15:56	CC	EET BUF
Instrument ID: HP5973N										

Client Sample ID: SUPE-W-06A-042424

Lab Sample ID: 180-172990-5

Date Collected: 04/24/24 14:38

Matrix: Water

Date Received: 04/25/24 09:15

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	709835	04/29/24 16:19	CC	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3520C			230 mL	250 uL	466963	04/30/24 13:31	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467383	05/03/24 15:54	VVP	EET PIT
Instrument ID: CHMSD7										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-30A-042424

Lab Sample ID: 180-172990-6

Date Collected: 04/24/24 12:33

Matrix: Water

Date Received: 04/25/24 09:15

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	709835	04/29/24 16:41	CC	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3520C			240 mL	250 uL	466963	04/30/24 13:31	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467383	05/03/24 16:17	VVP	EET PIT
Instrument ID: CHMSD7										

Client Sample ID: SUPE-W-12CR-042424

Lab Sample ID: 180-172990-7

Date Collected: 04/24/24 10:33

Matrix: Water

Date Received: 04/25/24 09:15

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	709835	04/29/24 17:04	CC	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3520C			250 mL	250 uL	466963	04/30/24 13:31	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467383	05/03/24 16:40	VVP	EET PIT
Instrument ID: CHMSD7										

Client Sample ID: SUPE-W-30C-042424

Lab Sample ID: 180-172990-8

Date Collected: 04/24/24 14:14

Matrix: Water

Date Received: 04/25/24 09:15

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	709835	04/29/24 17:26	CC	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3520C			240 mL	250 uL	466963	04/30/24 13:31	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467383	05/03/24 17:02	VVP	EET PIT
Instrument ID: CHMSD7										

Client Sample ID: SUPE-M-99A-042424

Lab Sample ID: 180-172990-9

Date Collected: 04/24/24 16:00

Matrix: Water

Date Received: 04/25/24 09:15

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	709835	04/29/24 17:49	CC	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3520C			250 mL	250 uL	466963	04/30/24 13:31	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467383	05/03/24 17:25	VVP	EET PIT
Instrument ID: CHMSD7										

Lab Chronicle

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-18D-042424

Lab Sample ID: 180-172990-10

Date Collected: 04/24/24 13:30

Matrix: Water

Date Received: 04/25/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			240 mL	250 uL	466963	04/30/24 13:31	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467383	05/03/24 17:48	VVP	EET PIT

Instrument ID: CHMSD7

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: Analysis
 CC = Caitlyn Cizdziel

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: 180-172990-1

Client Sample ID: SUPE-W-28C-042424

Lab Sample ID: 180-172990-1

Date Collected: 04/24/24 09:40

Matrix: Water

Date Received: 04/25/24 09:15

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			04/29/24 14:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/29/24 14:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/29/24 14:49	1
Benzene	ND		1.0	0.41	ug/L			04/29/24 14:49	1
Chloromethane	ND		1.0	0.35	ug/L			04/29/24 14:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/29/24 14:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/29/24 14:49	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/29/24 14:49	1
Naphthalene	ND		1.0	0.43	ug/L			04/29/24 14:49	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/29/24 14:49	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/29/24 14:49	1
o-Xylene	ND		1.0	0.76	ug/L			04/29/24 14:49	1
Styrene	ND		1.0	0.73	ug/L			04/29/24 14:49	1
Toluene	ND		1.0	0.51	ug/L			04/29/24 14:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/29/24 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		04/29/24 14:49	1
4-Bromofluorobenzene (Surr)	96		73 - 120		04/29/24 14:49	1
Dibromofluoromethane (Surr)	105		75 - 123		04/29/24 14:49	1
Toluene-d8 (Surr)	89		80 - 120		04/29/24 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L		04/30/24 13:31	05/03/24 14:45	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 14:45	1
1,3-Dichlorobenzene	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 14:45	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L		04/30/24 13:31	05/03/24 14:45	1
1-Methylnaphthalene	ND		0.20	0.058	ug/L		04/30/24 13:31	05/03/24 14:45	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.34	ug/L		04/30/24 13:31	05/03/24 14:45	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.53	ug/L		04/30/24 13:31	05/03/24 14:45	1
2,4,5-Trichlorophenol	ND		1.0	0.26	ug/L		04/30/24 13:31	05/03/24 14:45	1
2,4,6-Trichlorophenol	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 14:45	1
2,4-Dichlorophenol	ND		0.20	0.053	ug/L		04/30/24 13:31	05/03/24 14:45	1
2,4-Dimethylphenol	ND		1.0	0.61	ug/L		04/30/24 13:31	05/03/24 14:45	1
2,4-Dinitrophenol	ND		10	3.4	ug/L		04/30/24 13:31	05/03/24 14:45	1
2,4-Dinitrotoluene	ND		1.0	0.37	ug/L		04/30/24 13:31	05/03/24 14:45	1
2,6-Dinitrotoluene	ND		1.0	0.18	ug/L		04/30/24 13:31	05/03/24 14:45	1
2-Chloronaphthalene	ND		0.20	0.061	ug/L		04/30/24 13:31	05/03/24 14:45	1
2-Chlorophenol	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 14:45	1
2-Methylnaphthalene	ND		0.20	0.065	ug/L		04/30/24 13:31	05/03/24 14:45	1
2-Methylphenol	ND		1.0	0.58	ug/L		04/30/24 13:31	05/03/24 14:45	1
2-Nitroaniline	ND		5.2	0.57	ug/L		04/30/24 13:31	05/03/24 14:45	1
2-Nitrophenol	ND		1.0	0.20	ug/L		04/30/24 13:31	05/03/24 14:45	1
3,3'-Dichlorobenzidine	ND		1.0	0.61	ug/L		04/30/24 13:31	05/03/24 14:45	1
3-Nitroaniline	ND		5.2	0.46	ug/L		04/30/24 13:31	05/03/24 14:45	1
4,6-Dinitro-2-methylphenol	ND		5.2	1.5	ug/L		04/30/24 13:31	05/03/24 14:45	1
4-Bromophenyl phenyl ether	ND		1.0	0.33	ug/L		04/30/24 13:31	05/03/24 14:45	1
4-Chloro-3-methylphenol	ND		1.0	0.45	ug/L		04/30/24 13:31	05/03/24 14:45	1
4-Chloroaniline	ND		1.0	0.39	ug/L		04/30/24 13:31	05/03/24 14:45	1

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Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-28C-042424

Lab Sample ID: 180-172990-1

Date Collected: 04/24/24 09:40

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 14:45	1
4-Nitroaniline	ND		5.2	0.38	ug/L		04/30/24 13:31	05/03/24 14:45	1
4-Nitrophenol	ND		5.2	0.98	ug/L		04/30/24 13:31	05/03/24 14:45	1
Acenaphthene	ND		0.20	0.068	ug/L		04/30/24 13:31	05/03/24 14:45	1
Acenaphthylene	ND		0.20	0.068	ug/L		04/30/24 13:31	05/03/24 14:45	1
Anthracene	ND		0.20	0.051	ug/L		04/30/24 13:31	05/03/24 14:45	1
Benzo[a]anthracene	ND		0.20	0.078	ug/L		04/30/24 13:31	05/03/24 14:45	1
Benzo[a]pyrene	ND		0.20	0.055	ug/L		04/30/24 13:31	05/03/24 14:45	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		04/30/24 13:31	05/03/24 14:45	1
Benzo[g,h,i]perylene	ND	*1	0.20	0.072	ug/L		04/30/24 13:31	05/03/24 14:45	1
Benzo[k]fluoranthene	ND		0.20	0.092	ug/L		04/30/24 13:31	05/03/24 14:45	1
Benzoic acid	ND		5.2	2.6	ug/L		04/30/24 13:31	05/03/24 14:45	1
Benzyl alcohol	ND		5.2	1.7	ug/L		04/30/24 13:31	05/03/24 14:45	1
Bis(2-chloroethoxy)methane	ND		1.0	0.16	ug/L		04/30/24 13:31	05/03/24 14:45	1
Bis(2-chloroethyl)ether	ND		0.20	0.042	ug/L		04/30/24 13:31	05/03/24 14:45	1
Bis(2-ethylhexyl) phthalate	ND		10	6.5	ug/L		04/30/24 13:31	05/03/24 14:45	1
bis(chloroisopropyl) ether	ND		0.20	0.060	ug/L		04/30/24 13:31	05/03/24 14:45	1
Butyl benzyl phthalate	ND		2.1	0.98	ug/L		04/30/24 13:31	05/03/24 14:45	1
Chrysene	ND		0.20	0.084	ug/L		04/30/24 13:31	05/03/24 14:45	1
Dibenz(a,h)anthracene	ND		0.20	0.075	ug/L		04/30/24 13:31	05/03/24 14:45	1
Dibenzofuran	ND		1.0	0.20	ug/L		04/30/24 13:31	05/03/24 14:45	1
Diethyl phthalate	ND		1.0	0.59	ug/L		04/30/24 13:31	05/03/24 14:45	1
Dimethyl phthalate	ND		2.1	0.21	ug/L		04/30/24 13:31	05/03/24 14:45	1
Di-n-butyl phthalate	ND		10	5.1	ug/L		04/30/24 13:31	05/03/24 14:45	1
Di-n-octyl phthalate	ND		1.0	0.71	ug/L		04/30/24 13:31	05/03/24 14:45	1
Fluoranthene	ND		0.20	0.063	ug/L		04/30/24 13:31	05/03/24 14:45	1
Fluorene	ND		0.20	0.072	ug/L		04/30/24 13:31	05/03/24 14:45	1
Hexachlorobenzene	ND		0.20	0.058	ug/L		04/30/24 13:31	05/03/24 14:45	1
Hexachlorobutadiene	ND		0.20	0.072	ug/L		04/30/24 13:31	05/03/24 14:45	1
Hexachlorocyclopentadiene	ND		1.0	0.52	ug/L		04/30/24 13:31	05/03/24 14:45	1
Hexachloroethane	ND		1.0	0.14	ug/L		04/30/24 13:31	05/03/24 14:45	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.089	ug/L		04/30/24 13:31	05/03/24 14:45	1
Isophorone	ND		1.0	0.20	ug/L		04/30/24 13:31	05/03/24 14:45	1
Methylphenol, 3 & 4	ND		1.0	0.39	ug/L		04/30/24 13:31	05/03/24 14:45	1
Nitrobenzene	ND		2.1	0.52	ug/L		04/30/24 13:31	05/03/24 14:45	1
N-Nitrosodi-n-propylamine	ND		0.20	0.074	ug/L		04/30/24 13:31	05/03/24 14:45	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		04/30/24 13:31	05/03/24 14:45	1
Pentachlorophenol	ND		1.0	0.88	ug/L		04/30/24 13:31	05/03/24 14:45	1
Phenanthrene	ND		0.20	0.16	ug/L		04/30/24 13:31	05/03/24 14:45	1
Phenol	ND		1.0	0.51	ug/L		04/30/24 13:31	05/03/24 14:45	1
Pyrene	ND		0.20	0.056	ug/L		04/30/24 13:31	05/03/24 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	60		23 - 128	04/30/24 13:31	05/03/24 14:45	1
2-Fluorobiphenyl	55		20 - 105	04/30/24 13:31	05/03/24 14:45	1
2-Fluorophenol (Surr)	54		20 - 105	04/30/24 13:31	05/03/24 14:45	1
Nitrobenzene-d5 (Surr)	60		20 - 107	04/30/24 13:31	05/03/24 14:45	1
Phenol-d5 (Surr)	59		20 - 106	04/30/24 13:31	05/03/24 14:45	1
Terphenyl-d14 (Surr)	62		22 - 120	04/30/24 13:31	05/03/24 14:45	1

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Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-04AR2-042424

Lab Sample ID: 180-172990-2

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/25/24 09:15

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			04/29/24 15:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/29/24 15:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/29/24 15:11	1
Benzene	ND		1.0	0.41	ug/L			04/29/24 15:11	1
Chloromethane	ND		1.0	0.35	ug/L			04/29/24 15:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/29/24 15:11	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/29/24 15:11	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/29/24 15:11	1
Naphthalene	ND		1.0	0.43	ug/L			04/29/24 15:11	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/29/24 15:11	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/29/24 15:11	1
o-Xylene	ND		1.0	0.76	ug/L			04/29/24 15:11	1
Styrene	ND		1.0	0.73	ug/L			04/29/24 15:11	1
Toluene	ND		1.0	0.51	ug/L			04/29/24 15:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/29/24 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		04/29/24 15:11	1
4-Bromofluorobenzene (Surr)	98		73 - 120		04/29/24 15:11	1
Dibromofluoromethane (Surr)	108		75 - 123		04/29/24 15:11	1
Toluene-d8 (Surr)	93		80 - 120		04/29/24 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.1	0.27	ug/L		04/30/24 13:31	05/03/24 15:08	1
1,2-Dichlorobenzene	ND		1.1	0.23	ug/L		04/30/24 13:31	05/03/24 15:08	1
1,3-Dichlorobenzene	ND		1.1	0.23	ug/L		04/30/24 13:31	05/03/24 15:08	1
1,4-Dichlorobenzene	ND		1.1	0.26	ug/L		04/30/24 13:31	05/03/24 15:08	1
1-Methylnaphthalene	0.079	J	0.21	0.061	ug/L		04/30/24 13:31	05/03/24 15:08	1
2,3,4,6-Tetrachlorophenol	ND		1.1	0.35	ug/L		04/30/24 13:31	05/03/24 15:08	1
2,3,5,6-Tetrachlorophenol	ND		1.1	0.55	ug/L		04/30/24 13:31	05/03/24 15:08	1
2,4,5-Trichlorophenol	ND		1.1	0.27	ug/L		04/30/24 13:31	05/03/24 15:08	1
2,4,6-Trichlorophenol	ND		1.1	0.24	ug/L		04/30/24 13:31	05/03/24 15:08	1
2,4-Dichlorophenol	ND		0.21	0.055	ug/L		04/30/24 13:31	05/03/24 15:08	1
2,4-Dimethylphenol	ND		1.1	0.64	ug/L		04/30/24 13:31	05/03/24 15:08	1
2,4-Dinitrophenol	ND		11	3.5	ug/L		04/30/24 13:31	05/03/24 15:08	1
2,4-Dinitrotoluene	ND		1.1	0.38	ug/L		04/30/24 13:31	05/03/24 15:08	1
2,6-Dinitrotoluene	ND		1.1	0.19	ug/L		04/30/24 13:31	05/03/24 15:08	1
2-Chloronaphthalene	ND		0.21	0.064	ug/L		04/30/24 13:31	05/03/24 15:08	1
2-Chlorophenol	ND		1.1	0.24	ug/L		04/30/24 13:31	05/03/24 15:08	1
2-Methylnaphthalene	0.11	J	0.21	0.067	ug/L		04/30/24 13:31	05/03/24 15:08	1
2-Methylphenol	ND		1.1	0.61	ug/L		04/30/24 13:31	05/03/24 15:08	1
2-Nitroaniline	ND		5.4	0.60	ug/L		04/30/24 13:31	05/03/24 15:08	1
2-Nitrophenol	ND		1.1	0.21	ug/L		04/30/24 13:31	05/03/24 15:08	1
3,3'-Dichlorobenzidine	ND		1.1	0.63	ug/L		04/30/24 13:31	05/03/24 15:08	1
3-Nitroaniline	ND		5.4	0.48	ug/L		04/30/24 13:31	05/03/24 15:08	1
4,6-Dinitro-2-methylphenol	ND		5.4	1.6	ug/L		04/30/24 13:31	05/03/24 15:08	1
4-Bromophenyl phenyl ether	ND		1.1	0.35	ug/L		04/30/24 13:31	05/03/24 15:08	1
4-Chloro-3-methylphenol	ND		1.1	0.47	ug/L		04/30/24 13:31	05/03/24 15:08	1
4-Chloroaniline	ND		1.1	0.41	ug/L		04/30/24 13:31	05/03/24 15:08	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-04AR2-042424

Lab Sample ID: 180-172990-2

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		1.1	0.24	ug/L		04/30/24 13:31	05/03/24 15:08	1
4-Nitroaniline	ND		5.4	0.39	ug/L		04/30/24 13:31	05/03/24 15:08	1
4-Nitrophenol	ND		5.4	1.0	ug/L		04/30/24 13:31	05/03/24 15:08	1
Acenaphthene	1.1		0.21	0.071	ug/L		04/30/24 13:31	05/03/24 15:08	1
Acenaphthylene	0.32		0.21	0.071	ug/L		04/30/24 13:31	05/03/24 15:08	1
Anthracene	4.8		0.21	0.053	ug/L		04/30/24 13:31	05/03/24 15:08	1
Benzo[a]anthracene	3.4		0.21	0.082	ug/L		04/30/24 13:31	05/03/24 15:08	1
Benzo[a]pyrene	1.2		0.21	0.058	ug/L		04/30/24 13:31	05/03/24 15:08	1
Benzo[b]fluoranthene	2.9		0.21	0.11	ug/L		04/30/24 13:31	05/03/24 15:08	1
Benzo[g,h,i]perylene	0.67	*1	0.21	0.075	ug/L		04/30/24 13:31	05/03/24 15:08	1
Benzo[k]fluoranthene	1.3		0.21	0.096	ug/L		04/30/24 13:31	05/03/24 15:08	1
Benzoic acid	ND		5.4	2.8	ug/L		04/30/24 13:31	05/03/24 15:08	1
Benzyl alcohol	ND		5.4	1.8	ug/L		04/30/24 13:31	05/03/24 15:08	1
Bis(2-chloroethoxy)methane	ND		1.1	0.17	ug/L		04/30/24 13:31	05/03/24 15:08	1
Bis(2-chloroethyl)ether	ND		0.21	0.043	ug/L		04/30/24 13:31	05/03/24 15:08	1
Bis(2-ethylhexyl) phthalate	ND		11	6.8	ug/L		04/30/24 13:31	05/03/24 15:08	1
bis(chloroisopropyl) ether	ND		0.21	0.063	ug/L		04/30/24 13:31	05/03/24 15:08	1
Butyl benzyl phthalate	ND		2.2	1.0	ug/L		04/30/24 13:31	05/03/24 15:08	1
Chrysene	6.1		0.21	0.088	ug/L		04/30/24 13:31	05/03/24 15:08	1
Dibenz(a,h)anthracene	0.21		0.21	0.078	ug/L		04/30/24 13:31	05/03/24 15:08	1
Dibenzofuran	1.3		1.1	0.21	ug/L		04/30/24 13:31	05/03/24 15:08	1
Diethyl phthalate	ND		1.1	0.62	ug/L		04/30/24 13:31	05/03/24 15:08	1
Dimethyl phthalate	ND		2.2	0.22	ug/L		04/30/24 13:31	05/03/24 15:08	1
Di-n-butyl phthalate	ND		11	5.3	ug/L		04/30/24 13:31	05/03/24 15:08	1
Di-n-octyl phthalate	ND		1.1	0.74	ug/L		04/30/24 13:31	05/03/24 15:08	1
Fluoranthene	26		0.21	0.065	ug/L		04/30/24 13:31	05/03/24 15:08	1
Fluorene	1.9		0.21	0.075	ug/L		04/30/24 13:31	05/03/24 15:08	1
Hexachlorobenzene	ND		0.21	0.061	ug/L		04/30/24 13:31	05/03/24 15:08	1
Hexachlorobutadiene	ND		0.21	0.075	ug/L		04/30/24 13:31	05/03/24 15:08	1
Hexachlorocyclopentadiene	ND		1.1	0.54	ug/L		04/30/24 13:31	05/03/24 15:08	1
Hexachloroethane	ND		1.1	0.14	ug/L		04/30/24 13:31	05/03/24 15:08	1
Indeno[1,2,3-cd]pyrene	0.64		0.21	0.092	ug/L		04/30/24 13:31	05/03/24 15:08	1
Isophorone	ND		1.1	0.20	ug/L		04/30/24 13:31	05/03/24 15:08	1
Methylphenol, 3 & 4	ND		1.1	0.40	ug/L		04/30/24 13:31	05/03/24 15:08	1
Nitrobenzene	ND		2.2	0.54	ug/L		04/30/24 13:31	05/03/24 15:08	1
N-Nitrosodi-n-propylamine	ND		0.21	0.077	ug/L		04/30/24 13:31	05/03/24 15:08	1
N-Nitrosodiphenylamine	ND		1.1	0.13	ug/L		04/30/24 13:31	05/03/24 15:08	1
Pentachlorophenol	ND		1.1	0.92	ug/L		04/30/24 13:31	05/03/24 15:08	1
Phenanthrene	4.2		0.21	0.17	ug/L		04/30/24 13:31	05/03/24 15:08	1
Phenol	ND		1.1	0.53	ug/L		04/30/24 13:31	05/03/24 15:08	1
Pyrene	17		0.21	0.059	ug/L		04/30/24 13:31	05/03/24 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		23 - 128	04/30/24 13:31	05/03/24 15:08	1
2-Fluorobiphenyl	69		20 - 105	04/30/24 13:31	05/03/24 15:08	1
2-Fluorophenol (Surr)	63		20 - 105	04/30/24 13:31	05/03/24 15:08	1
Nitrobenzene-d5 (Surr)	71		20 - 107	04/30/24 13:31	05/03/24 15:08	1
Phenol-d5 (Surr)	70		20 - 106	04/30/24 13:31	05/03/24 15:08	1
Terphenyl-d14 (Surr)	83		22 - 120	04/30/24 13:31	05/03/24 15:08	1

Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-FB-1-042424

Lab Sample ID: 180-172990-3

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/25/24 09:15

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			04/29/24 15:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/29/24 15:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/29/24 15:34	1
Benzene	ND		1.0	0.41	ug/L			04/29/24 15:34	1
Chloromethane	ND		1.0	0.35	ug/L			04/29/24 15:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/29/24 15:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/29/24 15:34	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/29/24 15:34	1
Naphthalene	ND		1.0	0.43	ug/L			04/29/24 15:34	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/29/24 15:34	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/29/24 15:34	1
o-Xylene	ND		1.0	0.76	ug/L			04/29/24 15:34	1
Styrene	ND		1.0	0.73	ug/L			04/29/24 15:34	1
Toluene	ND		1.0	0.51	ug/L			04/29/24 15:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/29/24 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		04/29/24 15:34	1
4-Bromofluorobenzene (Surr)	98		73 - 120		04/29/24 15:34	1
Dibromofluoromethane (Surr)	108		75 - 123		04/29/24 15:34	1
Toluene-d8 (Surr)	92		80 - 120		04/29/24 15:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.24	ug/L		04/30/24 13:31	05/03/24 15:31	1
1,2-Dichlorobenzene	ND		1.0	0.21	ug/L		04/30/24 13:31	05/03/24 15:31	1
1,3-Dichlorobenzene	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 15:31	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L		04/30/24 13:31	05/03/24 15:31	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		04/30/24 13:31	05/03/24 15:31	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		04/30/24 13:31	05/03/24 15:31	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		04/30/24 13:31	05/03/24 15:31	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		04/30/24 13:31	05/03/24 15:31	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 15:31	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		04/30/24 13:31	05/03/24 15:31	1
2,4-Dimethylphenol	ND		1.0	0.59	ug/L		04/30/24 13:31	05/03/24 15:31	1
2,4-Dinitrophenol	ND		10	3.3	ug/L		04/30/24 13:31	05/03/24 15:31	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		04/30/24 13:31	05/03/24 15:31	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		04/30/24 13:31	05/03/24 15:31	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		04/30/24 13:31	05/03/24 15:31	1
2-Chlorophenol	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 15:31	1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		04/30/24 13:31	05/03/24 15:31	1
2-Methylphenol	ND		1.0	0.56	ug/L		04/30/24 13:31	05/03/24 15:31	1
2-Nitroaniline	ND		5.0	0.55	ug/L		04/30/24 13:31	05/03/24 15:31	1
2-Nitrophenol	ND		1.0	0.19	ug/L		04/30/24 13:31	05/03/24 15:31	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		04/30/24 13:31	05/03/24 15:31	1
3-Nitroaniline	ND		5.0	0.44	ug/L		04/30/24 13:31	05/03/24 15:31	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		04/30/24 13:31	05/03/24 15:31	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		04/30/24 13:31	05/03/24 15:31	1
4-Chloro-3-methylphenol	ND		1.0	0.44	ug/L		04/30/24 13:31	05/03/24 15:31	1
4-Chloroaniline	ND		1.0	0.38	ug/L		04/30/24 13:31	05/03/24 15:31	1

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Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-FB-1-042424

Lab Sample ID: 180-172990-3

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 15:31	1
4-Nitroaniline	ND		5.0	0.36	ug/L		04/30/24 13:31	05/03/24 15:31	1
4-Nitrophenol	ND		5.0	0.94	ug/L		04/30/24 13:31	05/03/24 15:31	1
Acenaphthene	ND		0.19	0.065	ug/L		04/30/24 13:31	05/03/24 15:31	1
Acenaphthylene	ND		0.19	0.065	ug/L		04/30/24 13:31	05/03/24 15:31	1
Anthracene	ND		0.19	0.049	ug/L		04/30/24 13:31	05/03/24 15:31	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		04/30/24 13:31	05/03/24 15:31	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		04/30/24 13:31	05/03/24 15:31	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		04/30/24 13:31	05/03/24 15:31	1
Benzo[g,h,i]perylene	ND	*1	0.19	0.069	ug/L		04/30/24 13:31	05/03/24 15:31	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		04/30/24 13:31	05/03/24 15:31	1
Benzoic acid	ND		5.0	2.5	ug/L		04/30/24 13:31	05/03/24 15:31	1
Benzyl alcohol	ND		5.0	1.7	ug/L		04/30/24 13:31	05/03/24 15:31	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		04/30/24 13:31	05/03/24 15:31	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		04/30/24 13:31	05/03/24 15:31	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		04/30/24 13:31	05/03/24 15:31	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		04/30/24 13:31	05/03/24 15:31	1
Butyl benzyl phthalate	ND		2.0	0.94	ug/L		04/30/24 13:31	05/03/24 15:31	1
Chrysene	ND		0.19	0.081	ug/L		04/30/24 13:31	05/03/24 15:31	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		04/30/24 13:31	05/03/24 15:31	1
Dibenzofuran	ND		1.0	0.19	ug/L		04/30/24 13:31	05/03/24 15:31	1
Diethyl phthalate	ND		1.0	0.57	ug/L		04/30/24 13:31	05/03/24 15:31	1
Dimethyl phthalate	ND		2.0	0.20	ug/L		04/30/24 13:31	05/03/24 15:31	1
Di-n-butyl phthalate	ND		10	4.9	ug/L		04/30/24 13:31	05/03/24 15:31	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		04/30/24 13:31	05/03/24 15:31	1
Fluoranthene	ND		0.19	0.060	ug/L		04/30/24 13:31	05/03/24 15:31	1
Fluorene	ND		0.19	0.069	ug/L		04/30/24 13:31	05/03/24 15:31	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		04/30/24 13:31	05/03/24 15:31	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		04/30/24 13:31	05/03/24 15:31	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		04/30/24 13:31	05/03/24 15:31	1
Hexachloroethane	ND		1.0	0.13	ug/L		04/30/24 13:31	05/03/24 15:31	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		04/30/24 13:31	05/03/24 15:31	1
Isophorone	ND		1.0	0.19	ug/L		04/30/24 13:31	05/03/24 15:31	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		04/30/24 13:31	05/03/24 15:31	1
Nitrobenzene	ND		2.0	0.50	ug/L		04/30/24 13:31	05/03/24 15:31	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		04/30/24 13:31	05/03/24 15:31	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		04/30/24 13:31	05/03/24 15:31	1
Pentachlorophenol	ND		1.0	0.85	ug/L		04/30/24 13:31	05/03/24 15:31	1
Phenanthrene	ND		0.19	0.16	ug/L		04/30/24 13:31	05/03/24 15:31	1
Phenol	ND		1.0	0.49	ug/L		04/30/24 13:31	05/03/24 15:31	1
Pyrene	ND		0.19	0.054	ug/L		04/30/24 13:31	05/03/24 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		23 - 128	04/30/24 13:31	05/03/24 15:31	1
2-Fluorobiphenyl	65		20 - 105	04/30/24 13:31	05/03/24 15:31	1
2-Fluorophenol (Surr)	63		20 - 105	04/30/24 13:31	05/03/24 15:31	1
Nitrobenzene-d5 (Surr)	68		20 - 107	04/30/24 13:31	05/03/24 15:31	1
Phenol-d5 (Surr)	67		20 - 106	04/30/24 13:31	05/03/24 15:31	1
Terphenyl-d14 (Surr)	74		22 - 120	04/30/24 13:31	05/03/24 15:31	1

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Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-TB-1-042424

Lab Sample ID: 180-172990-4

Date Collected: 04/24/24 14:38

Matrix: Water

Date Received: 04/25/24 09:15

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			04/29/24 15:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/29/24 15:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/29/24 15:56	1
Benzene	ND		1.0	0.41	ug/L			04/29/24 15:56	1
Chloromethane	ND		1.0	0.35	ug/L			04/29/24 15:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/29/24 15:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/29/24 15:56	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/29/24 15:56	1
Naphthalene	ND		1.0	0.43	ug/L			04/29/24 15:56	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/29/24 15:56	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/29/24 15:56	1
o-Xylene	ND		1.0	0.76	ug/L			04/29/24 15:56	1
Styrene	ND		1.0	0.73	ug/L			04/29/24 15:56	1
Toluene	ND		1.0	0.51	ug/L			04/29/24 15:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/29/24 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120					04/29/24 15:56	1
4-Bromofluorobenzene (Surr)	96		73 - 120					04/29/24 15:56	1
Dibromofluoromethane (Surr)	105		75 - 123					04/29/24 15:56	1
Toluene-d8 (Surr)	90		80 - 120					04/29/24 15:56	1

Client Sample ID: SUPE-W-06A-042424

Lab Sample ID: 180-172990-5

Date Collected: 04/24/24 14:38

Matrix: Water

Date Received: 04/25/24 09:15

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			04/29/24 16:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/29/24 16:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/29/24 16:19	1
Benzene	ND		1.0	0.41	ug/L			04/29/24 16:19	1
Chloromethane	ND		1.0	0.35	ug/L			04/29/24 16:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/29/24 16:19	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/29/24 16:19	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/29/24 16:19	1
Naphthalene	ND		1.0	0.43	ug/L			04/29/24 16:19	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/29/24 16:19	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/29/24 16:19	1
o-Xylene	ND		1.0	0.76	ug/L			04/29/24 16:19	1
Styrene	ND		1.0	0.73	ug/L			04/29/24 16:19	1
Toluene	ND		1.0	0.51	ug/L			04/29/24 16:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/29/24 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120					04/29/24 16:19	1
4-Bromofluorobenzene (Surr)	100		73 - 120					04/29/24 16:19	1
Dibromofluoromethane (Surr)	110		75 - 123					04/29/24 16:19	1
Toluene-d8 (Surr)	95		80 - 120					04/29/24 16:19	1

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Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-06A-042424

Lab Sample ID: 180-172990-5

Date Collected: 04/24/24 14:38

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.1	0.27	ug/L		04/30/24 13:31	05/03/24 15:54	1
1,2-Dichlorobenzene	ND		1.1	0.23	ug/L		04/30/24 13:31	05/03/24 15:54	1
1,3-Dichlorobenzene	ND		1.1	0.23	ug/L		04/30/24 13:31	05/03/24 15:54	1
1,4-Dichlorobenzene	ND		1.1	0.26	ug/L		04/30/24 13:31	05/03/24 15:54	1
1-Methylnaphthalene	ND		0.21	0.061	ug/L		04/30/24 13:31	05/03/24 15:54	1
2,3,4,6-Tetrachlorophenol	ND		1.1	0.35	ug/L		04/30/24 13:31	05/03/24 15:54	1
2,3,5,6-Tetrachlorophenol	ND		1.1	0.55	ug/L		04/30/24 13:31	05/03/24 15:54	1
2,4,5-Trichlorophenol	ND		1.1	0.27	ug/L		04/30/24 13:31	05/03/24 15:54	1
2,4,6-Trichlorophenol	ND		1.1	0.24	ug/L		04/30/24 13:31	05/03/24 15:54	1
2,4-Dichlorophenol	ND		0.21	0.055	ug/L		04/30/24 13:31	05/03/24 15:54	1
2,4-Dimethylphenol	ND		1.1	0.64	ug/L		04/30/24 13:31	05/03/24 15:54	1
2,4-Dinitrophenol	ND		11	3.5	ug/L		04/30/24 13:31	05/03/24 15:54	1
2,4-Dinitrotoluene	ND		1.1	0.38	ug/L		04/30/24 13:31	05/03/24 15:54	1
2,6-Dinitrotoluene	ND		1.1	0.19	ug/L		04/30/24 13:31	05/03/24 15:54	1
2-Chloronaphthalene	ND		0.21	0.064	ug/L		04/30/24 13:31	05/03/24 15:54	1
2-Chlorophenol	ND		1.1	0.24	ug/L		04/30/24 13:31	05/03/24 15:54	1
2-Methylnaphthalene	ND		0.21	0.067	ug/L		04/30/24 13:31	05/03/24 15:54	1
2-Methylphenol	ND		1.1	0.61	ug/L		04/30/24 13:31	05/03/24 15:54	1
2-Nitroaniline	ND		5.4	0.60	ug/L		04/30/24 13:31	05/03/24 15:54	1
2-Nitrophenol	ND		1.1	0.21	ug/L		04/30/24 13:31	05/03/24 15:54	1
3,3'-Dichlorobenzidine	ND		1.1	0.63	ug/L		04/30/24 13:31	05/03/24 15:54	1
3-Nitroaniline	ND		5.4	0.48	ug/L		04/30/24 13:31	05/03/24 15:54	1
4,6-Dinitro-2-methylphenol	ND		5.4	1.6	ug/L		04/30/24 13:31	05/03/24 15:54	1
4-Bromophenyl phenyl ether	ND		1.1	0.35	ug/L		04/30/24 13:31	05/03/24 15:54	1
4-Chloro-3-methylphenol	ND		1.1	0.47	ug/L		04/30/24 13:31	05/03/24 15:54	1
4-Chloroaniline	ND		1.1	0.41	ug/L		04/30/24 13:31	05/03/24 15:54	1
4-Chlorophenyl phenyl ether	ND		1.1	0.24	ug/L		04/30/24 13:31	05/03/24 15:54	1
4-Nitroaniline	ND		5.4	0.39	ug/L		04/30/24 13:31	05/03/24 15:54	1
4-Nitrophenol	ND		5.4	1.0	ug/L		04/30/24 13:31	05/03/24 15:54	1
Acenaphthene	ND		0.21	0.071	ug/L		04/30/24 13:31	05/03/24 15:54	1
Acenaphthylene	ND		0.21	0.071	ug/L		04/30/24 13:31	05/03/24 15:54	1
Anthracene	ND		0.21	0.053	ug/L		04/30/24 13:31	05/03/24 15:54	1
Benzo[a]anthracene	ND		0.21	0.082	ug/L		04/30/24 13:31	05/03/24 15:54	1
Benzo[a]pyrene	ND		0.21	0.058	ug/L		04/30/24 13:31	05/03/24 15:54	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		04/30/24 13:31	05/03/24 15:54	1
Benzo[g,h,i]perylene	ND	*1	0.21	0.075	ug/L		04/30/24 13:31	05/03/24 15:54	1
Benzo[k]fluoranthene	ND		0.21	0.096	ug/L		04/30/24 13:31	05/03/24 15:54	1
Benzoic acid	ND		5.4	2.8	ug/L		04/30/24 13:31	05/03/24 15:54	1
Benzyl alcohol	ND		5.4	1.8	ug/L		04/30/24 13:31	05/03/24 15:54	1
Bis(2-chloroethoxy)methane	ND		1.1	0.17	ug/L		04/30/24 13:31	05/03/24 15:54	1
Bis(2-chloroethyl)ether	ND		0.21	0.043	ug/L		04/30/24 13:31	05/03/24 15:54	1
Bis(2-ethylhexyl) phthalate	ND		11	6.8	ug/L		04/30/24 13:31	05/03/24 15:54	1
bis(chloroisopropyl) ether	ND		0.21	0.063	ug/L		04/30/24 13:31	05/03/24 15:54	1
Butyl benzyl phthalate	ND		2.2	1.0	ug/L		04/30/24 13:31	05/03/24 15:54	1
Chrysene	ND		0.21	0.088	ug/L		04/30/24 13:31	05/03/24 15:54	1
Dibenz(a,h)anthracene	ND		0.21	0.078	ug/L		04/30/24 13:31	05/03/24 15:54	1
Dibenzofuran	ND		1.1	0.21	ug/L		04/30/24 13:31	05/03/24 15:54	1
Diethyl phthalate	ND		1.1	0.62	ug/L		04/30/24 13:31	05/03/24 15:54	1
Dimethyl phthalate	1.0	J	2.2	0.22	ug/L		04/30/24 13:31	05/03/24 15:54	1

Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-06A-042424

Lab Sample ID: 180-172990-5

Date Collected: 04/24/24 14:38

Matrix: Water

Date Received: 04/25/24 09:15

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		11	5.3	ug/L		04/30/24 13:31	05/03/24 15:54	1
Di-n-octyl phthalate	ND		1.1	0.74	ug/L		04/30/24 13:31	05/03/24 15:54	1
Fluoranthene	ND		0.21	0.065	ug/L		04/30/24 13:31	05/03/24 15:54	1
Fluorene	ND		0.21	0.075	ug/L		04/30/24 13:31	05/03/24 15:54	1
Hexachlorobenzene	ND		0.21	0.061	ug/L		04/30/24 13:31	05/03/24 15:54	1
Hexachlorobutadiene	ND		0.21	0.075	ug/L		04/30/24 13:31	05/03/24 15:54	1
Hexachlorocyclopentadiene	ND		1.1	0.54	ug/L		04/30/24 13:31	05/03/24 15:54	1
Hexachloroethane	ND		1.1	0.14	ug/L		04/30/24 13:31	05/03/24 15:54	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.092	ug/L		04/30/24 13:31	05/03/24 15:54	1
Isophorone	ND		1.1	0.20	ug/L		04/30/24 13:31	05/03/24 15:54	1
Methylphenol, 3 & 4	ND		1.1	0.40	ug/L		04/30/24 13:31	05/03/24 15:54	1
Nitrobenzene	ND		2.2	0.54	ug/L		04/30/24 13:31	05/03/24 15:54	1
N-Nitrosodi-n-propylamine	ND		0.21	0.077	ug/L		04/30/24 13:31	05/03/24 15:54	1
N-Nitrosodiphenylamine	ND		1.1	0.13	ug/L		04/30/24 13:31	05/03/24 15:54	1
Pentachlorophenol	ND		1.1	0.92	ug/L		04/30/24 13:31	05/03/24 15:54	1
Phenanthrene	ND		0.21	0.17	ug/L		04/30/24 13:31	05/03/24 15:54	1
Phenol	ND		1.1	0.53	ug/L		04/30/24 13:31	05/03/24 15:54	1
Pyrene	ND		0.21	0.059	ug/L		04/30/24 13:31	05/03/24 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		23 - 128				04/30/24 13:31	05/03/24 15:54	1
2-Fluorobiphenyl	64		20 - 105				04/30/24 13:31	05/03/24 15:54	1
2-Fluorophenol (Surr)	64		20 - 105				04/30/24 13:31	05/03/24 15:54	1
Nitrobenzene-d5 (Surr)	65		20 - 107				04/30/24 13:31	05/03/24 15:54	1
Phenol-d5 (Surr)	68		20 - 106				04/30/24 13:31	05/03/24 15:54	1
Terphenyl-d14 (Surr)	64		22 - 120				04/30/24 13:31	05/03/24 15:54	1

Client Sample ID: SUPE-W-30A-042424

Lab Sample ID: 180-172990-6

Date Collected: 04/24/24 12:33

Matrix: Water

Date Received: 04/25/24 09:15

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			04/29/24 16:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/29/24 16:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/29/24 16:41	1
Benzene	ND		1.0	0.41	ug/L			04/29/24 16:41	1
Chloromethane	ND		1.0	0.35	ug/L			04/29/24 16:41	1
Ethylbenzene	0.84	J	1.0	0.74	ug/L			04/29/24 16:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/29/24 16:41	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/29/24 16:41	1
Naphthalene	0.48	J	1.0	0.43	ug/L			04/29/24 16:41	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/29/24 16:41	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/29/24 16:41	1
o-Xylene	ND		1.0	0.76	ug/L			04/29/24 16:41	1
Styrene	ND		1.0	0.73	ug/L			04/29/24 16:41	1
Toluene	ND		1.0	0.51	ug/L			04/29/24 16:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/29/24 16:41	1

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Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-30A-042424

