FTS
Field & Technical Services
200 Third Avenue • Carnegie, PA 15106 • Phone: 412-429-2694 • Fax: 412-279-4512

June 17, 2020

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

RE: First Semi-Annual 2020 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 2020 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 2020 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 21, 2022 through April 22, 2020. The sampling effort was led by Ms. Kaitlyn McMullen, FTS Field Technician.

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

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

SUMMARY OF ANALYTICAL RESULTS

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

Parameter	Regulatory Standard (ug/L)	Wells
MCL Exceedance		
Benzene	5	W-10AR2, W-30A
Benzo(a)pyrene	0.2	W-04AR2, W-10AR2
ES Exceedance		
Benzene	5	W-10AR2, W-30A
Naphthalene	100	W-30A
Benzo(a)pyrene	0.2	W-04AR2, W-10AR2
Benzo(b)fluoranthene	0.2	W-04AR2, W-10AR2, W-30A
Chrysene	0.2	W-04AR2, W-10AR2, W-30A
PAL Exceedance		
Benzene	0.5	W-10AR2, W-30A
Naphthalene	10	W-30A
Benzo(a)pyrene	0.02	W-04AR2, W-10AR2
Benzo(b)fluoranthene	0.02	W-04AR2, W-10AR2, W-30A
Chrysene	0.02	W-04AR2, W-10AR2, W-30A
Pentachlorophenol	0.1	W-12CR, W-18D
2,3,7,8-TCDD TEQ*	3E-06	W-30A

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

Based on these results, five wells (W-04AR2, W-10AR2, W-12CR, W-18D, and W-30A) had concentrations of one or more constituents above a regulatory standard. The Groundwater Monitoring Data Certification form, provided as Appendix A, indicates that some of the data associated with the first semi-annual 2020 sampling event exceeded the Wisconsin PALs and ESs.

The data evaluation performed by FTS for the first semi-annual 2020 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 2020 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 Scientist

Attachments (Original Report and electronic copy)

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

APPENDIX A

GROUNDWATER MONITORING DATA CERTIFICATION

State of Wisconsin
Department of Natural Resources

Environmental Monitoring Data Certification

Form 4400-231 (R. 1/04)

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 507.30, NR 635.14(9)(a), NR 635.18(2)(j) 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 21 - April 22, 2020

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

April 2020

Type of Data Submitted (Check all that apply):

- [X] 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.
- [X] 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.

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

Signature:  Date: 6/16/20

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

N

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

W-05CR
W-02C
W-31C
W-12A
W-12CR
W-09C
W-29A
DESIGN MANAGEMENT ZONE
W-10AR2
W-30A
W-30C
CLOSED RCRA SURFACE IMPOUNDMENTS
W-08A
W-38A
W-04AR2
W-06A
W-06C
W-21B
W-21A
W-39A
W-25A
W-37A
W-26B
W-26A
W-32C
W-11A
W-36A
W-40A
W-28C
W-14A
W-14B
W-34D
W-26AR
W-33D
SHOP
FORMER CONTAINER STORAGE FACILITY
W-16AR
CONCRETE BERM
W-19C
W-19A
OFFICE
GATE
W-35A
W-18D
HAMMOND AVENUE
FLOW
COUNTY ROAD A
COUNTY ROAD Z

0 300 600 FEET

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN: KLC	DATE: 04/21/20	FTS	FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106
CHKD: AMG	DATE: 04/21/20		
APPD: JSZ	DATE: 06/09/20		
SCALE: AS SHOWN			
ISSUE DATE:			

FORMER KOPPERS INC. FACILITY
SUPERIOR, WISCONSIN

WELL LOCATIONS

PROJECT NO: 0M055620
DRAWING NUMBER
FIGURE B-1

REV #	DATE	DESCRIPTION	APPD
1			
2			
3			

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

q:\projects\beazer projects\superior\cadd\1st semi-annual 2020\figure b-1.dwg Last Saved By: Kchintella 4/21/2020 1:59 PM Plotted By: Kendra L. Chintella 4/21/2020 2:00 PM Scale: 1:1

APPENDIX C

TABLES

Table 1
Summary of Detected Constituents
First Semi-Annual 2020 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L	MCL ug/L
8270D LL					
W-10AR2	1-Methylnaphthalene	48	NA	NA	NA
W-30A	1-Methylnaphthalene	8.7	NA	NA	NA
W-12CR	2,3,4,6-Tetrachlorophenol	1.6 J	NA	NA	NA
W-12CR	2,4,6-Trichlorophenol	2 J	NA	NA	NA
W-30A	2-Methylnaphthalene	0.22 J	NA	NA	NA
W-04AR2	Acenaphthene	0.38 J	NA	NA	NA
W-10AR2	Acenaphthene	120	NA	NA	NA
W-30A	Acenaphthene	23	NA	NA	NA
W-30A	Acenaphthylene	0.56 J	NA	NA	NA
W-04AR2	Anthracene	3.5	600	3000	NA
W-10AR2	Anthracene	1.1	600	3000	NA
W-30A	Anthracene	0.97 J	600	3000	NA
W-04AR2	Benzo(a)anthracene	0.85	NA	NA	NA
W-10AR2	Benzo(a)anthracene	0.22	NA	NA	NA
W-28C	Benzo(a)anthracene	0.12 J	NA	NA	NA
W-30A	Benzo(a)anthracene	0.19 J	NA	NA	NA
W-04AR2	Benzo(a)pyrene	0.67	0.02	0.2	0.2
W-10AR2	Benzo(a)pyrene	0.3	0.02	0.2	0.2
W-04AR2	Benzo(b)fluoranthene	1.3	0.02	0.2	NA
W-10AR2	Benzo(b)fluoranthene	0.22	0.02	0.2	NA
W-30A	Benzo(b)fluoranthene	0.26	0.02	0.2	NA
W-04AR2	Benzo(k)fluoranthene	0.49	NA	NA	NA
W-10AR2	Benzo(k)fluoranthene	0.27	NA	NA	NA
W-30A	Benzo(k)fluoranthene	0.26	NA	NA	NA
W-06A	Bis(2-ethylhexyl)phthalate	0.24 J	0.6	6	6
W-04AR2	Chrysene	1.6	0.02	0.2	NA
W-10AR2	Chrysene	0.3 J	0.02	0.2	NA
W-30A	Chrysene	0.23 J	0.02	0.2	NA
W-04AR2	Dibenzofuran	0.44 J	NA	NA	NA
W-10AR2	Dibenzofuran	34	NA	NA	NA
W-30A	Dibenzofuran	7.5	NA	NA	NA
W-04AR2	Fluoranthene	4.4	80	400	NA
W-10AR2	Fluoranthene	3	80	400	NA
W-30A	Fluoranthene	1.4	80	400	NA
W-04AR2	Fluorene	0.76 J	80	400	NA
W-10AR2	Fluorene	28	80	400	NA
W-30A	Fluorene	6	80	400	NA
W-04AR2	Indeno(1,2,3-cd)pyrene	0.37	NA	NA	NA
W-10AR2	Indeno(1,2,3-cd)pyrene	0.13 J	NA	NA	NA
W-12CR	Pentachlorophenol	0.41 J	0.1	1	1
W-18D	Pentachlorophenol	0.43 J	0.1	1	1
W-04AR2	Phenanthrene	2.3	NA	NA	NA
W-10AR2	Phenanthrene	11	NA	NA	NA
W-30A	Phenanthrene	1.5	NA	NA	NA
W-04AR2	Pyrene	2.6	50	250	NA
W-10AR2	Pyrene	1.7	50	250	NA
W-30A	Pyrene	0.95 J	50	250	NA