Lab Sample ID: 180-172990-6

Date Collected: 04/24/24 12:33

Matrix: Water

Date Received: 04/25/24 09:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		04/29/24 16:41	1
4-Bromofluorobenzene (Surr)	100		73 - 120		04/29/24 16:41	1
Dibromofluoromethane (Surr)	115		75 - 123		04/29/24 16:41	1
Toluene-d8 (Surr)	93		80 - 120		04/29/24 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L		04/30/24 13:31	05/03/24 16:17	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 16:17	1
1,3-Dichlorobenzene	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 16:17	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L		04/30/24 13:31	05/03/24 16:17	1
1-Methylnaphthalene	ND		0.20	0.058	ug/L		04/30/24 13:31	05/03/24 16:17	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.34	ug/L		04/30/24 13:31	05/03/24 16:17	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.53	ug/L		04/30/24 13:31	05/03/24 16:17	1
2,4,5-Trichlorophenol	ND		1.0	0.26	ug/L		04/30/24 13:31	05/03/24 16:17	1
2,4,6-Trichlorophenol	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 16:17	1
2,4-Dichlorophenol	ND		0.20	0.053	ug/L		04/30/24 13:31	05/03/24 16:17	1
2,4-Dimethylphenol	ND		1.0	0.61	ug/L		04/30/24 13:31	05/03/24 16:17	1
2,4-Dinitrophenol	ND		10	3.4	ug/L		04/30/24 13:31	05/03/24 16:17	1
2,4-Dinitrotoluene	ND		1.0	0.37	ug/L		04/30/24 13:31	05/03/24 16:17	1
2,6-Dinitrotoluene	ND		1.0	0.18	ug/L		04/30/24 13:31	05/03/24 16:17	1
2-Chloronaphthalene	ND		0.20	0.061	ug/L		04/30/24 13:31	05/03/24 16:17	1
2-Chlorophenol	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 16:17	1
2-Methylnaphthalene	ND		0.20	0.065	ug/L		04/30/24 13:31	05/03/24 16:17	1
2-Methylphenol	ND		1.0	0.58	ug/L		04/30/24 13:31	05/03/24 16:17	1
2-Nitroaniline	ND		5.2	0.57	ug/L		04/30/24 13:31	05/03/24 16:17	1
2-Nitrophenol	ND		1.0	0.20	ug/L		04/30/24 13:31	05/03/24 16:17	1
3,3'-Dichlorobenzidine	ND		1.0	0.61	ug/L		04/30/24 13:31	05/03/24 16:17	1
3-Nitroaniline	ND		5.2	0.46	ug/L		04/30/24 13:31	05/03/24 16:17	1
4,6-Dinitro-2-methylphenol	ND		5.2	1.5	ug/L		04/30/24 13:31	05/03/24 16:17	1
4-Bromophenyl phenyl ether	ND		1.0	0.33	ug/L		04/30/24 13:31	05/03/24 16:17	1
4-Chloro-3-methylphenol	ND		1.0	0.45	ug/L		04/30/24 13:31	05/03/24 16:17	1
4-Chloroaniline	ND		1.0	0.39	ug/L		04/30/24 13:31	05/03/24 16:17	1
4-Chlorophenyl phenyl ether	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 16:17	1
4-Nitroaniline	ND		5.2	0.38	ug/L		04/30/24 13:31	05/03/24 16:17	1
4-Nitrophenol	ND		5.2	0.98	ug/L		04/30/24 13:31	05/03/24 16:17	1
Acenaphthene	0.58		0.20	0.068	ug/L		04/30/24 13:31	05/03/24 16:17	1
Acenaphthylene	ND		0.20	0.068	ug/L		04/30/24 13:31	05/03/24 16:17	1
Anthracene	0.33		0.20	0.051	ug/L		04/30/24 13:31	05/03/24 16:17	1
Benzo[a]anthracene	ND		0.20	0.078	ug/L		04/30/24 13:31	05/03/24 16:17	1
Benzo[a]pyrene	ND		0.20	0.055	ug/L		04/30/24 13:31	05/03/24 16:17	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		04/30/24 13:31	05/03/24 16:17	1
Benzo[g,h,i]perylene	ND	*1	0.20	0.072	ug/L		04/30/24 13:31	05/03/24 16:17	1
Benzo[k]fluoranthene	ND		0.20	0.092	ug/L		04/30/24 13:31	05/03/24 16:17	1
Benzoic acid	ND		5.2	2.6	ug/L		04/30/24 13:31	05/03/24 16:17	1
Benzyl alcohol	ND		5.2	1.7	ug/L		04/30/24 13:31	05/03/24 16:17	1
Bis(2-chloroethoxy)methane	ND		1.0	0.16	ug/L		04/30/24 13:31	05/03/24 16:17	1
Bis(2-chloroethyl)ether	ND		0.20	0.042	ug/L		04/30/24 13:31	05/03/24 16:17	1
Bis(2-ethylhexyl) phthalate	ND		10	6.5	ug/L		04/30/24 13:31	05/03/24 16:17	1
bis(chloroisopropyl) ether	ND		0.20	0.060	ug/L		04/30/24 13:31	05/03/24 16:17	1

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Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-30A-042424

Lab Sample ID: 180-172990-6

Date Collected: 04/24/24 12:33

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		2.1	0.98	ug/L		04/30/24 13:31	05/03/24 16:17	1
Chrysene	ND		0.20	0.084	ug/L		04/30/24 13:31	05/03/24 16:17	1
Dibenz(a,h)anthracene	ND		0.20	0.075	ug/L		04/30/24 13:31	05/03/24 16:17	1
Dibenzofuran	ND		1.0	0.20	ug/L		04/30/24 13:31	05/03/24 16:17	1
Diethyl phthalate	ND		1.0	0.59	ug/L		04/30/24 13:31	05/03/24 16:17	1
Dimethyl phthalate	2.5		2.1	0.21	ug/L		04/30/24 13:31	05/03/24 16:17	1
Di-n-butyl phthalate	ND		10	5.1	ug/L		04/30/24 13:31	05/03/24 16:17	1
Di-n-octyl phthalate	ND		1.0	0.71	ug/L		04/30/24 13:31	05/03/24 16:17	1
Fluoranthene	ND		0.20	0.063	ug/L		04/30/24 13:31	05/03/24 16:17	1
Fluorene	0.099	J	0.20	0.072	ug/L		04/30/24 13:31	05/03/24 16:17	1
Hexachlorobenzene	ND		0.20	0.058	ug/L		04/30/24 13:31	05/03/24 16:17	1
Hexachlorobutadiene	ND		0.20	0.072	ug/L		04/30/24 13:31	05/03/24 16:17	1
Hexachlorocyclopentadiene	ND		1.0	0.52	ug/L		04/30/24 13:31	05/03/24 16:17	1
Hexachloroethane	ND		1.0	0.14	ug/L		04/30/24 13:31	05/03/24 16:17	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.089	ug/L		04/30/24 13:31	05/03/24 16:17	1
Isophorone	ND		1.0	0.20	ug/L		04/30/24 13:31	05/03/24 16:17	1
Methylphenol, 3 & 4	ND		1.0	0.39	ug/L		04/30/24 13:31	05/03/24 16:17	1
Nitrobenzene	ND		2.1	0.52	ug/L		04/30/24 13:31	05/03/24 16:17	1
N-Nitrosodi-n-propylamine	ND		0.20	0.074	ug/L		04/30/24 13:31	05/03/24 16:17	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		04/30/24 13:31	05/03/24 16:17	1
Pentachlorophenol	ND		1.0	0.88	ug/L		04/30/24 13:31	05/03/24 16:17	1
Phenanthrene	ND		0.20	0.16	ug/L		04/30/24 13:31	05/03/24 16:17	1
Phenol	ND		1.0	0.51	ug/L		04/30/24 13:31	05/03/24 16:17	1
Pyrene	ND		0.20	0.056	ug/L		04/30/24 13:31	05/03/24 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		23 - 128				04/30/24 13:31	05/03/24 16:17	1
2-Fluorobiphenyl	66		20 - 105				04/30/24 13:31	05/03/24 16:17	1
2-Fluorophenol (Surr)	58		20 - 105				04/30/24 13:31	05/03/24 16:17	1
Nitrobenzene-d5 (Surr)	65		20 - 107				04/30/24 13:31	05/03/24 16:17	1
Phenol-d5 (Surr)	67		20 - 106				04/30/24 13:31	05/03/24 16:17	1
Terphenyl-d14 (Surr)	62		22 - 120				04/30/24 13:31	05/03/24 16:17	1

Client Sample ID: SUPE-W-12CR-042424

Lab Sample ID: 180-172990-7

Date Collected: 04/24/24 10:33

Matrix: Water

Date Received: 04/25/24 09:15

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			04/29/24 17:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/29/24 17:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/29/24 17:04	1
Benzene	ND		1.0	0.41	ug/L			04/29/24 17:04	1
Chloromethane	ND		1.0	0.35	ug/L			04/29/24 17:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/29/24 17:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/29/24 17:04	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/29/24 17:04	1
Naphthalene	ND		1.0	0.43	ug/L			04/29/24 17:04	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/29/24 17:04	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/29/24 17:04	1

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Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-12CR-042424

Lab Sample ID: 180-172990-7

Date Collected: 04/24/24 10:33

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0	0.76	ug/L			04/29/24 17:04	1
Styrene	ND		1.0	0.73	ug/L			04/29/24 17:04	1
Toluene	ND		1.0	0.51	ug/L			04/29/24 17:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/29/24 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					04/29/24 17:04	1
4-Bromofluorobenzene (Surr)	100		73 - 120					04/29/24 17:04	1
Dibromofluoromethane (Surr)	103		75 - 123					04/29/24 17:04	1
Toluene-d8 (Surr)	92		80 - 120					04/29/24 17:04	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		1.0	0.24	ug/L		04/30/24 13:31	05/03/24 16:40	1
1,2-Dichlorobenzene	ND		1.0	0.21	ug/L		04/30/24 13:31	05/03/24 16:40	1
1,3-Dichlorobenzene	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 16:40	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L		04/30/24 13:31	05/03/24 16:40	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		04/30/24 13:31	05/03/24 16:40	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		04/30/24 13:31	05/03/24 16:40	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		04/30/24 13:31	05/03/24 16:40	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		04/30/24 13:31	05/03/24 16:40	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 16:40	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		04/30/24 13:31	05/03/24 16:40	1
2,4-Dimethylphenol	ND		1.0	0.59	ug/L		04/30/24 13:31	05/03/24 16:40	1
2,4-Dinitrophenol	ND		10	3.3	ug/L		04/30/24 13:31	05/03/24 16:40	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		04/30/24 13:31	05/03/24 16:40	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		04/30/24 13:31	05/03/24 16:40	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		04/30/24 13:31	05/03/24 16:40	1
2-Chlorophenol	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 16:40	1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		04/30/24 13:31	05/03/24 16:40	1
2-Methylphenol	ND		1.0	0.56	ug/L		04/30/24 13:31	05/03/24 16:40	1
2-Nitroaniline	ND		5.0	0.55	ug/L		04/30/24 13:31	05/03/24 16:40	1
2-Nitrophenol	ND		1.0	0.19	ug/L		04/30/24 13:31	05/03/24 16:40	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		04/30/24 13:31	05/03/24 16:40	1
3-Nitroaniline	ND		5.0	0.44	ug/L		04/30/24 13:31	05/03/24 16:40	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		04/30/24 13:31	05/03/24 16:40	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		04/30/24 13:31	05/03/24 16:40	1
4-Chloro-3-methylphenol	ND		1.0	0.44	ug/L		04/30/24 13:31	05/03/24 16:40	1
4-Chloroaniline	ND		1.0	0.38	ug/L		04/30/24 13:31	05/03/24 16:40	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 16:40	1
4-Nitroaniline	ND		5.0	0.36	ug/L		04/30/24 13:31	05/03/24 16:40	1
4-Nitrophenol	ND		5.0	0.94	ug/L		04/30/24 13:31	05/03/24 16:40	1
Acenaphthene	ND		0.19	0.065	ug/L		04/30/24 13:31	05/03/24 16:40	1
Acenaphthylene	ND		0.19	0.065	ug/L		04/30/24 13:31	05/03/24 16:40	1
Anthracene	ND		0.19	0.049	ug/L		04/30/24 13:31	05/03/24 16:40	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		04/30/24 13:31	05/03/24 16:40	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		04/30/24 13:31	05/03/24 16:40	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		04/30/24 13:31	05/03/24 16:40	1
Benzo[g,h,i]perylene	ND	*1	0.19	0.069	ug/L		04/30/24 13:31	05/03/24 16:40	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		04/30/24 13:31	05/03/24 16:40	1

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Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-12CR-042424

Lab Sample ID: 180-172990-7

Date Collected: 04/24/24 10:33

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzoic acid	ND		5.0	2.5	ug/L		04/30/24 13:31	05/03/24 16:40	1
Benzyl alcohol	ND		5.0	1.7	ug/L		04/30/24 13:31	05/03/24 16:40	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		04/30/24 13:31	05/03/24 16:40	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		04/30/24 13:31	05/03/24 16:40	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		04/30/24 13:31	05/03/24 16:40	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		04/30/24 13:31	05/03/24 16:40	1
Butyl benzyl phthalate	ND		2.0	0.94	ug/L		04/30/24 13:31	05/03/24 16:40	1
Chrysene	ND		0.19	0.081	ug/L		04/30/24 13:31	05/03/24 16:40	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		04/30/24 13:31	05/03/24 16:40	1
Dibenzofuran	ND		1.0	0.19	ug/L		04/30/24 13:31	05/03/24 16:40	1
Diethyl phthalate	ND		1.0	0.57	ug/L		04/30/24 13:31	05/03/24 16:40	1
Dimethyl phthalate	ND		2.0	0.20	ug/L		04/30/24 13:31	05/03/24 16:40	1
Di-n-butyl phthalate	ND		10	4.9	ug/L		04/30/24 13:31	05/03/24 16:40	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		04/30/24 13:31	05/03/24 16:40	1
Fluoranthene	ND		0.19	0.060	ug/L		04/30/24 13:31	05/03/24 16:40	1
Fluorene	ND		0.19	0.069	ug/L		04/30/24 13:31	05/03/24 16:40	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		04/30/24 13:31	05/03/24 16:40	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		04/30/24 13:31	05/03/24 16:40	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		04/30/24 13:31	05/03/24 16:40	1
Hexachloroethane	ND		1.0	0.13	ug/L		04/30/24 13:31	05/03/24 16:40	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		04/30/24 13:31	05/03/24 16:40	1
Isophorone	ND		1.0	0.19	ug/L		04/30/24 13:31	05/03/24 16:40	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		04/30/24 13:31	05/03/24 16:40	1
Nitrobenzene	ND		2.0	0.50	ug/L		04/30/24 13:31	05/03/24 16:40	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		04/30/24 13:31	05/03/24 16:40	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		04/30/24 13:31	05/03/24 16:40	1
Pentachlorophenol	ND		1.0	0.85	ug/L		04/30/24 13:31	05/03/24 16:40	1
Phenanthrene	ND		0.19	0.16	ug/L		04/30/24 13:31	05/03/24 16:40	1
Phenol	ND		1.0	0.49	ug/L		04/30/24 13:31	05/03/24 16:40	1
Pyrene	ND		0.19	0.054	ug/L		04/30/24 13:31	05/03/24 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	34		23 - 128	04/30/24 13:31	05/03/24 16:40	1
2-Fluorobiphenyl	34		20 - 105	04/30/24 13:31	05/03/24 16:40	1
2-Fluorophenol (Surr)	33		20 - 105	04/30/24 13:31	05/03/24 16:40	1
Nitrobenzene-d5 (Surr)	35		20 - 107	04/30/24 13:31	05/03/24 16:40	1
Phenol-d5 (Surr)	35		20 - 106	04/30/24 13:31	05/03/24 16:40	1
Terphenyl-d14 (Surr)	35		22 - 120	04/30/24 13:31	05/03/24 16:40	1

Client Sample ID: SUPE-W-30C-042424

Lab Sample ID: 180-172990-8

Date Collected: 04/24/24 14:14

Matrix: Water

Date Received: 04/25/24 09:15

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			04/29/24 17:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/29/24 17:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/29/24 17:26	1
Benzene	ND		1.0	0.41	ug/L			04/29/24 17:26	1
Chloromethane	ND		1.0	0.35	ug/L			04/29/24 17:26	1

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Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-30C-042424

Lab Sample ID: 180-172990-8

Date Collected: 04/24/24 14:14

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			04/29/24 17:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/29/24 17:26	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/29/24 17:26	1
Naphthalene	ND		1.0	0.43	ug/L			04/29/24 17:26	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/29/24 17:26	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/29/24 17:26	1
o-Xylene	ND		1.0	0.76	ug/L			04/29/24 17:26	1
Styrene	ND		1.0	0.73	ug/L			04/29/24 17:26	1
Toluene	ND		1.0	0.51	ug/L			04/29/24 17:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/29/24 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120					04/29/24 17:26	1
4-Bromofluorobenzene (Surr)	96		73 - 120					04/29/24 17:26	1
Dibromofluoromethane (Surr)	111		75 - 123					04/29/24 17:26	1
Toluene-d8 (Surr)	92		80 - 120					04/29/24 17:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L		04/30/24 13:31	05/03/24 17:02	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 17:02	1
1,3-Dichlorobenzene	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 17:02	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L		04/30/24 13:31	05/03/24 17:02	1
1-Methylnaphthalene	ND		0.20	0.058	ug/L		04/30/24 13:31	05/03/24 17:02	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.34	ug/L		04/30/24 13:31	05/03/24 17:02	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.53	ug/L		04/30/24 13:31	05/03/24 17:02	1
2,4,5-Trichlorophenol	ND		1.0	0.26	ug/L		04/30/24 13:31	05/03/24 17:02	1
2,4,6-Trichlorophenol	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 17:02	1
2,4-Dichlorophenol	ND		0.20	0.053	ug/L		04/30/24 13:31	05/03/24 17:02	1
2,4-Dimethylphenol	ND		1.0	0.61	ug/L		04/30/24 13:31	05/03/24 17:02	1
2,4-Dinitrophenol	ND		10	3.4	ug/L		04/30/24 13:31	05/03/24 17:02	1
2,4-Dinitrotoluene	ND		1.0	0.37	ug/L		04/30/24 13:31	05/03/24 17:02	1
2,6-Dinitrotoluene	ND		1.0	0.18	ug/L		04/30/24 13:31	05/03/24 17:02	1
2-Chloronaphthalene	ND		0.20	0.061	ug/L		04/30/24 13:31	05/03/24 17:02	1
2-Chlorophenol	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 17:02	1
2-Methylnaphthalene	ND		0.20	0.065	ug/L		04/30/24 13:31	05/03/24 17:02	1
2-Methylphenol	ND		1.0	0.58	ug/L		04/30/24 13:31	05/03/24 17:02	1
2-Nitroaniline	ND		5.2	0.57	ug/L		04/30/24 13:31	05/03/24 17:02	1
2-Nitrophenol	ND		1.0	0.20	ug/L		04/30/24 13:31	05/03/24 17:02	1
3,3'-Dichlorobenzidine	ND		1.0	0.61	ug/L		04/30/24 13:31	05/03/24 17:02	1
3-Nitroaniline	ND		5.2	0.46	ug/L		04/30/24 13:31	05/03/24 17:02	1
4,6-Dinitro-2-methylphenol	ND		5.2	1.5	ug/L		04/30/24 13:31	05/03/24 17:02	1
4-Bromophenyl phenyl ether	ND		1.0	0.33	ug/L		04/30/24 13:31	05/03/24 17:02	1
4-Chloro-3-methylphenol	ND		1.0	0.45	ug/L		04/30/24 13:31	05/03/24 17:02	1
4-Chloroaniline	ND		1.0	0.39	ug/L		04/30/24 13:31	05/03/24 17:02	1
4-Chlorophenyl phenyl ether	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 17:02	1
4-Nitroaniline	ND		5.2	0.38	ug/L		04/30/24 13:31	05/03/24 17:02	1
4-Nitrophenol	ND		5.2	0.98	ug/L		04/30/24 13:31	05/03/24 17:02	1
Acenaphthene	ND		0.20	0.068	ug/L		04/30/24 13:31	05/03/24 17:02	1
Acenaphthylene	ND		0.20	0.068	ug/L		04/30/24 13:31	05/03/24 17:02	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-30C-042424

Lab Sample ID: 180-172990-8

Date Collected: 04/24/24 14:14

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.075	J	0.20	0.051	ug/L		04/30/24 13:31	05/03/24 17:02	1
Benzo[a]anthracene	ND		0.20	0.078	ug/L		04/30/24 13:31	05/03/24 17:02	1
Benzo[a]pyrene	ND		0.20	0.055	ug/L		04/30/24 13:31	05/03/24 17:02	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		04/30/24 13:31	05/03/24 17:02	1
Benzo[g,h,i]perylene	ND	*1	0.20	0.072	ug/L		04/30/24 13:31	05/03/24 17:02	1
Benzo[k]fluoranthene	ND		0.20	0.092	ug/L		04/30/24 13:31	05/03/24 17:02	1
Benzoic acid	ND		5.2	2.6	ug/L		04/30/24 13:31	05/03/24 17:02	1
Benzyl alcohol	ND		5.2	1.7	ug/L		04/30/24 13:31	05/03/24 17:02	1
Bis(2-chloroethoxy)methane	ND		1.0	0.16	ug/L		04/30/24 13:31	05/03/24 17:02	1
Bis(2-chloroethyl)ether	ND		0.20	0.042	ug/L		04/30/24 13:31	05/03/24 17:02	1
Bis(2-ethylhexyl) phthalate	ND		10	6.5	ug/L		04/30/24 13:31	05/03/24 17:02	1
bis(chloroisopropyl) ether	ND		0.20	0.060	ug/L		04/30/24 13:31	05/03/24 17:02	1
Butyl benzyl phthalate	ND		2.1	0.98	ug/L		04/30/24 13:31	05/03/24 17:02	1
Chrysene	ND		0.20	0.084	ug/L		04/30/24 13:31	05/03/24 17:02	1
Dibenz(a,h)anthracene	ND		0.20	0.075	ug/L		04/30/24 13:31	05/03/24 17:02	1
Dibenzofuran	ND		1.0	0.20	ug/L		04/30/24 13:31	05/03/24 17:02	1
Diethyl phthalate	ND		1.0	0.59	ug/L		04/30/24 13:31	05/03/24 17:02	1
Dimethyl phthalate	ND		2.1	0.21	ug/L		04/30/24 13:31	05/03/24 17:02	1
Di-n-butyl phthalate	ND		10	5.1	ug/L		04/30/24 13:31	05/03/24 17:02	1
Di-n-octyl phthalate	ND		1.0	0.71	ug/L		04/30/24 13:31	05/03/24 17:02	1
Fluoranthene	ND		0.20	0.063	ug/L		04/30/24 13:31	05/03/24 17:02	1
Fluorene	ND		0.20	0.072	ug/L		04/30/24 13:31	05/03/24 17:02	1
Hexachlorobenzene	ND		0.20	0.058	ug/L		04/30/24 13:31	05/03/24 17:02	1
Hexachlorobutadiene	ND		0.20	0.072	ug/L		04/30/24 13:31	05/03/24 17:02	1
Hexachlorocyclopentadiene	ND		1.0	0.52	ug/L		04/30/24 13:31	05/03/24 17:02	1
Hexachloroethane	ND		1.0	0.14	ug/L		04/30/24 13:31	05/03/24 17:02	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.089	ug/L		04/30/24 13:31	05/03/24 17:02	1
Isophorone	ND		1.0	0.20	ug/L		04/30/24 13:31	05/03/24 17:02	1
Methylphenol, 3 & 4	ND		1.0	0.39	ug/L		04/30/24 13:31	05/03/24 17:02	1
Nitrobenzene	ND		2.1	0.52	ug/L		04/30/24 13:31	05/03/24 17:02	1
N-Nitrosodi-n-propylamine	ND		0.20	0.074	ug/L		04/30/24 13:31	05/03/24 17:02	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		04/30/24 13:31	05/03/24 17:02	1
Pentachlorophenol	ND		1.0	0.88	ug/L		04/30/24 13:31	05/03/24 17:02	1
Phenanthrene	ND		0.20	0.16	ug/L		04/30/24 13:31	05/03/24 17:02	1
Phenol	ND		1.0	0.51	ug/L		04/30/24 13:31	05/03/24 17:02	1
Pyrene	ND		0.20	0.056	ug/L		04/30/24 13:31	05/03/24 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		23 - 128				04/30/24 13:31	05/03/24 17:02	1
2-Fluorobiphenyl	66		20 - 105				04/30/24 13:31	05/03/24 17:02	1
2-Fluorophenol (Surr)	65		20 - 105				04/30/24 13:31	05/03/24 17:02	1
Nitrobenzene-d5 (Surr)	69		20 - 107				04/30/24 13:31	05/03/24 17:02	1
Phenol-d5 (Surr)	71		20 - 106				04/30/24 13:31	05/03/24 17:02	1
Terphenyl-d14 (Surr)	59		22 - 120				04/30/24 13:31	05/03/24 17:02	1

Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-M-99A-042424

Lab Sample ID: 180-172990-9

Date Collected: 04/24/24 16:00

Matrix: Water

Date Received: 04/25/24 09:15

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			04/29/24 17:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/29/24 17:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/29/24 17:49	1
Benzene	ND		1.0	0.41	ug/L			04/29/24 17:49	1
Chloromethane	ND		1.0	0.35	ug/L			04/29/24 17:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/29/24 17:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/29/24 17:49	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/29/24 17:49	1
Naphthalene	ND		1.0	0.43	ug/L			04/29/24 17:49	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/29/24 17:49	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/29/24 17:49	1
o-Xylene	ND		1.0	0.76	ug/L			04/29/24 17:49	1
Styrene	ND		1.0	0.73	ug/L			04/29/24 17:49	1
Toluene	ND		1.0	0.51	ug/L			04/29/24 17:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/29/24 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		04/29/24 17:49	1
4-Bromofluorobenzene (Surr)	97		73 - 120		04/29/24 17:49	1
Dibromofluoromethane (Surr)	109		75 - 123		04/29/24 17:49	1
Toluene-d8 (Surr)	93		80 - 120		04/29/24 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.24	ug/L		04/30/24 13:31	05/03/24 17:25	1
1,2-Dichlorobenzene	ND		1.0	0.21	ug/L		04/30/24 13:31	05/03/24 17:25	1
1,3-Dichlorobenzene	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 17:25	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L		04/30/24 13:31	05/03/24 17:25	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		04/30/24 13:31	05/03/24 17:25	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		04/30/24 13:31	05/03/24 17:25	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		04/30/24 13:31	05/03/24 17:25	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		04/30/24 13:31	05/03/24 17:25	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 17:25	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		04/30/24 13:31	05/03/24 17:25	1
2,4-Dimethylphenol	ND		1.0	0.59	ug/L		04/30/24 13:31	05/03/24 17:25	1
2,4-Dinitrophenol	ND		10	3.3	ug/L		04/30/24 13:31	05/03/24 17:25	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		04/30/24 13:31	05/03/24 17:25	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		04/30/24 13:31	05/03/24 17:25	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		04/30/24 13:31	05/03/24 17:25	1
2-Chlorophenol	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 17:25	1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		04/30/24 13:31	05/03/24 17:25	1
2-Methylphenol	ND		1.0	0.56	ug/L		04/30/24 13:31	05/03/24 17:25	1
2-Nitroaniline	ND		5.0	0.55	ug/L		04/30/24 13:31	05/03/24 17:25	1
2-Nitrophenol	ND		1.0	0.19	ug/L		04/30/24 13:31	05/03/24 17:25	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		04/30/24 13:31	05/03/24 17:25	1
3-Nitroaniline	ND		5.0	0.44	ug/L		04/30/24 13:31	05/03/24 17:25	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		04/30/24 13:31	05/03/24 17:25	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		04/30/24 13:31	05/03/24 17:25	1
4-Chloro-3-methylphenol	ND		1.0	0.44	ug/L		04/30/24 13:31	05/03/24 17:25	1
4-Chloroaniline	ND		1.0	0.38	ug/L		04/30/24 13:31	05/03/24 17:25	1

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Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-M-99A-042424

Lab Sample ID: 180-172990-9

Date Collected: 04/24/24 16:00

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 17:25	1
4-Nitroaniline	ND		5.0	0.36	ug/L		04/30/24 13:31	05/03/24 17:25	1
4-Nitrophenol	ND		5.0	0.94	ug/L		04/30/24 13:31	05/03/24 17:25	1
Acenaphthene	ND		0.19	0.065	ug/L		04/30/24 13:31	05/03/24 17:25	1
Acenaphthylene	ND		0.19	0.065	ug/L		04/30/24 13:31	05/03/24 17:25	1
Anthracene	0.22		0.19	0.049	ug/L		04/30/24 13:31	05/03/24 17:25	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		04/30/24 13:31	05/03/24 17:25	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		04/30/24 13:31	05/03/24 17:25	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		04/30/24 13:31	05/03/24 17:25	1
Benzo[g,h,i]perylene	ND	*1	0.19	0.069	ug/L		04/30/24 13:31	05/03/24 17:25	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		04/30/24 13:31	05/03/24 17:25	1
Benzoic acid	ND		5.0	2.5	ug/L		04/30/24 13:31	05/03/24 17:25	1
Benzyl alcohol	ND		5.0	1.7	ug/L		04/30/24 13:31	05/03/24 17:25	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		04/30/24 13:31	05/03/24 17:25	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		04/30/24 13:31	05/03/24 17:25	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		04/30/24 13:31	05/03/24 17:25	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		04/30/24 13:31	05/03/24 17:25	1
Butyl benzyl phthalate	ND		2.0	0.94	ug/L		04/30/24 13:31	05/03/24 17:25	1
Chrysene	ND		0.19	0.081	ug/L		04/30/24 13:31	05/03/24 17:25	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		04/30/24 13:31	05/03/24 17:25	1
Dibenzofuran	ND		1.0	0.19	ug/L		04/30/24 13:31	05/03/24 17:25	1
Diethyl phthalate	ND		1.0	0.57	ug/L		04/30/24 13:31	05/03/24 17:25	1
Dimethyl phthalate	ND		2.0	0.20	ug/L		04/30/24 13:31	05/03/24 17:25	1
Di-n-butyl phthalate	ND		10	4.9	ug/L		04/30/24 13:31	05/03/24 17:25	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		04/30/24 13:31	05/03/24 17:25	1
Fluoranthene	0.064	J	0.19	0.060	ug/L		04/30/24 13:31	05/03/24 17:25	1
Fluorene	ND		0.19	0.069	ug/L		04/30/24 13:31	05/03/24 17:25	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		04/30/24 13:31	05/03/24 17:25	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		04/30/24 13:31	05/03/24 17:25	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		04/30/24 13:31	05/03/24 17:25	1
Hexachloroethane	ND		1.0	0.13	ug/L		04/30/24 13:31	05/03/24 17:25	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		04/30/24 13:31	05/03/24 17:25	1
Isophorone	ND		1.0	0.19	ug/L		04/30/24 13:31	05/03/24 17:25	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		04/30/24 13:31	05/03/24 17:25	1
Nitrobenzene	ND		2.0	0.50	ug/L		04/30/24 13:31	05/03/24 17:25	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		04/30/24 13:31	05/03/24 17:25	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		04/30/24 13:31	05/03/24 17:25	1
Pentachlorophenol	ND		1.0	0.85	ug/L		04/30/24 13:31	05/03/24 17:25	1
Phenanthrene	ND		0.19	0.16	ug/L		04/30/24 13:31	05/03/24 17:25	1
Phenol	ND		1.0	0.49	ug/L		04/30/24 13:31	05/03/24 17:25	1
Pyrene	ND		0.19	0.054	ug/L		04/30/24 13:31	05/03/24 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		23 - 128	04/30/24 13:31	05/03/24 17:25	1
2-Fluorobiphenyl	55		20 - 105	04/30/24 13:31	05/03/24 17:25	1
2-Fluorophenol (Surr)	53		20 - 105	04/30/24 13:31	05/03/24 17:25	1
Nitrobenzene-d5 (Surr)	56		20 - 107	04/30/24 13:31	05/03/24 17:25	1
Phenol-d5 (Surr)	59		20 - 106	04/30/24 13:31	05/03/24 17:25	1
Terphenyl-d14 (Surr)	37		22 - 120	04/30/24 13:31	05/03/24 17:25	1

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Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-18D-042424

Lab Sample ID: 180-172990-10

Date Collected: 04/24/24 13:30

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L		04/30/24 13:31	05/03/24 17:48	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 17:48	1
1,3-Dichlorobenzene	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 17:48	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L		04/30/24 13:31	05/03/24 17:48	1
1-Methylnaphthalene	ND		0.20	0.058	ug/L		04/30/24 13:31	05/03/24 17:48	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.34	ug/L		04/30/24 13:31	05/03/24 17:48	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.53	ug/L		04/30/24 13:31	05/03/24 17:48	1
2,4,5-Trichlorophenol	ND		1.0	0.26	ug/L		04/30/24 13:31	05/03/24 17:48	1
2,4,6-Trichlorophenol	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 17:48	1
2,4-Dichlorophenol	ND		0.20	0.053	ug/L		04/30/24 13:31	05/03/24 17:48	1
2,4-Dimethylphenol	ND		1.0	0.61	ug/L		04/30/24 13:31	05/03/24 17:48	1
2,4-Dinitrophenol	ND		10	3.4	ug/L		04/30/24 13:31	05/03/24 17:48	1
2,4-Dinitrotoluene	ND		1.0	0.37	ug/L		04/30/24 13:31	05/03/24 17:48	1
2,6-Dinitrotoluene	ND		1.0	0.18	ug/L		04/30/24 13:31	05/03/24 17:48	1
2-Chloronaphthalene	ND		0.20	0.061	ug/L		04/30/24 13:31	05/03/24 17:48	1
2-Chlorophenol	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 17:48	1
2-Methylnaphthalene	ND		0.20	0.065	ug/L		04/30/24 13:31	05/03/24 17:48	1
2-Methylphenol	ND		1.0	0.58	ug/L		04/30/24 13:31	05/03/24 17:48	1
2-Nitroaniline	ND		5.2	0.57	ug/L		04/30/24 13:31	05/03/24 17:48	1
2-Nitrophenol	ND		1.0	0.20	ug/L		04/30/24 13:31	05/03/24 17:48	1
3,3'-Dichlorobenzidine	ND		1.0	0.61	ug/L		04/30/24 13:31	05/03/24 17:48	1
3-Nitroaniline	ND		5.2	0.46	ug/L		04/30/24 13:31	05/03/24 17:48	1
4,6-Dinitro-2-methylphenol	ND		5.2	1.5	ug/L		04/30/24 13:31	05/03/24 17:48	1
4-Bromophenyl phenyl ether	ND		1.0	0.33	ug/L		04/30/24 13:31	05/03/24 17:48	1
4-Chloro-3-methylphenol	ND		1.0	0.45	ug/L		04/30/24 13:31	05/03/24 17:48	1
4-Chloroaniline	ND		1.0	0.39	ug/L		04/30/24 13:31	05/03/24 17:48	1
4-Chlorophenyl phenyl ether	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 17:48	1
4-Nitroaniline	ND		5.2	0.38	ug/L		04/30/24 13:31	05/03/24 17:48	1
4-Nitrophenol	ND		5.2	0.98	ug/L		04/30/24 13:31	05/03/24 17:48	1
Acenaphthene	ND		0.20	0.068	ug/L		04/30/24 13:31	05/03/24 17:48	1
Acenaphthylene	ND		0.20	0.068	ug/L		04/30/24 13:31	05/03/24 17:48	1
Anthracene	ND		0.20	0.051	ug/L		04/30/24 13:31	05/03/24 17:48	1
Benzo[a]anthracene	ND		0.20	0.078	ug/L		04/30/24 13:31	05/03/24 17:48	1
Benzo[a]pyrene	ND		0.20	0.055	ug/L		04/30/24 13:31	05/03/24 17:48	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		04/30/24 13:31	05/03/24 17:48	1
Benzo[g,h,i]perylene	ND	*1	0.20	0.072	ug/L		04/30/24 13:31	05/03/24 17:48	1
Benzo[k]fluoranthene	ND		0.20	0.092	ug/L		04/30/24 13:31	05/03/24 17:48	1
Benzoic acid	ND		5.2	2.6	ug/L		04/30/24 13:31	05/03/24 17:48	1
Benzyl alcohol	ND		5.2	1.7	ug/L		04/30/24 13:31	05/03/24 17:48	1
Bis(2-chloroethoxy)methane	ND		1.0	0.16	ug/L		04/30/24 13:31	05/03/24 17:48	1
Bis(2-chloroethyl)ether	ND		0.20	0.042	ug/L		04/30/24 13:31	05/03/24 17:48	1
Bis(2-ethylhexyl) phthalate	ND		10	6.5	ug/L		04/30/24 13:31	05/03/24 17:48	1
bis(chloroisopropyl) ether	ND		0.20	0.060	ug/L		04/30/24 13:31	05/03/24 17:48	1
Butyl benzyl phthalate	ND		2.1	0.98	ug/L		04/30/24 13:31	05/03/24 17:48	1
Chrysene	ND		0.20	0.084	ug/L		04/30/24 13:31	05/03/24 17:48	1
Dibenz(a,h)anthracene	ND		0.20	0.075	ug/L		04/30/24 13:31	05/03/24 17:48	1
Dibenzofuran	ND		1.0	0.20	ug/L		04/30/24 13:31	05/03/24 17:48	1
Diethyl phthalate	ND		1.0	0.59	ug/L		04/30/24 13:31	05/03/24 17:48	1
Dimethyl phthalate	ND		2.1	0.21	ug/L		04/30/24 13:31	05/03/24 17:48	1

Client Sample Results

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

Job ID: 180-172990-1

Client Sample ID: SUPE-W-18D-042424

Lab Sample ID: 180-172990-10

Date Collected: 04/24/24 13:30

Matrix: Water

Date Received: 04/25/24 09:15

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		10	5.1	ug/L		04/30/24 13:31	05/03/24 17:48	1
Di-n-octyl phthalate	ND		1.0	0.71	ug/L		04/30/24 13:31	05/03/24 17:48	1
Fluoranthene	ND		0.20	0.063	ug/L		04/30/24 13:31	05/03/24 17:48	1
Fluorene	ND		0.20	0.072	ug/L		04/30/24 13:31	05/03/24 17:48	1
Hexachlorobenzene	ND		0.20	0.058	ug/L		04/30/24 13:31	05/03/24 17:48	1
Hexachlorobutadiene	ND		0.20	0.072	ug/L		04/30/24 13:31	05/03/24 17:48	1
Hexachlorocyclopentadiene	ND		1.0	0.52	ug/L		04/30/24 13:31	05/03/24 17:48	1
Hexachloroethane	ND		1.0	0.14	ug/L		04/30/24 13:31	05/03/24 17:48	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.089	ug/L		04/30/24 13:31	05/03/24 17:48	1
Isophorone	ND		1.0	0.20	ug/L		04/30/24 13:31	05/03/24 17:48	1
Methylphenol, 3 & 4	ND		1.0	0.39	ug/L		04/30/24 13:31	05/03/24 17:48	1
Naphthalene	ND		0.20	0.061	ug/L		04/30/24 13:31	05/03/24 17:48	1
Nitrobenzene	ND		2.1	0.52	ug/L		04/30/24 13:31	05/03/24 17:48	1
N-Nitrosodi-n-propylamine	ND		0.20	0.074	ug/L		04/30/24 13:31	05/03/24 17:48	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		04/30/24 13:31	05/03/24 17:48	1
Pentachlorophenol	ND		1.0	0.88	ug/L		04/30/24 13:31	05/03/24 17:48	1
Phenanthrene	ND		0.20	0.16	ug/L		04/30/24 13:31	05/03/24 17:48	1
Phenol	ND		1.0	0.51	ug/L		04/30/24 13:31	05/03/24 17:48	1
Pyrene	ND		0.20	0.056	ug/L		04/30/24 13:31	05/03/24 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		23 - 128	04/30/24 13:31	05/03/24 17:48	1
2-Fluorobiphenyl	69		20 - 105	04/30/24 13:31	05/03/24 17:48	1
2-Fluorophenol (Surr)	65		20 - 105	04/30/24 13:31	05/03/24 17:48	1
Nitrobenzene-d5 (Surr)	70		20 - 107	04/30/24 13:31	05/03/24 17:48	1
Phenol-d5 (Surr)	71		20 - 106	04/30/24 13:31	05/03/24 17:48	1
Terphenyl-d14 (Surr)	66		22 - 120	04/30/24 13:31	05/03/24 17:48	1

QC Sample Results

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

Job ID: 180-172990-1

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

Lab Sample ID: MB 480-709835/8

Matrix: Water

Analysis Batch: 709835

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			04/29/24 13:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/29/24 13:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/29/24 13:04	1
Benzene	ND		1.0	0.41	ug/L			04/29/24 13:04	1
Chloromethane	ND		1.0	0.35	ug/L			04/29/24 13:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/29/24 13:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/29/24 13:04	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/29/24 13:04	1
Naphthalene	ND		1.0	0.43	ug/L			04/29/24 13:04	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/29/24 13:04	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/29/24 13:04	1
o-Xylene	ND		1.0	0.76	ug/L			04/29/24 13:04	1
Styrene	ND		1.0	0.73	ug/L			04/29/24 13:04	1
Toluene	ND		1.0	0.51	ug/L			04/29/24 13:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/29/24 13:04	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		04/29/24 13:04	1
4-Bromofluorobenzene (Surr)	103		73 - 120		04/29/24 13:04	1
Dibromofluoromethane (Surr)	110		75 - 123		04/29/24 13:04	1
Toluene-d8 (Surr)	97		80 - 120		04/29/24 13:04	1

Lab Sample ID: LCS 480-709835/31

Matrix: Water

Analysis Batch: 709835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1-Trichloroethane	25.0	26.6		ug/L		106	73 - 126
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		100	76 - 121
1,3,5-Trimethylbenzene	25.0	26.5		ug/L		106	77 - 121
Benzene	25.0	24.9		ug/L		100	71 - 124
Chloromethane	25.0	26.9		ug/L		108	68 - 124
Ethylbenzene	25.0	24.6		ug/L		99	77 - 123
Methyl tert-butyl ether	25.0	23.0		ug/L		92	77 - 120
m-Xylene & p-Xylene	25.0	24.5		ug/L		98	76 - 122
Naphthalene	25.0	21.6		ug/L		86	66 - 125
n-Butylbenzene	25.0	25.0		ug/L		100	71 - 128
N-Propylbenzene	25.0	25.2		ug/L		101	75 - 127
o-Xylene	25.0	24.1		ug/L		96	76 - 122
Styrene	25.0	24.1		ug/L		97	80 - 120
Toluene	25.0	24.4		ug/L		98	80 - 122
Xylenes, Total	50.0	48.6		ug/L		97	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123
Toluene-d8 (Surr)	93		80 - 120

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QC Sample Results

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

Job ID: 180-172990-1

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

Lab Sample ID: MB 180-466963/1-A
Matrix: Water
Analysis Batch: 467383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466963

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		1.0	0.24	ug/L		04/30/24 13:31	05/03/24 10:16	1
1,2-Dichlorobenzene	ND		1.0	0.21	ug/L		04/30/24 13:31	05/03/24 10:16	1
1,3-Dichlorobenzene	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 10:16	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L		04/30/24 13:31	05/03/24 10:16	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		04/30/24 13:31	05/03/24 10:16	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		04/30/24 13:31	05/03/24 10:16	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		04/30/24 13:31	05/03/24 10:16	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		04/30/24 13:31	05/03/24 10:16	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 10:16	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		04/30/24 13:31	05/03/24 10:16	1
2,4-Dimethylphenol	ND		1.0	0.59	ug/L		04/30/24 13:31	05/03/24 10:16	1
2,4-Dinitrophenol	ND		10	3.3	ug/L		04/30/24 13:31	05/03/24 10:16	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		04/30/24 13:31	05/03/24 10:16	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		04/30/24 13:31	05/03/24 10:16	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		04/30/24 13:31	05/03/24 10:16	1
2-Chlorophenol	ND		1.0	0.23	ug/L		04/30/24 13:31	05/03/24 10:16	1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		04/30/24 13:31	05/03/24 10:16	1
2-Methylphenol	ND		1.0	0.56	ug/L		04/30/24 13:31	05/03/24 10:16	1
2-Nitroaniline	ND		5.0	0.55	ug/L		04/30/24 13:31	05/03/24 10:16	1
2-Nitrophenol	ND		1.0	0.19	ug/L		04/30/24 13:31	05/03/24 10:16	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		04/30/24 13:31	05/03/24 10:16	1
3-Nitroaniline	ND		5.0	0.44	ug/L		04/30/24 13:31	05/03/24 10:16	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		04/30/24 13:31	05/03/24 10:16	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		04/30/24 13:31	05/03/24 10:16	1
4-Chloro-3-methylphenol	ND		1.0	0.44	ug/L		04/30/24 13:31	05/03/24 10:16	1
4-Chloroaniline	ND		1.0	0.38	ug/L		04/30/24 13:31	05/03/24 10:16	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		04/30/24 13:31	05/03/24 10:16	1
4-Nitroaniline	ND		5.0	0.36	ug/L		04/30/24 13:31	05/03/24 10:16	1
4-Nitrophenol	ND		5.0	0.94	ug/L		04/30/24 13:31	05/03/24 10:16	1
Acenaphthene	ND		0.19	0.065	ug/L		04/30/24 13:31	05/03/24 10:16	1
Acenaphthylene	ND		0.19	0.065	ug/L		04/30/24 13:31	05/03/24 10:16	1
Anthracene	ND		0.19	0.049	ug/L		04/30/24 13:31	05/03/24 10:16	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		04/30/24 13:31	05/03/24 10:16	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		04/30/24 13:31	05/03/24 10:16	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		04/30/24 13:31	05/03/24 10:16	1
Benzo[g,h,i]perylene	ND		0.19	0.069	ug/L		04/30/24 13:31	05/03/24 10:16	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		04/30/24 13:31	05/03/24 10:16	1
Benzoic acid	ND		5.0	2.5	ug/L		04/30/24 13:31	05/03/24 10:16	1
Benzyl alcohol	ND		5.0	1.7	ug/L		04/30/24 13:31	05/03/24 10:16	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		04/30/24 13:31	05/03/24 10:16	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		04/30/24 13:31	05/03/24 10:16	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		04/30/24 13:31	05/03/24 10:16	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		04/30/24 13:31	05/03/24 10:16	1
Butyl benzyl phthalate	ND		2.0	0.94	ug/L		04/30/24 13:31	05/03/24 10:16	1
Chrysene	ND		0.19	0.081	ug/L		04/30/24 13:31	05/03/24 10:16	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		04/30/24 13:31	05/03/24 10:16	1
Dibenzofuran	ND		1.0	0.19	ug/L		04/30/24 13:31	05/03/24 10:16	1
Diethyl phthalate	ND		1.0	0.57	ug/L		04/30/24 13:31	05/03/24 10:16	1

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QC Sample Results

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

Job ID: 180-172990-1

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

Lab Sample ID: MB 180-466963/1-A
Matrix: Water
Analysis Batch: 467383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466963

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dimethyl phthalate	ND		2.0	0.20	ug/L		04/30/24 13:31	05/03/24 10:16	1
Di-n-butyl phthalate	ND		10	4.9	ug/L		04/30/24 13:31	05/03/24 10:16	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		04/30/24 13:31	05/03/24 10:16	1
Fluoranthene	ND		0.19	0.060	ug/L		04/30/24 13:31	05/03/24 10:16	1
Fluorene	ND		0.19	0.069	ug/L		04/30/24 13:31	05/03/24 10:16	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		04/30/24 13:31	05/03/24 10:16	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		04/30/24 13:31	05/03/24 10:16	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		04/30/24 13:31	05/03/24 10:16	1
Hexachloroethane	ND		1.0	0.13	ug/L		04/30/24 13:31	05/03/24 10:16	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		04/30/24 13:31	05/03/24 10:16	1
Isophorone	ND		1.0	0.19	ug/L		04/30/24 13:31	05/03/24 10:16	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		04/30/24 13:31	05/03/24 10:16	1
Naphthalene	ND		0.19	0.059	ug/L		04/30/24 13:31	05/03/24 10:16	1
Nitrobenzene	ND		2.0	0.50	ug/L		04/30/24 13:31	05/03/24 10:16	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		04/30/24 13:31	05/03/24 10:16	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		04/30/24 13:31	05/03/24 10:16	1
Pentachlorophenol	ND		1.0	0.85	ug/L		04/30/24 13:31	05/03/24 10:16	1
Phenanthrene	ND		0.19	0.16	ug/L		04/30/24 13:31	05/03/24 10:16	1
Phenol	ND		1.0	0.49	ug/L		04/30/24 13:31	05/03/24 10:16	1
Pyrene	ND		0.19	0.054	ug/L		04/30/24 13:31	05/03/24 10:16	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	65		23 - 128	04/30/24 13:31	05/03/24 10:16	1
2-Fluorobiphenyl	69		20 - 105	04/30/24 13:31	05/03/24 10:16	1
2-Fluorophenol (Surr)	70		20 - 105	04/30/24 13:31	05/03/24 10:16	1
Nitrobenzene-d5 (Surr)	70		20 - 107	04/30/24 13:31	05/03/24 10:16	1
Phenol-d5 (Surr)	71		20 - 106	04/30/24 13:31	05/03/24 10:16	1
Terphenyl-d14 (Surr)	67		22 - 120	04/30/24 13:31	05/03/24 10:16	1

Lab Sample ID: LCS 180-466963/2-A
Matrix: Water
Analysis Batch: 467383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	20.0	13.8		ug/L		69	51 - 100
1,3-Dichlorobenzene	20.0	13.8		ug/L		69	51 - 100
1,4-Dichlorobenzene	20.0	14.8		ug/L		74	52 - 100
1-Methylnaphthalene	20.0	13.8		ug/L		69	53 - 100
2,3,4,6-Tetrachlorophenol	20.0	15.1		ug/L		75	50 - 100
2,4,5-Trichlorophenol	20.0	16.0		ug/L		80	55 - 100
2,4,6-Trichlorophenol	20.0	15.7		ug/L		79	54 - 100
2,4-Dichlorophenol	20.0	14.3		ug/L		71	55 - 100
2,4-Dimethylphenol	20.0	12.1		ug/L		61	51 - 100
2,4-Dinitrophenol	40.0	33.2		ug/L		83	32 - 100
2,4-Dinitrotoluene	20.0	16.3		ug/L		82	56 - 100
2,6-Dinitrotoluene	20.0	16.1		ug/L		80	56 - 101
2-Chloronaphthalene	20.0	15.0		ug/L		75	52 - 100

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QC Sample Results

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

Job ID: 180-172990-1

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

Lab Sample ID: LCS 180-466963/2-A

Matrix: Water

Analysis Batch: 467383

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466963

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2-Chlorophenol	20.0	16.0		ug/L		80	53 - 100
2-Methylnaphthalene	20.0	14.6		ug/L		73	53 - 100
2-Methylphenol	20.0	15.2		ug/L		76	51 - 100
2-Nitroaniline	20.0	17.9		ug/L		89	47 - 104
2-Nitrophenol	20.0	14.5		ug/L		73	56 - 100
3,3'-Dichlorobenzidine	20.0	14.4		ug/L		72	42 - 100
3-Nitroaniline	20.0	16.2		ug/L		81	54 - 100
4,6-Dinitro-2-methylphenol	40.0	31.4		ug/L		79	48 - 100
4-Bromophenyl phenyl ether	20.0	14.1		ug/L		70	50 - 100
4-Chloro-3-methylphenol	20.0	15.1		ug/L		76	47 - 105
4-Chloroaniline	20.0	14.1		ug/L		70	48 - 100
4-Chlorophenyl phenyl ether	20.0	14.7		ug/L		73	52 - 100
4-Nitroaniline	20.0	16.1		ug/L		80	54 - 100
4-Nitrophenol	40.0	34.4		ug/L		86	37 - 120
Acenaphthene	20.0	14.9		ug/L		74	51 - 100
Acenaphthylene	20.0	15.0		ug/L		75	54 - 100
Anthracene	20.0	14.3		ug/L		71	54 - 100
Benzo[a]anthracene	20.0	14.8		ug/L		74	52 - 100
Benzo[a]pyrene	20.0	15.1		ug/L		75	52 - 100
Benzo[b]fluoranthene	20.0	13.3		ug/L		67	50 - 100
Benzo[g,h,i]perylene	20.0	13.8		ug/L		69	53 - 100
Benzo[k]fluoranthene	20.0	15.0		ug/L		75	49 - 100
Benzoic acid	20.0	14.2		ug/L		71	31 - 122
Benzyl alcohol	20.0	15.1		ug/L		75	33 - 107
Bis(2-chloroethoxy)methane	20.0	13.4		ug/L		67	49 - 100
Bis(2-chloroethyl)ether	20.0	13.6		ug/L		68	46 - 100
Bis(2-ethylhexyl) phthalate	20.0	16.5		ug/L		83	52 - 101
bis(chloroisopropyl) ether	20.0	15.5		ug/L		78	29 - 102
Butyl benzyl phthalate	20.0	16.3		ug/L		82	52 - 100
Chrysene	20.0	14.5		ug/L		73	51 - 100
Dibenz(a,h)anthracene	20.0	14.4		ug/L		72	52 - 101
Dibenzofuran	20.0	14.6		ug/L		73	53 - 100
Diethyl phthalate	20.0	15.5		ug/L		78	52 - 100
Dimethyl phthalate	20.0	15.0		ug/L		75	55 - 100
Di-n-butyl phthalate	20.0	15.9		ug/L		80	57 - 100
Di-n-octyl phthalate	20.0	14.9		ug/L		74	41 - 100
Fluoranthene	20.0	14.9		ug/L		75	56 - 100
Fluorene	20.0	14.7		ug/L		74	53 - 100
Hexachlorobenzene	20.0	14.2		ug/L		71	46 - 100
Hexachlorobutadiene	20.0	14.0		ug/L		70	42 - 101
Hexachlorocyclopentadiene	20.0	12.6		ug/L		63	38 - 102
Hexachloroethane	20.0	15.2		ug/L		76	46 - 100
Indeno[1,2,3-cd]pyrene	20.0	15.4		ug/L		77	54 - 100
Isophorone	20.0	15.3		ug/L		77	50 - 100
Methylphenol, 3 & 4	20.0	15.7		ug/L		78	51 - 100
Naphthalene	20.0	14.0		ug/L		70	53 - 100
Nitrobenzene	20.0	14.8		ug/L		74	47 - 100
N-Nitrosodi-n-propylamine	20.0	15.7		ug/L		78	43 - 103
N-Nitrosodiphenylamine	20.0	14.5		ug/L		73	53 - 100

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QC Sample Results

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

Job ID: 180-172990-1

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

Lab Sample ID: LCS 180-466963/2-A
Matrix: Water
Analysis Batch: 467383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466963

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Pentachlorophenol	40.0	30.5		ug/L		76	35 - 102
Phenanthrene	20.0	14.1		ug/L		70	53 - 100
Phenol	20.0	15.6		ug/L		78	49 - 100
Pyrene	20.0	14.7		ug/L		73	53 - 100

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	70		23 - 128
2-Fluorobiphenyl	70		20 - 105
2-Fluorophenol (Surr)	71		20 - 105
Nitrobenzene-d5 (Surr)	74		20 - 107
Phenol-d5 (Surr)	78		20 - 106
Terphenyl-d14 (Surr)	57		22 - 120

Lab Sample ID: LCSD 180-466963/3-A
Matrix: Water
Analysis Batch: 467383

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 466963

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
1,2,4-Trichlorobenzene	20.0	14.8		ug/L		74	51 - 100	8	15
1,2-Dichlorobenzene	20.0	15.1		ug/L		76	51 - 100	9	16
1,3-Dichlorobenzene	20.0	14.9		ug/L		75	51 - 100	8	15
1,4-Dichlorobenzene	20.0	15.4		ug/L		77	52 - 100	4	15
1-Methylnaphthalene	20.0	15.0		ug/L		75	53 - 100	8	15
2,3,4,6-Tetrachlorophenol	20.0	16.0		ug/L		80	50 - 100	6	21
2,4,5-Trichlorophenol	20.0	16.6		ug/L		83	55 - 100	4	18
2,4,6-Trichlorophenol	20.0	16.5		ug/L		83	54 - 100	5	16
2,4-Dichlorophenol	20.0	15.7		ug/L		79	55 - 100	10	15
2,4-Dimethylphenol	20.0	13.5		ug/L		67	51 - 100	11	16
2,4-Dinitrophenol	40.0	35.6		ug/L		89	32 - 100	7	19
2,4-Dinitrotoluene	20.0	17.1		ug/L		85	56 - 100	4	16
2,6-Dinitrotoluene	20.0	15.9		ug/L		79	56 - 101	1	16
2-Chloronaphthalene	20.0	15.5		ug/L		77	52 - 100	3	15
2-Chlorophenol	20.0	16.0		ug/L		80	53 - 100	0	17
2-Methylnaphthalene	20.0	15.5		ug/L		77	53 - 100	6	15
2-Methylphenol	20.0	16.4		ug/L		82	51 - 100	8	16
2-Nitroaniline	20.0	18.1		ug/L		91	47 - 104	1	18
2-Nitrophenol	20.0	16.1		ug/L		81	56 - 100	10	15
3,3'-Dichlorobenzidine	20.0	15.3		ug/L		77	42 - 100	6	15
3-Nitroaniline	20.0	16.9		ug/L		84	54 - 100	4	15
4,6-Dinitro-2-methylphenol	40.0	34.8		ug/L		87	48 - 100	10	15
4-Bromophenyl phenyl ether	20.0	15.5		ug/L		77	50 - 100	9	15
4-Chloro-3-methylphenol	20.0	16.3		ug/L		81	47 - 105	7	18
4-Chloroaniline	20.0	15.0		ug/L		75	48 - 100	7	15
4-Chlorophenyl phenyl ether	20.0	15.8		ug/L		79	52 - 100	8	16
4-Nitroaniline	20.0	17.2		ug/L		86	54 - 100	7	16
4-Nitrophenol	40.0	34.7		ug/L		87	37 - 120	1	18
Acenaphthene	20.0	15.5		ug/L		77	51 - 100	4	15
Acenaphthylene	20.0	15.9		ug/L		79	54 - 100	6	16

Eurofins Pittsburgh

QC Sample Results

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

Job ID: 180-172990-1

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

Lab Sample ID: LCSD 180-466963/3-A

Matrix: Water

Analysis Batch: 467383

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 466963

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Anthracene	20.0	15.7		ug/L		79	54 - 100	9	15
Benzo[a]anthracene	20.0	15.6		ug/L		78	52 - 100	5	15
Benzo[a]pyrene	20.0	15.5		ug/L		77	52 - 100	2	16
Benzo[b]fluoranthene	20.0	13.6		ug/L		68	50 - 100	2	15
Benzo[g,h,i]perylene	20.0	16.2	*1	ug/L		81	53 - 100	16	15
Benzo[k]fluoranthene	20.0	15.9		ug/L		80	49 - 100	6	20
Benzoic acid	20.0	16.0		ug/L		80	31 - 122	12	32
Benzyl alcohol	20.0	16.0		ug/L		80	33 - 107	6	35
Bis(2-chloroethoxy)methane	20.0	14.4		ug/L		72	49 - 100	7	15
Bis(2-chloroethyl)ether	20.0	14.3		ug/L		72	46 - 100	6	17
Bis(2-ethylhexyl) phthalate	20.0	17.4		ug/L		87	52 - 101	5	15
bis(chloroisopropyl) ether	20.0	15.9		ug/L		80	29 - 102	2	16
Butyl benzyl phthalate	20.0	17.3		ug/L		87	52 - 100	6	15
Chrysene	20.0	15.4		ug/L		77	51 - 100	5	15
Dibenz(a,h)anthracene	20.0	15.3		ug/L		76	52 - 101	6	15
Dibenzofuran	20.0	15.4		ug/L		77	53 - 100	5	16
Diethyl phthalate	20.0	16.1		ug/L		80	52 - 100	3	15
Dimethyl phthalate	20.0	15.9		ug/L		79	55 - 100	6	15
Di-n-butyl phthalate	20.0	17.1		ug/L		86	57 - 100	7	15
Di-n-octyl phthalate	20.0	15.2		ug/L		76	41 - 100	2	17
Fluoranthene	20.0	15.9		ug/L		80	56 - 100	7	15
Fluorene	20.0	15.9		ug/L		80	53 - 100	8	17
Hexachlorobenzene	20.0	15.0		ug/L		75	46 - 100	6	15
Hexachlorobutadiene	20.0	15.1		ug/L		75	42 - 101	7	15
Hexachlorocyclopentadiene	20.0	13.0		ug/L		65	38 - 102	3	16
Hexachloroethane	20.0	15.1		ug/L		76	46 - 100	1	16
Indeno[1,2,3-cd]pyrene	20.0	16.3		ug/L		82	54 - 100	6	16
Isophorone	20.0	16.3		ug/L		82	50 - 100	6	15
Methylphenol, 3 & 4	20.0	16.3		ug/L		82	51 - 100	4	18
Naphthalene	20.0	15.1		ug/L		75	53 - 100	7	15
Nitrobenzene	20.0	15.3		ug/L		77	47 - 100	3	16
N-Nitrosodi-n-propylamine	20.0	16.2		ug/L		81	43 - 103	3	16
N-Nitrosodiphenylamine	20.0	16.2		ug/L		81	53 - 100	11	16
Pentachlorophenol	40.0	32.9		ug/L		82	35 - 102	7	17
Phenanthrene	20.0	15.2		ug/L		76	53 - 100	8	15
Phenol	20.0	15.8		ug/L		79	49 - 100	1	17
Pyrene	20.0	15.6		ug/L		78	53 - 100	6	15

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	78		23 - 128
2-Fluorobiphenyl	74		20 - 105
2-Fluorophenol (Surr)	75		20 - 105
Nitrobenzene-d5 (Surr)	76		20 - 107
Phenol-d5 (Surr)	79		20 - 106
Terphenyl-d14 (Surr)	61		22 - 120

QC Association Summary

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

Job ID: 180-172990-1

GC/MS VOA

Analysis Batch: 709835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-172990-1	SUPE-W-28C-042424	Total/NA	Water	8260C	
180-172990-2	SUPE-W-04AR2-042424	Total/NA	Water	8260C	
180-172990-3	SUPE-FB-1-042424	Total/NA	Water	8260C	
180-172990-4	SUPE-TB-1-042424	Total/NA	Water	8260C	
180-172990-5	SUPE-W-06A-042424	Total/NA	Water	8260C	
180-172990-6	SUPE-W-30A-042424	Total/NA	Water	8260C	
180-172990-7	SUPE-W-12CR-042424	Total/NA	Water	8260C	
180-172990-8	SUPE-W-30C-042424	Total/NA	Water	8260C	
180-172990-9	SUPE-M-99A-042424	Total/NA	Water	8260C	
MB 480-709835/8	Method Blank	Total/NA	Water	8260C	
LCS 480-709835/31	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 466963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-172990-1	SUPE-W-28C-042424	Total/NA	Water	3520C	
180-172990-2	SUPE-W-04AR2-042424	Total/NA	Water	3520C	
180-172990-3	SUPE-FB-1-042424	Total/NA	Water	3520C	
180-172990-5	SUPE-W-06A-042424	Total/NA	Water	3520C	
180-172990-6	SUPE-W-30A-042424	Total/NA	Water	3520C	
180-172990-7	SUPE-W-12CR-042424	Total/NA	Water	3520C	
180-172990-8	SUPE-W-30C-042424	Total/NA	Water	3520C	
180-172990-9	SUPE-M-99A-042424	Total/NA	Water	3520C	
180-172990-10	SUPE-W-18D-042424	Total/NA	Water	3520C	
MB 180-466963/1-A	Method Blank	Total/NA	Water	3520C	
LCS 180-466963/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 180-466963/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 467383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-172990-1	SUPE-W-28C-042424	Total/NA	Water	EPA 8270E LL	466963
180-172990-2	SUPE-W-04AR2-042424	Total/NA	Water	EPA 8270E LL	466963
180-172990-3	SUPE-FB-1-042424	Total/NA	Water	EPA 8270E LL	466963
180-172990-5	SUPE-W-06A-042424	Total/NA	Water	EPA 8270E LL	466963
180-172990-6	SUPE-W-30A-042424	Total/NA	Water	EPA 8270E LL	466963
180-172990-7	SUPE-W-12CR-042424	Total/NA	Water	EPA 8270E LL	466963
180-172990-8	SUPE-W-30C-042424	Total/NA	Water	EPA 8270E LL	466963
180-172990-9	SUPE-M-99A-042424	Total/NA	Water	EPA 8270E LL	466963
180-172990-10	SUPE-W-18D-042424	Total/NA	Water	EPA 8270E LL	466963
MB 180-466963/1-A	Method Blank	Total/NA	Water	EPA 8270E LL	466963
LCS 180-466963/2-A	Lab Control Sample	Total/NA	Water	EPA 8270E LL	466963
LCSD 180-466963/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 8270E LL	466963



CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502146



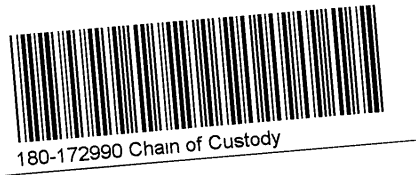
Ref 210311

Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET KNOX
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8290_Dioxins/Furans (Knoxville) (1L)														Notes:						
						Preservative																			
					None																				
				Total Bottle Count																					
04/24/2024	0940	GW	SUPE-W-28C-042424	2	2																				
04/24/2024	1155	GW	SUPE-W-04AR2-042424	2	2																				
04/24/2024	1155	GW	SUPE-FB-1-042424	2	2																				
04/24/2024	1438	GW	SUPE-TB-1-042424	0	0																				
04/24/2024	1438	GW	SUPE-W-06A-042424	2	2																				



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Carter Auch	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EET KNOX	Firm:	Firm:	
Date/Time: 04/24/2024 1550	Date/Time: 4/25/24 10:15	Date/Time:	Date/Time:	





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502082



Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET BUF
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis																	Notes:		
				8260C_VOA+naphtha (Buffalo)																			
				Preservative	HCL																		
				Total Bottle Count																			
04/24/2024	1233	GW	SUPE-W-30A-042424		3	3																	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Rianna Soltis	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EPT/MS	Firm:	Firm:	
Date/Time: 04/24/2024 1551	Date/Time: 4/25/24 0915	Date/Time:	Date/Time:	

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Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502084



Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET PIT
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8270D_SVOC (less naphtha) (Chicago)														Notes:					
						Preservative	Total Bottle Count																	
04/24/2024	1233	GW	SUPE-W-30A-042424	2	2																			

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	
Printed Name: Rianna Soltis	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EP.HNE	Firm:	Firm:	
Date/Time: 04/24/2024 1551	Date/Time: 4/25/24 0915	Date/Time:	Date/Time:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard

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5/6/2024





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502083



Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET KNOX
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis																	Notes:												
				8290_Dioxins/Furans (Knoxville) (1L)																													
				Preservative	None																												
				Total Bottle Count																													
04/24/2024	1233	GW	SUPE-W-30A-042424	2	2																												

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	 <small>Signature:</small>	<small>Signature:</small>	<small>Signature:</small>	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
<small>Printed Name:</small> Rianna Soltis	<small>Printed Name:</small> Rachel Oster	<small>Printed Name:</small>	<small>Printed Name:</small>	
<small>Firm:</small> FTS	<small>Firm:</small> EP. #125	<small>Firm:</small>	<small>Firm:</small>	
<small>Date/Time:</small> 04/24/2024 1551	<small>Date/Time:</small> 4/25/24 0915	<small>Date/Time:</small>	<small>Date/Time:</small>	





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502147



Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET PIT
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis																		
					8270D_SVOC (less naphtha) (Chicago)	8270D_SVOC+naphtha (Chicago) (250ml)																
				Preservative	None	None																
				Total Bottle Count																	Notes:	
04/24/2024	0940	GW	SUPE-W-28C-042424	2	2	0																
04/24/2024	1155	GW	SUPE-FB-1-042424	2	2	0																
04/24/2024	1155	GW	SUPE-W-04AR2-042424	2	2	0																
04/24/2024	1330	GW	SUPE-W-18D-042424	2	0	2																
04/24/2024	1438	GW	SUPE-W-06A-042424	2	2	0																
04/24/2024	1438	GW	SUPE-TB-1-042424	0	0	0																

(Large empty space for notes or additional information)

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
	Signature:	Signature:	Signature:	
Printed Name: Carter Auch	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EPTMS	Firm:	Firm:	
Date/Time: 04/24/2024 1551	Date/Time: 4/25/24 0915	Date/Time:	Date/Time:	

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Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502148

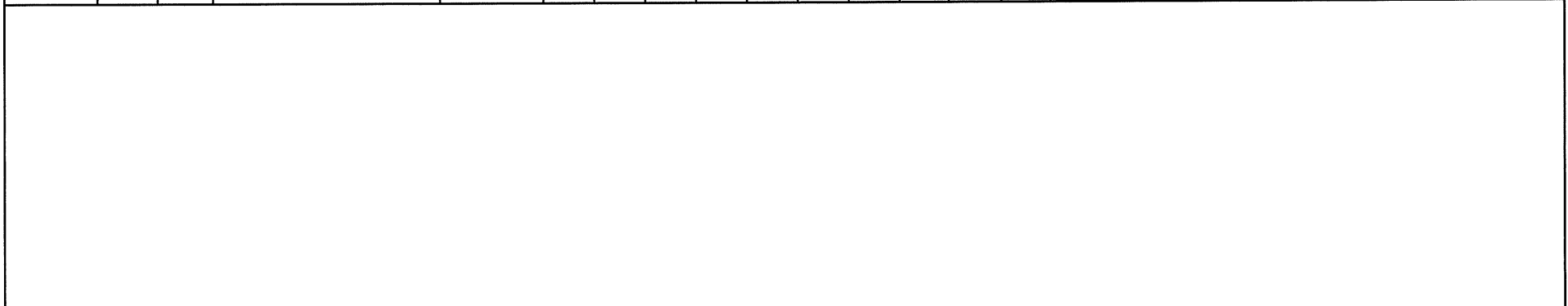


Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET BUF
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis															Notes:						
				8260C_VOA+naphtha (Buffalo)																					
				Preservative	HCL																				
				Total Bottle Count																					
04/24/2024	0940	GW	SUPE-W-28C-042424	3	3																				
04/24/2024	1155	GW	SUPE-W-04AR2-042424	3	3																				
04/24/2024	1155	GW	SUPE-FB-1-042424	3	3																				
04/24/2024	1438	GW	SUPE-W-06A-042424	3	3																				
04/24/2024	1438	GW	SUPE-TB-1-042424	3	3																				



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Carter Auch	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EET BUF	Firm:	Firm:	
Date/Time: 04/24/2024 1551	Date/Time: 4/25/24 0915	Date/Time:	Date/Time:	

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Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502141



Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET PIT
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis													Notes:
					8270D_SVOC (less inaphtha) (Chicago)												
				Preservative	None												
				Total Bottle Count													
04/24/2024	1033	GW	SUPE-W-12CR-042424	2	2												
04/24/2024	1414	GW	SUPE-W-30C-042424	2	2												
04/24/2024	1600	GW	SUPE-M-99A-042424	2	2												

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
 Signature: Trevor Lowe	 Signature: Rachel Oster	Signature: 	Signature: 	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Trevor Lowe	Printed Name: Rachel Oster	Printed Name: 	Printed Name: 	
Firm: FTS	Firm: EPITME	Firm: 	Firm: 	
Date/Time: 04/24/2024 1604	Date/Time: 4/25/24	Date/Time: 	Date/Time: 	

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Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502142



Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET BUF
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis														Notes:
				Preservative	8260C_VOA+naphtha (Buffalo)													
					HCL													
				Total Bottle Count														
04/24/2024	1033	GW	SUPE-W-12CR-042424	3	3													
04/24/2024	1414	GW	SUPE-W-30C-042424	3	3													
04/24/2024	1600	GW	SUPE-M-99A-042424	3	3													



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Trevor Lowe	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EPITMS	Firm:	Firm:	
Date/Time: 04/24/2024 1605	Date/Time: 4/25/24 0915	Date/Time:	Date/Time:	





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502143

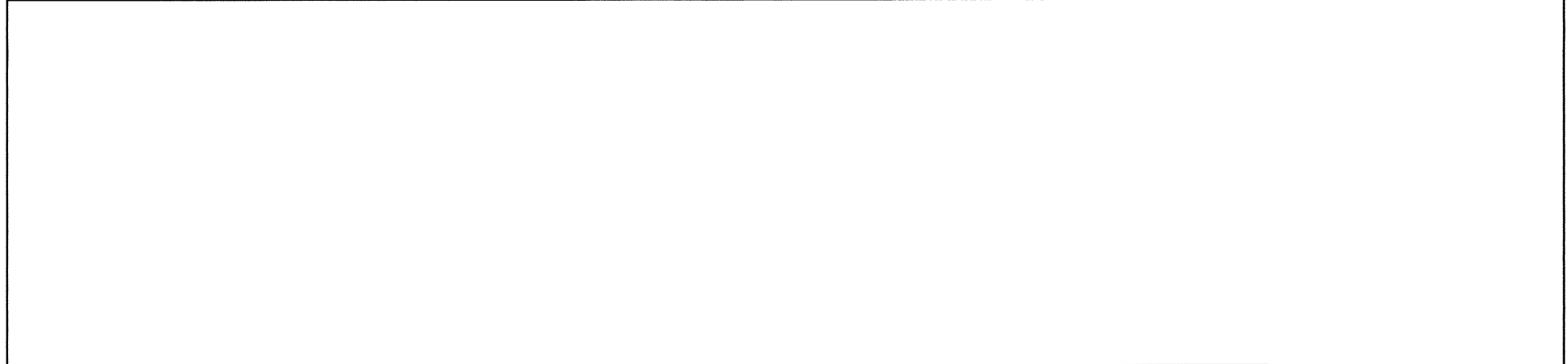


Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET KNOX
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8290_Dioxins/Furans (Knoxville) (1L)															Notes:
						Preservative														
					None															
				Total Bottle Count																
04/24/2024	1033	GW	SUPE-W-12CR-042424	2	2															
04/24/2024	1414	GW	SUPE-W-30C-042424	2	2															
04/24/2024	1600	GW	SUPE-M-99A-042424	2	2															



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Trevor Lowe	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EPHMS	Firm:	Firm:	
Date/Time: 04/24/2024 1605	Date/Time: 4/25/24 0915	Date/Time:	Date/Time:	



URN

Date: 09APR24
Wgt: 20.00 LBS
DV: 0.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Sves: PRIORITY OVERNIGHT Master 7224 1464 6250
TRCK: 7224 1464 6250

RT **198** 1 10:30 **A**
FZ **197** 6250
04.25

Part # 159469-434 NTW EXP 01/25

ORIGIN ID: AGCA (218) 591-0409
STEVEN WILLIS
KOPPERS INC RAILROAD PRODUCTS & SER
3185 SOUTH COUNRTY ROAD A
SUPERIOR, WI 54880
UNITED STATES US

SHIP DATE: 09APR24
ACTWGT: 20.00 LB MAN
CAD: 0522321/CAFE3755

TO **SAMPLE RECEIVING DEPARTMENT**
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7630
REF: RETURN

RMA: ||| ||| |||

Uncorrected temp 48 20
Thermometer ID

CF 012 Initials RD

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

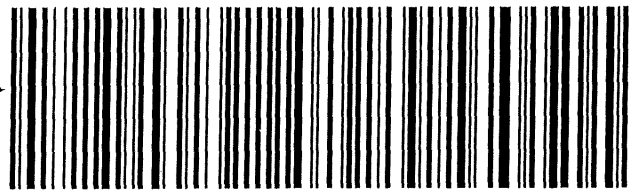


FedEx
TRK# 7224 1464 6250
0221

THU - 25 APR 10:30A
PRIORITY OVERNIGHT

XS AGCA

15238
PA-US PIT



55582694 04/24 583J6/0FEC/9AE3



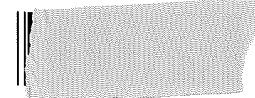
10 11 12 13



Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# **502146**

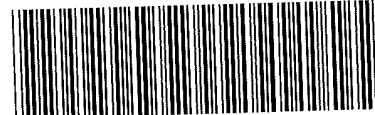


Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET KNOX
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling


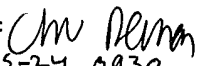
Company: Field & Technical Services
 Address: 200 Third Avenue
 Carnegie, PA 15106
 (412) 279-3363

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	8290_Dioxins/Furans (Knoxville) (1L)													Notes:						
					None																				
				Total Bottle Count																					
04/24/2024	0940	GW	SUPE-W-28C-042424	2	2																				
04/24/2024	1155	GW	SUPE-W-04AR2-042424	2	2																				
04/24/2024	1155	GW	SUPE-FB-1-042424	2	2																				
04/24/2024	1438	GW	SUPE-W-06A-042424	2	2																				
04/24/2024	1438	GW	SUPE-TB-1-042424	0	0																				



180-172990 Chain of Custody

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:  4-25-24 0930	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Carter Auch	Printed Name: Christopher Dickman	Printed Name:	Printed Name:	
Firm: FTS	Firm: ETA Kenx	Firm:	Firm:	
Date/Time:	Date/Time: 4-25-24 0930	Date/Time:	Date/Time:	

5/6/2024



CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502143

Ref 210311

Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET KNOX
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8290_Dioxins/Furans (Knoxville) (1L)												Notes:											
						Preservative	None																					
				Total Bottle Count																								
04/24/2024	1033	GW	SUPE-W-12CR-042424	2	2																							
04/24/2024	1414	GW	SUPE-W-30C-042424	2	2																							
04/24/2024	1600	GW	SUPE-M-99A-042424	2	2																							

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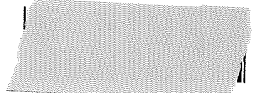
Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
 Printed Name: Trevor Lowe Firm: FTS Date/Time:	Signature: <i>Chris Rickman</i> 4-25-24 0930 Printed Name: Christopher Rickman Firm: ETA Knox Date/Time: 4-25-24 0930	Signature: Printed Name: Firm: Date/Time:	Signature: Printed Name: Firm: Date/Time:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard

5/6/2024



CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502083



Ref 210311

Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET KNOX
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8290_Dioxins/Furans (Knoxville) (1L)															Notes:										
				Preservative	None																									
				Total Bottle Count																										
04/24/2024	1233	GW	SUPE-WV-30A-042424	2	2																									

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Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature: <i>Chr Rickman</i> 4-25-24 0930	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Rianna Soltis	Printed Name: <i>Christopher Rickman</i>	Printed Name:	Printed Name:	
Firm: FTS	Firm: <i>EET Knox</i>	Firm:	Firm:	
Date/Time:	Date/Time: 4-25-24 0930	Date/Time:	Date/Time:	

5/6/2024

EUROFINS KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

Loc: 180
172990

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken														
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	<p>Custody seal Intact Received at RT 1.0/ct 1.2°C RT 0.9/ct 1.0°C CAR 4-25-24 Fedex PO# 273847199363 m</p> <p>Labeling Verified by: _____ Date: _____</p> <p>pH test strip lot number: _____</p> <table border="1"> <thead> <tr> <th>Box 16A: pH Preservation</th> <th>Box 18A: Residual Chlorine</th> </tr> </thead> <tbody> <tr><td>Preservative: _____</td><td>_____</td></tr> <tr><td>Lot Number: _____</td><td>_____</td></tr> <tr><td>Exp Date: _____</td><td>_____</td></tr> <tr><td>Analyst: _____</td><td>_____</td></tr> <tr><td>Date: _____</td><td>_____</td></tr> <tr><td>Time: _____</td><td>_____</td></tr> </tbody> </table>	Box 16A: pH Preservation	Box 18A: Residual Chlorine	Preservative: _____	_____	Lot Number: _____	_____	Exp Date: _____	_____	Analyst: _____	_____	Date: _____	_____	Time: _____	_____
Box 16A: pH Preservation	Box 18A: Residual Chlorine																		
Preservative: _____	_____																		
Lot Number: _____	_____																		
Exp Date: _____	_____																		
Analyst: _____	_____																		
Date: _____	_____																		
Time: _____	_____																		
2. Were ambient air containers received intact?			/	<input type="checkbox"/> Checked in lab															
3. The coolers/containers custody seal if present, is it intact?	/			<input type="checkbox"/> Yes <input type="checkbox"/> NA															
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID: <u>5C76</u> Correction factor: <u>+0.20C</u>	/			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt															
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken															
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel															
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<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 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 type="checkbox"/> COC; No Date/Time; Client Contacted															
10. Was the sampler identified on the COC?			/	<input type="checkbox"/> Sampler Not Listed on COC															
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete															
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC															
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete															
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete															
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt															
16. Were samples received with correct chemical preservative (excluding Encore)?			/	<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative															
17. Were VOA samples received without headspace?			/	<input type="checkbox"/> Headspace (VOA only)															
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____			/	<input type="checkbox"/> Residual Chlorine															
19. For 1613B water samples is pH<9?			/	<input type="checkbox"/> If no, notify lab to adjust															
20. For rad samples was sample activity info. Provided?			/	<input type="checkbox"/> Project missing info															

Project #: 18015916 PM Instructions: _____

Sample Receiving Associate: CMN Reman Date: 4-25-24

QA026R33.doc, 11/10/23

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5/6/2024



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact: Shipping/Receiving		Phone:		Brown, Shali		State of Origin: Wisconsin		180-513037.1	
Company: Eurofins Environment Testing Northeast,		Due Date Requested: 5/15/2024		E-Mail: Shali.Brown@et.eurominsus.com		Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin		Page: Page 1 of 1	
Address: 10 Hazelwood Drive,		TAT Requested (days):		Project Name: Superior, WI Semiannual Groundwater		Project #: 18015916		Job #: 180-172990-1	
City: Amherst		PO #:		Site:		SSOW#:		Preservation Codes:	
State, Zip: NY, 14228-2298		WO #:		Analysis Requested		Other:		Special Instructions/Note:	
Phone: 716-691-2600(Tel) 716-691-7991(Fax)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8260C/6030C (MOD) Volatiles, project list		Total Number of containers	
Email:		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)					
Project Name: Superior, WI Semiannual Groundwater		Sample Date		Sample Time		Preservation Code:			
Site:		SUPE-W-28C-042424 (180-172990-1)		4/24/24 09:40 Central		Water		3	
		SUPE-W-04AR2-042424 (180-172990-2)		4/24/24 11:55 Central		Water		3	
		SUPE-FB-1-042424 (180-172990-3)		4/24/24 11:55 Central		Water		3	
		SUPE-TB-1-042424 (180-172990-4)		4/24/24 14:38 Central		Water		2	
		SUPE-W-06A-042424 (180-172990-5)		4/24/24 14:38 Central		Water		3	
		SUPE-W-30A-042424 (180-172990-6)		4/24/24 12:33 Central		Water		3	
		SUPE-W-12CR-042424 (180-172990-7)		4/24/24 10:33 Central		Water		3	
		SUPE-W-30C-042424 (180-172990-8)		4/24/24 14:14 Central		Water		3	
		SUPE-M-99A-042424 (180-172990-9)		4/24/24 16:00 Central		Water		3	
<p>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/tests/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>									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Primary Deliverable Rank: 2				
Empty Kit Relinquished by:					Special Instructions/QC Requirements:				
Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 4-26-24 1700		Company: EPITOME		Received by: <i>[Signature]</i>		Date/Time: 4-27-24 1030	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooling Temperature: °C and Other Remarks: 2.5 ICE					



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-172990-1

Login Number: 172990

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

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



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-172990-1

Login Number: 172990

List Number: 2

Creator: Yeager, Brian A

List Source: Eurofins Buffalo

List Creation: 04/29/24 12:06 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5 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 5/22/2024 1:46:00 PM

JOB DESCRIPTION

Superior, WI Semiannual Groundwater

JOB NUMBER

180-172990-2

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



Generated
5/22/2024 1:46:00 PM

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



Table of Contents

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Case Narrative

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

Job ID: 180-172990-2

Job ID: 180-172990-2

Eurofins Pittsburgh

Job Narrative 180-172990-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/25/2024 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C.