Table 1
Summary of Detected Constituents
First Semi-Annual 2020 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L	MCL ug/L
8260C					
W-10AR2	1,2,4-Trimethylbenzene	9.8	96*	480*	NA
W-30A	1,2,4-Trimethylbenzene	6.5	96*	480*	NA
W-10AR2	Benzene	18	0.5	5	5
W-30A	Benzene	5.6	0.5	5	5
W-10AR2	Ethylbenzene	44	140	700	700
W-30A	Ethylbenzene	17	140	700	700
W-06A	Naphthalene	2.1	10	100	NA
W-10AR2	Naphthalene	1.9	10	100	NA
W-30A	Naphthalene	150	10	100	NA
W-10AR2	Toluene	2.4	160	800	1000
W-30A	Toluene	1.5 J	160	800	1000
W-10AR2	Xylene, Meta & Para	3.6	400**	2000**	10000**
W-30A	Xylene, Meta & Para	6.4	400**	2000**	10000**
W-10AR2	Xylene, Ortho	18	400**	2000**	10000**
W-30A	Xylene, Ortho	5.5	400**	2000**	10000**
8290A					
W-04AR2	1,2,3,4,6,7,8-HPCDD	0.00006	NA	NA	NA
W-10AR2	1,2,3,4,6,7,8-HPCDD	0.000018 J	NA	NA	NA
W-28C	1,2,3,4,6,7,8-HPCDD	0.0000095 J	NA	NA	NA
W-30A	1,2,3,4,6,7,8-HPCDD	0.00021	NA	NA	NA
W-04AR2	1,2,3,4,6,7,8-HPCDF	0.0000092 J	NA	NA	NA
W-30A	1,2,3,4,6,7,8-HPCDF	0.00007	NA	NA	NA
W-30A	1,2,3,4,7,8,9-HPCDF	0.0000068 J	NA	NA	NA
W-04AR2	1,2,3,4,7,8-HXCDD	0.00000062 JI	NA	NA	NA
W-28C	1,2,3,4,7,8-HXCDD	0.00000027 JI	NA	NA	NA
W-30A	1,2,3,4,7,8-HXCDD	0.000001 J	NA	NA	NA
W-30A	1,2,3,4,7,8-HXCDF	0.0000088 J	NA	NA	NA
W-30A	1,2,3,6,7,8-HXCDD	0.0000085 J	NA	NA	NA
W-10AR2	2,3,4,7,8-PECDF	0.00000037 JI	NA	NA	NA
W-30A	2,3,4,7,8-PECDF	0.0000011 JI	NA	NA	NA
W-04AR2	OCDD	0.00067	NA	NA	NA
W-06A	OCDD	0.00072 J	NA	NA	NA
W-10AR2	OCDD	0.0002	NA	NA	NA
W-28C	OCDD	0.00015	NA	NA	NA
W-30A	OCDD	0.0028	NA	NA	NA
W-04AR2	OCDF	0.000029 J	NA	NA	NA
W-30A	OCDF	0.0002	NA	NA	NA
W-04AR2	Total HPCDD	0.00028	NA	NA	NA
W-10AR2	Total HPCDD	0.000069	NA	NA	NA
W-28C	Total HPCDD	0.000038 J	NA	NA	NA
W-30A	Total HPCDD	0.00046	NA	NA	NA
W-04AR2	Total HPCDF	0.000034 J	NA	NA	NA
W-30A	Total HPCDF	0.00027	NA	NA	NA
W-04AR2	Total HXCDD	0.000026 JI	NA	NA	NA
W-30A	Total HXCDD	0.000035 JI	NA	NA	NA
W-04AR2	Total HXCDF	0.00003 JI	NA	NA	NA
W-30A	Total HXCDF	0.00022 I	NA	NA	NA
W-12CR	Total PECDD	0.00000052 JI	NA	NA	NA
W-04AR2	Total PECDF	0.0000062 JI	NA	NA	NA
W-10AR2	Total PECDF	0.0000048 JI	NA	NA	NA
W-30A	Total PECDF	0.000078 I	NA	NA	NA
W-04AR2	Total TCDD	0.0000006 JI	NA	NA	NA
W-06A	Total TCDD	0.0000008 JI	NA	NA	NA
W-06C	Total TCDD	0.00000062 JI	NA	NA	NA

Table 1
Summary of Detected Constituents
First Semi-Annual 2020 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L	MCL ug/L
W-10AR2	Total TCDD	0.0000007 JI	NA	NA	NA
W-12CR	Total TCDD	0.00000059 JI	NA	NA	NA
W-30C	Total TCDD	0.00000058 JI	NA	NA	NA
W-04AR2	Total TCDF	0.0000027 JI	NA	NA	NA
W-10AR2	Total TCDF	0.0000024 JI	NA	NA	NA
W-30A	Total TCDF	0.000017 I	NA	NA	NA
W-30C	Total TCDF	0.0000024 JI	NA	NA	NA
W-04AR2	2,3,7,8-TCDD TEQ	9.64E-07	3E-06	0.00003	0.00003
W-06A	2,3,7,8-TCDD TEQ	2.16E-08	3E-06	0.00003	0.00003
W-10AR2	2,3,7,8-TCDD TEQ	3.51E-07	3E-06	0.00003	0.00003
W-28C	2,3,7,8-TCDD TEQ	1.67E-07	3E-06	0.00003	0.00003
W-30A	2,3,7,8-TCDD TEQ	5.93E-06	3E-06	0.00003	0.00003

Notes:

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

PAL - Preventative Action Limit

MCL - Maximum Contaminant Levels for drinking water

ES - Enforcement Standard

NA - Not available

J - Estimated

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 2
Analytical Summary - First Semi-Annual 2020 Groundwater Data
First Semi-Annual 2020 Sampling Event
Superior Facility
Superior, Wisconsin

ANALYTE NAME	UNITS	W-04AR2 4/22/2020	W-06A 4/21/2020	W-06C 4/21/2020	W-10AR2 4/22/2020	W-12A 4/22/2020	W-12CR 4/22/2020	W-18D 4/22/2020	W-28C 4/22/2020	W-30A 4/22/2020	W-30C 4/21/2020	W-30C-DUP 4/21/2020	Equipment Blank 4/22/2020	Trip Blank 4/22/2020
8260C														
1,1,1-TRICHLOROETHANE	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	NA	0.82 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-TRIMETHYLBENZENE	UG/L	0.75 U	0.75 U	0.75 U	**9.8**	0.75 U	0.75 U	NA	0.75 U	**6.5**	0.75 U	0.75 U	0.75 U	0.75 U
1,3,5-TRIMETHYLBENZENE	UG/L	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	NA	0.77 U	1.5 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	**18**	0.41 U	0.41 U	NA	0.41 U	**5.6**	0.41 U	0.41 U	0.41 U	0.41 U
CHLOROMETHANE	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	NA	0.35 U	0.7 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	**44**	0.74 U	0.74 U	NA	0.74 U	**17**	0.74 U	0.74 U	0.74 U	0.74 U
METHYL(TERT)BUTYL ETHER	UG/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	NA	0.16 U	0.32 U	0.16 U	0.16 U	0.16 U	0.16 U
NAPHTHALENE	UG/L	0.43 U	**2.1**	0.43 U	**1.9**	0.43 U	0.43 U	NA	0.43 U	**150**	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	NA	0.64 U	1.3 U	0.64 U	0.64 U	0.64 U	0.64 U
N-PROPYLBENZENE	UG/L	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	NA	0.69 U	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U
STYRENE	UG/L	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	NA	0.73 U	1.5 U	0.73 U	0.73 U	0.73 U	0.73 U
TOLUENE	UG/L	0.51 U	0.51 U	0.51 U	**2.4**	0.51 U	0.51 U	NA	0.51 U	**1.5 J**	0.51 U	0.51 U	0.51 U	0.51 U
XYLENE, META & PARA	UG/L	0.66 U	0.66 U	0.66 U	**3.6**	0.66 U	0.66 U	NA	0.66 U	**6.4**	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	**18**	0.76 U	0.76 U	NA	0.76 U	**5.5**	0.76 U	0.76 U	0.76 U	0.76 U
8270D LL														
1,2,4-TRICHLOROBENZENE	UG/L	0.3 U	0.29 U	0.28 U	0.3 U	0.31 U	0.3 U	0.31 U	0.28 U	0.3 U	0.29 U	0.29 U	0.29 U	NA
1,2-DICHLOROBENZENE	UG/L	0.29 U	0.29 U	0.28 U	0.29 U	0.3 U	0.29 U	0.3 U	0.28 U	0.29 U	0.28 U	0.28 U	0.28 U	NA
1,3-DICHLOROBENZENE	UG/L	0.25 U	0.25 U	0.24 U	0.25 U	0.26 U	0.25 U	0.25 U	0.24 U	0.25 U	0.24 U	0.24 U	0.25 U	NA
1,4-DICHLOROBENZENE	UG/L	0.27 U	0.27 U	0.26 U	0.27 U	0.28 U	0.27 U	0.27 U	0.26 U	0.27 U	0.26 U	0.26 U	0.26 U	NA
1-METHYLNAPHTHALENE	UG/L	0.5 U	0.49 U	0.47 U	**48**	0.52 U	0.49 U	0.51 U	0.47 U	**8.7**	0.48 U	0.48 U	0.49 U	NA
2,3,4,6-TETRACHLOROPHENOL	UG/L	1.5 U	1.5 U	1.4 U	1.5 U	1.6 U	**1.6 J**	1.5 U	1.4 U	1.5 U	1.4 U	1.4 U	1.5 U	NA
2,3,5,6-TETRACHLOROPHENOL	UG/L	2.5 U	2.5 U	2.4 U	2.5 U	2.6 U	2.5 U	2.5 U	2.4 U	2.5 U	2.4 U	2.4 U	2.5 U	NA
2,4,5-TRICHLOROPHENOL	UG/L	2.3 U	2.3 U	2.2 U	2.3 U	2.4 U	2.3 U	2.3 U	2.2 U	2.3 U	2.2 U	2.2 U	2.2 U	NA
2,4,6-TRICHLOROPHENOL	UG/L	1.1 U	1.1 U	1 U	1.1 U	1.1 U	**2 J**	1.1 U	1 U	1.1 U	1 U	1 U	1.1 U	NA
2,4-DICHLOROPHENOL	UG/L	2.3 U	2.2 U	2.2 U	2.3 U	2.4 U	2.2 U	2.3 U	2.2 U	2.3 U	2.2 U	2.2 U	2.2 U	NA
2,4-DIMETHYLPHENOL	UG/L	3.3 U	3.3 U	3.2 U	3.3 U	3.5 U	3.3 U	3.4 U	3.2 U	3.4 U	3.2 U	3.2 U	3.3 U	NA
2,4-DINITROPHENOL	UG/L	7.4 U	7.3 U	7 U	7.5 U	7.7 U	7.3 U	7.6 U	7.1 U	7.5 U	7.1 U	7.1 U	7.3 U	NA
2,4-DINITROTOLUENE	UG/L	0.3 U	0.29 U	0.28 U	0.3 U	0.31 U	0.3 U	0.31 U	0.28 U	0.3 U	0.29 U	0.29 U	0.29 U	NA
2,6-DINITROTOLUENE	UG/L	0.12 U	0.12 U	0.11 U	0.12 U	0.12 U	0.12 U	0.12 U	0.11 U	0.12 U	0.11 U	0.11 U	0.12 U	NA
2-CHLORONAPHTHALENE	UG/L	0.34 U	0.33 U	0.32 U	0.34 U	0.35 U	0.33 U	0.35 U	0.32 U	0.35 U	0.32 U	0.32 U	0.33 U	NA
2-CHLOROPHENOL	UG/L	0.8 U	0.79 U	0.76 U	0.8 U	0.83 U	0.79 U	0.81 U	0.76 U	0.81 U	0.76 U	0.76 U	0.78 U	NA
2-METHYLNAPHTHALENE	UG/L	0.13 U	0.13 U	0.12 U	0.13 U	0.13 U	0.13 U	0.13 U	0.12 U	**0.22 J**	0.12 U	0.12 U	0.13 U	NA
2-METHYLPHENOL	UG/L	0.31 U	0.3 U	0.29 U	0.31 U	0.32 U	0.31 U	0.32 U	0.29 U	0.31 U	0.3 U	0.29 U	0.3 U	NA
2-NITROANILINE	UG/L	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U	1.1 U	1 U	1 U	1.1 U	NA
2-NITROPHENOL	UG/L	2.1 U	2.1 U	2 U	2.1 U	2.2 U	2.1 U	2.2 U	2 U	2.2 U	2 U	2 U	2.1 U	NA
3,3'-DICHLOROBENZIDINE	UG/L	0.94 U	0.92 U	0.89 U	0.94 U	0.97 U	0.92 U	0.96 U	0.89 U	0.95 U	0.89 U	0.89 U	0.92 U	NA
3-NITROANILINE	UG/L	2.3 U	2.3 U	2.2 U	2.3 U	2.4 U	2.3 U	2.3 U	2.2 U	2.3 U	2.2 U	2.2 U	2.2 U	NA
4,6-DINITRO-2-METHYLPHENOL	UG/L	4.9 U	4.8 U	4.7 U	4.9 U	5.1 U	4.8 U	5 U	4.7 U	5 U	4.7 U	4.7 U	4.8 U	NA
4-BROMOPHENYL PHENYLETHER	UG/L	0.91 U	0.89 U	0.86 U	0.91 U	0.94 U	0.9 U	0.93 U	0.86 U	0.92 U	0.87 U	0.87 U	0.89 U	NA