Dioxin

Method 8290A: The following samples required a Gel-Permeation clean up, via EPA method 3640A, to reduce matrix interference: SUPE-W-28C-042424 (180-172990-1), SUPE-W-04AR2-042424 (180-172990-2), SUPE-FB-1-042424 (180-172990-3), SUPE-W-06A-042424 (180-172990-5), SUPE-W-30A-042424 (180-172990-6), SUPE-W-12CR-042424 (180-172990-7), SUPE-W-30C-042424 (180-172990-8) and SUPE-M-99A-042424 (180-172990-9).

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

Eurofins Pittsburgh

Definitions/Glossary

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

Job ID: 180-172990-2

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.
S	Ion suppression

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: 180-172990-2

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	08-31-24

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: 180-172990-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-172990-1	SUPE-W-28C-042424	Water	04/24/24 09:40	04/25/24 09:15
180-172990-2	SUPE-W-04AR2-042424	Water	04/24/24 11:55	04/25/24 09:15
180-172990-3	SUPE-FB-1-042424	Water	04/24/24 11:55	04/25/24 09:15
180-172990-5	SUPE-W-06A-042424	Water	04/24/24 14:38	04/25/24 09:15
180-172990-6	SUPE-W-30A-042424	Water	04/24/24 12:33	04/25/24 09:15
180-172990-7	SUPE-W-12CR-042424	Water	04/24/24 10:33	04/25/24 09:15
180-172990-8	SUPE-W-30C-042424	Water	04/24/24 14:14	04/25/24 09:15
180-172990-9	SUPE-M-99A-042424	Water	04/24/24 16:00	04/25/24 09:15

- 1
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- 13

Method Summary

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

Job ID: 180-172990-2

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: 180-172990-2

Client Sample ID: SUPE-W-28C-042424

Lab Sample ID: 180-172990-1

Date Collected: 04/24/24 09:40

Matrix: Water

Date Received: 04/25/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			955.6 mL	20 uL	86096	04/29/24 08:58	DAC	EET KNX
Total/NA	Analysis	8290A		1			86873	05/21/24 19:53	MSP	EET KNX
Instrument ID: D4A										

Client Sample ID: SUPE-W-04AR2-042424

Lab Sample ID: 180-172990-2

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/25/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			964.2 mL	20 uL	86096	04/29/24 08:58	DAC	EET KNX
Total/NA	Analysis	8290A		1			86873	05/21/24 20:53	MSP	EET KNX
Instrument ID: D4A										

Client Sample ID: SUPE-FB-1-042424

Lab Sample ID: 180-172990-3

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/25/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1045.5 mL	20 uL	86096	04/29/24 08:58	DAC	EET KNX
Total/NA	Analysis	8290A		1			86873	05/21/24 21:53	MSP	EET KNX
Instrument ID: D4A										

Client Sample ID: SUPE-W-06A-042424

Lab Sample ID: 180-172990-5

Date Collected: 04/24/24 14:38

Matrix: Water

Date Received: 04/25/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			953.7 mL	20 uL	86096	04/29/24 08:58	DAC	EET KNX
Total/NA	Analysis	8290A		1			86913	05/22/24 04:11	MSP	EET KNX
Instrument ID: D4A										

Client Sample ID: SUPE-W-30A-042424

Lab Sample ID: 180-172990-6

Date Collected: 04/24/24 12:33

Matrix: Water

Date Received: 04/25/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1029.1 mL	20 uL	86096	04/29/24 08:58	DAC	EET KNX
Total/NA	Analysis	8290A		1			86913	05/22/24 05:11	MSP	EET KNX
Instrument ID: D4A										

Lab Chronicle

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

Job ID: 180-172990-2

Client Sample ID: SUPE-W-12CR-042424

Lab Sample ID: 180-172990-7

Date Collected: 04/24/24 10:33

Matrix: Water

Date Received: 04/25/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1035.1 mL	20 uL	86096	04/29/24 08:58	DAC	EET KNX
Total/NA	Analysis	8290A		1			86913	05/22/24 06:11	MSP	EET KNX

Instrument ID: D4A

Client Sample ID: SUPE-W-30C-042424

Lab Sample ID: 180-172990-8

Date Collected: 04/24/24 14:14

Matrix: Water

Date Received: 04/25/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1039.1 mL	20 uL	86096	04/29/24 08:58	DAC	EET KNX
Total/NA	Analysis	8290A		1			86913	05/22/24 07:11	MSP	EET KNX

Instrument ID: D4A

Client Sample ID: SUPE-M-99A-042424

Lab Sample ID: 180-172990-9

Date Collected: 04/24/24 16:00

Matrix: Water

Date Received: 04/25/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1041 mL	20 uL	86096	04/29/24 08:58	DAC	EET KNX
Total/NA	Analysis	8290A		1			86913	05/22/24 08:10	MSP	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

MSP = Michael Patty

Client Sample Results

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

Job ID: 180-172990-2

Client Sample ID: SUPE-W-28C-042424

Lab Sample ID: 180-172990-1

Date Collected: 04/24/24 09:40

Matrix: Water

Date Received: 04/25/24 09:15

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	0.22	pg/L		04/29/24 08:58	05/21/24 19:53	1
Total TCDD	1.5	J I B	10	0.22	pg/L		04/29/24 08:58	05/21/24 19:53	1
1,2,3,7,8-PeCDD	ND		52	0.48	pg/L		04/29/24 08:58	05/21/24 19:53	1
Total PeCDD	2.9	J I B	52	0.48	pg/L		04/29/24 08:58	05/21/24 19:53	1
1,2,3,4,7,8-HxCDD	1.1	J I B	52	0.37	pg/L		04/29/24 08:58	05/21/24 19:53	1
1,2,3,6,7,8-HxCDD	0.40	J I	52	0.36	pg/L		04/29/24 08:58	05/21/24 19:53	1
1,2,3,7,8,9-HxCDD	ND		52	0.35	pg/L		04/29/24 08:58	05/21/24 19:53	1
Total HxCDD	5.1	J I B	52	0.36	pg/L		04/29/24 08:58	05/21/24 19:53	1
1,2,3,4,6,7,8-HpCDD	13	J I	52	1.0	pg/L		04/29/24 08:58	05/21/24 19:53	1
Total HpCDD	43	J I	52	1.0	pg/L		04/29/24 08:58	05/21/24 19:53	1
OCDD	110	B	100	0.52	pg/L		04/29/24 08:58	05/21/24 19:53	1
2,3,7,8-TCDF	ND		10	0.17	pg/L		04/29/24 08:58	05/21/24 19:53	1
Total TCDF	1.6	J I B	10	0.17	pg/L		04/29/24 08:58	05/21/24 19:53	1
1,2,3,7,8-PeCDF	ND		52	0.79	pg/L		04/29/24 08:58	05/21/24 19:53	1
2,3,4,7,8-PeCDF	ND		52	0.70	pg/L		04/29/24 08:58	05/21/24 19:53	1
Total PeCDF	1.7	J I	52	0.75	pg/L		04/29/24 08:58	05/21/24 19:53	1
1,2,3,4,7,8-HxCDF	0.99	J I B	52	0.69	pg/L		04/29/24 08:58	05/21/24 19:53	1
1,2,3,6,7,8-HxCDF	1.4	J I	52	0.79	pg/L		04/29/24 08:58	05/21/24 19:53	1
2,3,4,6,7,8-HxCDF	ND		52	0.83	pg/L		04/29/24 08:58	05/21/24 19:53	1
1,2,3,7,8,9-HxCDF	ND		52	0.87	pg/L		04/29/24 08:58	05/21/24 19:53	1
Total HxCDF	9.2	J I B	52	0.79	pg/L		04/29/24 08:58	05/21/24 19:53	1
1,2,3,4,6,7,8-HpCDF	4.1	J I	52	0.59	pg/L		04/29/24 08:58	05/21/24 19:53	1
1,2,3,4,7,8,9-HpCDF	ND		52	0.73	pg/L		04/29/24 08:58	05/21/24 19:53	1
Total HpCDF	9.1	J I	52	0.66	pg/L		04/29/24 08:58	05/21/24 19:53	1
OCDF	12	J B	100	0.31	pg/L		04/29/24 08:58	05/21/24 19:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	62		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-1,2,3,7,8-PeCDD	58		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-1,2,3,4,7,8-HxCDD	67		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-1,2,3,6,7,8-HxCDD	71		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-1,2,3,4,6,7,8-HpCDD	70		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-OCDD	68		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-2,3,7,8-TCDF	62		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-1,2,3,7,8-PeCDF	62		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-2,3,4,7,8-PeCDF	60		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-1,2,3,4,7,8-HxCDF	75		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-1,2,3,6,7,8-HxCDF	67		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-2,3,4,6,7,8-HxCDF	69		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-1,2,3,7,8,9-HxCDF	75		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-1,2,3,4,6,7,8-HpCDF	69		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-1,2,3,4,7,8,9-HpCDF	71		40 - 135	04/29/24 08:58	05/21/24 19:53	1
13C-OCDF	58		40 - 135	04/29/24 08:58	05/21/24 19:53	1

Client Sample ID: SUPE-W-04AR2-042424

Lab Sample ID: 180-172990-2

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/25/24 09:15

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	0.20	pg/L		04/29/24 08:58	05/21/24 20:53	1

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Client Sample Results

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

Job ID: 180-172990-2

Client Sample ID: SUPE-W-04AR2-042424

Lab Sample ID: 180-172990-2

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TCDD	2.6	J I B	10	0.20	pg/L		04/29/24 08:58	05/21/24 20:53	1
1,2,3,7,8-PeCDD	1.4	J I B	52	0.34	pg/L		04/29/24 08:58	05/21/24 20:53	1
Total PeCDD	13	J I B	52	0.34	pg/L		04/29/24 08:58	05/21/24 20:53	1
1,2,3,4,7,8-HxCDD	6.6	J B	52	0.55	pg/L		04/29/24 08:58	05/21/24 20:53	1
1,2,3,6,7,8-HxCDD	19	J	52	0.52	pg/L		04/29/24 08:58	05/21/24 20:53	1
1,2,3,7,8,9-HxCDD	14	J	52	0.51	pg/L		04/29/24 08:58	05/21/24 20:53	1
Total HxCDD	220	I B	52	0.52	pg/L		04/29/24 08:58	05/21/24 20:53	1
1,2,3,4,6,7,8-HpCDD	710		52	1.7	pg/L		04/29/24 08:58	05/21/24 20:53	1
Total HpCDD	2800		52	1.7	pg/L		04/29/24 08:58	05/21/24 20:53	1
OCDD	6700	B	100	0.18	pg/L		04/29/24 08:58	05/21/24 20:53	1
2,3,7,8-TCDF	ND		10	0.19	pg/L		04/29/24 08:58	05/21/24 20:53	1
Total TCDF	25	I B	10	0.19	pg/L		04/29/24 08:58	05/21/24 20:53	1
1,2,3,7,8-PeCDF	ND		52	0.45	pg/L		04/29/24 08:58	05/21/24 20:53	1
2,3,4,7,8-PeCDF	1.0	J I	52	0.42	pg/L		04/29/24 08:58	05/21/24 20:53	1
Total PeCDF	110	I	52	0.43	pg/L		04/29/24 08:58	05/21/24 20:53	1
1,2,3,4,7,8-HxCDF	7.5	J B	52	1.7	pg/L		04/29/24 08:58	05/21/24 20:53	1
1,2,3,6,7,8-HxCDF	13	J I	52	1.9	pg/L		04/29/24 08:58	05/21/24 20:53	1
2,3,4,6,7,8-HxCDF	ND		52	1.9	pg/L		04/29/24 08:58	05/21/24 20:53	1
1,2,3,7,8,9-HxCDF	ND		52	2.3	pg/L		04/29/24 08:58	05/21/24 20:53	1
Total HxCDF	340	I B	52	1.9	pg/L		04/29/24 08:58	05/21/24 20:53	1
1,2,3,4,6,7,8-HpCDF	110		52	2.3	pg/L		04/29/24 08:58	05/21/24 20:53	1
1,2,3,4,7,8,9-HpCDF	7.5	J	52	3.0	pg/L		04/29/24 08:58	05/21/24 20:53	1
Total HpCDF	440		52	2.6	pg/L		04/29/24 08:58	05/21/24 20:53	1
OCDF	440	B	100	0.43	pg/L		04/29/24 08:58	05/21/24 20:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	69		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-1,2,3,7,8-PeCDD	62		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-1,2,3,4,7,8-HxCDD	72		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-1,2,3,6,7,8-HxCDD	75		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-1,2,3,4,6,7,8-HpCDD	73		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-OCDD	71		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-2,3,7,8-TCDF	71		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-1,2,3,7,8-PeCDF	68		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-2,3,4,7,8-PeCDF	66		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-1,2,3,4,7,8-HxCDF	83		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-1,2,3,6,7,8-HxCDF	77		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-2,3,4,6,7,8-HxCDF	77		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-1,2,3,7,8,9-HxCDF	78		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-1,2,3,4,6,7,8-HpCDF	72		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-1,2,3,4,7,8,9-HpCDF	70		40 - 135	04/29/24 08:58	05/21/24 20:53	1
13C-OCDF	62		40 - 135	04/29/24 08:58	05/21/24 20:53	1

Client Sample ID: SUPE-FB-1-042424

Lab Sample ID: 180-172990-3

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/25/24 09:15

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	0.26	pg/L		04/29/24 08:58	05/21/24 21:53	1
Total TCDD	1.8	J I B	9.6	0.26	pg/L		04/29/24 08:58	05/21/24 21:53	1

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Client Sample Results

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

Job ID: 180-172990-2

Client Sample ID: SUPE-FB-1-042424

Lab Sample ID: 180-172990-3

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/25/24 09:15

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	ND		48	0.18	pg/L		04/29/24 08:58	05/21/24 21:53	1
Total PeCDD	2.8	J I B	48	0.18	pg/L		04/29/24 08:58	05/21/24 21:53	1
1,2,3,4,7,8-HxCDD	1.1	J B	48	0.25	pg/L		04/29/24 08:58	05/21/24 21:53	1
1,2,3,6,7,8-HxCDD	0.46	J I	48	0.22	pg/L		04/29/24 08:58	05/21/24 21:53	1
1,2,3,7,8,9-HxCDD	0.31	J I	48	0.22	pg/L		04/29/24 08:58	05/21/24 21:53	1
Total HxCDD	3.0	J I B	48	0.23	pg/L		04/29/24 08:58	05/21/24 21:53	1
1,2,3,4,6,7,8-HpCDD	ND		48	1.9	pg/L		04/29/24 08:58	05/21/24 21:53	1
Total HpCDD	ND		48	1.9	pg/L		04/29/24 08:58	05/21/24 21:53	1
OCDD	3.4	J I B	96	0.28	pg/L		04/29/24 08:58	05/21/24 21:53	1
2,3,7,8-TCDF	ND		9.6	0.17	pg/L		04/29/24 08:58	05/21/24 21:53	1
Total TCDF	2.3	J I B	9.6	0.17	pg/L		04/29/24 08:58	05/21/24 21:53	1
1,2,3,7,8-PeCDF	ND		48	0.35	pg/L		04/29/24 08:58	05/21/24 21:53	1
2,3,4,7,8-PeCDF	ND		48	0.31	pg/L		04/29/24 08:58	05/21/24 21:53	1
Total PeCDF	ND		48	0.35	pg/L		04/29/24 08:58	05/21/24 21:53	1
1,2,3,4,7,8-HxCDF	ND		48	0.64	pg/L		04/29/24 08:58	05/21/24 21:53	1
1,2,3,6,7,8-HxCDF	1.1	J I	48	0.64	pg/L		04/29/24 08:58	05/21/24 21:53	1
2,3,4,6,7,8-HxCDF	ND		48	0.73	pg/L		04/29/24 08:58	05/21/24 21:53	1
1,2,3,7,8,9-HxCDF	ND		48	0.77	pg/L		04/29/24 08:58	05/21/24 21:53	1
Total HxCDF	1.1	J I B	48	0.70	pg/L		04/29/24 08:58	05/21/24 21:53	1
1,2,3,4,6,7,8-HpCDF	0.88	J I	48	0.45	pg/L		04/29/24 08:58	05/21/24 21:53	1
1,2,3,4,7,8,9-HpCDF	ND		48	0.60	pg/L		04/29/24 08:58	05/21/24 21:53	1
Total HpCDF	0.88	J I	48	0.53	pg/L		04/29/24 08:58	05/21/24 21:53	1
OCDF	1.3	J I B	96	0.24	pg/L		04/29/24 08:58	05/21/24 21:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	67		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-1,2,3,7,8-PeCDD	62		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-1,2,3,4,7,8-HxCDD	65		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-1,2,3,6,7,8-HxCDD	76		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-1,2,3,4,6,7,8-HpCDD	72		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-OCDD	70		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-2,3,7,8-TCDF	69		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-1,2,3,7,8-PeCDF	67		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-2,3,4,7,8-PeCDF	67		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-1,2,3,4,7,8-HxCDF	78		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-1,2,3,6,7,8-HxCDF	72		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-2,3,4,6,7,8-HxCDF	74		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-1,2,3,7,8,9-HxCDF	79		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-1,2,3,4,6,7,8-HpCDF	73		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-1,2,3,4,7,8,9-HpCDF	72		40 - 135	04/29/24 08:58	05/21/24 21:53	1
13C-OCDF	60		40 - 135	04/29/24 08:58	05/21/24 21:53	1

Client Sample ID: SUPE-W-06A-042424

Lab Sample ID: 180-172990-5

Date Collected: 04/24/24 14:38

Matrix: Water

Date Received: 04/25/24 09:15

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	0.25	pg/L		04/29/24 08:58	05/22/24 04:11	1
Total TCDD	2.0	J I B	10	0.25	pg/L		04/29/24 08:58	05/22/24 04:11	1
1,2,3,7,8-PeCDD	ND		52	0.29	pg/L		04/29/24 08:58	05/22/24 04:11	1

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Client Sample Results

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

Job ID: 180-172990-2

Client Sample ID: SUPE-W-06A-042424

Lab Sample ID: 180-172990-5

Date Collected: 04/24/24 14:38

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PeCDD	2.7	J I B	52	0.29	pg/L		04/29/24 08:58	05/22/24 04:11	1
1,2,3,4,7,8-HxCDD	1.3	J I B	52	0.33	pg/L		04/29/24 08:58	05/22/24 04:11	1
1,2,3,6,7,8-HxCDD	ND		52	0.30	pg/L		04/29/24 08:58	05/22/24 04:11	1
1,2,3,7,8,9-HxCDD	ND		52	0.30	pg/L		04/29/24 08:58	05/22/24 04:11	1
Total HxCDD	5.0	J I B	52	0.31	pg/L		04/29/24 08:58	05/22/24 04:11	1
1,2,3,4,6,7,8-HpCDD	8.6	J I	52	0.54	pg/L		04/29/24 08:58	05/22/24 04:11	1
Total HpCDD	39	J I	52	0.54	pg/L		04/29/24 08:58	05/22/24 04:11	1
OCDD	65	J B	100	0.17	pg/L		04/29/24 08:58	05/22/24 04:11	1
2,3,7,8-TCDF	ND		10	0.24	pg/L		04/29/24 08:58	05/22/24 04:11	1
Total TCDF	3.4	J I B	10	0.24	pg/L		04/29/24 08:58	05/22/24 04:11	1
1,2,3,7,8-PeCDF	ND		52	0.37	pg/L		04/29/24 08:58	05/22/24 04:11	1
2,3,4,7,8-PeCDF	ND		52	0.34	pg/L		04/29/24 08:58	05/22/24 04:11	1
Total PeCDF	4.6	J I	52	0.35	pg/L		04/29/24 08:58	05/22/24 04:11	1
1,2,3,4,7,8-HxCDF	ND		52	0.65	pg/L		04/29/24 08:58	05/22/24 04:11	1
1,2,3,6,7,8-HxCDF	1.6	J I	52	0.64	pg/L		04/29/24 08:58	05/22/24 04:11	1
2,3,4,6,7,8-HxCDF	ND		52	0.72	pg/L		04/29/24 08:58	05/22/24 04:11	1
1,2,3,7,8,9-HxCDF	ND		52	0.81	pg/L		04/29/24 08:58	05/22/24 04:11	1
Total HxCDF	4.4	J I B	52	0.70	pg/L		04/29/24 08:58	05/22/24 04:11	1
1,2,3,4,6,7,8-HpCDF	2.1	J I	52	0.44	pg/L		04/29/24 08:58	05/22/24 04:11	1
1,2,3,4,7,8,9-HpCDF	ND		52	0.60	pg/L		04/29/24 08:58	05/22/24 04:11	1
Total HpCDF	4.5	J I	52	0.52	pg/L		04/29/24 08:58	05/22/24 04:11	1
OCDF	4.0	J B	100	0.15	pg/L		04/29/24 08:58	05/22/24 04:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	60		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-1,2,3,7,8-PeCDD	53		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-1,2,3,4,7,8-HxCDD	64		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-1,2,3,6,7,8-HxCDD	73		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-1,2,3,4,6,7,8-HpCDD	63		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-OCDD	62		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-2,3,7,8-TCDF	57		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-1,2,3,7,8-PeCDF	58		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-2,3,4,7,8-PeCDF	56		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-1,2,3,4,7,8-HxCDF	72		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-1,2,3,6,7,8-HxCDF	69		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-2,3,4,6,7,8-HxCDF	69		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-1,2,3,7,8,9-HxCDF	73		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-1,2,3,4,6,7,8-HpCDF	67		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-1,2,3,4,7,8,9-HpCDF	63		40 - 135	04/29/24 08:58	05/22/24 04:11	1
13C-OCDF	53		40 - 135	04/29/24 08:58	05/22/24 04:11	1

Client Sample ID: SUPE-W-30A-042424

Lab Sample ID: 180-172990-6

Date Collected: 04/24/24 12:33

Matrix: Water

Date Received: 04/25/24 09:15

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	0.24	pg/L		04/29/24 08:58	05/22/24 05:11	1
Total TCDD	0.73	J I B	9.7	0.24	pg/L		04/29/24 08:58	05/22/24 05:11	1
1,2,3,7,8-PeCDD	ND		49	0.33	pg/L		04/29/24 08:58	05/22/24 05:11	1
Total PeCDD	ND		49	0.33	pg/L		04/29/24 08:58	05/22/24 05:11	1

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Client Sample Results

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

Job ID: 180-172990-2

Client Sample ID: SUPE-W-30A-042424

Lab Sample ID: 180-172990-6

Date Collected: 04/24/24 12:33

Matrix: Water

Date Received: 04/25/24 09:15

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	1.2	J I B	49	0.16	pg/L		04/29/24 08:58	05/22/24 05:11	1
1,2,3,6,7,8-HxCDD	4.6	J	49	0.16	pg/L		04/29/24 08:58	05/22/24 05:11	1
1,2,3,7,8,9-HxCDD	1.1	J I S	49	0.15	pg/L		04/29/24 08:58	05/22/24 05:11	1
Total HxCDD	17	J I S B	49	0.16	pg/L		04/29/24 08:58	05/22/24 05:11	1
1,2,3,4,6,7,8-HpCDD	84		49	1.9	pg/L		04/29/24 08:58	05/22/24 05:11	1
Total HpCDD	170		49	1.9	pg/L		04/29/24 08:58	05/22/24 05:11	1
OCDD	930	B	97	0.18	pg/L		04/29/24 08:58	05/22/24 05:11	1
2,3,7,8-TCDF	0.56	J I	9.7	0.17	pg/L		04/29/24 08:58	05/22/24 05:11	1
Total TCDF	25	I B	9.7	0.17	pg/L		04/29/24 08:58	05/22/24 05:11	1
1,2,3,7,8-PeCDF	ND		49	0.32	pg/L		04/29/24 08:58	05/22/24 05:11	1
2,3,4,7,8-PeCDF	1.4	J	49	0.29	pg/L		04/29/24 08:58	05/22/24 05:11	1
Total PeCDF	100	I	49	0.30	pg/L		04/29/24 08:58	05/22/24 05:11	1
1,2,3,4,7,8-HxCDF	4.0	J I B	49	1.3	pg/L		04/29/24 08:58	05/22/24 05:11	1
1,2,3,6,7,8-HxCDF	9.1	J I	49	1.4	pg/L		04/29/24 08:58	05/22/24 05:11	1
2,3,4,6,7,8-HxCDF	ND		49	1.5	pg/L		04/29/24 08:58	05/22/24 05:11	1
1,2,3,7,8,9-HxCDF	ND		49	1.6	pg/L		04/29/24 08:58	05/22/24 05:11	1
Total HxCDF	140	I B	49	1.4	pg/L		04/29/24 08:58	05/22/24 05:11	1
1,2,3,4,6,7,8-HpCDF	22	J	49	0.53	pg/L		04/29/24 08:58	05/22/24 05:11	1
1,2,3,4,7,8,9-HpCDF	2.4	J	49	0.70	pg/L		04/29/24 08:58	05/22/24 05:11	1
Total HpCDF	85		49	0.61	pg/L		04/29/24 08:58	05/22/24 05:11	1
OCDF	67	J B	97	0.37	pg/L		04/29/24 08:58	05/22/24 05:11	1

Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	63		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-1,2,3,7,8-PeCDD	57		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-1,2,3,4,7,8-HxCDD	67		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-1,2,3,6,7,8-HxCDD	71		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-1,2,3,4,6,7,8-HpCDD	67		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-OCDD	67		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-2,3,7,8-TCDF	61		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-1,2,3,7,8-PeCDF	62		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-2,3,4,7,8-PeCDF	60		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-1,2,3,4,7,8-HxCDF	75		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-1,2,3,6,7,8-HxCDF	67		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-2,3,4,6,7,8-HxCDF	73		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-1,2,3,7,8,9-HxCDF	74		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-1,2,3,4,6,7,8-HpCDF	68		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-1,2,3,4,7,8,9-HpCDF	68		40 - 135			04/29/24 08:58	05/22/24 05:11	1
13C-OCDF	57		40 - 135			04/29/24 08:58	05/22/24 05:11	1

Client Sample ID: SUPE-W-12CR-042424

Lab Sample ID: 180-172990-7

Date Collected: 04/24/24 10:33

Matrix: Water

Date Received: 04/25/24 09:15

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	0.28	pg/L		04/29/24 08:58	05/22/24 06:11	1
Total TCDD	0.62	J I B	9.7	0.28	pg/L		04/29/24 08:58	05/22/24 06:11	1
1,2,3,7,8-PeCDD	ND		48	0.097	pg/L		04/29/24 08:58	05/22/24 06:11	1
Total PeCDD	0.78	J B	48	0.097	pg/L		04/29/24 08:58	05/22/24 06:11	1
1,2,3,4,7,8-HxCDD	0.95	J I B	48	0.23	pg/L		04/29/24 08:58	05/22/24 06:11	1

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Client Sample Results

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

Job ID: 180-172990-2

Client Sample ID: SUPE-W-12CR-042424

Lab Sample ID: 180-172990-7

Date Collected: 04/24/24 10:33

Matrix: Water

Date Received: 04/25/24 09:15

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		48	0.21	pg/L		04/29/24 08:58	05/22/24 06:11	1
1,2,3,7,8,9-HxCDD	ND		48	0.21	pg/L		04/29/24 08:58	05/22/24 06:11	1
Total HxCDD	2.0	J I B	48	0.21	pg/L		04/29/24 08:58	05/22/24 06:11	1
1,2,3,4,6,7,8-HpCDD	ND		48	2.3	pg/L		04/29/24 08:58	05/22/24 06:11	1
Total HpCDD	ND		48	2.3	pg/L		04/29/24 08:58	05/22/24 06:11	1
OCDD	17	J B	97	0.19	pg/L		04/29/24 08:58	05/22/24 06:11	1
2,3,7,8-TCDF	ND		9.7	0.21	pg/L		04/29/24 08:58	05/22/24 06:11	1
Total TCDF	0.94	J I B	9.7	0.21	pg/L		04/29/24 08:58	05/22/24 06:11	1
1,2,3,7,8-PeCDF	ND		48	0.53	pg/L		04/29/24 08:58	05/22/24 06:11	1
2,3,4,7,8-PeCDF	ND		48	0.50	pg/L		04/29/24 08:58	05/22/24 06:11	1
Total PeCDF	ND		48	0.53	pg/L		04/29/24 08:58	05/22/24 06:11	1
1,2,3,4,7,8-HxCDF	ND		48	0.63	pg/L		04/29/24 08:58	05/22/24 06:11	1
1,2,3,6,7,8-HxCDF	ND		48	0.68	pg/L		04/29/24 08:58	05/22/24 06:11	1
2,3,4,6,7,8-HxCDF	ND		48	0.69	pg/L		04/29/24 08:58	05/22/24 06:11	1
1,2,3,7,8,9-HxCDF	ND		48	0.78	pg/L		04/29/24 08:58	05/22/24 06:11	1
Total HxCDF	ND		48	0.78	pg/L		04/29/24 08:58	05/22/24 06:11	1
1,2,3,4,6,7,8-HpCDF	ND		48	0.40	pg/L		04/29/24 08:58	05/22/24 06:11	1
1,2,3,4,7,8,9-HpCDF	ND		48	0.56	pg/L		04/29/24 08:58	05/22/24 06:11	1
Total HpCDF	ND		48	1.3	pg/L		04/29/24 08:58	05/22/24 06:11	1
OCDF	1.5	J I B	97	0.28	pg/L		04/29/24 08:58	05/22/24 06:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	70		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-1,2,3,7,8-PeCDD	67		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-1,2,3,4,7,8-HxCDD	69		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-1,2,3,6,7,8-HxCDD	78		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-1,2,3,4,6,7,8-HpCDD	72		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-OCDD	70		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-2,3,7,8-TCDF	72		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-1,2,3,7,8-PeCDF	73		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-2,3,4,7,8-PeCDF	70		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-1,2,3,4,7,8-HxCDF	77		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-1,2,3,6,7,8-HxCDF	73		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-2,3,4,6,7,8-HxCDF	74		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-1,2,3,7,8,9-HxCDF	79		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-1,2,3,4,6,7,8-HpCDF	72		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-1,2,3,4,7,8,9-HpCDF	71		40 - 135	04/29/24 08:58	05/22/24 06:11	1
13C-OCDF	61		40 - 135	04/29/24 08:58	05/22/24 06:11	1

Client Sample ID: SUPE-W-30C-042424

Lab Sample ID: 180-172990-8

Date Collected: 04/24/24 14:14

Matrix: Water

Date Received: 04/25/24 09:15

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	0.17	pg/L		04/29/24 08:58	05/22/24 07:11	1
Total TCDD	1.3	J I B	9.6	0.17	pg/L		04/29/24 08:58	05/22/24 07:11	1
1,2,3,7,8-PeCDD	ND		48	0.18	pg/L		04/29/24 08:58	05/22/24 07:11	1
Total PeCDD	1.6	J I B	48	0.18	pg/L		04/29/24 08:58	05/22/24 07:11	1
1,2,3,4,7,8-HxCDD	1.1	J I B	48	0.17	pg/L		04/29/24 08:58	05/22/24 07:11	1
1,2,3,6,7,8-HxCDD	1.9	J	48	0.16	pg/L		04/29/24 08:58	05/22/24 07:11	1

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Client Sample Results

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

Job ID: 180-172990-2

Client Sample ID: SUPE-W-30C-042424

Lab Sample ID: 180-172990-8

Date Collected: 04/24/24 14:14

Matrix: Water

Date Received: 04/25/24 09:15

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	1.0	J I	48	0.16	pg/L		04/29/24 08:58	05/22/24 07:11	1
Total HxCDD	14	J I B	48	0.16	pg/L		04/29/24 08:58	05/22/24 07:11	1
1,2,3,4,6,7,8-HpCDD	55		48	1.3	pg/L		04/29/24 08:58	05/22/24 07:11	1
Total HpCDD	98		48	1.3	pg/L		04/29/24 08:58	05/22/24 07:11	1
OCDD	350	B	96	0.26	pg/L		04/29/24 08:58	05/22/24 07:11	1
2,3,7,8-TCDF	0.32	J	9.6	0.28	pg/L		04/29/24 08:58	05/22/24 07:11	1
Total TCDF	140	I B	9.6	0.28	pg/L		04/29/24 08:58	05/22/24 07:11	1
1,2,3,7,8-PeCDF	ND		48	0.22	pg/L		04/29/24 08:58	05/22/24 07:11	1
2,3,4,7,8-PeCDF	ND		48	0.21	pg/L		04/29/24 08:58	05/22/24 07:11	1
Total PeCDF	160	I	48	0.21	pg/L		04/29/24 08:58	05/22/24 07:11	1
1,2,3,4,7,8-HxCDF	ND		48	1.7	pg/L		04/29/24 08:58	05/22/24 07:11	1
1,2,3,6,7,8-HxCDF	ND		48	1.8	pg/L		04/29/24 08:58	05/22/24 07:11	1
2,3,4,6,7,8-HxCDF	ND		48	1.9	pg/L		04/29/24 08:58	05/22/24 07:11	1
1,2,3,7,8,9-HxCDF	ND		48	2.1	pg/L		04/29/24 08:58	05/22/24 07:11	1
Total HxCDF	48	I B	48	1.9	pg/L		04/29/24 08:58	05/22/24 07:11	1
1,2,3,4,6,7,8-HpCDF	12	J	48	0.42	pg/L		04/29/24 08:58	05/22/24 07:11	1
1,2,3,4,7,8,9-HpCDF	2.2	J	48	0.58	pg/L		04/29/24 08:58	05/22/24 07:11	1
Total HpCDF	45	J	48	0.50	pg/L		04/29/24 08:58	05/22/24 07:11	1
OCDF	38	J B	96	0.26	pg/L		04/29/24 08:58	05/22/24 07:11	1

Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	65		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-1,2,3,7,8-PeCDD	58		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-1,2,3,4,7,8-HxCDD	68		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-1,2,3,6,7,8-HxCDD	77		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-1,2,3,4,6,7,8-HpCDD	72		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-OCDD	69		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-2,3,7,8-TCDF	64		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-1,2,3,7,8-PeCDF	63		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-2,3,4,7,8-PeCDF	61		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-1,2,3,4,7,8-HxCDF	78		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-1,2,3,6,7,8-HxCDF	71		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-2,3,4,6,7,8-HxCDF	75		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-1,2,3,7,8,9-HxCDF	77		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-1,2,3,4,6,7,8-HpCDF	72		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-1,2,3,4,7,8,9-HpCDF	71		40 - 135				04/29/24 08:58	05/22/24 07:11	1
13C-OCDF	62		40 - 135				04/29/24 08:58	05/22/24 07:11	1

Client Sample ID: SUPE-M-99A-042424

Lab Sample ID: 180-172990-9

Date Collected: 04/24/24 16:00

Matrix: Water

Date Received: 04/25/24 09:15

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	0.28	pg/L		04/29/24 08:58	05/22/24 08:10	1
Total TCDD	0.89	J I B	9.6	0.28	pg/L		04/29/24 08:58	05/22/24 08:10	1
1,2,3,7,8-PeCDD	ND		48	0.22	pg/L		04/29/24 08:58	05/22/24 08:10	1
Total PeCDD	2.9	J I B	48	0.22	pg/L		04/29/24 08:58	05/22/24 08:10	1
1,2,3,4,7,8-HxCDD	1.6	J B	48	0.20	pg/L		04/29/24 08:58	05/22/24 08:10	1
1,2,3,6,7,8-HxCDD	5.0	J	48	0.18	pg/L		04/29/24 08:58	05/22/24 08:10	1
1,2,3,7,8,9-HxCDD	2.2	J	48	0.18	pg/L		04/29/24 08:58	05/22/24 08:10	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-172990-2

Client Sample ID: SUPE-M-99A-042424

Lab Sample ID: 180-172990-9

Date Collected: 04/24/24 16:00

Matrix: Water

Date Received: 04/25/24 09:15

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total HxCDD	33	J I B	48	0.19	pg/L		04/29/24 08:58	05/22/24 08:10	1
1,2,3,4,6,7,8-HpCDD	150		48	1.5	pg/L		04/29/24 08:58	05/22/24 08:10	1
Total HpCDD	260		48	1.5	pg/L		04/29/24 08:58	05/22/24 08:10	1
OCDD	740	B	96	0.24	pg/L		04/29/24 08:58	05/22/24 08:10	1
2,3,7,8-TCDF	0.59	J I	9.6	0.48	pg/L		04/29/24 08:58	05/22/24 08:10	1
Total TCDF	370	I B	9.6	0.48	pg/L		04/29/24 08:58	05/22/24 08:10	1
1,2,3,7,8-PeCDF	ND		48	0.52	pg/L		04/29/24 08:58	05/22/24 08:10	1
2,3,4,7,8-PeCDF	ND		48	0.48	pg/L		04/29/24 08:58	05/22/24 08:10	1
Total PeCDF	350	I	48	0.50	pg/L		04/29/24 08:58	05/22/24 08:10	1
1,2,3,4,7,8-HxCDF	5.1	J I B	48	1.5	pg/L		04/29/24 08:58	05/22/24 08:10	1
1,2,3,6,7,8-HxCDF	8.9	J I	48	1.6	pg/L		04/29/24 08:58	05/22/24 08:10	1
2,3,4,6,7,8-HxCDF	ND		48	1.8	pg/L		04/29/24 08:58	05/22/24 08:10	1
1,2,3,7,8,9-HxCDF	ND		48	2.0	pg/L		04/29/24 08:58	05/22/24 08:10	1
Total HxCDF	120	I B	48	1.7	pg/L		04/29/24 08:58	05/22/24 08:10	1
1,2,3,4,6,7,8-HpCDF	27	J	48	0.73	pg/L		04/29/24 08:58	05/22/24 08:10	1
1,2,3,4,7,8,9-HpCDF	6.3	J	48	0.97	pg/L		04/29/24 08:58	05/22/24 08:10	1
Total HpCDF	110		48	0.85	pg/L		04/29/24 08:58	05/22/24 08:10	1
OCDF	93	J B	96	0.13	pg/L		04/29/24 08:58	05/22/24 08:10	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	64		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-1,2,3,7,8-PeCDD	58		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-1,2,3,4,7,8-HxCDD	66		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-1,2,3,6,7,8-HxCDD	75		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-1,2,3,4,6,7,8-HpCDD	70		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-OCDD	67		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-2,3,7,8-TCDF	64		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-1,2,3,7,8-PeCDF	63		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-2,3,4,7,8-PeCDF	61		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-1,2,3,4,7,8-HxCDF	76		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-1,2,3,6,7,8-HxCDF	71		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-2,3,4,6,7,8-HxCDF	73		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-1,2,3,7,8,9-HxCDF	76		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-1,2,3,4,6,7,8-HpCDF	69		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-1,2,3,4,7,8,9-HpCDF	69		40 - 135				04/29/24 08:58	05/22/24 08:10	1
13C-OCDF	58		40 - 135				04/29/24 08:58	05/22/24 08:10	1