Table 2
Analytical Summary - First Semi-Annual 2020 Groundwater Data
First Semi-Annual 2020 Sampling Event
Superior Facility
Superior, Wisconsin

ANALYTE NAME	UNITS	W-04AR2 4/22/2020	W-06A 4/21/2020	W-06C 4/21/2020	W-10AR2 4/22/2020	W-12A 4/22/2020	W-12CR 4/22/2020	W-18D 4/22/2020	W-28C 4/22/2020	W-30A 4/22/2020	W-30C 4/21/2020	W-30C-DUP 4/21/2020	Equipment Blank 4/22/2020	Trip Blank 4/22/2020
4-CHLORO-3-METHYLPHENOL	UG/L	2.2 U	2.2 U	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	NA
4-CHLOROANILINE	UG/L	2.1 U	2.1 U	2 U	2.1 U	2.2 U	2.1 U	2.1 U	2 U	2.1 U	2 U	2 U	2.1 U	NA
4-CHLOROPHENYLPHENYL-ETHER	UG/L	0.81 U	0.8 U	0.77 U	0.81 U	0.84 U	0.8 U	0.82 U	0.77 U	0.82 U	0.77 U	0.77 U	0.79 U	NA
4-METHYLPHENOL	UG/L	0.44 U	0.43 U	0.42 U	0.44 U	0.45 U	0.43 U	0.45 U	0.42 U	0.45 U	0.42 U	0.42 U	0.43 U	NA
4-NITROANILINE	UG/L	3.9 U	3.9 U	3.7 U	3.9 U	4.1 U	3.9 U	4 U	3.7 U	4 U	3.7 U	3.7 U	3.9 U	NA
4-NITROPHENOL	UG/L	2.3 U	2.3 U	2.2 U	2.3 U	2.4 U	2.3 U	2.4 U	2.2 U	2.4 U	2.2 U	2.2 U	2.3 U	NA
ACENAPHTHENE	UG/L	**0.38 J**	0.35 U	0.34 U	**120**	0.37 U	0.35 U	0.37 U	0.34 U	**23**	0.34 U	0.34 U	0.35 U	NA
ACENAPHTHYLENE	UG/L	0.32 U	0.31 U	0.3 U	0.32 U	0.33 U	0.31 U	0.33 U	0.3 U	**0.56 J**	0.3 U	0.3 U	0.31 U	NA
ANTHRACENE	UG/L	**3.5**	0.31 U	0.3 U	**1.1**	0.33 U	0.31 U	0.33 U	0.3 U	**0.97 J**	0.3 U	0.3 U	0.31 U	NA
BENZO (A) ANTHRACENE	UG/L	**0.85**	0.043 U	0.042 U	**0.22**	0.045 U	0.043 U	0.045 U	**0.12 J**	**0.19 J**	0.042 U	0.042 U	0.043 U	NA
BENZO (A) PYRENE	UG/L	**0.67**	0.055 U	0.053 U	**0.3**	0.058 U	0.055 U	0.057 U	0.053 U	0.057 U	0.053 U	0.053 U	0.055 U	NA
BENZO (B) FLUORANTHENE	UG/L	**1.3**	0.057 U	0.055 U	**0.22**	0.06 U	0.057 U	0.059 U	0.055 U	**0.26**	0.055 U	0.055 U	0.057 U	NA
BENZO (G,H,I) PERYLENE	UG/L	0.42 U	0.41 U	0.4 U	0.42 U	0.43 U	0.41 U	0.43 U	0.4 U	0.43 U	0.4 U	0.4 U	0.41 U	NA
BENZO (K) FLUORANTHENE	UG/L	**0.49**	0.073 U	0.07 U	**0.27**	0.076 U	0.073 U	0.075 U	0.07 U	**0.26**	0.07 U	0.07 U	0.073 U	NA
BENZOIC ACID	UG/L	4.5 U	4.5 U	4.3 U	4.6 U	4.7 U	4.5 U	4.6 U	4.3 U	4.6 U	4.3 U	4.3 U	4.5 U	NA
BENZYL ALCOHOL	UG/L	3 U	3 U	2.9 U	3.1 U	3.2 U	3 U	3.1 U	2.9 U	3.1 U	2.9 U	2.9 U	3 U	NA
BIS (2-CHLOROETHOXY)- METHANE	UG/L	0.3 U	0.29 U	0.28 U	0.3 U	0.31 U	0.3 U	0.31 U	0.28 U	0.3 U	0.29 U	0.29 U	0.29 U	NA
BIS (2-CHLOROETHYL) ETHER	UG/L	0.35 U	0.34 U	0.33 U	0.35 U	0.36 U	0.34 U	0.36 U	0.33 U	0.36 U	0.33 U	0.33 U	0.34 U	NA
BIS (2-CHLOROISOPROPYL)-ETHER	UG/L	0.3 U	0.29 U	0.28 U	0.3 U	0.31 U	0.3 U	0.31 U	0.28 U	0.3 U	0.29 U	0.29 U	0.29 U	NA
BIS (2-ETHYLHEXYL)- PHTHALATE	UG/L	2.4 U	**2.4 J**	2.3 U	2.4 U	2.5 U	2.4 U	2.5 U	2.3 U	2.5 U	2.3 U	2.3 U	2.4 U	NA
BUTYL BENZYL PHTHALATE	UG/L	0.27 U	0.27 U	0.26 U	0.27 U	0.28 U	0.27 U	0.27 U	0.26 U	0.27 U	0.26 U	0.26 U	0.26 U	NA
CHRYSENE	UG/L	**1.6**	0.14 U	0.13 U	**0.3 J**	0.14 U	0.14 U	0.14 U	0.13 U	**0.23 J**	0.13 U	0.13 U	0.14 U	NA
DIBENZO (A,H) ANTHRACENE	UG/L	0.064 U	0.063 U	0.061 U	0.064 U	0.066 U	0.063 U	0.065 U	0.061 U	0.065 U	0.061 U	0.061 U	0.063 U	NA
DIBENZOFURAN	UG/L	**0.44 J**	0.34 U	0.33 U	**34**	0.36 U	0.34 U	0.36 U	0.33 U	**7.5**	0.33 U	0.33 U	0.34 U	NA
DIETHYLPHTHALATE	UG/L	0.44 U	0.43 U	0.42 U	0.44 U	0.45 U	0.43 U	0.45 U	0.42 U	0.45 U	0.42 U	0.42 U	0.43 U	NA
DIMETHYLPHTHALATE	UG/L	0.38 U	0.37 U	0.36 U	0.38 U	0.39 U	0.37 U	0.39 U	0.36 U	0.39 U	0.36 U	0.36 U	0.37 U	NA
DI-N-BUTYLPHTHALATE	UG/L	0.8 U	0.79 U	0.76 U	0.8 U	0.83 U	0.79 U	0.81 U	0.76 U	0.81 U	0.76 U	0.76 U	0.78 U	NA
DI-N-OCTYLPHTHALATE	UG/L	2.5 U	2.4 U	2.3 U	2.5 U	2.6 U	2.4 U	2.5 U	2.3 U	2.5 U	2.4 U	2.3 U	2.4 U	NA
FLUORANTHENE	UG/L	**4.4**	0.31 U	0.3 U	**3**	0.33 U	0.31 U	0.33 U	0.3 U	**1.4**	0.3 U	0.3 U	0.31 U	NA
FLUORENE	UG/L	**0.76 J**	0.37 U	0.36 U	**28**	0.39 U	0.37 U	0.39 U	0.36 U	**6**	0.36 U	0.36 U	0.37 U	NA
HEXACHLOROBENZENE	UG/L	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.13 U	0.13 U	0.14 U	NA
HEXACHLOROBUTADIENE	UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	NA
HEXACHLOROCYCLOPENTADIENE	UG/L	3.4 U	3.4 U	3.3 U	3.4 U	3.6 U	3.4 U	3.5 U	3.3 U	3.5 U	3.3 U	3.3 U	3.4 U	NA
HEXACHLOROETHANE	UG/L	0.97 U	0.95 U	0.92 U	0.97 U	1 U	0.95 U	0.99 U	0.92 U	0.99 U	0.92 U	0.92 U	0.95 U	NA
INDENO (1,2,3-CD) PYRENE	UG/L	**0.37**	0.083 U	0.08 U	**0.13 J**	0.087 U	0.083 U	0.086 U	0.08 U	0.085 U	0.08 U	0.08 U	0.082 U	NA
ISOPHORONE	UG/L	0.29 U	0.29 U	0.28 U	0.29 U	0.3 U	0.29 U	0.3 U	0.28 U	0.29 U	0.28 U	0.28 U	0.28 U	NA
NAPHTHALENE	UG/L	NA	NA	NA	NA	NA	NA	0.31 U	NA	NA	NA	NA	NA	NA
NITROBENZENE	UG/L	0.45 U	0.44 U	0.43 U	0.45 U	0.47 U	0.44 U	0.46 U	0.43 U	0.46 U	0.43 U	0.43 U	0.44 U	NA
N-NITROSODI-N-PROPYLAMINE	UG/L	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.13 U	0.13 U	0.14 U	NA
N-NITROSO-DI-PHENYLAMINE	UG/L	0.34 U	0.33 U	0.32 U	0.34 U	0.35 U	0.33 U	0.35 U	0.32 U	0.35 U	0.32 U	0.32 U	0.33 U	NA
PENTACHLOROPHENOL	UG/L	1.7 U	0.34 U	0.34 U	1.7 U	0.34 U	**0.41 J**	**0.43 J**	0.34 U	3.4 U	0.34 UJ	0.34 UJ	0.34 U	NA
PHENANTHRENE	UG/L	**2.3**	0.34 U	0.33 U	**11**	0.36 U	0.34 U	0.36 U	0.33 U	**1.5**	0.33 U	0.33 U	0.34 U	NA
PHENOL	UG/L	0.36 U	0.35 U	0.34 U	0.36 U	0.37 U	0.35 U	0.37 U	0.34 U	0.37 U	0.34 U	0.34 U	0.35 U	NA
PYRENE	UG/L	**2.6**	0.47 U	0.46 U	**1.7**	0.5 U	0.47 U	0.49 U	0.46 U	**0.95 J**	0.46 U	0.46 U	0.47 U	NA

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First Semi-Annual 2020 Sampling Event
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ANALYTE NAME	UNITS	W-04AR2 4/22/2020	W-06A 4/21/2020	W-06C 4/21/2020	W-10AR2 4/22/2020	W-12A 4/22/2020	W-12CR 4/22/2020	W-18D 4/22/2020	W-28C 4/22/2020	W-30A 4/22/2020	W-30C 4/21/2020	W-30C-DUP 4/21/2020	Equipment Blank 4/22/2020	Trip Blank 4/22/2020
8290A														
1,2,3,4,6,7,8-HPCDD (TEF = 0.01)	UG/L	**0.00006**	0.000005 U	0.0000015 U	**0.000018 J**	0.0000029 U	0.0000033 U	NA	**0.0000095 J**	**0.00021**	0.0000052 U	0.0000034 U	**0.0000011 JI**	NA
1,2,3,4,6,7,8-HPCDF (TEF = 0.01)	UG/L	**0.0000092 J**	0.0000014 U	0.0000001 U	0.0000025 U	0.0000013 U	0.00000072 U	NA	0.0000026 U	**0.00007**	0.0000014 U	0.0000012 U	**0.00000048 JI**	NA
1,2,3,4,7,8,9-HPCDF (TEF = 0.01)	UG/L	0.00000092 U	0.00000023 U	0.00000013 U	0.00000065 U	0.00000049 U	0.00000012 U	NA	0.00000053 U	**0.0000068 J**	0.00000054 U	0.00000024 U	0.0000001 U	NA
1,2,3,4,7,8-HXCDD (TEF = 0.1)	UG/L	**0.00000062 JI**	0.00000012 U	0.00000016 U	0.00000015 U	0.0000001 U	0.000000081 U	NA	**0.00000027 JI**	**0.000001 J**	0.00000016 U	0.00000022 U	0.00000008 U	NA
1,2,3,4,7,8-HXCDF (TEF = 0.1)	UG/L	0.00000092 U	0.00000016 U	0.0000003 U	0.0000004 U	0.00000018 U	0.00000019 U	NA	0.00000025 U	**0.0000088 J**	0.0000003 U	0.00000028 U	0.00000015 U	NA
1,2,3,6,7,8-HXCDD (TEF = 0.1)	UG/L	0.0000023 U	0.00000013 U	0.00000035 U	0.0000008 U	0.00000011 U	0.000000091 U	NA	0.00000041 U	**0.0000085 J**	0.00000045 U	0.00000024 U	0.000000089 U	NA
1,2,3,6,7,8-HXCDF (TEF = 0.1)	UG/L	0.00000052 U	0.00000016 U	0.0000003 U	0.00000043 U	0.00000018 U	0.0000002 U	NA	0.00000027 U	0.0000022 U	0.00000032 U	0.00000029 U	0.00000015 U	NA
1,2,3,7,8,9-HXCDD (TEF = 0.1)	UG/L	0.0000018 U	0.00000012 U	0.00000036 U	0.0000009 U	0.00000043 U	0.00000027 U	NA	0.00000065 U	0.0000019 U	0.00000053 U	0.00000021 U	0.000000078 U	NA
1,2,3,7,8,9-HXCDF (TEF = 0.1)	UG/L	0.00000022 U	0.00000016 U	0.00000029 U	0.00000041 U	0.00000018 U	0.00000018 U	NA	0.00000025 U	0.0000015 U	0.0000003 U	0.00000026 U	0.00000015 U	NA
1,2,3,7,8-PECDD (TEF = 1)	UG/L	0.00000039 U	0.00000034 U	0.00000033 U	0.00000019 U	0.00000015 U	0.00000013 U	NA	0.00000026 U	0.00000025 U	0.00000034 U	0.00000027 U	0.00000017 U	NA
1,2,3,7,8-PECDF (TEF = 0.03)	UG/L	0.00000045 U	0.0000002 U	0.00000036 U	0.00000016 U	0.00000029 U	0.00000017 U	NA	0.00000018 U	0.00000055 U	0.00000033 U	0.00000022 U	0.00000017 U	NA
2,3,4,6,7,8-HXCDF (TEF = 0.1)	UG/L	0.00000046 U	0.00000052 U	0.00000029 U	0.00000043 U	0.00000018 U	0.00000018 U	NA	0.00000025 U	0.0000015 U	0.0000003 U	0.00000026 U	0.00000015 U	NA
2,3,4,7,8-PECDF (TEF = 0.3)	UG/L	0.00000047 U	0.00000019 U	0.00000032 U	**0.00000037 JI**	0.00000024 U	0.00000016 U	NA	0.00000018 U	**0.0000011 JI**	0.0000003 U	0.00000019 U	0.00000015 U	NA
2,3,7,8-TCDD (TEF = 1)	UG/L	0.00000026 U	0.00000013 U	0.0000002 U	0.00000034 U	0.00000011 U	0.00000013 U	NA	0.00000012 U	0.00000019 U	0.00000018 U	0.00000015 U	0.00000017 U	NA
2,3,7,8-TCDF (TEF = 0.1)	UG/L	0.00000037 U	0.00000024 U	0.00000015 U	0.00000019 U	0.0000002 U	0.00000012 U	NA	0.00000014 U	0.00000016 U	0.00000014 U	0.00000014 U	**0.00000022 JI**	NA
OCDD (TEF = 0.0003)	UG/L	**0.00067**	**0.000072 J**	0.000012 U	**0.0002**	0.000028 U	0.000041 U	NA	**0.00015**	**0.0028**	0.000038 U	0.000028 U	**0.000013 J**	NA
OCDF (TEF = 0.0003)	UG/L	**0.000029 J**	0.000005 U	0.0000017 U	0.000011 U	0.0000041 U	0.0000027 U	NA	0.0000087 U	**0.0002**	0.0000037 U	0.0000032 U	**0.00000095 JI**	NA
TOTAL HPCDD	UG/L	**0.00028**	0.000014 U	0.0000044 U	**0.000069**	0.0000059 U	0.000011 U	NA	**0.000038 J**	**0.00046**	0.0000091 U	0.0000081 U	**0.0000044 JI**	NA
TOTAL HPCDF	UG/L	**0.000034 J**	0.0000046 U	0.00000027 U	0.0000098 U	0.0000045 U	0.0000028 U	NA	0.0000083 U	**0.00027**	0.0000052 U	0.0000036 U	**0.00000081 JI**	NA
TOTAL HXCDD	UG/L	**0.000026 JI**	0.0000024 U	0.000002 U	0.0000081 U	0.0000031 U	0.0000026 U	NA	0.0000051 U	**0.000035 JI**	0.000002 U	0.00000024 U	**0.0000016 JI**	NA
TOTAL HXCDF	UG/L	**0.00003 JI**	0.00000052 U	0.0000003 U	0.00001 U	0.0000053 U	0.0000013 U	NA	0.0000032 U	**0.00022 I**	0.0000026 U	0.0000021 U	0.00000015 U	NA
TOTAL PECDD	UG/L	0.00000039 U	0.00000034 U	0.00000033 U	0.00000019 U	0.00000015 U	**0.00000052 JI**	NA	0.00000026 U	0.00000025 U	0.00000034 U	0.00000027 U	0.00000017 U	NA
TOTAL PECDF	UG/L	**0.0000062 JI**	0.0000002 U	0.00000036 U	**0.0000048 JI**	0.000003 U	0.00000031 U	NA	0.0000011 U	**0.000078 I**	0.00000033 U	0.00000047 U	0.00000017 U	NA
TOTAL TCDD	UG/L	**0.0000006 JI**	**0.0000008 JI**	**0.00000062 JI**	**0.0000007 JI**	0.00000011 U	**0.00000059 JI**	NA	0.00000012 U	0.00000019 U	**0.00000058 JI**	0.00000015 U	0.00000017 U	NA
TOTAL TCDF	UG/L	**0.0000027 JI**	0.00000078 U	0.00000015 U	**0.0000024 JI**	0.0000022 U	0.00000012 U	NA	0.00000064 U	**0.000017 I**	**0.0000024 JI**	0.0000018 U	**0.00000046 JI**	NA
2,3,7,8-TCDD TEQ - ND = 0	UG/L	**9.64E-07**	**2.16E-08**	0.00E+00	**3.51E-07**	0.00E+00	0.00E+00	NA	**1.67E-07**	**5.93E-06**	0.00E+00	0.00E+00	**4.20E-08**	NA