QC Sample Results

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

Job ID: 180-172990-2

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

Lab Sample ID: MB 140-86096/10-A
Matrix: Water
Analysis Batch: 86873

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86096

Analyte	MB	MB	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	ND		10	0.20	pg/L		04/29/24 08:58	05/21/24 18:49	1
Total TCDD	0.394	J I	10	0.20	pg/L		04/29/24 08:58	05/21/24 18:49	1
1,2,3,7,8-PeCDD	0.264	J I	50	0.17	pg/L		04/29/24 08:58	05/21/24 18:49	1
Total PeCDD	1.14	J I	50	0.17	pg/L		04/29/24 08:58	05/21/24 18:49	1
1,2,3,4,7,8-HxCDD	1.99	J I	50	0.46	pg/L		04/29/24 08:58	05/21/24 18:49	1
1,2,3,6,7,8-HxCDD	ND		50	0.44	pg/L		04/29/24 08:58	05/21/24 18:49	1
1,2,3,7,8,9-HxCDD	ND		50	0.43	pg/L		04/29/24 08:58	05/21/24 18:49	1
Total HxCDD	1.99	J I	50	0.44	pg/L		04/29/24 08:58	05/21/24 18:49	1
1,2,3,4,6,7,8-HpCDD	ND		50	0.24	pg/L		04/29/24 08:58	05/21/24 18:49	1
Total HpCDD	ND		50	0.24	pg/L		04/29/24 08:58	05/21/24 18:49	1
OCDD	0.981	J I	100	0.28	pg/L		04/29/24 08:58	05/21/24 18:49	1
2,3,7,8-TCDF	ND		10	0.20	pg/L		04/29/24 08:58	05/21/24 18:49	1
Total TCDF	0.346	J I	10	0.20	pg/L		04/29/24 08:58	05/21/24 18:49	1
1,2,3,7,8-PeCDF	ND		50	0.52	pg/L		04/29/24 08:58	05/21/24 18:49	1
2,3,4,7,8-PeCDF	ND		50	0.45	pg/L		04/29/24 08:58	05/21/24 18:49	1
Total PeCDF	ND		50	0.49	pg/L		04/29/24 08:58	05/21/24 18:49	1
1,2,3,4,7,8-HxCDF	0.672	J I	50	0.57	pg/L		04/29/24 08:58	05/21/24 18:49	1
1,2,3,6,7,8-HxCDF	ND		50	0.62	pg/L		04/29/24 08:58	05/21/24 18:49	1
2,3,4,6,7,8-HxCDF	ND		50	0.63	pg/L		04/29/24 08:58	05/21/24 18:49	1
1,2,3,7,8,9-HxCDF	ND		50	0.72	pg/L		04/29/24 08:58	05/21/24 18:49	1
Total HxCDF	0.672	J I	50	0.63	pg/L		04/29/24 08:58	05/21/24 18:49	1
1,2,3,4,6,7,8-HpCDF	ND		50	0.51	pg/L		04/29/24 08:58	05/21/24 18:49	1
1,2,3,4,7,8,9-HpCDF	ND		50	0.67	pg/L		04/29/24 08:58	05/21/24 18:49	1
Total HpCDF	ND		50	0.67	pg/L		04/29/24 08:58	05/21/24 18:49	1
OCDF	1.01	J I	100	0.19	pg/L		04/29/24 08:58	05/21/24 18:49	1
	MB	MB							
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	66		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-1,2,3,7,8-PeCDD	68		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-1,2,3,4,7,8-HxCDD	71		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-1,2,3,6,7,8-HxCDD	77		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-1,2,3,4,6,7,8-HpCDD	73		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-OCDD	70		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-2,3,7,8-TCDF	72		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-1,2,3,7,8-PeCDF	72		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-2,3,4,7,8-PeCDF	70		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-1,2,3,4,7,8-HxCDF	82		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-1,2,3,6,7,8-HxCDF	76		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-2,3,4,6,7,8-HxCDF	78		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-1,2,3,7,8,9-HxCDF	81		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-1,2,3,4,6,7,8-HpCDF	75		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-1,2,3,4,7,8,9-HpCDF	71		40 - 135				04/29/24 08:58	05/21/24 18:49	1
13C-OCDF	60		40 - 135				04/29/24 08:58	05/21/24 18:49	1

QC Sample Results

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

Job ID: 180-172990-2

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

Lab Sample ID: LCS 140-86096/9-A
Matrix: Water
Analysis Batch: 86873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 86096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDD	200	208		pg/L		104	77 - 127
1,2,3,7,8-PeCDD	1000	1070		pg/L		107	78 - 128
1,2,3,4,7,8-HxCDD	1000	1130		pg/L		113	73 - 123
1,2,3,6,7,8-HxCDD	1000	979		pg/L		98	72 - 127
1,2,3,7,8,9-HxCDD	1000	1140		pg/L		114	76 - 126
1,2,3,4,6,7,8-HpCDD	1000	1030		pg/L		103	73 - 123
OCDD	2000	2040		pg/L		102	75 - 125
2,3,7,8-TCDF	200	198		pg/L		99	74 - 124
1,2,3,7,8-PeCDF	1000	1100		pg/L		110	74 - 124
2,3,4,7,8-PeCDF	1000	1130		pg/L		113	74 - 124
1,2,3,4,7,8-HxCDF	1000	931		pg/L		93	75 - 125
1,2,3,6,7,8-HxCDF	1000	1000		pg/L		100	75 - 125
2,3,4,6,7,8-HxCDF	1000	1010		pg/L		101	76 - 126
1,2,3,7,8,9-HxCDF	1000	969		pg/L		97	76 - 126
1,2,3,4,6,7,8-HpCDF	1000	977		pg/L		98	71 - 121
1,2,3,4,7,8,9-HpCDF	1000	1030		pg/L		103	73 - 123
OCDF	2000	2160		pg/L		108	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	59		40 - 135
13C-1,2,3,4,7,8-HxCDD	68		40 - 135
13C-1,2,3,6,7,8-HxCDD	78		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	74		40 - 135
13C-OCDD	73		40 - 135
13C-2,3,7,8-TCDF	67		40 - 135
13C-1,2,3,7,8-PeCDF	63		40 - 135
13C-2,3,4,7,8-PeCDF	61		40 - 135
13C-1,2,3,4,7,8-HxCDF	79		40 - 135
13C-1,2,3,6,7,8-HxCDF	72		40 - 135
13C-2,3,4,6,7,8-HxCDF	76		40 - 135
13C-1,2,3,7,8,9-HxCDF	80		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	74		40 - 135
13C-1,2,3,4,7,8,9-HpCDF	72		40 - 135
13C-OCDF	61		40 - 135

QC Association Summary

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

Job ID: 180-172990-2

Specialty Organics

Prep Batch: 86096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-172990-1	SUPE-W-28C-042424	Total/NA	Water	8290	
180-172990-2	SUPE-W-04AR2-042424	Total/NA	Water	8290	
180-172990-3	SUPE-FB-1-042424	Total/NA	Water	8290	
180-172990-5	SUPE-W-06A-042424	Total/NA	Water	8290	
180-172990-6	SUPE-W-30A-042424	Total/NA	Water	8290	
180-172990-7	SUPE-W-12CR-042424	Total/NA	Water	8290	
180-172990-8	SUPE-W-30C-042424	Total/NA	Water	8290	
180-172990-9	SUPE-M-99A-042424	Total/NA	Water	8290	
MB 140-86096/10-A	Method Blank	Total/NA	Water	8290	
LCS 140-86096/9-A	Lab Control Sample	Total/NA	Water	8290	

Analysis Batch: 86873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-172990-1	SUPE-W-28C-042424	Total/NA	Water	8290A	86096
180-172990-2	SUPE-W-04AR2-042424	Total/NA	Water	8290A	86096
180-172990-3	SUPE-FB-1-042424	Total/NA	Water	8290A	86096
MB 140-86096/10-A	Method Blank	Total/NA	Water	8290A	86096
LCS 140-86096/9-A	Lab Control Sample	Total/NA	Water	8290A	86096

Analysis Batch: 86913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-172990-5	SUPE-W-06A-042424	Total/NA	Water	8290A	86096
180-172990-6	SUPE-W-30A-042424	Total/NA	Water	8290A	86096
180-172990-7	SUPE-W-12CR-042424	Total/NA	Water	8290A	86096
180-172990-8	SUPE-W-30C-042424	Total/NA	Water	8290A	86096
180-172990-9	SUPE-M-99A-042424	Total/NA	Water	8290A	86096



CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502146



Ref 210311

Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET KNOX
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis													Notes		
				8290_Dioxins/Furans (Knoxville) (1L)															
				Preservative	None														
				Total Bottle Count															
04/24/2024	0940	GW	SUPE-W-28C-042424	2	2														
04/24/2024	1155	GW	SUPE-W-04AR2-042424	2	2														
04/24/2024	1155	GW	SUPE-FB-1-042424	2	2														
04/24/2024	1438	GW	SUPE-TB-1-042424	0	0														
04/24/2024	1438	GW	SUPE-W-06A-042424	2	2														



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Carter Auch	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EET KNOX	Firm:	Firm:	
Date/Time: 04/24/2024 1550	Date/Time: 4/25/24 1015	Date/Time:	Date/Time:	





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502082



Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET BUF
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis																	Notes:		
				8260C_VOA+naphtha (Buffalo)																			
				Preservative	HCL																		
				Total Bottle Count																			
04/24/2024	1233	GW	SUPE-W-30A-042424		3	3																	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Rianna Soltis	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EPT/MS	Firm:	Firm:	
Date/Time: 04/24/2024 1551	Date/Time: 4/25/24 0915	Date/Time:	Date/Time:	

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5/22/2024





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502084

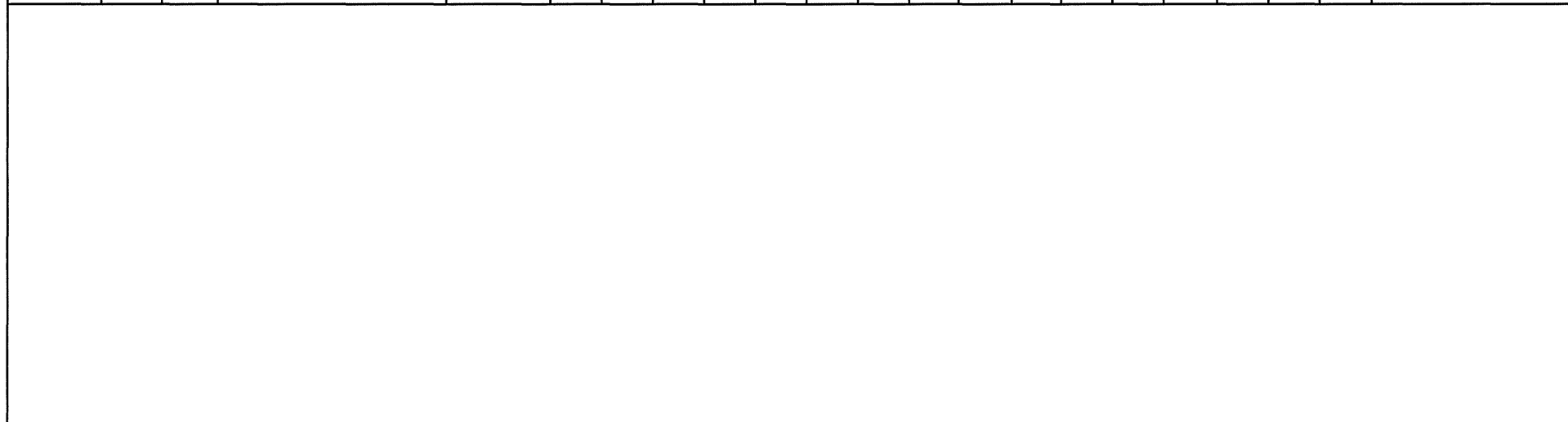


Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET PIT
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8270D_SVOC (less naphtha) (Chicago)															Notes:							
						Preservative																					
				Total Bottle Count																							
04/24/2024	1233	GW	SUPE-W-30A-042424	2	2																						



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	
Printed Name: Rianna Soltis	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm FTS	Firm EP.HVE	Firm:	Firm:	
Date/Time: 04/24/2024 1551	Date/Time: 4/25/24 0915	Date/Time:	Date/Time:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502083



Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET KNOX
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8290_Dioxins/Furans (Knoxville) (1L)																		
				Preservative																			
				Total Bottle Count																	Notes:		
04/24/2024	1233	GW	SUPE-W-30A-042424	2	2																		

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
 Signature: Rianna Soltis Printed Name: Rianna Soltis Firm: FTS Date/Time: 04/24/2024 1551	 Signature: Rachel Oster Printed Name: Rachel Oster Firm: EP. #112 Date/Time: 4/25/2024 0915	Signature: Printed Name: Firm: Date/Time:	Signature: Printed Name: Firm: Date/Time:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard

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5/22/2024





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502147



Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET PIT
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8270D_SVOC (less naphtha) (Chicago)	8270D_SVOC+naphtha (Chicago) (250ml)													Notes:							
							Preservative	None	None																	
				Total Bottle Count																						
04/24/2024	0940	GW	SUPE-W-28C-042424	2	2	0																				
04/24/2024	1155	GW	SUPE-FB-1-042424	2	2	0																				
04/24/2024	1155	GW	SUPE-W-04AR2-042424	2	2	0																				
04/24/2024	1330	GW	SUPE-W-18D-042424	2	0	2																				
04/24/2024	1438	GW	SUPE-W-06A-042424	2	2	0																				
04/24/2024	1438	GW	SUPE-TB-1-042424	0	0	0																				

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Carter Auch	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EPTMS	Firm:	Firm:	
Date/Time: 04/24/2024 1551	Date/Time: 4/25/24 0915	Date/Time:	Date/Time:	

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5/22/2024





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502148

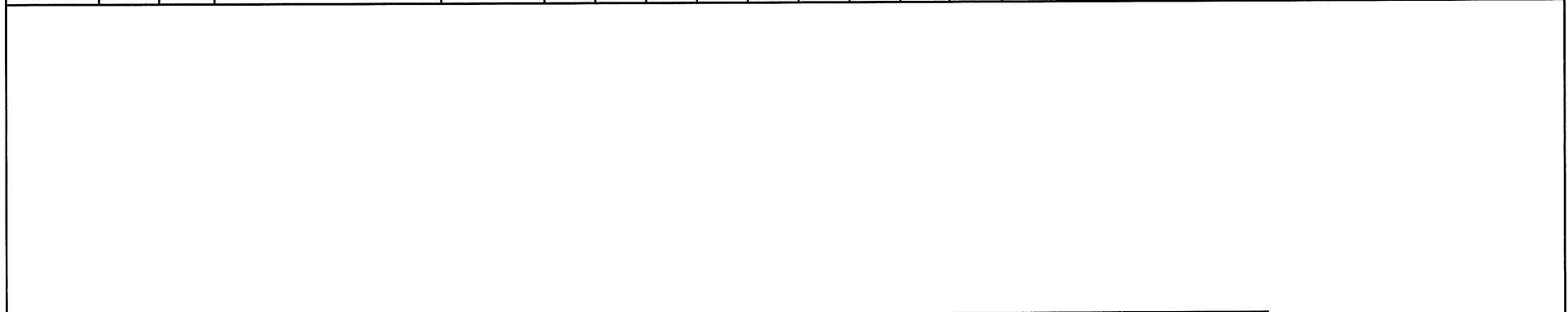


Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET BUF
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8260C_VOA+naphtha (Buffalo)																	Notes:
						Preservative	HCL															
				Total Bottle Count																		
04/24/2024	0940	GW	SUPE-W-28C-042424	3	3																	
04/24/2024	1155	GW	SUPE-W-04AR2-042424	3	3																	
04/24/2024	1155	GW	SUPE-FB-1-042424	3	3																	
04/24/2024	1438	GW	SUPE-W-06A-042424	3	3																	
04/24/2024	1438	GW	SUPE-TB-1-042424	3	3																	



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	
Printed Name: Carter Auch	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EET BUF	Firm:	Firm:	
Date/Time: 04/24/2024 1551	Date/Time: 04/24/2024 0915	Date/Time:	Date/Time:	

Rush

Standard





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502141



Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET PIT
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8270D_SVOC (less inaphtha) (Chicago)														Notes:					
						Preservative	Total Bottle Count																	
04/24/2024	1033	GW	SUPE-W-12CR-042424	2	2																			
04/24/2024	1414	GW	SUPE-W-30C-042424	2	2																			
04/24/2024	1600	GW	SUPE-M-99A-042424	2	2																			

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Trevor Lowe	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EPITME	Firm:	Firm:	
Date/Time: 04/24/2024 1604	Date/Time: 4/25/24	Date/Time:	Date/Time:	

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5/22/2024





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502142



Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET BUF
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis																		Notes:
				8260C_VOA+naphtha (Buffalo)																		
				Preservative	HCL																	
				Total Bottle Count																		
04/24/2024	1033	GW	SUPE-W-12CR-042424	3	3																	
04/24/2024	1414	GW	SUPE-W-30C-042424	3	3																	
04/24/2024	1600	GW	SUPE-M-99A-042424	3	3																	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Trevor Lowe	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EPITMS	Firm:	Firm:	
Date/Time: 04/24/2024 1605	Date/Time: 4/25/24 0915	Date/Time:	Date/Time:	

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Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502143



Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET KNOX
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8290_Dioxins/Furans (Knoxville) (1L)													Notes:												
						Preservative	None																							
				Total Bottle Count													Notes:													
04/24/2024	1033	GW	SUPE-W-12CR-042424	2	2																									
04/24/2024	1414	GW	SUPE-W-30C-042424	2	2																									
04/24/2024	1600	GW	SUPE-M-99A-042424	2	2																									

(Large empty area for notes)

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
<i>(Signature)</i>	Signature: <i>(Signature)</i>	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Trevor Lowe	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EPH/MS	Firm:	Firm:	
Date/Time: 04/24/2024 1605	Date/Time: 4/25/24 0915	Date/Time:	Date/Time:	



URN

Date: 09APR24
Wgt: 20.00 LBS
DV: 0.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Sves: PRIORITY OVERNIGHT Master 7224 1464 6250
TRCK: 7224 1464 6250

RT **198** 1 10:30 **A**
FZ **197** 6250
04.25

Part # 159469-434 NTW EXP 01/25

ORIGIN ID: AGCA (218) 591-0409
STEVEN WILLIS
KOPPERS INC RAILROAD PRODUCTS & SER
3185 SOUTH COUNRTY ROAD A
SUPERIOR, WI 54880
UNITED STATES US

SHIP DATE: 09APR24
ACTWGT: 20.00 LB MAN
CAD: 0522321/CAFE3755

TO **SAMPLE RECEIVING DEPARTMENT**
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7630
REF: RETURN

RMA: ||| ||| |||

Uncorrected temp 48 20
Thermometer ID

CF 0.2 Initials RD

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

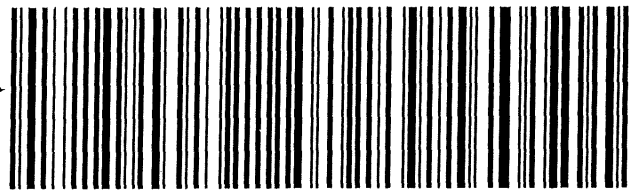


FedEx
TRK# 7224 1464 6250
0221

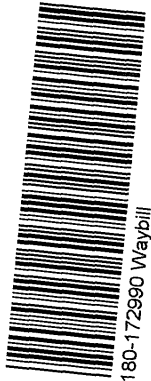
THU - 25 APR 10:30A
PRIORITY OVERNIGHT

XS AGCA

15238
PA-US PIT



5582694 04/24 583J6/0FEC/9AE3



10
11
12
13

Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-172990-2

Login Number: 172990

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

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



ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/7/2024 7:07:51 AM

JOB DESCRIPTION

Superior, WI Semiannual Groundwater

JOB NUMBER

180-173098-1

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
5/7/2024 7:07:51 AM

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



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Case Narrative

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

Job ID: 180-173098-1

Job ID: 180-173098-1

Eurofins Pittsburgh

Job Narrative 180-173098-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/26/2024 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-710397 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

GC/MS Semi VOA

Method 8270E_LL: The continuing calibration verification (CCV) associated with batch 180-467554 recovered above the upper control limit for 2-Nitroaniline, Nitrobenzene, N-Nitrosodi-n-propylamine and 2,2'-oxybis[1-chloropropane]. 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 180-467554/3).

Method 8270E_LL: The laboratory control sample (LCS) for preparation batch 180-467117 and analytical batch 180-467554 recovered outside control limits for the following analyte: 2,2'-oxybis[1-chloropropane]. 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-467117 and analytical batch 180-467554 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270E_LL: An incorrect volume of spiking solution was inadvertently added to the matrix spike (MS) and the matrix spike duplicate (MSD) associated with preparation batch 180-467117 and analytical batch 180-467554. 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.

Eurofins Pittsburgh

Definitions/Glossary

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

Job ID: 180-173098-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

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

Job ID: 180-173098-1

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998027800	08-31-24

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998310390	08-31-24

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

Sample Summary

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

Job ID: 180-173098-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-173098-1	SUPE-W-10AR2-042524	Water	04/25/24 10:19	04/26/24 09:10
180-173098-2	SUPE-M-99B-042524	Water	04/25/24 14:00	04/26/24 09:10
180-173098-3	SUPE-W-06C-042524	Water	04/25/24 09:31	04/26/24 09:10
180-173098-4	SUPE-TB-2-042524	Water	04/25/24 09:31	04/26/24 09:10
180-173098-5	SUPE-FB-2-042524	Water	04/25/24 10:56	04/26/24 09:10
180-173098-6	SUPE-W-12A-042524	Water	04/25/24 10:56	04/26/24 09:10

1

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Method Summary

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

Job ID: 180-173098-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
EPA 8270E LL	Semivolatile Organic Compounds (GC/MS)	SW846	EET PIT
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: 180-173098-1

Client Sample ID: SUPE-W-10AR2-042524

Lab Sample ID: 180-173098-1

Date Collected: 04/25/24 10:19

Matrix: Water

Date Received: 04/26/24 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	710122	05/01/24 13:06	ERS	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3520C			260 mL	250 uL	467117	05/01/24 13:56	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467554	05/06/24 12:25	VVP	EET PIT
Instrument ID: CH733										

Client Sample ID: SUPE-M-99B-042524

Lab Sample ID: 180-173098-2

Date Collected: 04/25/24 14:00

Matrix: Water

Date Received: 04/26/24 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	710122	05/01/24 13:31	ERS	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3520C			260 mL	250 uL	467117	05/01/24 13:56	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467554	05/06/24 12:47	VVP	EET PIT
Instrument ID: CH733										

Client Sample ID: SUPE-W-06C-042524

Lab Sample ID: 180-173098-3

Date Collected: 04/25/24 09:31

Matrix: Water

Date Received: 04/26/24 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	710397	05/03/24 08:21	ERS	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3520C			240 mL	250 uL	467117	05/01/24 13:56	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467554	05/06/24 13:09	VVP	EET PIT
Instrument ID: CH733										

Client Sample ID: SUPE-TB-2-042524

Lab Sample ID: 180-173098-4

Date Collected: 04/25/24 09:31

Matrix: Water

Date Received: 04/26/24 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	710140	05/01/24 15:26	ZN	EET BUF
Instrument ID: HP5973S										

Client Sample ID: SUPE-FB-2-042524

Lab Sample ID: 180-173098-5

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 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	710140	05/01/24 15:50	ZN	EET BUF
Instrument ID: HP5973S										
Total/NA	Prep	3520C			240 mL	250 uL	467117	05/01/24 13:57	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467554	05/06/24 14:13	VVP	EET PIT
Instrument ID: CH733										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-173098-1

Client Sample ID: SUPE-W-12A-042524

Lab Sample ID: 180-173098-6

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 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	710140	05/01/24 16:13	ZN	EET BUF
Instrument ID: HP5973S										
Total/NA	Prep	3520C			250 mL	250 uL	467117	05/01/24 13:57	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	467554	05/06/24 14:35	VVP	EET PIT
Instrument ID: CH733										

Laboratory References:

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

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

Analyst References:

Lab: EET BUF

Batch Type: Analysis

ERS = Ray Santillano

ZN = Zachary Nyhart

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: 180-173098-1

Client Sample ID: SUPE-W-10AR2-042524

Lab Sample ID: 180-173098-1

Date Collected: 04/25/24 10:19

Matrix: Water

Date Received: 04/26/24 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			05/01/24 13:06	1
1,2,4-Trimethylbenzene	5.4		1.0	0.75	ug/L			05/01/24 13:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/24 13:06	1
Benzene	13		1.0	0.41	ug/L			05/01/24 13:06	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/24 13:06	1
Ethylbenzene	25		1.0	0.74	ug/L			05/01/24 13:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/24 13:06	1
m-Xylene & p-Xylene	2.3		2.0	0.66	ug/L			05/01/24 13:06	1
Naphthalene	1.2		1.0	0.43	ug/L			05/01/24 13:06	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/24 13:06	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/24 13:06	1
o-Xylene	9.1		1.0	0.76	ug/L			05/01/24 13:06	1
Styrene	ND		1.0	0.73	ug/L			05/01/24 13:06	1
Toluene	1.5		1.0	0.51	ug/L			05/01/24 13:06	1
Xylenes, Total	11		2.0	0.66	ug/L			05/01/24 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120					05/01/24 13:06	1
4-Bromofluorobenzene (Surr)	100		73 - 120					05/01/24 13:06	1
Dibromofluoromethane (Surr)	103		75 - 123					05/01/24 13:06	1
Toluene-d8 (Surr)	102		80 - 120					05/01/24 13:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.96	0.23	ug/L		05/01/24 13:56	05/06/24 12:25	1
1,2-Dichlorobenzene	ND		0.96	0.20	ug/L		05/01/24 13:56	05/06/24 12:25	1
1,3-Dichlorobenzene	ND		0.96	0.21	ug/L		05/01/24 13:56	05/06/24 12:25	1
1,4-Dichlorobenzene	ND		0.96	0.23	ug/L		05/01/24 13:56	05/06/24 12:25	1
1-Methylnaphthalene	8.1		0.18	0.054	ug/L		05/01/24 13:56	05/06/24 12:25	1
2,3,4,6-Tetrachlorophenol	ND		0.96	0.31	ug/L		05/01/24 13:56	05/06/24 12:25	1
2,3,5,6-Tetrachlorophenol	ND		0.96	0.49	ug/L		05/01/24 13:56	05/06/24 12:25	1
2,4,5-Trichlorophenol	ND		0.96	0.24	ug/L		05/01/24 13:56	05/06/24 12:25	1
2,4,6-Trichlorophenol	ND		0.96	0.22	ug/L		05/01/24 13:56	05/06/24 12:25	1
2,4-Dichlorophenol	ND		0.18	0.049	ug/L		05/01/24 13:56	05/06/24 12:25	1
2,4-Dimethylphenol	ND		0.96	0.56	ug/L		05/01/24 13:56	05/06/24 12:25	1
2,4-Dinitrophenol	ND		9.6	3.1	ug/L		05/01/24 13:56	05/06/24 12:25	1
2,4-Dinitrotoluene	ND		0.96	0.34	ug/L		05/01/24 13:56	05/06/24 12:25	1
2,6-Dinitrotoluene	ND		0.96	0.17	ug/L		05/01/24 13:56	05/06/24 12:25	1
2-Chloronaphthalene	ND		0.18	0.057	ug/L		05/01/24 13:56	05/06/24 12:25	1
2-Chlorophenol	ND		0.96	0.22	ug/L		05/01/24 13:56	05/06/24 12:25	1
2-Methylnaphthalene	ND		0.18	0.060	ug/L		05/01/24 13:56	05/06/24 12:25	1
2-Methylphenol	ND		0.96	0.54	ug/L		05/01/24 13:56	05/06/24 12:25	1
2-Nitroaniline	ND		4.8	0.53	ug/L		05/01/24 13:56	05/06/24 12:25	1
2-Nitrophenol	ND		0.96	0.19	ug/L		05/01/24 13:56	05/06/24 12:25	1
3,3'-Dichlorobenzidine	ND		0.96	0.56	ug/L		05/01/24 13:56	05/06/24 12:25	1
3-Nitroaniline	ND		4.8	0.42	ug/L		05/01/24 13:56	05/06/24 12:25	1
4,6-Dinitro-2-methylphenol	ND		4.8	1.4	ug/L		05/01/24 13:56	05/06/24 12:25	1
4-Bromophenyl phenyl ether	ND		0.96	0.31	ug/L		05/01/24 13:56	05/06/24 12:25	1
4-Chloro-3-methylphenol	ND		0.96	0.42	ug/L		05/01/24 13:56	05/06/24 12:25	1
4-Chloroaniline	ND		0.96	0.36	ug/L		05/01/24 13:56	05/06/24 12:25	1

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Client Sample Results

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

Job ID: 180-173098-1

Client Sample ID: SUPE-W-10AR2-042524

Lab Sample ID: 180-173098-1

Date Collected: 04/25/24 10:19

Matrix: Water

Date Received: 04/26/24 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-Chlorophenyl phenyl ether	ND		0.96	0.21	ug/L		05/01/24 13:56	05/06/24 12:25	1
4-Nitroaniline	ND		4.8	0.35	ug/L		05/01/24 13:56	05/06/24 12:25	1
4-Nitrophenol	ND		4.8	0.90	ug/L		05/01/24 13:56	05/06/24 12:25	1
Acenaphthene	35		0.18	0.063	ug/L		05/01/24 13:56	05/06/24 12:25	1
Acenaphthylene	0.72		0.18	0.063	ug/L		05/01/24 13:56	05/06/24 12:25	1
Anthracene	0.37		0.18	0.047	ug/L		05/01/24 13:56	05/06/24 12:25	1
Benzo[a]anthracene	ND		0.18	0.072	ug/L		05/01/24 13:56	05/06/24 12:25	1
Benzo[a]pyrene	ND		0.18	0.051	ug/L		05/01/24 13:56	05/06/24 12:25	1
Benzo[b]fluoranthene	ND		0.18	0.093	ug/L		05/01/24 13:56	05/06/24 12:25	1
Benzo[g,h,i]perylene	ND		0.18	0.066	ug/L		05/01/24 13:56	05/06/24 12:25	1
Benzo[k]fluoranthene	ND		0.18	0.085	ug/L		05/01/24 13:56	05/06/24 12:25	1
Benzoic acid	ND		4.8	2.4	ug/L		05/01/24 13:56	05/06/24 12:25	1
Benzyl alcohol	ND		4.8	1.6	ug/L		05/01/24 13:56	05/06/24 12:25	1
Bis(2-chloroethoxy)methane	ND		0.96	0.15	ug/L		05/01/24 13:56	05/06/24 12:25	1
Bis(2-chloroethyl)ether	ND		0.18	0.038	ug/L		05/01/24 13:56	05/06/24 12:25	1
Bis(2-ethylhexyl) phthalate	ND		9.6	6.0	ug/L		05/01/24 13:56	05/06/24 12:25	1
bis(chloroisopropyl) ether	ND	*+	0.18	0.056	ug/L		05/01/24 13:56	05/06/24 12:25	1
Butyl benzyl phthalate	ND		1.9	0.90	ug/L		05/01/24 13:56	05/06/24 12:25	1
Chrysene	ND		0.18	0.078	ug/L		05/01/24 13:56	05/06/24 12:25	1
Dibenz(a,h)anthracene	ND		0.18	0.069	ug/L		05/01/24 13:56	05/06/24 12:25	1
Dibenzofuran	9.3		0.96	0.18	ug/L		05/01/24 13:56	05/06/24 12:25	1
Diethyl phthalate	ND		0.96	0.55	ug/L		05/01/24 13:56	05/06/24 12:25	1
Dimethyl phthalate	3.1		1.9	0.19	ug/L		05/01/24 13:56	05/06/24 12:25	1
Di-n-butyl phthalate	ND		9.6	4.7	ug/L		05/01/24 13:56	05/06/24 12:25	1
Di-n-octyl phthalate	ND		0.96	0.66	ug/L		05/01/24 13:56	05/06/24 12:25	1
Fluoranthene	0.79		0.18	0.058	ug/L		05/01/24 13:56	05/06/24 12:25	1
Fluorene	8.8		0.18	0.066	ug/L		05/01/24 13:56	05/06/24 12:25	1
Hexachlorobenzene	ND		0.18	0.054	ug/L		05/01/24 13:56	05/06/24 12:25	1
Hexachlorobutadiene	ND		0.18	0.066	ug/L		05/01/24 13:56	05/06/24 12:25	1
Hexachlorocyclopentadiene	ND		0.96	0.48	ug/L		05/01/24 13:56	05/06/24 12:25	1
Hexachloroethane	ND		0.96	0.13	ug/L		05/01/24 13:56	05/06/24 12:25	1
Indeno[1,2,3-cd]pyrene	ND		0.18	0.082	ug/L		05/01/24 13:56	05/06/24 12:25	1
Isophorone	ND		0.96	0.18	ug/L		05/01/24 13:56	05/06/24 12:25	1
Methylphenol, 3 & 4	ND		0.96	0.36	ug/L		05/01/24 13:56	05/06/24 12:25	1
Nitrobenzene	ND		1.9	0.48	ug/L		05/01/24 13:56	05/06/24 12:25	1
N-Nitrosodi-n-propylamine	ND		0.18	0.068	ug/L		05/01/24 13:56	05/06/24 12:25	1
N-Nitrosodiphenylamine	ND		0.96	0.11	ug/L		05/01/24 13:56	05/06/24 12:25	1
Pentachlorophenol	ND		0.96	0.81	ug/L		05/01/24 13:56	05/06/24 12:25	1
Phenanthrene	1.1		0.18	0.15	ug/L		05/01/24 13:56	05/06/24 12:25	1
Phenol	0.52 J		0.96	0.47	ug/L		05/01/24 13:56	05/06/24 12:25	1
Pyrene	0.57		0.18	0.052	ug/L		05/01/24 13:56	05/06/24 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		23 - 128	05/01/24 13:56	05/06/24 12:25	1
2-Fluorobiphenyl	66		20 - 105	05/01/24 13:56	05/06/24 12:25	1
2-Fluorophenol (Surr)	73		20 - 105	05/01/24 13:56	05/06/24 12:25	1
Nitrobenzene-d5 (Surr)	86		20 - 107	05/01/24 13:56	05/06/24 12:25	1
Phenol-d5 (Surr)	73		20 - 106	05/01/24 13:56	05/06/24 12:25	1
Terphenyl-d14 (Surr)	70		22 - 120	05/01/24 13:56	05/06/24 12:25	1

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Client Sample Results

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

Job ID: 180-173098-1

Client Sample ID: SUPE-M-99B-042524

Lab Sample ID: 180-173098-2

Date Collected: 04/25/24 14:00

Matrix: Water

Date Received: 04/26/24 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			05/01/24 13:31	1
1,2,4-Trimethylbenzene	5.1		1.0	0.75	ug/L			05/01/24 13:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/24 13:31	1
Benzene	13		1.0	0.41	ug/L			05/01/24 13:31	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/24 13:31	1
Ethylbenzene	26		1.0	0.74	ug/L			05/01/24 13:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/24 13:31	1
m-Xylene & p-Xylene	2.4		2.0	0.66	ug/L			05/01/24 13:31	1
Naphthalene	1.2		1.0	0.43	ug/L			05/01/24 13:31	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/24 13:31	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/24 13:31	1
o-Xylene	9.0		1.0	0.76	ug/L			05/01/24 13:31	1
Styrene	ND		1.0	0.73	ug/L			05/01/24 13:31	1
Toluene	1.4		1.0	0.51	ug/L			05/01/24 13:31	1
Xylenes, Total	11		2.0	0.66	ug/L			05/01/24 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120					05/01/24 13:31	1
4-Bromofluorobenzene (Surr)	108		73 - 120					05/01/24 13:31	1
Dibromofluoromethane (Surr)	107		75 - 123					05/01/24 13:31	1
Toluene-d8 (Surr)	106		80 - 120					05/01/24 13:31	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		0.96	0.23	ug/L		05/01/24 13:56	05/06/24 12:47	1
1,2-Dichlorobenzene	ND		0.96	0.20	ug/L		05/01/24 13:56	05/06/24 12:47	1
1,3-Dichlorobenzene	ND		0.96	0.21	ug/L		05/01/24 13:56	05/06/24 12:47	1
1,4-Dichlorobenzene	ND		0.96	0.23	ug/L		05/01/24 13:56	05/06/24 12:47	1
1-Methylnaphthalene	2.1		0.18	0.054	ug/L		05/01/24 13:56	05/06/24 12:47	1
2,3,4,6-Tetrachlorophenol	ND		0.96	0.31	ug/L		05/01/24 13:56	05/06/24 12:47	1
2,3,5,6-Tetrachlorophenol	ND		0.96	0.49	ug/L		05/01/24 13:56	05/06/24 12:47	1
2,4,5-Trichlorophenol	ND		0.96	0.24	ug/L		05/01/24 13:56	05/06/24 12:47	1
2,4,6-Trichlorophenol	ND		0.96	0.22	ug/L		05/01/24 13:56	05/06/24 12:47	1
2,4-Dichlorophenol	ND		0.18	0.049	ug/L		05/01/24 13:56	05/06/24 12:47	1
2,4-Dimethylphenol	ND		0.96	0.56	ug/L		05/01/24 13:56	05/06/24 12:47	1
2,4-Dinitrophenol	ND		9.6	3.1	ug/L		05/01/24 13:56	05/06/24 12:47	1
2,4-Dinitrotoluene	ND		0.96	0.34	ug/L		05/01/24 13:56	05/06/24 12:47	1
2,6-Dinitrotoluene	ND		0.96	0.17	ug/L		05/01/24 13:56	05/06/24 12:47	1
2-Chloronaphthalene	ND		0.18	0.057	ug/L		05/01/24 13:56	05/06/24 12:47	1
2-Chlorophenol	ND		0.96	0.22	ug/L		05/01/24 13:56	05/06/24 12:47	1
2-Methylnaphthalene	ND		0.18	0.060	ug/L		05/01/24 13:56	05/06/24 12:47	1
2-Methylphenol	ND		0.96	0.54	ug/L		05/01/24 13:56	05/06/24 12:47	1
2-Nitroaniline	ND		4.8	0.53	ug/L		05/01/24 13:56	05/06/24 12:47	1
2-Nitrophenol	ND		0.96	0.19	ug/L		05/01/24 13:56	05/06/24 12:47	1
3,3'-Dichlorobenzidine	ND		0.96	0.56	ug/L		05/01/24 13:56	05/06/24 12:47	1
3-Nitroaniline	ND		4.8	0.42	ug/L		05/01/24 13:56	05/06/24 12:47	1
4,6-Dinitro-2-methylphenol	ND		4.8	1.4	ug/L		05/01/24 13:56	05/06/24 12:47	1
4-Bromophenyl phenyl ether	ND		0.96	0.31	ug/L		05/01/24 13:56	05/06/24 12:47	1
4-Chloro-3-methylphenol	ND		0.96	0.42	ug/L		05/01/24 13:56	05/06/24 12:47	1
4-Chloroaniline	ND		0.96	0.36	ug/L		05/01/24 13:56	05/06/24 12:47	1