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

APPENDIX D

DATA EVALUATION SUMMARY

FTS, LLC

DATE: May 20, 2020

FROM: Kendra Chintella

SUBJECT: Superior GW

SAMPLE DELIVERY GROUP (SDG): 480-169009-1

SAMPLES: SUPE-M99-A-042120(W-30C), SUPE-TB-01-042220, SUPE-W-28C-042220, SUPE-W-12A-042220, SUPE-W-18D-042220, SUPE-W-04AR2-042220, SUPE-EB-01-042220, SUPE-W-30C-042120, SUPE-W-12CR-042220, SUPE-W-30A-042220, SUPE-W-06A-042120, SUPE-W-10AR2-042220, SUPE-W-06C-042120

ANALYSES: Method 8260C (VOCs), 8270D/8270D LL (SVOCs), 8290A (Dioxins/Furans)

LABORATORY: Eurofins TestAmerica Laboratories, Buffalo, Chicago, Knoxville

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

□ Data Completeness
Noncompliance: None

□ Holding Times
Noncompliance: Pentachlorophenol was extracted outside of hold time for M99-A and W-30C and results in these samples were qualified as estimated, "J".

□ Laboratory Blank Contamination
Noncompliance: 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDD, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDD, 1,2,3,7,8,9-HxCDF, 1,2,3,7,8-PeCDF, 2,3,4,6,7,8-HxCDF OCDD, OCDF, total HpCDD, total HpCDF, total HxCDD, total HxCDF, and total PeCDF were detected in the method blank. See attached page for details.

□ Field Blank Contamination
Noncompliance: 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8-HpCDF, 2,3,7,8-TCDF, OCDD, OCDF, total HpCDD, total HpCDF, total HxCDD, and total TCDF were detected in the equipment blank. See attached page for details.

□ Field Duplicate Precision
Noncompliance: See attached page for details.

□ Surrogate Recoveries
Noncompliance: The surrogate recovery of 2,4,6-tribromophenol was above the recovery limits in samples W-12CR and W-10AR2. No action was taken on this basis.

□ Matrix Spike/Matrix Spike Duplicate
Noncompliance: The MS recovery of anthracene was above the recovery limits. The MS/MSD recoveries of hexachlorobenzene were above the recovery limits. The RPDs of 1,2,4-trichlorobenzene, 2-methylnaphthalene, hexachlorobutadiene, hexachlorocyclopentadiene, and hexachloroethane were above the recovery limits. No action was taken on this basis.

□ Laboratory Control Sample
Noncompliance: The LCS recoveries of anthracene, dimethyl phthalate, di-n-butyl phthalate, fluoranthene, and hexachlorobenzene were above the recovery limits. No action was taken on this basis.

Laboratory Blank Contamination:

The following analytes were detected in the aqueous method blank at the following concentrations:

Analyte	Maximum Concentration	Blank Action Level
1,2,3,4,6,7,8-HpCDD	1.54 JI pg/l	7.7 pg/l
1,2,3,4,6,7,8-HpCDF	1.17 JI pg/l	5.85 pg/l
1,2,3,4,7,8,9-HpCDF	0.894 J pg/l	4.47 pg/l
1,2,3,4,7,8-HxCDF	0.802 JI pg/l	4.01 pg/l
1,2,3,6,7,8-HxCDD	0.904 JI pg/l	4.52 pg/l
1,2,3,6,7,8-HxCDF	0.661 JI pg/l	3.305 pg/l
1,2,3,7,8,9-HxCDD	1.03 JI pg/l	5.15 pg/l
1,2,3,7,8,9-HxCDF	0.808 J pg/l	4.04 pg/l
1,2,3,7,8-PeCDF	0.83 J pg/l	4.15 pg/l
2,3,4,6,7,8-HxCDF	1.11 JI pg/l	5.55 pg/l
OCDD	9.83 J pg/l	49.15 pg/l
OCDF	4.74 J pg/l	23.7 pg/l
Total HpCDD	2.24 JI pg/l	11.2 pg/l
Total HpCDF	2.07 JI pg/l	10.35 pg/l
Total HxCDD	3.36 JI pg/l	16.8 pg/l
Total HxCDF	3.38 JI pg/l	16.9 pg/l
Total PeCDF	0.83 J pg/l	4.15 pg/l

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

Field Blank Contamination:

The following analytes were detected in the aqueous equipment blank, SUPE-EB-01-042220, at the following concentrations:

Analyte	Maximum Concentration	Blank Action Level
1,2,3,4,6,7,8-HpCDD	1.1 JI pg/l	5.5 pg/l
1,2,3,4,6,7,8-HpCDF	0.48 JI pg/l	2.4 pg/l
2,3,7,8-TCDF	0.22 JI pg/l	1.1 pg/l
OCDD	13 J pg/l	65 pg/l
OCDF	0.95 JI pg/l	4.75 pg/l
Total HpCDD	4.4 JI pg/l	22 pg/l
Total HpCDF	0.81 JI pg/l	4.05 pg/l
Total HxCDD	1.6 JI pg/l	8 pg/l
Total TCDF	0.46 JI pg/l	2.3 pg/l

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

Field Duplicate Precision:

FIELD DUPLICATE PRECISION					
ANALYTE	W-30C	QUAL	M99-A	QUAL	RPD
1,2,3,4,6,7,8-HpCDD	5.2	J	3.4	JI	41.86*
1,2,3,4,6,7,8-HpCDF	1.4	JI	1.2	J	15.38
1,2,3,4,7,8,9-HpCDF	0.54	J	0.24	U	NC
1,2,3,6,7,8-HxCDD	0.45	JI	0.24	U	NC
1,2,3,7,8,9-HxCDD	0.53	JI	0.21	U	NC
OCDD	38	J	28	J	30.30*
OCDF	3.7	J	3.2	JI	14.49
Total HpCDD	9.1	J	8.1	JI	11.63
Total HpCDF	5.2	JI	3.6	JI	36.36*
Total HxCDD	2	JI	0.24	U	NC
Total HxCDF	2.6	JI	2.1	JI	21.28
Total PeCDF	0.33	U	0.47	JI	NC
Total TCDD	0.58	JI	0.15	U	NC
Total TCDF	2.4	JI	1.8	JI	28.57

NC – not calculated due to nondetect result
* - RPD is greater than 30%, associated samples are qualified as estimated, “J,” due to laboratory or field sampling imprecision

APPENDIX E

LABORATORY ANALYTICAL DATA

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-169009-1
Client Project/Site: Superior, WI Semiannual Groundwater
Revision: 2

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

Attn: Ms. Angie Gatchie

Veronica Bortot

Authorized for release by:
5/20/2020 2:29:12 PM

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

Table of Contents

Definitions/Glossary

Client: Field & Technical Services LLC
Job ID: 480-169009-1
Project/Site: Superior, WI Semiannual Groundwater

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

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

Job ID: 480-169009-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-169009-1

Revision 2 - to correct narrative
Revised: to change formatter

Receipt
The samples were received on 4/24/2020 10:00 AM; the samples arrived in good condition, properly preserved, and where required, on ice. The temperatures of the 7 coolers at receipt time were 2.6°C, 2.8°C, 3.0°C, 3.1°C, 3.3°C, 3.4°C and 3.7°C

Receipt Exceptions
Received 2 containers for each sample, COC list total number of containers as 4. Container label analysis is listed as 8290 Dioxins/Furans, COC list analysis as 8270/3510C
Due to shipping error ; samples SUPE-M99-A-042120 and SUPE-W-30C-04212 For PCP analyses were extracted one day outside of holding time.