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Client Sample Results

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

Job ID: 180-173098-1

Client Sample ID: SUPE-M-99B-042524

Lab Sample ID: 180-173098-2

Date Collected: 04/25/24 14:00

Matrix: Water

Date Received: 04/26/24 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-Chlorophenyl phenyl ether	ND		0.96	0.21	ug/L		05/01/24 13:56	05/06/24 12:47	1
4-Nitroaniline	ND		4.8	0.35	ug/L		05/01/24 13:56	05/06/24 12:47	1
4-Nitrophenol	ND		4.8	0.90	ug/L		05/01/24 13:56	05/06/24 12:47	1
Acenaphthene	10		0.18	0.063	ug/L		05/01/24 13:56	05/06/24 12:47	1
Acenaphthylene	0.20		0.18	0.063	ug/L		05/01/24 13:56	05/06/24 12:47	1
Anthracene	0.071 J		0.18	0.047	ug/L		05/01/24 13:56	05/06/24 12:47	1
Benzo[a]anthracene	ND		0.18	0.072	ug/L		05/01/24 13:56	05/06/24 12:47	1
Benzo[a]pyrene	ND		0.18	0.051	ug/L		05/01/24 13:56	05/06/24 12:47	1
Benzo[b]fluoranthene	ND		0.18	0.093	ug/L		05/01/24 13:56	05/06/24 12:47	1
Benzo[g,h,i]perylene	ND		0.18	0.066	ug/L		05/01/24 13:56	05/06/24 12:47	1
Benzo[k]fluoranthene	ND		0.18	0.085	ug/L		05/01/24 13:56	05/06/24 12:47	1
Benzoic acid	ND		4.8	2.4	ug/L		05/01/24 13:56	05/06/24 12:47	1
Benzyl alcohol	ND		4.8	1.6	ug/L		05/01/24 13:56	05/06/24 12:47	1
Bis(2-chloroethoxy)methane	ND		0.96	0.15	ug/L		05/01/24 13:56	05/06/24 12:47	1
Bis(2-chloroethyl)ether	ND		0.18	0.038	ug/L		05/01/24 13:56	05/06/24 12:47	1
Bis(2-ethylhexyl) phthalate	ND		9.6	6.0	ug/L		05/01/24 13:56	05/06/24 12:47	1
bis(chloroisopropyl) ether	ND	*+	0.18	0.056	ug/L		05/01/24 13:56	05/06/24 12:47	1
Butyl benzyl phthalate	ND		1.9	0.90	ug/L		05/01/24 13:56	05/06/24 12:47	1
Chrysene	ND		0.18	0.078	ug/L		05/01/24 13:56	05/06/24 12:47	1
Dibenz(a,h)anthracene	ND		0.18	0.069	ug/L		05/01/24 13:56	05/06/24 12:47	1
Dibenzofuran	2.4		0.96	0.18	ug/L		05/01/24 13:56	05/06/24 12:47	1
Diethyl phthalate	ND		0.96	0.55	ug/L		05/01/24 13:56	05/06/24 12:47	1
Dimethyl phthalate	0.28 J		1.9	0.19	ug/L		05/01/24 13:56	05/06/24 12:47	1
Di-n-butyl phthalate	ND		9.6	4.7	ug/L		05/01/24 13:56	05/06/24 12:47	1
Di-n-octyl phthalate	ND		0.96	0.66	ug/L		05/01/24 13:56	05/06/24 12:47	1
Fluoranthene	0.21		0.18	0.058	ug/L		05/01/24 13:56	05/06/24 12:47	1
Fluorene	2.3		0.18	0.066	ug/L		05/01/24 13:56	05/06/24 12:47	1
Hexachlorobenzene	ND		0.18	0.054	ug/L		05/01/24 13:56	05/06/24 12:47	1
Hexachlorobutadiene	ND		0.18	0.066	ug/L		05/01/24 13:56	05/06/24 12:47	1
Hexachlorocyclopentadiene	ND		0.96	0.48	ug/L		05/01/24 13:56	05/06/24 12:47	1
Hexachloroethane	ND		0.96	0.13	ug/L		05/01/24 13:56	05/06/24 12:47	1
Indeno[1,2,3-cd]pyrene	ND		0.18	0.082	ug/L		05/01/24 13:56	05/06/24 12:47	1
Isophorone	ND		0.96	0.18	ug/L		05/01/24 13:56	05/06/24 12:47	1
Methylphenol, 3 & 4	ND		0.96	0.36	ug/L		05/01/24 13:56	05/06/24 12:47	1
Nitrobenzene	ND		1.9	0.48	ug/L		05/01/24 13:56	05/06/24 12:47	1
N-Nitrosodi-n-propylamine	ND		0.18	0.068	ug/L		05/01/24 13:56	05/06/24 12:47	1
N-Nitrosodiphenylamine	ND		0.96	0.11	ug/L		05/01/24 13:56	05/06/24 12:47	1
Pentachlorophenol	ND		0.96	0.81	ug/L		05/01/24 13:56	05/06/24 12:47	1
Phenanthrene	ND		0.18	0.15	ug/L		05/01/24 13:56	05/06/24 12:47	1
Phenol	ND		0.96	0.47	ug/L		05/01/24 13:56	05/06/24 12:47	1
Pyrene	0.13 J		0.18	0.052	ug/L		05/01/24 13:56	05/06/24 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	35		23 - 128	05/01/24 13:56	05/06/24 12:47	1
2-Fluorobiphenyl	43		20 - 105	05/01/24 13:56	05/06/24 12:47	1
2-Fluorophenol (Surr)	39		20 - 105	05/01/24 13:56	05/06/24 12:47	1
Nitrobenzene-d5 (Surr)	47		20 - 107	05/01/24 13:56	05/06/24 12:47	1
Phenol-d5 (Surr)	38		20 - 106	05/01/24 13:56	05/06/24 12:47	1
Terphenyl-d14 (Surr)	47		22 - 120	05/01/24 13:56	05/06/24 12:47	1

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Client Sample Results

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

Job ID: 180-173098-1

Client Sample ID: SUPE-W-06C-042524

Lab Sample ID: 180-173098-3

Date Collected: 04/25/24 09:31

Matrix: Water

Date Received: 04/26/24 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			05/03/24 08:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/03/24 08:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/03/24 08:21	1
Benzene	ND		1.0	0.41	ug/L			05/03/24 08:21	1
Chloromethane	ND	F1	1.0	0.35	ug/L			05/03/24 08:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/03/24 08:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/03/24 08:21	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/03/24 08:21	1
Naphthalene	ND		1.0	0.43	ug/L			05/03/24 08:21	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/03/24 08:21	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/03/24 08:21	1
o-Xylene	ND		1.0	0.76	ug/L			05/03/24 08:21	1
Styrene	ND		1.0	0.73	ug/L			05/03/24 08:21	1
Toluene	ND		1.0	0.51	ug/L			05/03/24 08:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/03/24 08:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120					05/03/24 08:21	1
4-Bromofluorobenzene (Surr)	104		73 - 120					05/03/24 08:21	1
Dibromofluoromethane (Surr)	105		75 - 123					05/03/24 08:21	1
Toluene-d8 (Surr)	105		80 - 120					05/03/24 08:21	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	F1	1.0	0.25	ug/L		05/01/24 13:56	05/06/24 13:09	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L		05/01/24 13:56	05/06/24 13:09	1
1,3-Dichlorobenzene	ND		1.0	0.22	ug/L		05/01/24 13:56	05/06/24 13:09	1
1,4-Dichlorobenzene	ND	F1	1.0	0.25	ug/L		05/01/24 13:56	05/06/24 13:09	1
1-Methylnaphthalene	0.089	J	0.20	0.058	ug/L		05/01/24 13:56	05/06/24 13:09	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.34	ug/L		05/01/24 13:56	05/06/24 13:09	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.53	ug/L		05/01/24 13:56	05/06/24 13:09	1
2,4,5-Trichlorophenol	ND		1.0	0.26	ug/L		05/01/24 13:56	05/06/24 13:09	1
2,4,6-Trichlorophenol	ND		1.0	0.23	ug/L		05/01/24 13:56	05/06/24 13:09	1
2,4-Dichlorophenol	ND		0.20	0.053	ug/L		05/01/24 13:56	05/06/24 13:09	1
2,4-Dimethylphenol	ND	F1	1.0	0.61	ug/L		05/01/24 13:56	05/06/24 13:09	1
2,4-Dinitrophenol	ND	F1	10	3.4	ug/L		05/01/24 13:56	05/06/24 13:09	1
2,4-Dinitrotoluene	ND		1.0	0.37	ug/L		05/01/24 13:56	05/06/24 13:09	1
2,6-Dinitrotoluene	ND		1.0	0.18	ug/L		05/01/24 13:56	05/06/24 13:09	1
2-Chloronaphthalene	ND		0.20	0.061	ug/L		05/01/24 13:56	05/06/24 13:09	1
2-Chlorophenol	ND		1.0	0.23	ug/L		05/01/24 13:56	05/06/24 13:09	1
2-Methylnaphthalene	0.18	J	0.20	0.065	ug/L		05/01/24 13:56	05/06/24 13:09	1
2-Methylphenol	ND		1.0	0.58	ug/L		05/01/24 13:56	05/06/24 13:09	1
2-Nitroaniline	ND		5.2	0.57	ug/L		05/01/24 13:56	05/06/24 13:09	1
2-Nitrophenol	ND		1.0	0.20	ug/L		05/01/24 13:56	05/06/24 13:09	1
3,3'-Dichlorobenzidine	ND	F1	1.0	0.61	ug/L		05/01/24 13:56	05/06/24 13:09	1
3-Nitroaniline	ND		5.2	0.46	ug/L		05/01/24 13:56	05/06/24 13:09	1
4,6-Dinitro-2-methylphenol	ND		5.2	1.5	ug/L		05/01/24 13:56	05/06/24 13:09	1
4-Bromophenyl phenyl ether	ND		1.0	0.33	ug/L		05/01/24 13:56	05/06/24 13:09	1
4-Chloro-3-methylphenol	ND		1.0	0.45	ug/L		05/01/24 13:56	05/06/24 13:09	1
4-Chloroaniline	ND	F1	1.0	0.39	ug/L		05/01/24 13:56	05/06/24 13:09	1

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Client Sample Results

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

Job ID: 180-173098-1

Client Sample ID: SUPE-W-06C-042524

Lab Sample ID: 180-173098-3

Date Collected: 04/25/24 09:31

Matrix: Water

Date Received: 04/26/24 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-Chlorophenyl phenyl ether	ND		1.0	0.23	ug/L		05/01/24 13:56	05/06/24 13:09	1
4-Nitroaniline	ND		5.2	0.38	ug/L		05/01/24 13:56	05/06/24 13:09	1
4-Nitrophenol	ND		5.2	0.98	ug/L		05/01/24 13:56	05/06/24 13:09	1
Acenaphthene	ND		0.20	0.068	ug/L		05/01/24 13:56	05/06/24 13:09	1
Acenaphthylene	ND		0.20	0.068	ug/L		05/01/24 13:56	05/06/24 13:09	1
Anthracene	ND		0.20	0.051	ug/L		05/01/24 13:56	05/06/24 13:09	1
Benzo[a]anthracene	ND		0.20	0.078	ug/L		05/01/24 13:56	05/06/24 13:09	1
Benzo[a]pyrene	ND		0.20	0.055	ug/L		05/01/24 13:56	05/06/24 13:09	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		05/01/24 13:56	05/06/24 13:09	1
Benzo[g,h,i]perylene	ND		0.20	0.072	ug/L		05/01/24 13:56	05/06/24 13:09	1
Benzo[k]fluoranthene	ND		0.20	0.092	ug/L		05/01/24 13:56	05/06/24 13:09	1
Benzoic acid	ND		5.2	2.6	ug/L		05/01/24 13:56	05/06/24 13:09	1
Benzyl alcohol	ND	F1	5.2	1.7	ug/L		05/01/24 13:56	05/06/24 13:09	1
Bis(2-chloroethoxy)methane	ND		1.0	0.16	ug/L		05/01/24 13:56	05/06/24 13:09	1
Bis(2-chloroethyl)ether	ND		0.20	0.042	ug/L		05/01/24 13:56	05/06/24 13:09	1
Bis(2-ethylhexyl) phthalate	ND		10	6.5	ug/L		05/01/24 13:56	05/06/24 13:09	1
bis(chloroisopropyl) ether	ND	*+	0.20	0.060	ug/L		05/01/24 13:56	05/06/24 13:09	1
Butyl benzyl phthalate	ND		2.1	0.98	ug/L		05/01/24 13:56	05/06/24 13:09	1
Chrysene	ND		0.20	0.084	ug/L		05/01/24 13:56	05/06/24 13:09	1
Dibenz(a,h)anthracene	ND		0.20	0.075	ug/L		05/01/24 13:56	05/06/24 13:09	1
Dibenzofuran	ND		1.0	0.20	ug/L		05/01/24 13:56	05/06/24 13:09	1
Diethyl phthalate	ND		1.0	0.59	ug/L		05/01/24 13:56	05/06/24 13:09	1
Dimethyl phthalate	ND		2.1	0.21	ug/L		05/01/24 13:56	05/06/24 13:09	1
Di-n-butyl phthalate	ND		10	5.1	ug/L		05/01/24 13:56	05/06/24 13:09	1
Di-n-octyl phthalate	ND		1.0	0.71	ug/L		05/01/24 13:56	05/06/24 13:09	1
Fluoranthene	ND		0.20	0.063	ug/L		05/01/24 13:56	05/06/24 13:09	1
Fluorene	ND		0.20	0.072	ug/L		05/01/24 13:56	05/06/24 13:09	1
Hexachlorobenzene	ND		0.20	0.058	ug/L		05/01/24 13:56	05/06/24 13:09	1
Hexachlorobutadiene	ND		0.20	0.072	ug/L		05/01/24 13:56	05/06/24 13:09	1
Hexachlorocyclopentadiene	ND	F1	1.0	0.52	ug/L		05/01/24 13:56	05/06/24 13:09	1
Hexachloroethane	ND	F2 F1	1.0	0.14	ug/L		05/01/24 13:56	05/06/24 13:09	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.089	ug/L		05/01/24 13:56	05/06/24 13:09	1
Isophorone	ND		1.0	0.20	ug/L		05/01/24 13:56	05/06/24 13:09	1
Methylphenol, 3 & 4	ND		1.0	0.39	ug/L		05/01/24 13:56	05/06/24 13:09	1
Nitrobenzene	ND		2.1	0.52	ug/L		05/01/24 13:56	05/06/24 13:09	1
N-Nitrosodi-n-propylamine	ND		0.20	0.074	ug/L		05/01/24 13:56	05/06/24 13:09	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		05/01/24 13:56	05/06/24 13:09	1
Pentachlorophenol	ND		1.0	0.88	ug/L		05/01/24 13:56	05/06/24 13:09	1
Phenanthrene	ND		0.20	0.16	ug/L		05/01/24 13:56	05/06/24 13:09	1
Phenol	ND		1.0	0.51	ug/L		05/01/24 13:56	05/06/24 13:09	1
Pyrene	ND		0.20	0.056	ug/L		05/01/24 13:56	05/06/24 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	59		23 - 128	05/01/24 13:56	05/06/24 13:09	1
2-Fluorobiphenyl	57		20 - 105	05/01/24 13:56	05/06/24 13:09	1
2-Fluorophenol (Surr)	66		20 - 105	05/01/24 13:56	05/06/24 13:09	1
Nitrobenzene-d5 (Surr)	75		20 - 107	05/01/24 13:56	05/06/24 13:09	1
Phenol-d5 (Surr)	67		20 - 106	05/01/24 13:56	05/06/24 13:09	1
Terphenyl-d14 (Surr)	63		22 - 120	05/01/24 13:56	05/06/24 13:09	1

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Client Sample Results

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

Job ID: 180-173098-1

Client Sample ID: SUPE-TB-2-042524

Lab Sample ID: 180-173098-4

Date Collected: 04/25/24 09:31

Matrix: Water

Date Received: 04/26/24 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			05/01/24 15:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/24 15:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/24 15:26	1
Benzene	ND		1.0	0.41	ug/L			05/01/24 15:26	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/24 15:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/24 15:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/24 15:26	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/24 15:26	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/24 15:26	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/24 15:26	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/24 15:26	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/24 15:26	1
Styrene	ND		1.0	0.73	ug/L			05/01/24 15:26	1
Toluene	ND		1.0	0.51	ug/L			05/01/24 15:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/24 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					05/01/24 15:26	1
4-Bromofluorobenzene (Surr)	108		73 - 120					05/01/24 15:26	1
Dibromofluoromethane (Surr)	113		75 - 123					05/01/24 15:26	1
Toluene-d8 (Surr)	103		80 - 120					05/01/24 15:26	1

Client Sample ID: SUPE-FB-2-042524

Lab Sample ID: 180-173098-5

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 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			05/01/24 15:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/24 15:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/24 15:50	1
Benzene	ND		1.0	0.41	ug/L			05/01/24 15:50	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/24 15:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/24 15:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/24 15:50	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/24 15:50	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/24 15:50	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/24 15:50	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/24 15:50	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/24 15:50	1
Styrene	ND		1.0	0.73	ug/L			05/01/24 15:50	1
Toluene	ND		1.0	0.51	ug/L			05/01/24 15:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/24 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120					05/01/24 15:50	1
4-Bromofluorobenzene (Surr)	108		73 - 120					05/01/24 15:50	1
Dibromofluoromethane (Surr)	110		75 - 123					05/01/24 15:50	1
Toluene-d8 (Surr)	102		80 - 120					05/01/24 15:50	1

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Client Sample Results

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

Job ID: 180-173098-1

Client Sample ID: SUPE-FB-2-042524

Lab Sample ID: 180-173098-5

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 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		1.0	0.25	ug/L		05/01/24 13:57	05/06/24 14:13	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L		05/01/24 13:57	05/06/24 14:13	1
1,3-Dichlorobenzene	ND		1.0	0.22	ug/L		05/01/24 13:57	05/06/24 14:13	1
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L		05/01/24 13:57	05/06/24 14:13	1
1-Methylnaphthalene	ND		0.20	0.058	ug/L		05/01/24 13:57	05/06/24 14:13	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.34	ug/L		05/01/24 13:57	05/06/24 14:13	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.53	ug/L		05/01/24 13:57	05/06/24 14:13	1
2,4,5-Trichlorophenol	ND		1.0	0.26	ug/L		05/01/24 13:57	05/06/24 14:13	1
2,4,6-Trichlorophenol	ND		1.0	0.23	ug/L		05/01/24 13:57	05/06/24 14:13	1
2,4-Dichlorophenol	ND		0.20	0.053	ug/L		05/01/24 13:57	05/06/24 14:13	1
2,4-Dimethylphenol	ND		1.0	0.61	ug/L		05/01/24 13:57	05/06/24 14:13	1
2,4-Dinitrophenol	ND		10	3.4	ug/L		05/01/24 13:57	05/06/24 14:13	1
2,4-Dinitrotoluene	ND		1.0	0.37	ug/L		05/01/24 13:57	05/06/24 14:13	1
2,6-Dinitrotoluene	ND		1.0	0.18	ug/L		05/01/24 13:57	05/06/24 14:13	1
2-Chloronaphthalene	ND		0.20	0.061	ug/L		05/01/24 13:57	05/06/24 14:13	1
2-Chlorophenol	ND		1.0	0.23	ug/L		05/01/24 13:57	05/06/24 14:13	1
2-Methylnaphthalene	ND		0.20	0.065	ug/L		05/01/24 13:57	05/06/24 14:13	1
2-Methylphenol	ND		1.0	0.58	ug/L		05/01/24 13:57	05/06/24 14:13	1
2-Nitroaniline	ND		5.2	0.57	ug/L		05/01/24 13:57	05/06/24 14:13	1
2-Nitrophenol	ND		1.0	0.20	ug/L		05/01/24 13:57	05/06/24 14:13	1
3,3'-Dichlorobenzidine	ND		1.0	0.61	ug/L		05/01/24 13:57	05/06/24 14:13	1
3-Nitroaniline	ND		5.2	0.46	ug/L		05/01/24 13:57	05/06/24 14:13	1
4,6-Dinitro-2-methylphenol	ND		5.2	1.5	ug/L		05/01/24 13:57	05/06/24 14:13	1
4-Bromophenyl phenyl ether	ND		1.0	0.33	ug/L		05/01/24 13:57	05/06/24 14:13	1
4-Chloro-3-methylphenol	ND		1.0	0.45	ug/L		05/01/24 13:57	05/06/24 14:13	1
4-Chloroaniline	ND		1.0	0.39	ug/L		05/01/24 13:57	05/06/24 14:13	1
4-Chlorophenyl phenyl ether	ND		1.0	0.23	ug/L		05/01/24 13:57	05/06/24 14:13	1
4-Nitroaniline	ND		5.2	0.38	ug/L		05/01/24 13:57	05/06/24 14:13	1
4-Nitrophenol	ND		5.2	0.98	ug/L		05/01/24 13:57	05/06/24 14:13	1
Acenaphthene	ND		0.20	0.068	ug/L		05/01/24 13:57	05/06/24 14:13	1
Acenaphthylene	ND		0.20	0.068	ug/L		05/01/24 13:57	05/06/24 14:13	1
Anthracene	ND		0.20	0.051	ug/L		05/01/24 13:57	05/06/24 14:13	1
Benzo[a]anthracene	ND		0.20	0.078	ug/L		05/01/24 13:57	05/06/24 14:13	1
Benzo[a]pyrene	ND		0.20	0.055	ug/L		05/01/24 13:57	05/06/24 14:13	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		05/01/24 13:57	05/06/24 14:13	1
Benzo[g,h,i]perylene	ND		0.20	0.072	ug/L		05/01/24 13:57	05/06/24 14:13	1
Benzo[k]fluoranthene	ND		0.20	0.092	ug/L		05/01/24 13:57	05/06/24 14:13	1
Benzoic acid	ND		5.2	2.6	ug/L		05/01/24 13:57	05/06/24 14:13	1
Benzyl alcohol	ND		5.2	1.7	ug/L		05/01/24 13:57	05/06/24 14:13	1
Bis(2-chloroethoxy)methane	ND		1.0	0.16	ug/L		05/01/24 13:57	05/06/24 14:13	1
Bis(2-chloroethyl)ether	ND		0.20	0.042	ug/L		05/01/24 13:57	05/06/24 14:13	1
Bis(2-ethylhexyl) phthalate	ND		10	6.5	ug/L		05/01/24 13:57	05/06/24 14:13	1
bis(chloroisopropyl) ether	ND	*+	0.20	0.060	ug/L		05/01/24 13:57	05/06/24 14:13	1
Butyl benzyl phthalate	ND		2.1	0.98	ug/L		05/01/24 13:57	05/06/24 14:13	1
Chrysene	ND		0.20	0.084	ug/L		05/01/24 13:57	05/06/24 14:13	1
Dibenz(a,h)anthracene	ND		0.20	0.075	ug/L		05/01/24 13:57	05/06/24 14:13	1
Dibenzofuran	ND		1.0	0.20	ug/L		05/01/24 13:57	05/06/24 14:13	1
Diethyl phthalate	ND		1.0	0.59	ug/L		05/01/24 13:57	05/06/24 14:13	1
Dimethyl phthalate	ND		2.1	0.21	ug/L		05/01/24 13:57	05/06/24 14:13	1

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Client Sample Results

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

Job ID: 180-173098-1

Client Sample ID: SUPE-FB-2-042524

Lab Sample ID: 180-173098-5

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 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		10	5.1	ug/L		05/01/24 13:57	05/06/24 14:13	1
Di-n-octyl phthalate	ND		1.0	0.71	ug/L		05/01/24 13:57	05/06/24 14:13	1
Fluoranthene	ND		0.20	0.063	ug/L		05/01/24 13:57	05/06/24 14:13	1
Fluorene	ND		0.20	0.072	ug/L		05/01/24 13:57	05/06/24 14:13	1
Hexachlorobenzene	ND		0.20	0.058	ug/L		05/01/24 13:57	05/06/24 14:13	1
Hexachlorobutadiene	ND		0.20	0.072	ug/L		05/01/24 13:57	05/06/24 14:13	1
Hexachlorocyclopentadiene	ND		1.0	0.52	ug/L		05/01/24 13:57	05/06/24 14:13	1
Hexachloroethane	ND		1.0	0.14	ug/L		05/01/24 13:57	05/06/24 14:13	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.089	ug/L		05/01/24 13:57	05/06/24 14:13	1
Isophorone	ND		1.0	0.20	ug/L		05/01/24 13:57	05/06/24 14:13	1
Methylphenol, 3 & 4	ND		1.0	0.39	ug/L		05/01/24 13:57	05/06/24 14:13	1
Nitrobenzene	ND		2.1	0.52	ug/L		05/01/24 13:57	05/06/24 14:13	1
N-Nitrosodi-n-propylamine	ND		0.20	0.074	ug/L		05/01/24 13:57	05/06/24 14:13	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		05/01/24 13:57	05/06/24 14:13	1
Pentachlorophenol	ND		1.0	0.88	ug/L		05/01/24 13:57	05/06/24 14:13	1
Phenanthrene	ND		0.20	0.16	ug/L		05/01/24 13:57	05/06/24 14:13	1
Phenol	ND		1.0	0.51	ug/L		05/01/24 13:57	05/06/24 14:13	1
Pyrene	ND		0.20	0.056	ug/L		05/01/24 13:57	05/06/24 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	30		23 - 128	05/01/24 13:57	05/06/24 14:13	1
2-Fluorobiphenyl	37		20 - 105	05/01/24 13:57	05/06/24 14:13	1
2-Fluorophenol (Surr)	38		20 - 105	05/01/24 13:57	05/06/24 14:13	1
Nitrobenzene-d5 (Surr)	45		20 - 107	05/01/24 13:57	05/06/24 14:13	1
Phenol-d5 (Surr)	37		20 - 106	05/01/24 13:57	05/06/24 14:13	1
Terphenyl-d14 (Surr)	34		22 - 120	05/01/24 13:57	05/06/24 14:13	1

Client Sample ID: SUPE-W-12A-042524

Lab Sample ID: 180-173098-6

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 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			05/01/24 16:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/24 16:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/24 16:13	1
Benzene	ND		1.0	0.41	ug/L			05/01/24 16:13	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/24 16:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/24 16:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/24 16:13	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/24 16:13	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/24 16:13	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/24 16:13	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/24 16:13	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/24 16:13	1
Styrene	ND		1.0	0.73	ug/L			05/01/24 16:13	1
Toluene	ND		1.0	0.51	ug/L			05/01/24 16:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/24 16:13	1

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Client Sample Results

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

Job ID: 180-173098-1

Client Sample ID: SUPE-W-12A-042524

Lab Sample ID: 180-173098-6

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 09:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		05/01/24 16:13	1
4-Bromofluorobenzene (Surr)	112		73 - 120		05/01/24 16:13	1
Dibromofluoromethane (Surr)	118		75 - 123		05/01/24 16:13	1
Toluene-d8 (Surr)	105		80 - 120		05/01/24 16:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.24	ug/L		05/01/24 13:57	05/06/24 14:35	1
1,2-Dichlorobenzene	ND		1.0	0.21	ug/L		05/01/24 13:57	05/06/24 14:35	1
1,3-Dichlorobenzene	ND		1.0	0.22	ug/L		05/01/24 13:57	05/06/24 14:35	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L		05/01/24 13:57	05/06/24 14:35	1
1-Methylnaphthalene	0.13	J	0.19	0.056	ug/L		05/01/24 13:57	05/06/24 14:35	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		05/01/24 13:57	05/06/24 14:35	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		05/01/24 13:57	05/06/24 14:35	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		05/01/24 13:57	05/06/24 14:35	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		05/01/24 13:57	05/06/24 14:35	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		05/01/24 13:57	05/06/24 14:35	1
2,4-Dimethylphenol	ND		1.0	0.59	ug/L		05/01/24 13:57	05/06/24 14:35	1
2,4-Dinitrophenol	ND		10	3.3	ug/L		05/01/24 13:57	05/06/24 14:35	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		05/01/24 13:57	05/06/24 14:35	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		05/01/24 13:57	05/06/24 14:35	1
2-Chloronaphthalene	0.069	J	0.19	0.059	ug/L		05/01/24 13:57	05/06/24 14:35	1
2-Chlorophenol	ND		1.0	0.23	ug/L		05/01/24 13:57	05/06/24 14:35	1
2-Methylnaphthalene	0.12	J	0.19	0.062	ug/L		05/01/24 13:57	05/06/24 14:35	1
2-Methylphenol	ND		1.0	0.56	ug/L		05/01/24 13:57	05/06/24 14:35	1
2-Nitroaniline	ND		5.0	0.55	ug/L		05/01/24 13:57	05/06/24 14:35	1
2-Nitrophenol	ND		1.0	0.19	ug/L		05/01/24 13:57	05/06/24 14:35	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		05/01/24 13:57	05/06/24 14:35	1
3-Nitroaniline	ND		5.0	0.44	ug/L		05/01/24 13:57	05/06/24 14:35	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		05/01/24 13:57	05/06/24 14:35	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		05/01/24 13:57	05/06/24 14:35	1
4-Chloro-3-methylphenol	ND		1.0	0.44	ug/L		05/01/24 13:57	05/06/24 14:35	1
4-Chloroaniline	ND		1.0	0.38	ug/L		05/01/24 13:57	05/06/24 14:35	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		05/01/24 13:57	05/06/24 14:35	1
4-Nitroaniline	ND		5.0	0.36	ug/L		05/01/24 13:57	05/06/24 14:35	1
4-Nitrophenol	ND		5.0	0.94	ug/L		05/01/24 13:57	05/06/24 14:35	1
Acenaphthene	ND		0.19	0.065	ug/L		05/01/24 13:57	05/06/24 14:35	1
Acenaphthylene	ND		0.19	0.065	ug/L		05/01/24 13:57	05/06/24 14:35	1
Anthracene	ND		0.19	0.049	ug/L		05/01/24 13:57	05/06/24 14:35	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		05/01/24 13:57	05/06/24 14:35	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		05/01/24 13:57	05/06/24 14:35	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		05/01/24 13:57	05/06/24 14:35	1
Benzo[g,h,i]perylene	ND		0.19	0.069	ug/L		05/01/24 13:57	05/06/24 14:35	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		05/01/24 13:57	05/06/24 14:35	1
Benzoic acid	ND		5.0	2.5	ug/L		05/01/24 13:57	05/06/24 14:35	1
Benzyl alcohol	ND		5.0	1.7	ug/L		05/01/24 13:57	05/06/24 14:35	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		05/01/24 13:57	05/06/24 14:35	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		05/01/24 13:57	05/06/24 14:35	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		05/01/24 13:57	05/06/24 14:35	1
bis(chloroisopropyl) ether	ND	*+	0.19	0.058	ug/L		05/01/24 13:57	05/06/24 14:35	1

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Client Sample Results

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

Job ID: 180-173098-1

Client Sample ID: SUPE-W-12A-042524

Lab Sample ID: 180-173098-6

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		2.0	0.94	ug/L		05/01/24 13:57	05/06/24 14:35	1
Chrysene	ND		0.19	0.081	ug/L		05/01/24 13:57	05/06/24 14:35	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		05/01/24 13:57	05/06/24 14:35	1
Dibenzofuran	ND		1.0	0.19	ug/L		05/01/24 13:57	05/06/24 14:35	1
Diethyl phthalate	ND		1.0	0.57	ug/L		05/01/24 13:57	05/06/24 14:35	1
Dimethyl phthalate	0.54	J	2.0	0.20	ug/L		05/01/24 13:57	05/06/24 14:35	1
Di-n-butyl phthalate	ND		10	4.9	ug/L		05/01/24 13:57	05/06/24 14:35	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		05/01/24 13:57	05/06/24 14:35	1
Fluoranthene	ND		0.19	0.060	ug/L		05/01/24 13:57	05/06/24 14:35	1
Fluorene	ND		0.19	0.069	ug/L		05/01/24 13:57	05/06/24 14:35	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		05/01/24 13:57	05/06/24 14:35	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		05/01/24 13:57	05/06/24 14:35	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		05/01/24 13:57	05/06/24 14:35	1
Hexachloroethane	ND		1.0	0.13	ug/L		05/01/24 13:57	05/06/24 14:35	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		05/01/24 13:57	05/06/24 14:35	1
Isophorone	ND		1.0	0.19	ug/L		05/01/24 13:57	05/06/24 14:35	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		05/01/24 13:57	05/06/24 14:35	1
Nitrobenzene	ND		2.0	0.50	ug/L		05/01/24 13:57	05/06/24 14:35	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		05/01/24 13:57	05/06/24 14:35	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		05/01/24 13:57	05/06/24 14:35	1
Pentachlorophenol	ND		1.0	0.85	ug/L		05/01/24 13:57	05/06/24 14:35	1
Phenanthrene	ND		0.19	0.16	ug/L		05/01/24 13:57	05/06/24 14:35	1
Phenol	ND		1.0	0.49	ug/L		05/01/24 13:57	05/06/24 14:35	1
Pyrene	ND		0.19	0.054	ug/L		05/01/24 13:57	05/06/24 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		23 - 128	05/01/24 13:57	05/06/24 14:35	1
2-Fluorobiphenyl	54		20 - 105	05/01/24 13:57	05/06/24 14:35	1
2-Fluorophenol (Surr)	57		20 - 105	05/01/24 13:57	05/06/24 14:35	1
Nitrobenzene-d5 (Surr)	66		20 - 107	05/01/24 13:57	05/06/24 14:35	1
Phenol-d5 (Surr)	58		20 - 106	05/01/24 13:57	05/06/24 14:35	1
Terphenyl-d14 (Surr)	46		22 - 120	05/01/24 13:57	05/06/24 14:35	1

QC Sample Results

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

Job ID: 180-173098-1

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

Lab Sample ID: MB 480-710122/9
Matrix: Water
Analysis Batch: 710122

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			05/01/24 12:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/24 12:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/24 12:34	1
Benzene	ND		1.0	0.41	ug/L			05/01/24 12:34	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/24 12:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/24 12:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/24 12:34	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/24 12:34	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/24 12:34	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/24 12:34	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/24 12:34	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/24 12:34	1
Styrene	ND		1.0	0.73	ug/L			05/01/24 12:34	1
Toluene	ND		1.0	0.51	ug/L			05/01/24 12:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/24 12:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		05/01/24 12:34	1
4-Bromofluorobenzene (Surr)	100		73 - 120		05/01/24 12:34	1
Dibromofluoromethane (Surr)	102		75 - 123		05/01/24 12:34	1
Toluene-d8 (Surr)	105		80 - 120		05/01/24 12:34	1

Lab Sample ID: LCS 480-710122/6
Matrix: Water
Analysis Batch: 710122

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1-Trichloroethane	25.0	29.0		ug/L		116	73 - 126
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	76 - 121
1,3,5-Trimethylbenzene	25.0	26.4		ug/L		106	77 - 121
Benzene	25.0	27.6		ug/L		111	71 - 124
Chloromethane	25.0	20.0		ug/L		80	68 - 124
Ethylbenzene	25.0	27.2		ug/L		109	77 - 123
Methyl tert-butyl ether	25.0	25.5		ug/L		102	77 - 120
m-Xylene & p-Xylene	25.0	27.4		ug/L		110	76 - 122
Naphthalene	25.0	23.0		ug/L		92	66 - 125
n-Butylbenzene	25.0	26.7		ug/L		107	71 - 128
N-Propylbenzene	25.0	27.4		ug/L		110	75 - 127
o-Xylene	25.0	26.2		ug/L		105	76 - 122
Styrene	25.0	27.8		ug/L		111	80 - 120
Toluene	25.0	25.9		ug/L		104	80 - 122
Xylenes, Total	50.0	53.6		ug/L		107	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	111		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123
Toluene-d8 (Surr)	102		80 - 120

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QC Sample Results

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

Job ID: 180-173098-1

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

Lab Sample ID: MB 480-710140/8
Matrix: Water
Analysis Batch: 710140

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			05/01/24 13:45	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/24 13:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/24 13:45	1
Benzene	ND		1.0	0.41	ug/L			05/01/24 13:45	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/24 13:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/24 13:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/24 13:45	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/24 13:45	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/24 13:45	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/24 13:45	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/24 13:45	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/24 13:45	1
Styrene	ND		1.0	0.73	ug/L			05/01/24 13:45	1
Toluene	ND		1.0	0.51	ug/L			05/01/24 13:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/24 13:45	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		05/01/24 13:45	1
4-Bromofluorobenzene (Surr)	110		73 - 120		05/01/24 13:45	1
Dibromofluoromethane (Surr)	115		75 - 123		05/01/24 13:45	1
Toluene-d8 (Surr)	105		80 - 120		05/01/24 13:45	1

Lab Sample ID: LCS 480-710140/6
Matrix: Water
Analysis Batch: 710140

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1-Trichloroethane	25.0	23.2		ug/L		93	73 - 126
1,2,4-Trimethylbenzene	25.0	22.8		ug/L		91	76 - 121
1,3,5-Trimethylbenzene	25.0	21.8		ug/L		87	77 - 121
Benzene	25.0	22.6		ug/L		90	71 - 124
Chloromethane	25.0	23.6		ug/L		94	68 - 124
Ethylbenzene	25.0	22.2		ug/L		89	77 - 123
Methyl tert-butyl ether	25.0	22.1		ug/L		89	77 - 120
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	76 - 122
Naphthalene	25.0	20.2		ug/L		81	66 - 125
n-Butylbenzene	25.0	20.9		ug/L		84	71 - 128
N-Propylbenzene	25.0	21.2		ug/L		85	75 - 127
o-Xylene	25.0	23.5		ug/L		94	76 - 122
Styrene	25.0	23.0		ug/L		92	80 - 120
Toluene	25.0	22.5		ug/L		90	80 - 122
Xylenes, Total	50.0	47.5		ug/L		95	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	109		73 - 120
Dibromofluoromethane (Surr)	114		75 - 123
Toluene-d8 (Surr)	106		80 - 120

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QC Sample Results

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

Job ID: 180-173098-1

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

Lab Sample ID: MB 480-710397/8
Matrix: Water
Analysis Batch: 710397

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			05/03/24 03:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/03/24 03:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/03/24 03:51	1
Benzene	ND		1.0	0.41	ug/L			05/03/24 03:51	1
Chloromethane	ND		1.0	0.35	ug/L			05/03/24 03:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/03/24 03:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/03/24 03:51	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/03/24 03:51	1
Naphthalene	ND		1.0	0.43	ug/L			05/03/24 03:51	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/03/24 03:51	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/03/24 03:51	1
o-Xylene	ND		1.0	0.76	ug/L			05/03/24 03:51	1
Styrene	ND		1.0	0.73	ug/L			05/03/24 03:51	1
Toluene	ND		1.0	0.51	ug/L			05/03/24 03:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/03/24 03:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		05/03/24 03:51	1
4-Bromofluorobenzene (Surr)	96		73 - 120		05/03/24 03:51	1
Dibromofluoromethane (Surr)	106		75 - 123		05/03/24 03:51	1
Toluene-d8 (Surr)	102		80 - 120		05/03/24 03:51	1

Lab Sample ID: LCS 480-710397/6
Matrix: Water
Analysis Batch: 710397

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1-Trichloroethane	25.0	28.1		ug/L		112	73 - 126
1,2,4-Trimethylbenzene	25.0	25.0		ug/L		100	76 - 121
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	77 - 121
Benzene	25.0	27.3		ug/L		109	71 - 124
Chloromethane	25.0	17.5		ug/L		70	68 - 124
Ethylbenzene	25.0	25.8		ug/L		103	77 - 123
Methyl tert-butyl ether	25.0	25.5		ug/L		102	77 - 120
m-Xylene & p-Xylene	25.0	26.2		ug/L		105	76 - 122
Naphthalene	25.0	22.6		ug/L		90	66 - 125
n-Butylbenzene	25.0	24.5		ug/L		98	71 - 128
N-Propylbenzene	25.0	24.9		ug/L		100	75 - 127
o-Xylene	25.0	25.6		ug/L		103	76 - 122
Styrene	25.0	26.8		ug/L		107	80 - 120
Toluene	25.0	24.8		ug/L		99	80 - 122
Xylenes, Total	50.0	51.8		ug/L		104	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	117		77 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123
Toluene-d8 (Surr)	107		80 - 120