Department GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: SUPE-W-30A-042220. Elevated reporting limits (RLs) are provide

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

Department GC/MS Semi VOA
Method 8270D: The following samples contained one acid surrogate outside acceptance limits:SUPE-W-12CR-042220 and SUPE-W-10AR2-042220. The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover above the criteria for this method with associated detections when utilizing this list of analytes. The LCS associated with preparation batch 500-539931 and analytical batch 500-540079 had 2 analytes above the control limits with associated detections: Anthracene and Fluoranthene. The following analytes were also above the QC limits and had no associated detections: Dimethyl phthalate, Di-n-butyl phthalate and Hexachlorobenzene. LCS 500-539931/2-

Method 8270D_LL: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: SUPE-M99-A-042120 and SUPE-W-30C-04212

Method 8270D_LL: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-52877

Method 8270D_LL: The following samples were diluted due to the nature of the sample matrix: SUPE-W-30A-042220 and SUPE-W-10AR2-042220. Elevated reporting limits (RLs) are provide

Method 8270D_LL: The following sample was diluted due to the nature of the sample matrix: SUPE-W-04AR2-042220. Elevated reporting limits (RLs) are provide

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

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

Detection Summary

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

Job ID: 480-169009-1

Client Sample ID: SUPE-M99-A-042120 — Lab Sample ID: 480-169009-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	3.4	J I B	50	0.24	pg/L	1		8290A	Total/NA
Total HpCDD	8.1	J I B	50	0.24	pg/L	1		8290A	Total/NA
OCDD	28	J B	100	0.19	pg/L	1		8290A	Total/NA
Total TCDF	1.8	J I	10	0.14	pg/L	1		8290A	Total/NA
Total PeCDF	0.47	J I B	50	0.20	pg/L	1		8290A	Total/NA
Total HxCDF	2.1	J I B	50	0.27	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	1.2	J B	50	0.19	pg/L	1		8290A	Total/NA
Total HpCDF	3.6	J I B	50	0.21	pg/L	1		8290A	Total/NA
OCDF	3.2	J I B	100	0.16	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-TB-01-042220 — Lab Sample ID: 480-169009-2

No Detections.

Client Sample ID: SUPE-W-28C-042220 — Lab Sample ID: 480-169009-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.12	J	0.19	0.042	ug/L	1		8270D	Total/NA
1,2,3,4,7,8-HxCDD	0.27	J I	50	0.17	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.41	J I B	50	0.17	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.65	J B	50	0.16	pg/L	1		8290A	Total/NA
Total HxCDD	5.1	J I B	50	0.16	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	9.5	J B	50	0.25	pg/L	1		8290A	Total/NA
Total HpCDD	38	J B	50	0.25	pg/L	1		8290A	Total/NA
OCDD	150	B	100	0.20	pg/L	1		8290A	Total/NA
Total TCDF	0.64	J I	10	0.14	pg/L	1		8290A	Total/NA
Total PeCDF	1.1	J I B	50	0.18	pg/L	1		8290A	Total/NA
Total HxCDF	3.2	J I B	50	0.26	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	2.6	J B	50	0.17	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.53	J B	50	0.21	pg/L	1		8290A	Total/NA
Total HpCDF	8.3	J I B	50	0.19	pg/L	1		8290A	Total/NA
OCDF	8.7	J I B	100	0.19	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-12A-042220 — Lab Sample ID: 480-169009-4

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8,9-HxCDD	0.43	J I B	50	0.10	pg/L	1		8290A	Total/NA
Total HxCDD	3.1	J I B	50	0.11	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	2.9	J B	50	0.15	pg/L	1		8290A	Total/NA
Total HpCDD	5.9	J B	50	0.15	pg/L	1		8290A	Total/NA
OCDD	28	J B	100	0.12	pg/L	1		8290A	Total/NA
2,3,7,8-TCDF	0.20	J I	10	0.094	pg/L	1		8290A	Total/NA
Total TCDF	2.2	J I	10	0.094	pg/L	1		8290A	Total/NA
Total PeCDF	3.0	J I B	50	0.26	pg/L	1		8290A	Total/NA
Total HxCDF	5.3	J I B	50	0.18	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	1.3	J B	50	0.053	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.49	J I B	50	0.065	pg/L	1		8290A	Total/NA
Total HpCDF	4.5	J I B	50	0.059	pg/L	1		8290A	Total/NA
OCDF	4.1	J B	100	0.20	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 480-169009-1

Client Sample ID: SUPE-W-18D-042220 — Lab Sample ID: 480-169009-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.43	J	1.0	0.34	ug/L	1		8270D LL	Total/NA

Client Sample ID: SUPE-W-04AR2-042220 — Lab Sample ID: 480-169009-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.38	J	1.0	0.36	ug/L	1		8270D	Total/NA
Anthracene	3.5	*	1.0	0.32	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.67		0.20	0.056	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	1.3		0.20	0.058	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.49		0.20	0.074	ug/L	1		8270D	Total/NA
Chrysene	1.6		0.50	0.14	ug/L	1		8270D	Total/NA
Dibenzofuran	0.44	J	2.0	0.35	ug/L	1		8270D	Total/NA
Fluoranthene	4.4	*	1.0	0.32	ug/L	1		8270D	Total/NA
Fluorene	0.76	J	1.0	0.38	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.37		0.20	0.084	ug/L	1		8270D	Total/NA
Pyrene	2.6		1.0	0.48	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.85		0.20	0.044	ug/L	1		8270D	Total/NA
Phenanthrene	2.3		1.0	0.35	ug/L	1		8270D	Total/NA
Total TCDD	0.60	J I	10	0.26	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.62	J I	50	0.25	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	2.3	J B	50	0.25	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	1.8	J B	50	0.23	pg/L	1		8290A	Total/NA
Total HxCDD	26	J I B	50	0.24	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	60	B	50	0.79	pg/L	1		8290A	Total/NA
Total HpCDD	280	B	50	0.79	pg/L	1		8290A	Total/NA
OCDD	670	B	100	0.17	pg/L	1		8290A	Total/NA
2,3,7,8-TCDF	0.37	J	10	0.13	pg/L	1		8290A	Total/NA
Total TCDF	2.7	J I	10	0.13	pg/L	1		8290A	Total/NA
Total PeCDF	6.2	J I B	50	0.46	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.92	J B	50	0.21	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.52	J B	50	0.22	pg/L	1		8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.46	J I B	50	0.21	pg/L	1		8290A	Total/NA
Total HxCDF	30	J I B	50	0.21	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	9.2	J B	50	0.16	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.92	J B	50	0.21	pg/L	1		8290A	Total/NA
Total HpCDF	34	J B	50	0.19	pg/L	1		8290A	Total/NA
OCDF	29	J B	100	0.18	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-EB-01-042220 — Lab Sample ID: 480-169009-7

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total HxCDD	1.6	J I B	50	0.082	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	1.1	J I B	50	0.13	pg/L	1		8290A	Total/NA
Total HpCDD	4.4	J I B	50	0.13	pg/L	1		8290A	Total/NA
OCDD	13	J B	99	0.12	pg/L	1		8290A	Total/NA
2,3,7,8-TCDF	0.22	J I	9.9	0.098	pg/L	1		8290A	Total/NA
Total TCDF	0.46	J I	9.9	0.098	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.48	J I B	50	0.084	pg/L	1		8290A	Total/NA
Total HpCDF	0.81	J I B	50	0.094	pg/L	1		8290A	Total/NA
OCDF	0.95	J I B	99	0.071	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 480-169009-1