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QC Sample Results

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

Job ID: 180-173098-1

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

Lab Sample ID: 180-173098-3 MS

Matrix: Water

Analysis Batch: 710397

Client Sample ID: SUPE-W-06C-042524

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		25.0	30.1		ug/L		121	73 - 126
1,2,4-Trimethylbenzene	ND		25.0	25.5		ug/L		102	76 - 121
1,3,5-Trimethylbenzene	ND		25.0	25.4		ug/L		101	77 - 121
Benzene	ND		25.0	28.3		ug/L		113	71 - 124
Chloromethane	ND	F1	25.0	18.3		ug/L		73	68 - 124
Ethylbenzene	ND		25.0	26.9		ug/L		108	77 - 123
Methyl tert-butyl ether	ND		25.0	25.4		ug/L		102	77 - 120
m-Xylene & p-Xylene	ND		25.0	27.0		ug/L		108	76 - 122
Naphthalene	ND		25.0	23.1		ug/L		92	66 - 125
n-Butylbenzene	ND		25.0	26.2		ug/L		105	71 - 128
N-Propylbenzene	ND		25.0	26.1		ug/L		105	75 - 127
o-Xylene	ND		25.0	25.9		ug/L		104	76 - 122
Styrene	ND		25.0	26.7		ug/L		107	80 - 120
Toluene	ND		25.0	25.5		ug/L		102	80 - 122
Xylenes, Total	ND		50.0	52.9		ug/L		106	76 - 122

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	113		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	107		75 - 123
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: 180-173098-3 MSD

Matrix: Water

Analysis Batch: 710397

Client Sample ID: SUPE-W-06C-042524

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	29.3		ug/L		117	73 - 126	3	15
1,2,4-Trimethylbenzene	ND		25.0	24.6		ug/L		98	76 - 121	4	20
1,3,5-Trimethylbenzene	ND		25.0	24.7		ug/L		99	77 - 121	3	20
Benzene	ND		25.0	27.4		ug/L		110	71 - 124	3	13
Chloromethane	ND	F1	25.0	16.2	F1	ug/L		65	68 - 124	13	15
Ethylbenzene	ND		25.0	25.9		ug/L		104	77 - 123	4	15
Methyl tert-butyl ether	ND		25.0	25.3		ug/L		101	77 - 120	0	37
m-Xylene & p-Xylene	ND		25.0	26.0		ug/L		104	76 - 122	4	16
Naphthalene	ND		25.0	22.5		ug/L		90	66 - 125	3	20
n-Butylbenzene	ND		25.0	25.2		ug/L		101	71 - 128	4	15
N-Propylbenzene	ND		25.0	25.3		ug/L		101	75 - 127	3	15
o-Xylene	ND		25.0	25.1		ug/L		100	76 - 122	3	16
Styrene	ND		25.0	25.8		ug/L		103	80 - 120	4	20
Toluene	ND		25.0	24.6		ug/L		99	80 - 122	3	15
Xylenes, Total	ND		50.0	51.1		ug/L		102	76 - 122	3	16

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	118		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123
Toluene-d8 (Surr)	107		80 - 120

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QC Sample Results

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

Job ID: 180-173098-1

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

Lab Sample ID: MB 180-467117/1-A
Matrix: Water
Analysis Batch: 467554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 467117

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		1.0	0.24	ug/L		05/01/24 13:56	05/06/24 08:50	1
1,2-Dichlorobenzene	ND		1.0	0.21	ug/L		05/01/24 13:56	05/06/24 08:50	1
1,3-Dichlorobenzene	ND		1.0	0.22	ug/L		05/01/24 13:56	05/06/24 08:50	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L		05/01/24 13:56	05/06/24 08:50	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		05/01/24 13:56	05/06/24 08:50	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		05/01/24 13:56	05/06/24 08:50	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		05/01/24 13:56	05/06/24 08:50	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		05/01/24 13:56	05/06/24 08:50	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		05/01/24 13:56	05/06/24 08:50	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		05/01/24 13:56	05/06/24 08:50	1
2,4-Dimethylphenol	ND		1.0	0.59	ug/L		05/01/24 13:56	05/06/24 08:50	1
2,4-Dinitrophenol	ND		10	3.3	ug/L		05/01/24 13:56	05/06/24 08:50	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		05/01/24 13:56	05/06/24 08:50	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		05/01/24 13:56	05/06/24 08:50	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		05/01/24 13:56	05/06/24 08:50	1
2-Chlorophenol	ND		1.0	0.23	ug/L		05/01/24 13:56	05/06/24 08:50	1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		05/01/24 13:56	05/06/24 08:50	1
2-Methylphenol	ND		1.0	0.56	ug/L		05/01/24 13:56	05/06/24 08:50	1
2-Nitroaniline	ND		5.0	0.55	ug/L		05/01/24 13:56	05/06/24 08:50	1
2-Nitrophenol	ND		1.0	0.19	ug/L		05/01/24 13:56	05/06/24 08:50	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		05/01/24 13:56	05/06/24 08:50	1
3-Nitroaniline	ND		5.0	0.44	ug/L		05/01/24 13:56	05/06/24 08:50	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		05/01/24 13:56	05/06/24 08:50	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		05/01/24 13:56	05/06/24 08:50	1
4-Chloro-3-methylphenol	ND		1.0	0.44	ug/L		05/01/24 13:56	05/06/24 08:50	1
4-Chloroaniline	ND		1.0	0.38	ug/L		05/01/24 13:56	05/06/24 08:50	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		05/01/24 13:56	05/06/24 08:50	1
4-Nitroaniline	ND		5.0	0.36	ug/L		05/01/24 13:56	05/06/24 08:50	1
4-Nitrophenol	ND		5.0	0.94	ug/L		05/01/24 13:56	05/06/24 08:50	1
Acenaphthene	ND		0.19	0.065	ug/L		05/01/24 13:56	05/06/24 08:50	1
Acenaphthylene	ND		0.19	0.065	ug/L		05/01/24 13:56	05/06/24 08:50	1
Anthracene	ND		0.19	0.049	ug/L		05/01/24 13:56	05/06/24 08:50	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		05/01/24 13:56	05/06/24 08:50	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		05/01/24 13:56	05/06/24 08:50	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		05/01/24 13:56	05/06/24 08:50	1
Benzo[g,h,i]perylene	ND		0.19	0.069	ug/L		05/01/24 13:56	05/06/24 08:50	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		05/01/24 13:56	05/06/24 08:50	1
Benzoic acid	ND		5.0	2.5	ug/L		05/01/24 13:56	05/06/24 08:50	1
Benzyl alcohol	ND		5.0	1.7	ug/L		05/01/24 13:56	05/06/24 08:50	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		05/01/24 13:56	05/06/24 08:50	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		05/01/24 13:56	05/06/24 08:50	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		05/01/24 13:56	05/06/24 08:50	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		05/01/24 13:56	05/06/24 08:50	1
Butyl benzyl phthalate	ND		2.0	0.94	ug/L		05/01/24 13:56	05/06/24 08:50	1
Chrysene	ND		0.19	0.081	ug/L		05/01/24 13:56	05/06/24 08:50	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		05/01/24 13:56	05/06/24 08:50	1
Dibenzofuran	ND		1.0	0.19	ug/L		05/01/24 13:56	05/06/24 08:50	1
Diethyl phthalate	ND		1.0	0.57	ug/L		05/01/24 13:56	05/06/24 08:50	1

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QC Sample Results

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

Job ID: 180-173098-1

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

Lab Sample ID: MB 180-467117/1-A
Matrix: Water
Analysis Batch: 467554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 467117

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dimethyl phthalate	ND		2.0	0.20	ug/L		05/01/24 13:56	05/06/24 08:50	1
Di-n-butyl phthalate	ND		10	4.9	ug/L		05/01/24 13:56	05/06/24 08:50	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		05/01/24 13:56	05/06/24 08:50	1
Fluoranthene	ND		0.19	0.060	ug/L		05/01/24 13:56	05/06/24 08:50	1
Fluorene	ND		0.19	0.069	ug/L		05/01/24 13:56	05/06/24 08:50	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		05/01/24 13:56	05/06/24 08:50	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		05/01/24 13:56	05/06/24 08:50	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		05/01/24 13:56	05/06/24 08:50	1
Hexachloroethane	ND		1.0	0.13	ug/L		05/01/24 13:56	05/06/24 08:50	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		05/01/24 13:56	05/06/24 08:50	1
Isophorone	ND		1.0	0.19	ug/L		05/01/24 13:56	05/06/24 08:50	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		05/01/24 13:56	05/06/24 08:50	1
Nitrobenzene	ND		2.0	0.50	ug/L		05/01/24 13:56	05/06/24 08:50	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		05/01/24 13:56	05/06/24 08:50	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		05/01/24 13:56	05/06/24 08:50	1
Pentachlorophenol	ND		1.0	0.85	ug/L		05/01/24 13:56	05/06/24 08:50	1
Phenanthrene	ND		0.19	0.16	ug/L		05/01/24 13:56	05/06/24 08:50	1
Phenol	ND		1.0	0.49	ug/L		05/01/24 13:56	05/06/24 08:50	1
Pyrene	ND		0.19	0.054	ug/L		05/01/24 13:56	05/06/24 08:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	63		23 - 128	05/01/24 13:56	05/06/24 08:50	1
2-Fluorobiphenyl	67		20 - 105	05/01/24 13:56	05/06/24 08:50	1
2-Fluorophenol (Surr)	76		20 - 105	05/01/24 13:56	05/06/24 08:50	1
Nitrobenzene-d5 (Surr)	86		20 - 107	05/01/24 13:56	05/06/24 08:50	1
Phenol-d5 (Surr)	73		20 - 106	05/01/24 13:56	05/06/24 08:50	1
Terphenyl-d14 (Surr)	67		22 - 120	05/01/24 13:56	05/06/24 08:50	1

Lab Sample ID: LCS 180-467117/2-A
Matrix: Water
Analysis Batch: 467554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	20.0	13.5		ug/L		68	51 - 100
1,3-Dichlorobenzene	20.0	13.5		ug/L		68	51 - 100
1,4-Dichlorobenzene	20.0	13.9		ug/L		70	52 - 100
1-Methylnaphthalene	20.0	13.7		ug/L		69	53 - 100
2,3,4,6-Tetrachlorophenol	20.0	13.4		ug/L		67	50 - 100
2,4,5-Trichlorophenol	20.0	13.6		ug/L		68	55 - 100
2,4,6-Trichlorophenol	20.0	14.5		ug/L		72	54 - 100
2,4-Dichlorophenol	20.0	14.5		ug/L		73	55 - 100
2,4-Dimethylphenol	20.0	13.5		ug/L		68	51 - 100
2,4-Dinitrophenol	40.0	27.8		ug/L		69	32 - 100
2,4-Dinitrotoluene	20.0	15.4		ug/L		77	56 - 100
2,6-Dinitrotoluene	20.0	15.1		ug/L		75	56 - 101
2-Chloronaphthalene	20.0	12.8		ug/L		64	52 - 100
2-Chlorophenol	20.0	14.8		ug/L		74	53 - 100

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QC Sample Results

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

Job ID: 180-173098-1

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

Lab Sample ID: LCS 180-467117/2-A
Matrix: Water
Analysis Batch: 467554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	20.0	14.2		ug/L		71	53 - 100
2-Methylphenol	20.0	14.9		ug/L		75	51 - 100
2-Nitroaniline	20.0	18.2		ug/L		91	47 - 104
2-Nitrophenol	20.0	16.1		ug/L		80	56 - 100
3,3'-Dichlorobenzidine	20.0	15.1		ug/L		75	42 - 100
3-Nitroaniline	20.0	14.6		ug/L		73	54 - 100
4,6-Dinitro-2-methylphenol	40.0	31.9		ug/L		80	48 - 100
4-Bromophenyl phenyl ether	20.0	12.6		ug/L		63	50 - 100
4-Chloro-3-methylphenol	20.0	15.2		ug/L		76	47 - 105
4-Chloroaniline	20.0	14.5		ug/L		73	48 - 100
4-Chlorophenyl phenyl ether	20.0	13.3		ug/L		67	52 - 100
4-Nitroaniline	20.0	15.1		ug/L		76	54 - 100
4-Nitrophenol	40.0	33.0		ug/L		83	37 - 120
Acenaphthene	20.0	12.5		ug/L		63	51 - 100
Acenaphthylene	20.0	12.7		ug/L		64	54 - 100
Anthracene	20.0	13.2		ug/L		66	54 - 100
Benzo[a]anthracene	20.0	14.3		ug/L		71	52 - 100
Benzo[a]pyrene	20.0	13.9		ug/L		70	52 - 100
Benzo[b]fluoranthene	20.0	13.3		ug/L		67	50 - 100
Benzo[g,h,i]perylene	20.0	13.1		ug/L		66	53 - 100
Benzo[k]fluoranthene	20.0	12.7		ug/L		63	49 - 100
Benzoic acid	20.0	16.5		ug/L		83	31 - 122
Benzyl alcohol	20.0	15.8		ug/L		79	33 - 107
Bis(2-chloroethoxy)methane	20.0	15.1		ug/L		75	49 - 100
Bis(2-chloroethyl)ether	20.0	14.9		ug/L		75	46 - 100
Bis(2-ethylhexyl) phthalate	20.0	15.9		ug/L		79	52 - 101
bis(chloroisopropyl) ether	20.0	20.7	++	ug/L		104	29 - 102
Butyl benzyl phthalate	20.0	16.1		ug/L		80	52 - 100
Chrysene	20.0	13.9		ug/L		70	51 - 100
Dibenz(a,h)anthracene	20.0	14.3		ug/L		72	52 - 101
Dibenzofuran	20.0	13.0		ug/L		65	53 - 100
Diethyl phthalate	20.0	13.0		ug/L		65	52 - 100
Dimethyl phthalate	20.0	13.5		ug/L		68	55 - 100
Di-n-butyl phthalate	20.0	14.1		ug/L		71	57 - 100
Di-n-octyl phthalate	20.0	13.7		ug/L		69	41 - 100
Fluoranthene	20.0	13.9		ug/L		70	56 - 100
Fluorene	20.0	12.8		ug/L		64	53 - 100
Hexachlorobenzene	20.0	11.9		ug/L		59	46 - 100
Hexachlorobutadiene	20.0	14.0		ug/L		70	42 - 101
Hexachlorocyclopentadiene	20.0	10.3		ug/L		51	38 - 102
Hexachloroethane	20.0	13.7		ug/L		69	46 - 100
Indeno[1,2,3-cd]pyrene	20.0	14.4		ug/L		72	54 - 100
Isophorone	20.0	16.4		ug/L		82	50 - 100
Methylphenol, 3 & 4	20.0	15.6		ug/L		78	51 - 100
Nitrobenzene	20.0	16.7		ug/L		83	47 - 100
N-Nitrosodi-n-propylamine	20.0	17.7		ug/L		89	43 - 103
N-Nitrosodiphenylamine	20.0	13.3		ug/L		67	53 - 100
Pentachlorophenol	40.0	26.0		ug/L		65	35 - 102
Phenanthrene	20.0	13.0		ug/L		65	53 - 100

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QC Sample Results

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

Job ID: 180-173098-1

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

Lab Sample ID: LCS 180-467117/2-A
Matrix: Water
Analysis Batch: 467554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	20.0	15.6		ug/L		78	49 - 100
Pyrene	20.0	14.1		ug/L		71	53 - 100

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	62		23 - 128
2-Fluorobiphenyl	62		20 - 105
2-Fluorophenol (Surr)	76		20 - 105
Nitrobenzene-d5 (Surr)	81		20 - 107
Phenol-d5 (Surr)	75		20 - 106
Terphenyl-d14 (Surr)	54		22 - 120

Lab Sample ID: 180-173098-3 MS
Matrix: Water
Analysis Batch: 467554

Client Sample ID: SUPE-W-06C-042524
Prep Type: Total/NA
Prep Batch: 467117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	ND	F1	2.08	1.05	F1	ug/L		50	51 - 100
1,2-Dichlorobenzene	ND		2.08	1.09		ug/L		52	51 - 100
1,3-Dichlorobenzene	ND		2.08	1.10		ug/L		53	51 - 100
1,4-Dichlorobenzene	ND	F1	2.08	1.10		ug/L		53	52 - 100
1-Methylnaphthalene	0.089	J	2.08	1.24		ug/L		55	53 - 100
2,3,4,6-Tetrachlorophenol	ND		2.08	1.26		ug/L		60	50 - 100
2,4,5-Trichlorophenol	ND		2.08	1.34		ug/L		64	55 - 100
2,4,6-Trichlorophenol	ND		2.08	1.35		ug/L		65	54 - 100
2,4-Dichlorophenol	ND		2.08	1.38		ug/L		66	55 - 100
2,4-Dimethylphenol	ND	F1	2.08	1.02	F1	ug/L		49	51 - 100
2,4-Dinitrophenol	ND	F1	4.17	3.54	J	ug/L		85	32 - 100
2,4-Dinitrotoluene	ND		2.08	1.43		ug/L		69	56 - 100
2,6-Dinitrotoluene	ND		2.08	1.42		ug/L		68	56 - 101
2-Chloronaphthalene	ND		2.08	1.19		ug/L		57	52 - 100
2-Chlorophenol	ND		2.08	1.35		ug/L		65	53 - 100
2-Methylnaphthalene	0.18	J	2.08	1.32		ug/L		55	53 - 100
2-Methylphenol	ND		2.08	1.37		ug/L		66	51 - 100
2-Nitroaniline	ND		2.08	1.81	J	ug/L		87	47 - 104
2-Nitrophenol	ND		2.08	1.41		ug/L		67	56 - 100
3,3'-Dichlorobenzidine	ND	F1	2.08	0.814	J F1	ug/L		39	42 - 100
3-Nitroaniline	ND		2.08	1.34	J	ug/L		64	54 - 100
4,6-Dinitro-2-methylphenol	ND		4.17	2.50	J	ug/L		60	48 - 100
4-Bromophenyl phenyl ether	ND		2.08	1.15		ug/L		55	50 - 100
4-Chloro-3-methylphenol	ND		2.08	1.39		ug/L		67	47 - 105
4-Chloroaniline	ND	F1	2.08	0.899	J F1	ug/L		43	48 - 100
4-Chlorophenyl phenyl ether	ND		2.08	1.35		ug/L		65	52 - 100
4-Nitroaniline	ND		2.08	1.26	J	ug/L		61	54 - 100
4-Nitrophenol	ND		4.17	2.84	J	ug/L		68	37 - 120
Acenaphthene	ND		2.08	1.33		ug/L		64	51 - 100
Acenaphthylene	ND		2.08	1.15		ug/L		55	54 - 100
Anthracene	ND		2.08	1.31		ug/L		63	54 - 100
Benzo[a]anthracene	ND		2.08	1.38		ug/L		66	52 - 100

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QC Sample Results

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

Job ID: 180-173098-1

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

Lab Sample ID: 180-173098-3 MS

Matrix: Water

Analysis Batch: 467554

Client Sample ID: SUPE-W-06C-042524

Prep Type: Total/NA

Prep Batch: 467117

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzo[a]pyrene	ND		2.08	1.25		ug/L		60	52 - 100
Benzo[b]fluoranthene	ND		2.08	1.22		ug/L		59	50 - 100
Benzo[g,h,i]perylene	ND		2.08	1.24		ug/L		59	53 - 100
Benzo[k]fluoranthene	ND		2.08	1.27		ug/L		61	49 - 100
Benzoic acid	ND		2.08	ND		ug/L		NC	31 - 122
Benzyl alcohol	ND	F1	2.08	ND	F1	ug/L		0	33 - 107
Bis(2-chloroethoxy)methane	ND		2.08	1.40		ug/L		67	49 - 100
Bis(2-chloroethyl)ether	ND		2.08	1.39		ug/L		67	46 - 100
Bis(2-ethylhexyl) phthalate	ND		2.08	ND		ug/L		NC	52 - 101
bis(chloroisopropyl) ether	ND	*+	2.08	2.07		ug/L		99	29 - 102
Butyl benzyl phthalate	ND		2.08	1.51	J	ug/L		73	52 - 100
Chrysene	ND		2.08	1.50		ug/L		72	51 - 100
Dibenz(a,h)anthracene	ND		2.08	1.34		ug/L		64	52 - 101
Dibenzofuran	ND		2.08	1.31		ug/L		63	53 - 100
Diethyl phthalate	ND		2.08	1.38		ug/L		66	52 - 100
Dimethyl phthalate	ND		2.08	1.54	J	ug/L		74	55 - 100
Di-n-butyl phthalate	ND		2.08	ND		ug/L		NC	57 - 100
Di-n-octyl phthalate	ND		2.08	1.23		ug/L		59	41 - 100
Fluoranthene	ND		2.08	1.39		ug/L		67	56 - 100
Fluorene	ND		2.08	1.35		ug/L		65	53 - 100
Hexachlorobenzene	ND		2.08	1.25		ug/L		60	46 - 100
Hexachlorobutadiene	ND		2.08	1.16		ug/L		56	42 - 101
Hexachlorocyclopentadiene	ND	F1	2.08	ND	F1	ug/L		0	38 - 102
Hexachloroethane	ND	F2 F1	2.08	1.12		ug/L		54	46 - 100
Indeno[1,2,3-cd]pyrene	ND		2.08	1.35		ug/L		65	54 - 100
Isophorone	ND		2.08	1.52		ug/L		73	50 - 100
Methylphenol, 3 & 4	ND		2.08	1.39		ug/L		67	51 - 100
Nitrobenzene	ND		2.08	1.62	J	ug/L		78	47 - 100
N-Nitrosodi-n-propylamine	ND		2.08	1.49		ug/L		72	43 - 103
N-Nitrosodiphenylamine	ND		2.08	1.20		ug/L		57	53 - 100
Pentachlorophenol	ND		4.17	2.15		ug/L		52	35 - 102
Phenanthrene	ND		2.08	1.33		ug/L		64	53 - 100
Phenol	ND		2.08	1.46		ug/L		70	49 - 100
Pyrene	ND		2.08	1.40		ug/L		67	53 - 100

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	31		23 - 128
2-Fluorobiphenyl	34		20 - 105
2-Fluorophenol (Surr)	39		20 - 105
Nitrobenzene-d5 (Surr)	43		20 - 107
Phenol-d5 (Surr)	38		20 - 106
Terphenyl-d14 (Surr)	34		22 - 120

QC Sample Results

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

Job ID: 180-173098-1

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

Lab Sample ID: 180-173098-3 MSD

Matrix: Water

Analysis Batch: 467554

Client Sample ID: SUPE-W-06C-042524

Prep Type: Total/NA

Prep Batch: 467117

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,2,4-Trichlorobenzene	ND	F1	2.08	1.19		ug/L		57	51 - 100	13	15
1,2-Dichlorobenzene	ND		2.08	1.13		ug/L		54	51 - 100	4	16
1,3-Dichlorobenzene	ND		2.08	1.07		ug/L		51	51 - 100	3	15
1,4-Dichlorobenzene	ND	F1	2.08	1.04	F1	ug/L		50	52 - 100	6	15
1-Methylnaphthalene	0.089	J	2.08	1.24		ug/L		55	53 - 100	1	15
2,3,4,6-Tetrachlorophenol	ND		2.08	1.11		ug/L		53	50 - 100	12	21
2,4,5-Trichlorophenol	ND		2.08	1.31		ug/L		63	55 - 100	2	18
2,4,6-Trichlorophenol	ND		2.08	1.30		ug/L		62	54 - 100	4	16
2,4-Dichlorophenol	ND		2.08	1.37		ug/L		66	55 - 100	1	15
2,4-Dimethylphenol	ND	F1	2.08	1.07		ug/L		51	51 - 100	4	16
2,4-Dinitrophenol	ND	F1	4.17	ND	F1	ug/L		0	32 - 100	NC	19
2,4-Dinitrotoluene	ND		2.08	1.59		ug/L		76	56 - 100	11	16
2,6-Dinitrotoluene	ND		2.08	1.57		ug/L		75	56 - 101	10	16
2-Chloronaphthalene	ND		2.08	1.23		ug/L		59	52 - 100	4	15
2-Chlorophenol	ND		2.08	1.44		ug/L		69	53 - 100	6	17
2-Methylnaphthalene	0.18	J	2.08	1.30		ug/L		54	53 - 100	2	15
2-Methylphenol	ND		2.08	1.41		ug/L		68	51 - 100	3	16
2-Nitroaniline	ND		2.08	1.77	J	ug/L		85	47 - 104	2	18
2-Nitrophenol	ND		2.08	1.24		ug/L		59	56 - 100	13	15
3,3'-Dichlorobenzidine	ND	F1	2.08	0.848	J F1	ug/L		41	42 - 100	4	15
3-Nitroaniline	ND		2.08	1.18	J	ug/L		57	54 - 100	12	15
4,6-Dinitro-2-methylphenol	ND		4.17	2.47	J	ug/L		59	48 - 100	1	15
4-Bromophenyl phenyl ether	ND		2.08	1.23		ug/L		59	50 - 100	7	15
4-Chloro-3-methylphenol	ND		2.08	1.41		ug/L		67	47 - 105	1	18
4-Chloroaniline	ND	F1	2.08	0.867	J F1	ug/L		42	48 - 100	4	15
4-Chlorophenyl phenyl ether	ND		2.08	1.38		ug/L		66	52 - 100	2	16
4-Nitroaniline	ND		2.08	1.35	J	ug/L		65	54 - 100	7	16
4-Nitrophenol	ND		4.17	2.80	J	ug/L		67	37 - 120	1	18
Acenaphthene	ND		2.08	1.28		ug/L		61	51 - 100	4	15
Acenaphthylene	ND		2.08	1.18		ug/L		57	54 - 100	3	16
Anthracene	ND		2.08	1.31		ug/L		63	54 - 100	0	15
Benzo[a]anthracene	ND		2.08	1.45		ug/L		70	52 - 100	5	15
Benzo[a]pyrene	ND		2.08	1.35		ug/L		65	52 - 100	8	16
Benzo[b]fluoranthene	ND		2.08	1.22		ug/L		59	50 - 100	0	15
Benzo[g,h,i]perylene	ND		2.08	1.34		ug/L		64	53 - 100	8	15
Benzo[k]fluoranthene	ND		2.08	1.34		ug/L		64	49 - 100	6	20
Benzoic acid	ND		2.08	ND		ug/L		NC	31 - 122	NC	32
Benzyl alcohol	ND	F1	2.08	ND	F1	ug/L		0	33 - 107	NC	35
Bis(2-chloroethoxy)methane	ND		2.08	1.36		ug/L		65	49 - 100	2	15
Bis(2-chloroethyl)ether	ND		2.08	1.30		ug/L		63	46 - 100	7	17
Bis(2-ethylhexyl) phthalate	ND		2.08	ND		ug/L		NC	52 - 101	NC	15
bis(chloroisopropyl) ether	ND	*+	2.08	2.01		ug/L		97	29 - 102	3	16
Butyl benzyl phthalate	ND		2.08	1.63	J	ug/L		78	52 - 100	8	15
Chrysene	ND		2.08	1.41		ug/L		68	51 - 100	6	15
Dibenz(a,h)anthracene	ND		2.08	1.33		ug/L		64	52 - 101	1	15
Dibenzofuran	ND		2.08	1.28		ug/L		61	53 - 100	2	16
Diethyl phthalate	ND		2.08	1.42		ug/L		68	52 - 100	3	15
Dimethyl phthalate	ND		2.08	1.58	J	ug/L		76	55 - 100	3	15

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QC Sample Results

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

Job ID: 180-173098-1

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

Lab Sample ID: 180-173098-3 MSD

Matrix: Water

Analysis Batch: 467554

Client Sample ID: SUPE-W-06C-042524

Prep Type: Total/NA

Prep Batch: 467117

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Di-n-butyl phthalate	ND		2.08	ND		ug/L		NC	57 - 100	NC		15
Di-n-octyl phthalate	ND		2.08	1.20		ug/L		57	41 - 100	3		17
Fluoranthene	ND		2.08	1.35		ug/L		65	56 - 100	3		15
Fluorene	ND		2.08	1.31		ug/L		63	53 - 100	2		17
Hexachlorobenzene	ND		2.08	1.21		ug/L		58	46 - 100	4		15
Hexachlorobutadiene	ND		2.08	1.10		ug/L		53	42 - 101	6		15
Hexachlorocyclopentadiene	ND	F1	2.08	ND	F1	ug/L		0	38 - 102	NC		16
Hexachloroethane	ND	F2 F1	2.08	0.933	J F1 F2	ug/L		45	46 - 100	18		16
Indeno[1,2,3-cd]pyrene	ND		2.08	1.36		ug/L		65	54 - 100	1		16
Isophorone	ND		2.08	1.54		ug/L		74	50 - 100	1		15
Methylphenol, 3 & 4	ND		2.08	1.42		ug/L		68	51 - 100	2		18
Nitrobenzene	ND		2.08	1.73	J	ug/L		83	47 - 100	6		16
N-Nitrosodi-n-propylamine	ND		2.08	1.48		ug/L		71	43 - 103	1		16
N-Nitrosodiphenylamine	ND		2.08	1.13		ug/L		54	53 - 100	6		16
Pentachlorophenol	ND		4.17	2.13		ug/L		51	35 - 102	1		17
Phenanthrene	ND		2.08	1.35		ug/L		65	53 - 100	1		15
Phenol	ND		2.08	1.40		ug/L		67	49 - 100	4		17
Pyrene	ND		2.08	1.48		ug/L		71	53 - 100	6		15

Surrogate	MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	33		23 - 128
2-Fluorobiphenyl	33		20 - 105
2-Fluorophenol (Surr)	38		20 - 105
Nitrobenzene-d5 (Surr)	43		20 - 107
Phenol-d5 (Surr)	37		20 - 106
Terphenyl-d14 (Surr)	33		22 - 120

QC Association Summary

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

Job ID: 180-173098-1

GC/MS VOA

Analysis Batch: 710122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-173098-1	SUPE-W-10AR2-042524	Total/NA	Water	8260C	
180-173098-2	SUPE-M-99B-042524	Total/NA	Water	8260C	
MB 480-710122/9	Method Blank	Total/NA	Water	8260C	
LCS 480-710122/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 710140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-173098-4	SUPE-TB-2-042524	Total/NA	Water	8260C	
180-173098-5	SUPE-FB-2-042524	Total/NA	Water	8260C	
180-173098-6	SUPE-W-12A-042524	Total/NA	Water	8260C	
MB 480-710140/8	Method Blank	Total/NA	Water	8260C	
LCS 480-710140/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 710397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-173098-3	SUPE-W-06C-042524	Total/NA	Water	8260C	
MB 480-710397/8	Method Blank	Total/NA	Water	8260C	
LCS 480-710397/6	Lab Control Sample	Total/NA	Water	8260C	
180-173098-3 MS	SUPE-W-06C-042524	Total/NA	Water	8260C	
180-173098-3 MSD	SUPE-W-06C-042524	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 467117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-173098-1	SUPE-W-10AR2-042524	Total/NA	Water	3520C	
180-173098-2	SUPE-M-99B-042524	Total/NA	Water	3520C	
180-173098-3	SUPE-W-06C-042524	Total/NA	Water	3520C	
180-173098-5	SUPE-FB-2-042524	Total/NA	Water	3520C	
180-173098-6	SUPE-W-12A-042524	Total/NA	Water	3520C	
MB 180-467117/1-A	Method Blank	Total/NA	Water	3520C	
LCS 180-467117/2-A	Lab Control Sample	Total/NA	Water	3520C	
180-173098-3 MS	SUPE-W-06C-042524	Total/NA	Water	3520C	
180-173098-3 MSD	SUPE-W-06C-042524	Total/NA	Water	3520C	

Analysis Batch: 467554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-173098-1	SUPE-W-10AR2-042524	Total/NA	Water	EPA 8270E LL	467117
180-173098-2	SUPE-M-99B-042524	Total/NA	Water	EPA 8270E LL	467117
180-173098-3	SUPE-W-06C-042524	Total/NA	Water	EPA 8270E LL	467117
180-173098-5	SUPE-FB-2-042524	Total/NA	Water	EPA 8270E LL	467117
180-173098-6	SUPE-W-12A-042524	Total/NA	Water	EPA 8270E LL	467117
MB 180-467117/1-A	Method Blank	Total/NA	Water	EPA 8270E LL	467117
LCS 180-467117/2-A	Lab Control Sample	Total/NA	Water	EPA 8270E LL	467117
180-173098-3 MS	SUPE-W-06C-042524	Total/NA	Water	EPA 8270E LL	467117
180-173098-3 MSD	SUPE-W-06C-042524	Total/NA	Water	EPA 8270E LL	467117

Eurofins Pittsburgh



Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# **502145**



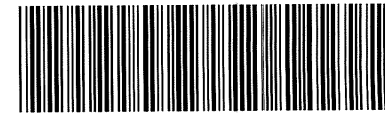
Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET PIT
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8270D_SVOC (less naphtha) (Chicago)														Notes:				
						Preservative	Total Bottle Count																
04/25/2024	1019	GW	SUPE-W-10AR2-042524	2	2																		
04/25/2024	1400	GW	SUPE-M-99B-042524	2	2																		

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180-173098 Chain of Custody

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
				<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Trevor Lowe	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: E.PITME	Firm:	Firm:	
Date/Time: 04/25/2024 12:15	Date/Time: 4/26/24 0910	Date/Time:	Date/Time:	

5/7/2024



CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502144



Ref 210311

Project Name: Superior, WI - 2024 OM&M Program
Project Number: OM-0556-24
Laboratory: EET BUF
Shipment Method: FEDEX
Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis																	Notes:
				Preservative	8260C_VOA+naphtha (Buffalo)																
					HCL																
				Total Bottle Count																	
04/25/2024	1019	GW	SUPE-W-10AR2-042524	3	3																
04/25/2024	1400	GW	SUPE-M-99B-042524	3	3																

Page 35 of 47

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
				<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Trevor Lowe	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EET/BU	Firm:	Firm:	
Date/Time: 04/25/2024 12:15	Date/Time: 4/26/2024 09:10	Date/Time:	Date/Time:	



CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502150



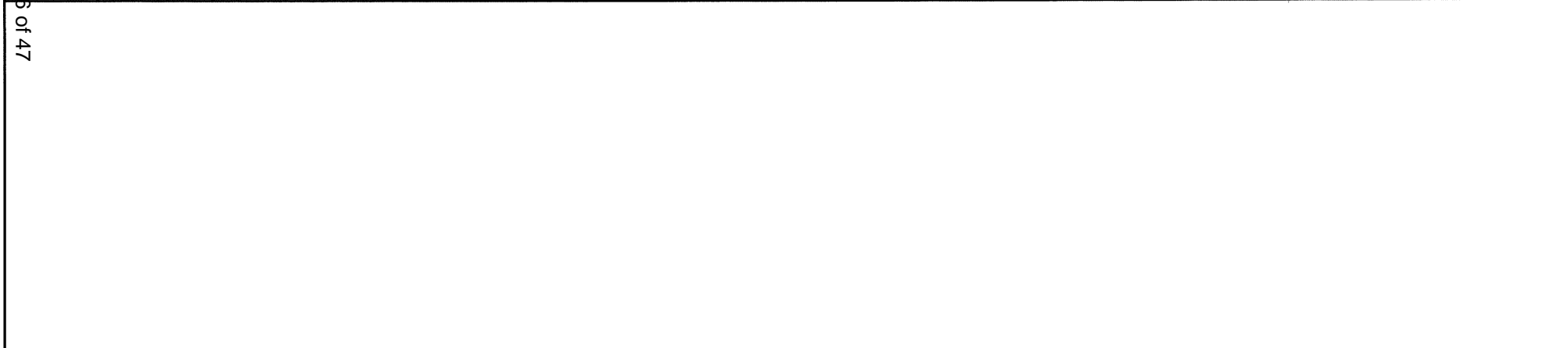
Ref 210311

Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET BUF
 Shipment Method FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8260C_VOA+naphtha (Buffalo)															Notes:							
						Preservative																					
				Total Bottle Count																							
04/25/2024	0931	GW	SUPE-W-06CMS/MSD-042524	6	6																						
04/25/2024	0931	GW	SUPE-W-06C-042524	3	3																						
04/25/2024	0931	GW	SUPE-TB-2-042524	3	3																						



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Carter Auch	Printed Name: Rachel Ostor	Printed Name:	Printed Name:	
Firm: FTS	Firm: EET BUF	Firm:	Firm:	
Date/Time: 04/25/2024 12:54	Date/Time: 4/26/24 0910	Date/Time:	Date/Time:	

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Ref 210311

Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET PIT
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8270D_SVOC (less naphtha) (Chicago)																	Notes:
						Preservative	Total Bottle Count															
				None																		
04/25/2024	1056	GW	SUPE-FB-2-042524	2	2																	
04/25/2024	1056	GW	SUPE-W-12A-042524	2	2																	

Page 38 of 47

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
				<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Rianna Soltis	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EP: HNE	Firm:	Firm:	
Date/Time: 04/25/2024 13:47	Date/Time: 4/26/24 09:10	Date/Time:	Date/Time:	





Ref 210311

Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET BUF
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8260C_VOA+naphtha (Buffalo)													Notes:		
						Preservative	Total Bottle Count													
04/25/2024	1056	GW	SUPE-FB-2-042524	3	3															
04/25/2024	1056	GW	SUPE-W-12A-042524	3	3															

Page 39 of 47

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Rianna Soltis	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: E.D. HNE	Firm:	Firm:	
Date/Time: 04/25/2024 13:17	Date/Time: 4/26/24 0910	Date/Time:	Date/Time:	

Ref: RETURN
Dep:

Date: 09Apr24
Wt: 20.00 LBS

DV:

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Orig. PRIORITY OVERNIGHT
Master 7224 1464 6250
TRACK: 7224 1464 6308

RT 198

1 10:30

A

FZ 197

6308
04.26

ORIGIN ID: AGCA (218) 591-0409
STEVEN WILLIS
KOPPERS INC RAILROAD PRODUCTS & SER
3185 SOUTH COUNTRY ROAD A

SHIP DATE: 09APR24
ACTWGT: 20.00 LB MAN
CAD: 0522321/CAFE3755

SUPERIOR, WI 54880
UNITED STATES US

TO **SAMPLE RECEIVING DEPARTMENT**
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 983-7630

REF: RETURN

RMA: ||| ||| |||

Uncorrected temp 5.0 20 °C
Thermometer ID

CF 0.2 Initials *pd*

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



EX# 7224 1464 6303
0221

FRI - 26 APR 10:30 AM
PRIORITY OVERNIGHT

XS AGCA

15238 3
PA-US PIT



Ref 210311

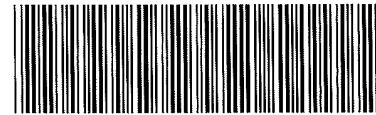
Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET KNOX
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis													Notes:								
				8290_Dioxins/Furans (Knoxville) (1L)																					
				Preservative	None																				
				Total Bottle Count																					
04/25/2024	1056	GW	SUPE-W-12A-042524	2	2																				
04/25/2024	1056	GW	SUPE-FB-2-042524	2	2																				

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180-173098 Chain of Custody

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Rianna Soltis	Printed Name: Christopher Richman	Printed Name:	Printed Name:	
Firm: FTS	Firm: ETA JENX	Firm:	Firm:	
Date/Time: 04/25/2024 10:56	Date/Time: 4-26-24 10:00	Date/Time:	Date/Time:	

5/7/2024





CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502146

Ref 210311

Project Name: Superior, WI - 2024 OM&M Program
Project Number: OM-0556-24
Laboratory: EET KNOX
Shipment Method: FEDEX
Program: Superior 2024 1SA Sampling

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

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

Table with columns: Sample Date, Sample Time, Matrix, Sample Identification, Analysis, 8290_Dioxins/Furans (Knoxville) (1L), Preservative, Total Bottle Count, and Notes. Contains two rows of sample data.

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Relinquished by/Received by table with signature lines, printed names (Trevor Lowe, Christopher Rickman), firms (FTS, ETA KNOX), and dates. Includes Turnaround Requirements section with 'Standard' selected.