Client Sample ID: SUPE-W-30C-042120 — Lab Sample ID: 480-169009-8

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	0.58	J I	9.8	0.18	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.45	J I B	49	0.17	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.53	J I B	49	0.15	pg/L	1		8290A	Total/NA
Total HxCDD	2.0	J I B	49	0.16	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	5.2	J B	49	0.23	pg/L	1		8290A	Total/NA
Total HpCDD	9.1	J B	49	0.23	pg/L	1		8290A	Total/NA
OCDD	38	J B	98	0.27	pg/L	1		8290A	Total/NA
Total TCDF	2.4	J I	9.8	0.14	pg/L	1		8290A	Total/NA
Total HxCDF	2.6	J I B	49	0.30	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	1.4	J I B	49	0.16	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.54	J B	49	0.19	pg/L	1		8290A	Total/NA
Total HpCDF	5.2	J I B	49	0.17	pg/L	1		8290A	Total/NA
OCDF	3.7	J B	98	0.22	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-12CR-042220 — Lab Sample ID: 480-169009-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.41	J	1.0	0.34	ug/L	1		8270D LL	Total/NA
2,3,4,6-Tetrachlorophenol	1.6	J	4.9	1.5	ug/L	1		8270D	Total/NA
2,4,6-Trichlorophenol	2.0	J	4.9	1.1	ug/L	1		8270D	Total/NA
Total TCDD	0.59	J I	10	0.13	pg/L	1		8290A	Total/NA
Total PeCDD	0.52	J I	50	0.13	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.27	J I B	50	0.080	pg/L	1		8290A	Total/NA
Total HxCDD	2.6	J I B	50	0.084	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	3.3	J B	50	0.080	pg/L	1		8290A	Total/NA
Total HpCDD	11	J B	50	0.080	pg/L	1		8290A	Total/NA
OCDD	41	J B	100	0.12	pg/L	1		8290A	Total/NA
Total PeCDF	0.31	J B	50	0.17	pg/L	1		8290A	Total/NA
Total HxCDF	1.3	J I B	50	0.19	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.72	J B	50	0.099	pg/L	1		8290A	Total/NA
Total HpCDF	2.8	J B	50	0.11	pg/L	1		8290A	Total/NA
OCDF	2.7	J B	100	0.12	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-30A-042220 — Lab Sample ID: 480-169009-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	6.5		2.0	1.5	ug/L	2		8260C	Total/NA
Benzene	5.6		2.0	0.82	ug/L	2		8260C	Total/NA
Ethylbenzene	17		2.0	1.5	ug/L	2		8260C	Total/NA
m-Xylene & p-Xylene	6.4		4.0	1.3	ug/L	2		8260C	Total/NA
Naphthalene	150		2.0	0.86	ug/L	2		8260C	Total/NA
o-Xylene	5.5		2.0	1.5	ug/L	2		8260C	Total/NA
Toluene	1.5	J	2.0	1.0	ug/L	2		8260C	Total/NA
Xylenes, Total	12		4.0	1.3	ug/L	2		8260C	Total/NA
1-Methylnaphthalene	8.7		2.0	0.51	ug/L	1		8270D	Total/NA
2-Methylnaphthalene	0.22	J	2.0	0.13	ug/L	1		8270D	Total/NA
Acenaphthene	23		1.0	0.37	ug/L	1		8270D	Total/NA
Acenaphthylene	0.56	J	1.0	0.33	ug/L	1		8270D	Total/NA
Anthracene	0.97	J *	1.0	0.33	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.26		0.20	0.059	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.26		0.20	0.075	ug/L	1		8270D	Total/NA
Chrysene	0.23	J	0.51	0.14	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SUPE-W-30A-042220 (Continued) — Lab Sample ID: 480-169009-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenzofuran	7.5		2.0	0.36	ug/L	1		8270D	Total/NA
Fluoranthene	1.4	*	1.0	0.33	ug/L	1		8270D	Total/NA
Fluorene	6.0		1.0	0.39	ug/L	1		8270D	Total/NA
Pyrene	0.95	J	1.0	0.49	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.19	J	0.20	0.045	ug/L	1		8270D	Total/NA
Phenanthrene	1.5		1.0	0.36	ug/L	1		8270D	Total/NA
1,2,3,4,7,8-HxCDD	1.0	J	48	0.17	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	8.5	J B	48	0.17	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	1.9	J B	48	0.16	pg/L	1		8290A	Total/NA
Total HxCDD	35	J I B	48	0.17	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	210	B	48	0.68	pg/L	1		8290A	Total/NA
Total HpCDD	460	B	48	0.68	pg/L	1		8290A	Total/NA
OCDD	2800	B	97	0.053	pg/L	1		8290A	Total/NA
Total TCDF	17	I	9.7	0.16	pg/L	1		8290A	Total/NA
1,2,3,7,8-PeCDF	0.55	J B	48	0.28	pg/L	1		8290A	Total/NA
2,3,4,7,8-PeCDF	1.1	J I	48	0.29	pg/L	1		8290A	Total/NA
Total PeCDF	78	I B	48	0.29	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDF	8.8	J B	48	1.5	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDF	2.2	J B	48	1.5	pg/L	1		8290A	Total/NA
Total HxCDF	220	I B	48	1.5	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	70	B	48	0.17	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	6.8	J B	48	0.23	pg/L	1		8290A	Total/NA
Total HpCDF	270	B	48	0.20	pg/L	1		8290A	Total/NA
OCDF	200	B	97	0.097	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-06A-042120 — Lab Sample ID: 480-169009-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	2.1		1.0	0.43	ug/L	1		8260C	Total/NA
Bis(2-ethylhexyl) phthalate	2.4	J	9.8	2.4	ug/L	1		8270D	Total/NA
Total TCDD	0.80	J I	10	0.13	pg/L	1		8290A	Total/NA
Total HxCDD	2.4	J I B	51	0.12	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	5.0	J B	51	0.28	pg/L	1		8290A	Total/NA
Total HpCDD	14	J B	51	0.28	pg/L	1		8290A	Total/NA
OCDD	72	J B	100	0.10	pg/L	1		8290A	Total/NA
2,3,7,8-TCDF	0.24	J I	10	0.12	pg/L	1		8290A	Total/NA
Total TCDF	0.78	J I	10	0.12	pg/L	1		8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.52	J I B	51	0.16	pg/L	1		8290A	Total/NA
Total HxCDF	0.52	J I B	51	0.16	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	1.4	J I B	51	0.18	pg/L	1		8290A	Total/NA
Total HpCDF	4.6	J I B	51	0.20	pg/L	1		8290A	Total/NA
OCDF	5.0	J B	100	0.17	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-10AR2-042220 — Lab Sample ID: 480-169009-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	9.8		1.0	0.75	ug/L	1		8260C	Total/NA
Benzene	18		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	44		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.6		2.0	0.66	ug/L	1		8260C	Total/NA
Naphthalene	1.9		1.0	0.43	ug/L	1		8260C	Total/NA
o-Xylene	18		1.0	0.76	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SUPE-W-10AR2-042220 (Continued) — Lab Sample ID: 480-169009-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.4		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	22		2.0	0.66	ug/L	1		8260C	Total/NA
1-Methylnaphthalene	48		2.0	0.50	ug/L	1		8270D	Total/NA
Anthracene	1.1	*	1.0	0.32	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.30		0.20	0.056	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.22		0.20	0.058	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.27		0.20	0.074	ug/L	1		8270D	Total/NA
Chrysene	0.30	J	0.50	0.14	ug/L	1		8270D	Total/NA
Dibenzofuran	34		2.0	0.35	ug/L	1		8270D	Total/NA
Fluoranthene	3.0	*	1.0	0.32	ug/L	1		8270D	Total/NA
Fluorene	28		1.0	0.38	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.13	J	0.20	0.084	ug/L	1		8270D	Total/NA
Pyrene	1.7		1.0	0.48	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.22		0.20	0.044	ug/L	1		8270D	Total/NA
Phenanthrene	11		1.0	0.35	ug/L	1		8270D	Total/NA
Acenaphthene - DL	120		5.0	1.8	ug/L	5		8270D	Total/NA
Total TCDD	0.70	J I	10	0.34	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.80	J I B	52	0.16	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.90	J B	52	0.15	pg/L	1		8290A	Total/NA
Total HxCDD	8.1	J I B	52	0.15	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	18	J B	52	0.65	pg/L	1		8290A	Total/NA
Total HpCDD	69	B	52	0.65	pg/L	1		8290A	Total/NA
OCDD	200	B	100	0.24	pg/L	1		8290A	Total/NA
2,3,7,8-TCDF	0.19	J I	10	0.16	pg/L	1		8290A	Total/NA
Total TCDF	2.4	J I	10	0.16	pg/L	1		8290A	Total/NA
2,3,4,7,8-PeCDF	0.37	J I	52	0.16	pg/L	1		8290A	Total/NA
Total PeCDF	4.8	J I B	52	0.16	pg/L	1		8290A	Total/NA
Total HxCDF	10	J I B	52	0.42	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	2.5	J B	52	0.13	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.65	J B	52	0.17	pg/L	1		8290A	Total/NA
Total HpCDF	9.8	J B	52	0.15	pg/L	1		8290A	Total/NA
OCDF	11	J B	100	0.56	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-06C-042120 — Lab Sample ID: 480-169009-13

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	0.62	J I	10	0.20	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.35	J I B	51	0.16	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.36	J I B	51	0.15	pg/L	1		8290A	Total/NA
Total HxCDD	2.0	J I B	51	0.16	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	1.5	J I B	51	0.23	pg/L	1		8290A	Total/NA
Total HpCDD	4.4	J I B	51	0.23	pg/L	1		8290A	Total/NA
OCDD	12	J B	100	0.16	pg/L	1		8290A	Total/NA
Total HpCDF	0.27	J B	51	0.11	pg/L	1		8290A	Total/NA
OCDF	1.7	J I B	100	0.12	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SUPE-M99-A-042120
Lab Sample ID: 480-169009-1