5/7/2024



CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502149

Ref 210311

Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET KNOX
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis													Notes:		
				Preservative	8290_Dioxins/Furans (Knoxville) (1L)														
				Total Bottle Count															
04/25/2024	0931	GW	SUPE-TB-2-042524	0	0														
04/25/2024	0931	GW	SUPE-W-06C-042524	2	2														
04/25/2024	0931	GW	SUPE-W-06CMS/MSD-042524	0	0														

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Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Carter Auch	Printed Name: Christopher Dieckman	Printed Name:	Printed Name:	
Firm: FTS	Firm: ETA Knox	Firm:	Firm:	
Date/Time: 04/25/2024 1254	Date/Time: 4-26-24 1000	Date/Time:	Date/Time:	

5/7/2024

EUROFINS KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken																	
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	Custody Seal Intact Received at BT 1.3 CT 1.5°C LAB 4-26-24 FedEx PO # 273896295759 Labeling Verified by: _____ Date: _____ pH test strip lot number: _____																	
2. Were ambient air containers received intact?			/	<input type="checkbox"/> Checked in lab																		
3. The coolers/containers custody seal if present, is it intact?	/			<input type="checkbox"/> Yes <input type="checkbox"/> NA																		
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID: <u>SL 76</u> Correction factor: <u>+0.2°C</u>	/			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt																		
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken																		
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel																		
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<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 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 type="checkbox"/> COC; No Date/Time; Client Contacted																		
10. Was the sampler identified on the COC?			/	<input type="checkbox"/> Sampler Not Listed on COC																		
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete																		
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC																		
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete																		
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete																		
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt		<table border="1"> <thead> <tr> <th>Box 16A: pH Preservation</th> <th>Box 18A: Residual Chlorine</th> </tr> </thead> <tbody> <tr> <td>Preservative: _____</td> <td></td> </tr> <tr> <td>Lot Number: _____</td> <td></td> </tr> <tr> <td>Exp Date: _____</td> <td></td> </tr> <tr> <td>Analyst: _____</td> <td></td> </tr> <tr> <td>Date: _____</td> <td></td> </tr> <tr> <td>Time: _____</td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>	Box 16A: pH Preservation	Box 18A: Residual Chlorine	Preservative: _____		Lot Number: _____		Exp Date: _____		Analyst: _____		Date: _____		Time: _____			
Box 16A: pH Preservation	Box 18A: Residual Chlorine																					
Preservative: _____																						
Lot Number: _____																						
Exp Date: _____																						
Analyst: _____																						
Date: _____																						
Time: _____																						
16. Were samples received with correct chemical preservative (excluding Encore)?			/	<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative																		
17. Were VOA samples received without headspace?			/	<input type="checkbox"/> Headspace (VOA only)																		
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____			/	<input type="checkbox"/> Residual Chlorine																		
19. For 1613B water samples is pH<9?			/	<input type="checkbox"/> If no, notify lab to adjust																		
20. For rad samples was sample activity info. Provided?			/	<input type="checkbox"/> Project missing info																		
Project #: <u>14015916</u> PM Instructions: _____																						

Sample Receiving Associate: CM Beltran Date: 4-26-24

QA026R33.doc, 11/10/23



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM: Brown, Shali			Carrier Tracking No(s):			COC No: 180-513193.1					
Client Contact: Shipping/Receiving		Phone:		E-Mail: Shali.Brown@et.euofinsus.com			State of Origin: Wisconsin			Page: Page 1 of 1					
Company: Euofins Environment Testing Northeast				Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin						Job #: 180-173098-1					
Address: 10 Hazelwood Drive, City: Amherst State, Zip: NY, 14228-2298 Phone: 716-691-2600(Tel) 716-691-7991(Fax) Email:		Due Date Requested: 5/16/2024 TAT Requested (days):		Analysis Requested						Preservation Codes:					
Project Name: Superior, WI Semiannual Groundwater		Project #: 18015916													
Site:		SSOW#:													
Project #:		SSOW#:													
Project Name: Superior, WI Semiannual Groundwater		Project #: 18015916		Field Filtered Sample (Yes or No)						Total Number of containers					
Site:		SSOW#:		Perform MS/MSD (Yes or No)											
Site:		SSOW#:		8260C/5030C (MOD) Volatiles, project list						Other:					
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note:					
										Preservation Code:					
SUPE-W-10AR2-042524 (180-173098-1)		4/25/24		10:19 Central				Water		3 Refer to PT-PM-WI-006 for Wisconsin Protocol					
SUPE-M-99B-042524 (180-173098-2)		4/25/24		14:00 Central				Water		3 Refer to PT-PM-WI-006 for Wisconsin Protocol					
SUPE-W-06C-042524 (180-173098-3)		4/25/24		09:31 Central				Water		3 Refer to PT-PM-WI-006 for Wisconsin Protocol					
SUPE-W-06C-042524 (180-173098-3MS)		4/25/24		09:31 Central		MS		Water		3 Refer to PT-PM-WI-006 for Wisconsin Protocol					
SUPE-W-06C-042524 (180-173098-3MSD)		4/25/24		09:31 Central		MSD		Water		3 Refer to PT-PM-WI-006 for Wisconsin Protocol					
SUPE-TB-2-042524 (180-173098-4)		4/25/24		09:31 Central				Water		2 Refer to PT-PM-WI-006 for Wisconsin Protocol					
SUPE-FB-2-042524 (180-173098-5)		4/25/24		10:56 Central				Water		3 Refer to PT-PM-WI-006 for Wisconsin Protocol					
SUPE-W-12A-042524 (180-173098-6)		4/25/24		10:56 Central				Water		3 Refer to PT-PM-WI-006 for Wisconsin Protocol					
<p>Note: Since laboratory accreditations are subject to change, Euofins 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/tests/matrix being analyzed, the samples must be shipped back to the Euofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Euofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Euofins Pittsburgh.</p>															
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested: I, II, III, IV, Other (specify)						Primary Deliverable Rank: 2									
Special Instructions/QC Requirements:															
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:							
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:					
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:											
Δ Yes Δ No				2-7 TCC											



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-173098-1

Login Number: 173098

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 <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: 180-173098-1

Login Number: 173098

List Number: 2

Creator: Yeager, Brian A

List Source: Eurofins Buffalo

List Creation: 04/30/24 03:25 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7 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 5/23/2024 11:55:40 AM

JOB DESCRIPTION

Superior, WI Semiannual Groundwater

JOB NUMBER

180-173098-2

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



Generated
5/23/2024 11:55:40 AM

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



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Case Narrative

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

Job ID: 180-173098-2

Job ID: 180-173098-2

Eurofins Pittsburgh

Job Narrative 180-173098-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/26/2024 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C.

Dioxin

Method 8290A: The following samples required a Gel-Permeation clean up, via EPA method 3640A, to reduce matrix interference: SUPE-W-10AR2-042524 (180-173098-1), SUPE-M-99B-042524 (180-173098-2), SUPE-W-06C-042524 (180-173098-3), SUPE-FB-2-042524 (180-173098-5) and SUPE-W-12A-042524 (180-173098-6).

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

Eurofins Pittsburgh

Definitions/Glossary

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

Job ID: 180-173098-2

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: 180-173098-2

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	08-31-24

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: 180-173098-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-173098-1	SUPE-W-10AR2-042524	Water	04/25/24 10:19	04/26/24 09:10
180-173098-2	SUPE-M-99B-042524	Water	04/25/24 14:00	04/26/24 09:10
180-173098-3	SUPE-W-06C-042524	Water	04/25/24 09:31	04/26/24 09:10
180-173098-5	SUPE-FB-2-042524	Water	04/25/24 10:56	04/26/24 09:10
180-173098-6	SUPE-W-12A-042524	Water	04/25/24 10:56	04/26/24 09:10

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Method Summary

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

Job ID: 180-173098-2

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: 180-173098-2

Client Sample ID: SUPE-W-10AR2-042524

Lab Sample ID: 180-173098-1

Date Collected: 04/25/24 10:19

Matrix: Water

Date Received: 04/26/24 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			1032.5 mL	20 uL	86150	04/30/24 09:12	CMS	EET KNX
Total/NA	Analysis	8290A		1			86938	05/22/24 14:47	HMT	EET KNX
Instrument ID: D4A										

Client Sample ID: SUPE-M-99B-042524

Lab Sample ID: 180-173098-2

Date Collected: 04/25/24 14:00

Matrix: Water

Date Received: 04/26/24 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			1041.3 mL	20 uL	86150	04/30/24 09:12	CMS	EET KNX
Total/NA	Analysis	8290A		1			86938	05/22/24 15:47	HMT	EET KNX
Instrument ID: D4A										

Client Sample ID: SUPE-W-06C-042524

Lab Sample ID: 180-173098-3

Date Collected: 04/25/24 09:31

Matrix: Water

Date Received: 04/26/24 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			1038.4 mL	20 uL	86150	04/30/24 09:12	CMS	EET KNX
Total/NA	Analysis	8290A		1			86938	05/22/24 16:47	HMT	EET KNX
Instrument ID: D4A										

Client Sample ID: SUPE-FB-2-042524

Lab Sample ID: 180-173098-5

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 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			1041.1 mL	20 uL	86150	04/30/24 09:12	CMS	EET KNX
Total/NA	Analysis	8290A		1			86938	05/22/24 17:47	HMT	EET KNX
Instrument ID: D4A										

Client Sample ID: SUPE-W-12A-042524

Lab Sample ID: 180-173098-6

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 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			1039.9 mL	20 uL	86150	04/30/24 09:12	CMS	EET KNX
Total/NA	Analysis	8290A		1			86938	05/22/24 18:47	HMT	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: 180-173098-2

Analyst References:

Lab: EET KNX

Batch Type: Prep

CMS = Claire Stamper

Batch Type: Analysis

HMT = Holly Taj

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Client Sample Results

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

Job ID: 180-173098-2

Client Sample ID: SUPE-W-10AR2-042524

Lab Sample ID: 180-173098-1

Date Collected: 04/25/24 10:19

Matrix: Water

Date Received: 04/26/24 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	0.27	pg/L		04/30/24 09:12	05/22/24 14:47	1
Total TCDD	ND		9.7	0.27	pg/L		04/30/24 09:12	05/22/24 14:47	1
1,2,3,7,8-PeCDD	ND		48	0.18	pg/L		04/30/24 09:12	05/22/24 14:47	1
Total PeCDD	ND		48	0.18	pg/L		04/30/24 09:12	05/22/24 14:47	1
1,2,3,4,7,8-HxCDD	ND		48	0.36	pg/L		04/30/24 09:12	05/22/24 14:47	1
1,2,3,6,7,8-HxCDD	ND		48	0.33	pg/L		04/30/24 09:12	05/22/24 14:47	1
1,2,3,7,8,9-HxCDD	ND		48	0.33	pg/L		04/30/24 09:12	05/22/24 14:47	1
Total HxCDD	7.0	J I B	48	0.34	pg/L		04/30/24 09:12	05/22/24 14:47	1
1,2,3,4,6,7,8-HpCDD	13	J	48	0.49	pg/L		04/30/24 09:12	05/22/24 14:47	1
Total HpCDD	40	J I	48	0.49	pg/L		04/30/24 09:12	05/22/24 14:47	1
OCDD	110	B	97	0.17	pg/L		04/30/24 09:12	05/22/24 14:47	1
2,3,7,8-TCDF	ND		9.7	0.27	pg/L		04/30/24 09:12	05/22/24 14:47	1
Total TCDF	5.5	J I	9.7	0.27	pg/L		04/30/24 09:12	05/22/24 14:47	1
1,2,3,7,8-PeCDF	ND		48	0.31	pg/L		04/30/24 09:12	05/22/24 14:47	1
2,3,4,7,8-PeCDF	ND		48	0.28	pg/L		04/30/24 09:12	05/22/24 14:47	1
Total PeCDF	8.6	J I	48	0.30	pg/L		04/30/24 09:12	05/22/24 14:47	1
1,2,3,4,7,8-HxCDF	ND		48	0.57	pg/L		04/30/24 09:12	05/22/24 14:47	1
1,2,3,6,7,8-HxCDF	1.5	J I	48	0.62	pg/L		04/30/24 09:12	05/22/24 14:47	1
2,3,4,6,7,8-HxCDF	ND		48	0.66	pg/L		04/30/24 09:12	05/22/24 14:47	1
1,2,3,7,8,9-HxCDF	ND		48	0.77	pg/L		04/30/24 09:12	05/22/24 14:47	1
Total HxCDF	21	J I	48	0.65	pg/L		04/30/24 09:12	05/22/24 14:47	1
1,2,3,4,6,7,8-HpCDF	5.6	J	48	0.68	pg/L		04/30/24 09:12	05/22/24 14:47	1
1,2,3,4,7,8,9-HpCDF	ND		48	0.95	pg/L		04/30/24 09:12	05/22/24 14:47	1
Total HpCDF	12	J	48	0.82	pg/L		04/30/24 09:12	05/22/24 14:47	1
OCDF	19	J B	97	0.10	pg/L		04/30/24 09:12	05/22/24 14:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	74		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-1,2,3,7,8-PeCDD	76		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-1,2,3,4,7,8-HxCDD	70		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-1,2,3,6,7,8-HxCDD	81		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-1,2,3,4,6,7,8-HpCDD	72		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-OCDD	65		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-2,3,7,8-TCDF	79		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-1,2,3,7,8-PeCDF	82		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-2,3,4,7,8-PeCDF	80		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-1,2,3,4,7,8-HxCDF	85		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-1,2,3,6,7,8-HxCDF	81		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-2,3,4,6,7,8-HxCDF	82		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-1,2,3,7,8,9-HxCDF	83		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-1,2,3,4,6,7,8-HpCDF	77		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-1,2,3,4,7,8,9-HpCDF	73		40 - 135	04/30/24 09:12	05/22/24 14:47	1
13C-OCDF	59		40 - 135	04/30/24 09:12	05/22/24 14:47	1

Client Sample ID: SUPE-M-99B-042524

Lab Sample ID: 180-173098-2

Date Collected: 04/25/24 14:00

Matrix: Water

Date Received: 04/26/24 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	0.25	pg/L		04/30/24 09:12	05/22/24 15:47	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-173098-2

Client Sample ID: SUPE-M-99B-042524

Lab Sample ID: 180-173098-2

Date Collected: 04/25/24 14:00

Matrix: Water

Date Received: 04/26/24 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		9.6	0.25	pg/L		04/30/24 09:12	05/22/24 15:47	1
1,2,3,7,8-PeCDD	ND		48	0.38	pg/L		04/30/24 09:12	05/22/24 15:47	1
Total PeCDD	0.65	J I	48	0.38	pg/L		04/30/24 09:12	05/22/24 15:47	1
1,2,3,4,7,8-HxCDD	1.9	J I B	48	0.47	pg/L		04/30/24 09:12	05/22/24 15:47	1
1,2,3,6,7,8-HxCDD	0.81	J I	48	0.41	pg/L		04/30/24 09:12	05/22/24 15:47	1
1,2,3,7,8,9-HxCDD	ND		48	0.42	pg/L		04/30/24 09:12	05/22/24 15:47	1
Total HxCDD	10	J I B	48	0.43	pg/L		04/30/24 09:12	05/22/24 15:47	1
1,2,3,4,6,7,8-HpCDD	16	J	48	2.0	pg/L		04/30/24 09:12	05/22/24 15:47	1
Total HpCDD	56		48	2.0	pg/L		04/30/24 09:12	05/22/24 15:47	1
OCDD	160	B	96	0.76	pg/L		04/30/24 09:12	05/22/24 15:47	1
2,3,7,8-TCDF	ND		9.6	0.24	pg/L		04/30/24 09:12	05/22/24 15:47	1
Total TCDF	12	I	9.6	0.24	pg/L		04/30/24 09:12	05/22/24 15:47	1
1,2,3,7,8-PeCDF	ND		48	0.29	pg/L		04/30/24 09:12	05/22/24 15:47	1
2,3,4,7,8-PeCDF	0.30	J I	48	0.26	pg/L		04/30/24 09:12	05/22/24 15:47	1
Total PeCDF	11	J I	48	0.27	pg/L		04/30/24 09:12	05/22/24 15:47	1
1,2,3,4,7,8-HxCDF	ND		48	1.2	pg/L		04/30/24 09:12	05/22/24 15:47	1
1,2,3,6,7,8-HxCDF	2.3	J I	48	1.2	pg/L		04/30/24 09:12	05/22/24 15:47	1
2,3,4,6,7,8-HxCDF	ND		48	1.3	pg/L		04/30/24 09:12	05/22/24 15:47	1
1,2,3,7,8,9-HxCDF	ND		48	1.4	pg/L		04/30/24 09:12	05/22/24 15:47	1
Total HxCDF	22	J I	48	1.3	pg/L		04/30/24 09:12	05/22/24 15:47	1
1,2,3,4,6,7,8-HpCDF	3.2	J	48	0.72	pg/L		04/30/24 09:12	05/22/24 15:47	1
1,2,3,4,7,8,9-HpCDF	ND		48	0.96	pg/L		04/30/24 09:12	05/22/24 15:47	1
Total HpCDF	10	J	48	0.84	pg/L		04/30/24 09:12	05/22/24 15:47	1
OCDF	9.6	J B	96	0.33	pg/L		04/30/24 09:12	05/22/24 15:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	59		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-1,2,3,7,8-PeCDD	55		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-1,2,3,4,7,8-HxCDD	57		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-1,2,3,6,7,8-HxCDD	65		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-1,2,3,4,6,7,8-HpCDD	62		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-OCDD	57		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-2,3,7,8-TCDF	62		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-1,2,3,7,8-PeCDF	60		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-2,3,4,7,8-PeCDF	60		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-1,2,3,4,7,8-HxCDF	70		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-1,2,3,6,7,8-HxCDF	67		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-2,3,4,6,7,8-HxCDF	68		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-1,2,3,7,8,9-HxCDF	69		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-1,2,3,4,6,7,8-HpCDF	65		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-1,2,3,4,7,8,9-HpCDF	64		40 - 135	04/30/24 09:12	05/22/24 15:47	1
13C-OCDF	53		40 - 135	04/30/24 09:12	05/22/24 15:47	1

Client Sample ID: SUPE-W-06C-042524

Lab Sample ID: 180-173098-3

Date Collected: 04/25/24 09:31

Matrix: Water

Date Received: 04/26/24 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	0.24	pg/L		04/30/24 09:12	05/22/24 16:47	1
Total TCDD	ND		9.6	0.24	pg/L		04/30/24 09:12	05/22/24 16:47	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-173098-2

Client Sample ID: SUPE-W-06C-042524

Lab Sample ID: 180-173098-3

Date Collected: 04/25/24 09:31

Matrix: Water

Date Received: 04/26/24 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	ND		48	0.12	pg/L		04/30/24 09:12	05/22/24 16:47	1
Total PeCDD	1.4	J I	48	0.12	pg/L		04/30/24 09:12	05/22/24 16:47	1
1,2,3,4,7,8-HxCDD	0.78	J I B	48	0.52	pg/L		04/30/24 09:12	05/22/24 16:47	1
1,2,3,6,7,8-HxCDD	ND		48	0.49	pg/L		04/30/24 09:12	05/22/24 16:47	1
1,2,3,7,8,9-HxCDD	ND		48	0.48	pg/L		04/30/24 09:12	05/22/24 16:47	1
Total HxCDD	0.78	J I B	48	0.49	pg/L		04/30/24 09:12	05/22/24 16:47	1
1,2,3,4,6,7,8-HpCDD	2.7	J I	48	1.3	pg/L		04/30/24 09:12	05/22/24 16:47	1
Total HpCDD	18	J I	48	1.3	pg/L		04/30/24 09:12	05/22/24 16:47	1
OCDD	21	J I B	96	0.35	pg/L		04/30/24 09:12	05/22/24 16:47	1
2,3,7,8-TCDF	ND		9.6	0.21	pg/L		04/30/24 09:12	05/22/24 16:47	1
Total TCDF	0.71	J I	9.6	0.21	pg/L		04/30/24 09:12	05/22/24 16:47	1
1,2,3,7,8-PeCDF	ND		48	0.32	pg/L		04/30/24 09:12	05/22/24 16:47	1
2,3,4,7,8-PeCDF	ND		48	0.31	pg/L		04/30/24 09:12	05/22/24 16:47	1
Total PeCDF	ND		48	0.31	pg/L		04/30/24 09:12	05/22/24 16:47	1
1,2,3,4,7,8-HxCDF	ND		48	0.54	pg/L		04/30/24 09:12	05/22/24 16:47	1
1,2,3,6,7,8-HxCDF	ND		48	0.55	pg/L		04/30/24 09:12	05/22/24 16:47	1
2,3,4,6,7,8-HxCDF	ND		48	0.58	pg/L		04/30/24 09:12	05/22/24 16:47	1
1,2,3,7,8,9-HxCDF	ND		48	0.66	pg/L		04/30/24 09:12	05/22/24 16:47	1
Total HxCDF	ND		48	0.66	pg/L		04/30/24 09:12	05/22/24 16:47	1
1,2,3,4,6,7,8-HpCDF	ND		48	0.64	pg/L		04/30/24 09:12	05/22/24 16:47	1
1,2,3,4,7,8,9-HpCDF	ND		48	0.88	pg/L		04/30/24 09:12	05/22/24 16:47	1
Total HpCDF	ND		48	0.88	pg/L		04/30/24 09:12	05/22/24 16:47	1
OCDF	1.0	J I B	96	0.055	pg/L		04/30/24 09:12	05/22/24 16:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	65		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-1,2,3,7,8-PeCDD	60		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-1,2,3,4,7,8-HxCDD	68		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-1,2,3,6,7,8-HxCDD	73		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-1,2,3,4,6,7,8-HpCDD	67		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-OCDD	66		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-2,3,7,8-TCDF	68		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-1,2,3,7,8-PeCDF	66		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-2,3,4,7,8-PeCDF	63		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-1,2,3,4,7,8-HxCDF	80		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-1,2,3,6,7,8-HxCDF	77		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-2,3,4,6,7,8-HxCDF	77		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-1,2,3,7,8,9-HxCDF	79		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-1,2,3,4,6,7,8-HpCDF	73		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-1,2,3,4,7,8,9-HpCDF	68		40 - 135				04/30/24 09:12	05/22/24 16:47	1
13C-OCDF	59		40 - 135				04/30/24 09:12	05/22/24 16:47	1

Client Sample ID: SUPE-FB-2-042524

Lab Sample ID: 180-173098-5

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 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	0.20	pg/L		04/30/24 09:12	05/22/24 17:47	1
Total TCDD	ND		9.6	0.20	pg/L		04/30/24 09:12	05/22/24 17:47	1
1,2,3,7,8-PeCDD	0.35	J I	48	0.35	pg/L		04/30/24 09:12	05/22/24 17:47	1

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Client Sample Results

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

Job ID: 180-173098-2

Client Sample ID: SUPE-FB-2-042524

Lab Sample ID: 180-173098-5

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 09:10

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PeCDD	0.46	J I	48	0.35	pg/L		04/30/24 09:12	05/22/24 17:47	1
1,2,3,4,7,8-HxCDD	1.4	J I B	48	0.29	pg/L		04/30/24 09:12	05/22/24 17:47	1
1,2,3,6,7,8-HxCDD	ND		48	0.25	pg/L		04/30/24 09:12	05/22/24 17:47	1
1,2,3,7,8,9-HxCDD	ND		48	0.25	pg/L		04/30/24 09:12	05/22/24 17:47	1
Total HxCDD	1.4	J I B	48	0.26	pg/L		04/30/24 09:12	05/22/24 17:47	1
1,2,3,4,6,7,8-HpCDD	ND		48	1.1	pg/L		04/30/24 09:12	05/22/24 17:47	1
Total HpCDD	ND		48	1.1	pg/L		04/30/24 09:12	05/22/24 17:47	1
OCDD	2.0	J B	96	0.38	pg/L		04/30/24 09:12	05/22/24 17:47	1
2,3,7,8-TCDF	ND		9.6	0.22	pg/L		04/30/24 09:12	05/22/24 17:47	1
Total TCDF	1.0	J I	9.6	0.22	pg/L		04/30/24 09:12	05/22/24 17:47	1
1,2,3,7,8-PeCDF	ND		48	0.30	pg/L		04/30/24 09:12	05/22/24 17:47	1
2,3,4,7,8-PeCDF	ND		48	0.28	pg/L		04/30/24 09:12	05/22/24 17:47	1
Total PeCDF	ND		48	0.29	pg/L		04/30/24 09:12	05/22/24 17:47	1
1,2,3,4,7,8-HxCDF	ND		48	0.79	pg/L		04/30/24 09:12	05/22/24 17:47	1
1,2,3,6,7,8-HxCDF	ND		48	0.82	pg/L		04/30/24 09:12	05/22/24 17:47	1
2,3,4,6,7,8-HxCDF	ND		48	0.85	pg/L		04/30/24 09:12	05/22/24 17:47	1
1,2,3,7,8,9-HxCDF	ND		48	0.99	pg/L		04/30/24 09:12	05/22/24 17:47	1
Total HxCDF	ND		48	0.99	pg/L		04/30/24 09:12	05/22/24 17:47	1
1,2,3,4,6,7,8-HpCDF	ND		48	0.48	pg/L		04/30/24 09:12	05/22/24 17:47	1
1,2,3,4,7,8,9-HpCDF	ND		48	0.63	pg/L		04/30/24 09:12	05/22/24 17:47	1
Total HpCDF	ND		48	0.63	pg/L		04/30/24 09:12	05/22/24 17:47	1
OCDF	1.5	J I B	96	0.16	pg/L		04/30/24 09:12	05/22/24 17:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	75		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-1,2,3,7,8-PeCDD	70		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-1,2,3,4,7,8-HxCDD	68		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-1,2,3,6,7,8-HxCDD	77		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-1,2,3,4,6,7,8-HpCDD	71		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-OCDD	68		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-2,3,7,8-TCDF	79		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-1,2,3,7,8-PeCDF	76		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-2,3,4,7,8-PeCDF	74		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-1,2,3,4,7,8-HxCDF	82		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-1,2,3,6,7,8-HxCDF	80		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-2,3,4,6,7,8-HxCDF	81		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-1,2,3,7,8,9-HxCDF	80		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-1,2,3,4,6,7,8-HpCDF	75		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-1,2,3,4,7,8,9-HpCDF	72		40 - 135	04/30/24 09:12	05/22/24 17:47	1
13C-OCDF	60		40 - 135	04/30/24 09:12	05/22/24 17:47	1

Client Sample ID: SUPE-W-12A-042524

Lab Sample ID: 180-173098-6

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 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	0.13	pg/L		04/30/24 09:12	05/22/24 18:47	1
Total TCDD	0.95	J I	9.6	0.13	pg/L		04/30/24 09:12	05/22/24 18:47	1
1,2,3,7,8-PeCDD	0.42	J I	48	0.13	pg/L		04/30/24 09:12	05/22/24 18:47	1
Total PeCDD	1.8	J I	48	0.13	pg/L		04/30/24 09:12	05/22/24 18:47	1

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Client Sample Results

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

Job ID: 180-173098-2

Client Sample ID: SUPE-W-12A-042524

Lab Sample ID: 180-173098-6

Date Collected: 04/25/24 10:56

Matrix: Water

Date Received: 04/26/24 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	2.2	J B	48	0.36	pg/L		04/30/24 09:12	05/22/24 18:47	1
1,2,3,6,7,8-HxCDD	4.7	J I	48	0.32	pg/L		04/30/24 09:12	05/22/24 18:47	1
1,2,3,7,8,9-HxCDD	1.3	J B	48	0.32	pg/L		04/30/24 09:12	05/22/24 18:47	1
Total HxCDD	18	J I B	48	0.34	pg/L		04/30/24 09:12	05/22/24 18:47	1
1,2,3,4,6,7,8-HpCDD	57		48	1.0	pg/L		04/30/24 09:12	05/22/24 18:47	1
Total HpCDD	92		48	1.0	pg/L		04/30/24 09:12	05/22/24 18:47	1
OCDD	230	B	96	0.16	pg/L		04/30/24 09:12	05/22/24 18:47	1
2,3,7,8-TCDF	0.63	J I	9.6	0.14	pg/L		04/30/24 09:12	05/22/24 18:47	1
Total TCDF	42	I	9.6	0.14	pg/L		04/30/24 09:12	05/22/24 18:47	1
1,2,3,7,8-PeCDF	ND		48	0.25	pg/L		04/30/24 09:12	05/22/24 18:47	1
2,3,4,7,8-PeCDF	1.4	J I	48	0.23	pg/L		04/30/24 09:12	05/22/24 18:47	1
Total PeCDF	53	I	48	0.24	pg/L		04/30/24 09:12	05/22/24 18:47	1
1,2,3,4,7,8-HxCDF	6.0	J I	48	0.59	pg/L		04/30/24 09:12	05/22/24 18:47	1
1,2,3,6,7,8-HxCDF	4.9	J I	48	0.59	pg/L		04/30/24 09:12	05/22/24 18:47	1
2,3,4,6,7,8-HxCDF	1.1	J I	48	0.69	pg/L		04/30/24 09:12	05/22/24 18:47	1
1,2,3,7,8,9-HxCDF	ND		48	0.77	pg/L		04/30/24 09:12	05/22/24 18:47	1
Total HxCDF	79	I	48	0.66	pg/L		04/30/24 09:12	05/22/24 18:47	1
1,2,3,4,6,7,8-HpCDF	14	J	48	0.41	pg/L		04/30/24 09:12	05/22/24 18:47	1
1,2,3,4,7,8,9-HpCDF	2.4	J	48	0.62	pg/L		04/30/24 09:12	05/22/24 18:47	1
Total HpCDF	40	J	48	0.51	pg/L		04/30/24 09:12	05/22/24 18:47	1
OCDF	19	J B	96	0.051	pg/L		04/30/24 09:12	05/22/24 18:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	68		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-1,2,3,7,8-PeCDD	60		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-1,2,3,4,7,8-HxCDD	71		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-1,2,3,6,7,8-HxCDD	83		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-1,2,3,4,6,7,8-HpCDD	75		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-OCDD	67		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-2,3,7,8-TCDF	68		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-1,2,3,7,8-PeCDF	66		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-2,3,4,7,8-PeCDF	64		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-1,2,3,4,7,8-HxCDF	87		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-1,2,3,6,7,8-HxCDF	82		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-2,3,4,6,7,8-HxCDF	80		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-1,2,3,7,8,9-HxCDF	82		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-1,2,3,4,6,7,8-HpCDF	80		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-1,2,3,4,7,8,9-HpCDF	73		40 - 135				04/30/24 09:12	05/22/24 18:47	1
13C-OCDF	62		40 - 135				04/30/24 09:12	05/22/24 18:47	1

QC Sample Results

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

Job ID: 180-173098-2

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

Lab Sample ID: MB 140-86150/7-A
Matrix: Water
Analysis Batch: 86913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86150

Analyte	MB	MB	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	ND		10	0.24	pg/L		04/30/24 09:12	05/22/24 03:11	1
Total TCDD	ND		10	0.24	pg/L		04/30/24 09:12	05/22/24 03:11	1
1,2,3,7,8-PeCDD	ND		50	0.15	pg/L		04/30/24 09:12	05/22/24 03:11	1
Total PeCDD	ND		50	0.15	pg/L		04/30/24 09:12	05/22/24 03:11	1
1,2,3,4,7,8-HxCDD	0.781	J I	50	0.19	pg/L		04/30/24 09:12	05/22/24 03:11	1
1,2,3,6,7,8-HxCDD	ND		50	0.18	pg/L		04/30/24 09:12	05/22/24 03:11	1
1,2,3,7,8,9-HxCDD	0.576	J I	50	0.18	pg/L		04/30/24 09:12	05/22/24 03:11	1
Total HxCDD	1.36	J I	50	0.18	pg/L		04/30/24 09:12	05/22/24 03:11	1
1,2,3,4,6,7,8-HpCDD	ND		50	0.74	pg/L		04/30/24 09:12	05/22/24 03:11	1
Total HpCDD	ND		50	0.74	pg/L		04/30/24 09:12	05/22/24 03:11	1
OCDD	1.33	J	100	0.14	pg/L		04/30/24 09:12	05/22/24 03:11	1
2,3,7,8-TCDF	ND		10	0.21	pg/L		04/30/24 09:12	05/22/24 03:11	1
Total TCDF	ND		10	0.21	pg/L		04/30/24 09:12	05/22/24 03:11	1
1,2,3,7,8-PeCDF	ND		50	0.28	pg/L		04/30/24 09:12	05/22/24 03:11	1
2,3,4,7,8-PeCDF	ND		50	0.26	pg/L		04/30/24 09:12	05/22/24 03:11	1
Total PeCDF	ND		50	0.28	pg/L		04/30/24 09:12	05/22/24 03:11	1
1,2,3,4,7,8-HxCDF	ND		50	0.49	pg/L		04/30/24 09:12	05/22/24 03:11	1
1,2,3,6,7,8-HxCDF	ND		50	0.50	pg/L		04/30/24 09:12	05/22/24 03:11	1
2,3,4,6,7,8-HxCDF	ND		50	0.53	pg/L		04/30/24 09:12	05/22/24 03:11	1
1,2,3,7,8,9-HxCDF	ND		50	0.57	pg/L		04/30/24 09:12	05/22/24 03:11	1
Total HxCDF	ND		50	0.57	pg/L		04/30/24 09:12	05/22/24 03:11	1
1,2,3,4,6,7,8-HpCDF	ND		50	0.22	pg/L		04/30/24 09:12	05/22/24 03:11	1
1,2,3,4,7,8,9-HpCDF	ND		50	0.30	pg/L		04/30/24 09:12	05/22/24 03:11	1
Total HpCDF	ND		50	0.30	pg/L		04/30/24 09:12	05/22/24 03:11	1
OCDF	0.375	J	100	0.046	pg/L		04/30/24 09:12	05/22/24 03:11	1
	MB	MB					Prepared	Analyzed	Dil Fac
Isotope Dilution	%Recovery	Qualifier	Limits						
13C-2,3,7,8-TCDD	69		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-1,2,3,7,8-PeCDD	65		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-1,2,3,4,7,8-HxCDD	69		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-1,2,3,6,7,8-HxCDD	72		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-1,2,3,4,6,7,8-HpCDD	68		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-OCDD	69		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-2,3,7,8-TCDF	72		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-1,2,3,7,8-PeCDF	74		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-2,3,4,7,8-PeCDF	69		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-1,2,3,4,7,8-HxCDF	76		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-1,2,3,6,7,8-HxCDF	71		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-2,3,4,6,7,8-HxCDF	74		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-1,2,3,7,8,9-HxCDF	77		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-1,2,3,4,6,7,8-HpCDF	69		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-1,2,3,4,7,8,9-HpCDF	66		40 - 135				04/30/24 09:12	05/22/24 03:11	1
13C-OCDF	58		40 - 135				04/30/24 09:12	05/22/24 03:11	1

QC Sample Results

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

Job ID: 180-173098-2

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

Lab Sample ID: LCS 140-86150/6-A
Matrix: Water
Analysis Batch: 86913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 86150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDD	200	200		pg/L		100	77 - 127
1,2,3,7,8-PeCDD	1000	1040		pg/L		104	78 - 128
1,2,3,4,7,8-HxCDD	1000	1100		pg/L		110	73 - 123
1,2,3,6,7,8-HxCDD	1000	1010		pg/L		101	72 - 127
1,2,3,7,8,9-HxCDD	1000	1140		pg/L		114	76 - 126
1,2,3,4,6,7,8-HpCDD	1000	1040		pg/L		104	73 - 123
OCDD	2000	2110		pg/L		106	75 - 125
2,3,7,8-TCDF	200	194		pg/L		97	74 - 124
1,2,3,7,8-PeCDF	1000	1120		pg/L		112	74 - 124
2,3,4,7,8-PeCDF	1000	1080		pg/L		108	74 - 124
1,2,3,4,7,8-HxCDF	1000	950		pg/L		95	75 - 125
1,2,3,6,7,8-HxCDF	1000	1010		pg/L		101	75 - 125
2,3,4,6,7,8-HxCDF	1000	1020		pg/L		102	76 - 126
1,2,3,7,8,9-HxCDF	1000	984		pg/L		98	76 - 126
1,2,3,4,6,7,8-HpCDF	1000	992		pg/L		99	71 - 121
1,2,3,4,7,8,9-HpCDF	1000	1020		pg/L		102	73 - 123
OCDF	2000	2210		pg/L		110	68 - 132

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-2,3,7,8-TCDD	63		40 - 135
13C-1,2,3,7,8-PeCDD	65		40 - 135
13C-1,2,3,4,7,8-HxCDD	61		40 - 135
13C-1,2,3,6,7,8-HxCDD	67		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	62		40 - 135
13C-OCDD	57		40 - 135
13C-2,3,7,8-TCDF	66		40 - 135
13C-1,2,3,7,8-PeCDF	68		40 - 135
13C-2,3,4,7,8-PeCDF	68		40 - 135
13C-1,2,3,4,7,8-HxCDF	68		40 - 135
13C-1,2,3,6,7,8-HxCDF	64		40 - 135
13C-2,3,4,6,7,8-HxCDF	66		40 - 135
13C-1,2,3,7,8,9-HxCDF	70		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	63		40 - 135
13C-1,2,3,4,7,8,9-HpCDF	61		40 - 135
13C-OCDF	51		40 - 135

QC Association Summary

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

Job ID: 180-173098-2

Specialty Organics

Prep Batch: 86150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-173098-1	SUPE-W-10AR2-042524	Total/NA	Water	8290	
180-173098-2	SUPE-M-99B-042524	Total/NA	Water	8290	
180-173098-3	SUPE-W-06C-042524	Total/NA	Water	8290	
180-173098-5	SUPE-FB-2-042524	Total/NA	Water	8290	
180-173098-6	SUPE-W-12A-042524	Total/NA	Water	8290	
MB 140-86150/7-A	Method Blank	Total/NA	Water	8290	
LCS 140-86150/6-A	Lab Control Sample	Total/NA	Water	8290	

Analysis Batch: 86913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 140-86150/7-A	Method Blank	Total/NA	Water	8290A	86150
LCS 140-86150/6-A	Lab Control Sample	Total/NA	Water	8290A	86150

Analysis Batch: 86938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-173098-1	SUPE-W-10AR2-042524	Total/NA	Water	8290A	86150
180-173098-2	SUPE-M-99B-042524	Total/NA	Water	8290A	86150
180-173098-3	SUPE-W-06C-042524	Total/NA	Water	8290A	86150
180-173098-5	SUPE-FB-2-042524	Total/NA	Water	8290A	86150
180-173098-6	SUPE-W-12A-042524	Total/NA	Water	8290A	86150

Ref 210311



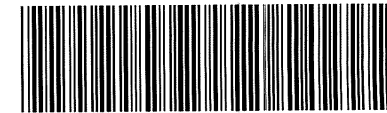
Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET PIT
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8270D_SVOC (less naphtha) (Chicago)															Notes:
						Preservative	Total Bottle Count													
					None															
04/25/2024	1019	GW	SUPE-W-10AR2-042524	2	2															
04/25/2024	1400	GW	SUPE-M-99B-042524	2	2															

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180-173098 Chain of Custody

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Trevor Lowe	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm FTS	Firm E.PITMS	Firm	Firm	
Date/Time: 04/25/2024 14:15	Date/Time: 4/26/24 0910	Date/Time:	Date/Time:	

5/23/2024



CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502151



Ref 210311

Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET PIT
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis														Notes:	
				Preservative	8270D_SVOC (less naphtha) (Chicago)														
					None														
				Total Bottle Count															
04/25/2024	0931	GW	SUPE-W-06CMS/MSD-042524	4	4														
04/25/2024	0931	GW	SUPE-TB-2-042524	0	0														
04/25/2024	0931	GW	SUPE-W-06C-042524	2	2														

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Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
				<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Carter Auch	Printed Name: ER: HVE Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm:	Firm:	Firm:	
Date/Time: 04/25/2024 12:55	Date/Time: 4/25/24 0910	Date/Time:	Date/Time:	



Ref 210311

Project Name: Superior, WI - 2024 OM&M Program
 Project Number: OM-0556-24
 Laboratory: EET PIT
 Shipment Method: FEDEX
 Program: Superior 2024 1SA Sampling

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

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

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	8270D_SVOC (less naphtha) (Chicago)													Notes:							
							Total Bottle Count																			
04/25/2024	1056	GW	SUPE-FB-2-042524	2	None	2																				
04/25/2024	1056	GW	SUPE-W-12A-042524	2	None	2																				

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Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
				<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Rianna Soltis	Printed Name: Rachel Oster	Printed Name:	Printed Name:	
Firm: FTS	Firm: EP: HNE	Firm:	Firm:	
Date/Time: 04/25/2024 13:17	Date/Time: 4/26/24 0910	Date/Time:	Date/Time:	

Ref: RETURN
Dep:

Date: 09Apr24
Wt: 20.00 LBS

DV:

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Orig. PRIORITY OVERNIGHT
Master 7224 1464 6250
TRACK: 7224 1464 6308

RT 198

FZ 197

1 10:30

A

6308
04.26

ORIGIN ID: AGCA (218) 591-0409
STEVEN WILLIS
KOPPERS INC RAILROAD PRODUCTS & SER
3185 SOUTH COUNTRY ROAD A
SUPERIOR, WI 54880
UNITED STATES US

SHIP DATE: 09APR24
ACTWGT: 20.00 LB MAN
CAD: 0522321/CAFE3755

TO **SAMPLE RECEIVING DEPARTMENT**
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 983-7630

REF: RETURN

RMA: ||| ||| |||

Uncorrected temp 5.0 20 °C
Thermometer ID

CF 0.2 Initials *pd*

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



EX# 7224 1464 6303
0221

FRI - 26 APR 10:30 AM
PRIORITY OVERNIGHT

XS AGCA

15238 3
PA-US PIT



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-173098-2

Login Number: 173098

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

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



APPENDIX F

ASCII DATA

(THIS INFORMATION HAS BEEN SENT DIRECTLY TO THE GEMS DATABASE FOR VIEWING.)