Date Collected: 04/21/20 00:00
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/20 00:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/26/20 00:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/26/20 00:09	1
Benzene	ND		1.0	0.41	ug/L			04/26/20 00:09	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/20 00:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/20 00:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/20 00:09	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/26/20 00:09	1
Naphthalene	ND		1.0	0.43	ug/L			04/26/20 00:09	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/26/20 00:09	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/26/20 00:09	1
o-Xylene	ND		1.0	0.76	ug/L			04/26/20 00:09	1
Styrene	ND		1.0	0.73	ug/L			04/26/20 00:09	1
Toluene	ND		1.0	0.51	ug/L			04/26/20 00:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/26/20 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*04/26/20 00:09*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*04/26/20 00:09*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*04/26/20 00:09*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/26/20 00:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND	H	1.0	0.34	ug/L		04/29/20 15:30	04/30/20 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*100*		*24 - 146*	*04/29/20 15:30*	*04/30/20 16:17*	*1*
2-Fluorobiphenyl	*97*		*37 - 120*	*04/29/20 15:30*	*04/30/20 16:17*	*1*
2-Fluorophenol (Surr)	*49*		*10 - 120*	*04/29/20 15:30*	*04/30/20 16:17*	*1*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*04/29/20 15:30*	*04/30/20 16:17*	*1*
Phenol-d5 (Surr)	*33*		*11 - 120*	*04/29/20 15:30*	*04/30/20 16:17*	*1*
p-Terphenyl-d14	*107*		*64 - 127*	*04/29/20 15:30*	*04/30/20 16:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.9	0.29	ug/L		04/27/20 17:28	04/28/20 14:51	1
1,2-Dichlorobenzene	ND		1.9	0.28	ug/L		04/27/20 17:28	04/28/20 14:51	1
1,3-Dichlorobenzene	ND		1.9	0.24	ug/L		04/27/20 17:28	04/28/20 14:51	1
1,4-Dichlorobenzene	ND		1.9	0.26	ug/L		04/27/20 17:28	04/28/20 14:51	1
1-Methylnaphthalene	ND		1.9	0.48	ug/L		04/27/20 17:28	04/28/20 14:51	1
bis(chloroisopropyl) ether	ND		1.9	0.29	ug/L		04/27/20 17:28	04/28/20 14:51	1
2,3,4,6-Tetrachlorophenol	ND		4.8	1.4	ug/L		04/27/20 17:28	04/28/20 14:51	1
2,4,5-Trichlorophenol	ND		9.5	2.2	ug/L		04/27/20 17:28	04/28/20 14:51	1
2,4,6-Trichlorophenol	ND		4.8	1.0	ug/L		04/27/20 17:28	04/28/20 14:51	1
2,4-Dichlorophenol	ND		9.5	2.2	ug/L		04/27/20 17:28	04/28/20 14:51	1
2,4-Dinitrophenol	ND		19	7.1	ug/L		04/27/20 17:28	04/28/20 14:51	1
2,4-Dinitrotoluene	ND		0.95	0.29	ug/L		04/27/20 17:28	04/28/20 14:51	1
2,6-Dinitrotoluene	ND		0.95	0.11	ug/L		04/27/20 17:28	04/28/20 14:51	1
3 & 4 Methylphenol	ND		1.9	0.42	ug/L		04/27/20 17:28	04/28/20 14:51	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-M99-A-042120
Date Collected: 04/21/20 00:00
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		1.9	0.32	ug/L		04/27/20 17:28	04/28/20 14:51	1
2-Chlorophenol	ND		4.8	0.76	ug/L		04/27/20 17:28	04/28/20 14:51	1
2-Methylnaphthalene	ND		1.9	0.12	ug/L		04/27/20 17:28	04/28/20 14:51	1
2-Methylphenol	ND		1.9	0.29	ug/L		04/27/20 17:28	04/28/20 14:51	1
2-Nitroaniline	ND		4.8	1.0	ug/L		04/27/20 17:28	04/28/20 14:51	1
2-Nitrophenol	ND		9.5	2.0	ug/L		04/27/20 17:28	04/28/20 14:51	1
3-Nitroaniline	ND		9.5	2.2	ug/L		04/27/20 17:28	04/28/20 14:51	1
4,6-Dinitro-2-methylphenol	ND		19	4.7	ug/L		04/27/20 17:28	04/28/20 14:51	1
4-Bromophenyl phenyl ether	ND		4.8	0.87	ug/L		04/27/20 17:28	04/28/20 14:51	1
4-Chloro-3-methylphenol	ND		9.5	2.1	ug/L		04/27/20 17:28	04/28/20 14:51	1
4-Chloroaniline	ND		9.5	2.0	ug/L		04/27/20 17:28	04/28/20 14:51	1
4-Chlorophenyl phenyl ether	ND		4.8	0.77	ug/L		04/27/20 17:28	04/28/20 14:51	1
4-Nitroaniline	ND		9.5	3.7	ug/L		04/27/20 17:28	04/28/20 14:51	1
4-Nitrophenol	ND		19	2.2	ug/L		04/27/20 17:28	04/28/20 14:51	1
Acenaphthene	ND		0.95	0.34	ug/L		04/27/20 17:28	04/28/20 14:51	1
Acenaphthylene	ND		0.95	0.30	ug/L		04/27/20 17:28	04/28/20 14:51	1
Anthracene	ND	*	0.95	0.30	ug/L		04/27/20 17:28	04/28/20 14:51	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		04/27/20 17:28	04/28/20 14:51	1
Benzo[b]fluoranthene	ND		0.19	0.055	ug/L		04/27/20 17:28	04/28/20 14:51	1
Benzo[g,h,i]perylene	ND		0.95	0.40	ug/L		04/27/20 17:28	04/28/20 14:51	1
Benzo[k]fluoranthene	ND		0.19	0.070	ug/L		04/27/20 17:28	04/28/20 14:51	1
Benzoic acid	ND		19	4.3	ug/L		04/27/20 17:28	04/28/20 14:51	1
Benzyl alcohol	ND		19	2.9	ug/L		04/27/20 17:28	04/28/20 14:51	1
Bis(2-chloroethoxy)methane	ND		1.9	0.29	ug/L		04/27/20 17:28	04/28/20 14:51	1
Bis(2-chloroethyl)ether	ND		1.9	0.33	ug/L		04/27/20 17:28	04/28/20 14:51	1
Bis(2-ethylhexyl) phthalate	ND		9.5	2.3	ug/L		04/27/20 17:28	04/28/20 14:51	1
Butyl benzyl phthalate	ND		1.9	0.26	ug/L		04/27/20 17:28	04/28/20 14:51	1
Chrysene	ND		0.48	0.13	ug/L		04/27/20 17:28	04/28/20 14:51	1
Dibenz(a,h)anthracene	ND		0.29	0.061	ug/L		04/27/20 17:28	04/28/20 14:51	1
Dibenzofuran	ND		1.9	0.33	ug/L		04/27/20 17:28	04/28/20 14:51	1
Diethyl phthalate	ND		1.9	0.42	ug/L		04/27/20 17:28	04/28/20 14:51	1
Dimethyl phthalate	ND	*	1.9	0.36	ug/L		04/27/20 17:28	04/28/20 14:51	1
Di-n-butyl phthalate	ND	*	4.8	0.76	ug/L		04/27/20 17:28	04/28/20 14:51	1
Di-n-octyl phthalate	ND		9.5	2.3	ug/L		04/27/20 17:28	04/28/20 14:51	1
2,3,5,6-Tetrachlorophenol	ND		4.8	2.4	ug/L		04/27/20 17:28	04/28/20 14:51	1
Fluoranthene	ND	*	0.95	0.30	ug/L		04/27/20 17:28	04/28/20 14:51	1
Fluorene	ND		0.95	0.36	ug/L		04/27/20 17:28	04/28/20 14:51	1
Hexachlorobenzene	ND	*	0.48	0.13	ug/L		04/27/20 17:28	04/28/20 14:51	1
Hexachlorobutadiene	ND		4.8	1.1	ug/L		04/27/20 17:28	04/28/20 14:51	1
Hexachlorocyclopentadiene	ND		19	3.3	ug/L		04/27/20 17:28	04/28/20 14:51	1
Hexachloroethane	ND		4.8	0.92	ug/L		04/27/20 17:28	04/28/20 14:51	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.080	ug/L		04/27/20 17:28	04/28/20 14:51	1
Isophorone	ND		1.9	0.28	ug/L		04/27/20 17:28	04/28/20 14:51	1
Nitrobenzene	ND		0.95	0.43	ug/L		04/27/20 17:28	04/28/20 14:51	1
N-Nitrosodi-n-propylamine	ND		0.48	0.13	ug/L		04/27/20 17:28	04/28/20 14:51	1
N-Nitrosodiphenylamine	ND		1.9	0.32	ug/L		04/27/20 17:28	04/28/20 14:51	1
Phenol	ND		4.8	0.34	ug/L		04/27/20 17:28	04/28/20 14:51	1
Pyrene	ND		0.95	0.46	ug/L		04/27/20 17:28	04/28/20 14:51	1
2,4-Dimethylphenol	ND		9.5	3.2	ug/L		04/27/20 17:28	04/28/20 14:51	1

Client Sample ID: SUPE-M99-A-042120

Date Collected: 04/21/20 00:00
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.19	0.042	ug/L		04/27/20 17:28	04/28/20 14:51	1
Phenanthrene	ND		0.95	0.33	ug/L		04/27/20 17:28	04/28/20 14:51	1
3,3'-Dichlorobenzidine	ND		4.8	0.89	ug/L		04/27/20 17:28	04/28/20 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*135*		*40 - 145*	*04/27/20 17:28*	*04/28/20 14:51*	*1*
2-Fluorobiphenyl	*97*		*34 - 110*	*04/27/20 17:28*	*04/28/20 14:51*	*1*
2-Fluorophenol (Surr)	*63*		*27 - 110*	*04/27/20 17:28*	*04/28/20 14:51*	*1*
Nitrobenzene-d5 (Surr)	*79*		*36 - 120*	*04/27/20 17:28*	*04/28/20 14:51*	*1*
Phenol-d5 (Surr)	*27*		*20 - 100*	*04/27/20 17:28*	*04/28/20 14:51*	*1*
Terphenyl-d14 (Surr)	*114*		*40 - 145*	*04/27/20 17:28*	*04/28/20 14:51*	*1*

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.15	pg/L		04/28/20 11:57	04/30/20 16:58	1
Total TCDD	ND		10	0.15	pg/L		04/28/20 11:57	04/30/20 16:58	1
1,2,3,7,8-PeCDD	ND		50	0.27	pg/L		04/28/20 11:57	04/30/20 16:58	1
Total PeCDD	ND		50	0.27	pg/L		04/28/20 11:57	04/30/20 16:58	1
1,2,3,4,7,8-HxCDD	ND		50	0.22	pg/L		04/28/20 11:57	04/30/20 16:58	1
1,2,3,6,7,8-HxCDD	ND		50	0.24	pg/L		04/28/20 11:57	04/30/20 16:58	1
1,2,3,7,8,9-HxCDD	ND		50	0.21	pg/L		04/28/20 11:57	04/30/20 16:58	1
Total HxCDD	ND		50	0.24	pg/L		04/28/20 11:57	04/30/20 16:58	1
1,2,3,4,6,7,8-HpCDD	**3.4**	**J I B**	50	0.24	pg/L		04/28/20 11:57	04/30/20 16:58	1
Total HpCDD	**8.1**	**J I B**	50	0.24	pg/L		04/28/20 11:57	04/30/20 16:58	1
OCDD	**28**	**J B**	100	0.19	pg/L		04/28/20 11:57	04/30/20 16:58	1
2,3,7,8-TCDF	ND		10	0.14	pg/L		04/28/20 11:57	04/30/20 16:58	1
Total TCDF	**1.8**	**J I**	10	0.14	pg/L		04/28/20 11:57	04/30/20 16:58	1
1,2,3,7,8-PeCDF	ND		50	0.22	pg/L		04/28/20 11:57	04/30/20 16:58	1
2,3,4,7,8-PeCDF	ND		50	0.19	pg/L		04/28/20 11:57	04/30/20 16:58	1
Total PeCDF	**0.47**	**J I B**	50	0.20	pg/L		04/28/20 11:57	04/30/20 16:58	1
1,2,3,4,7,8-HxCDF	ND		50	0.28	pg/L		04/28/20 11:57	04/30/20 16:58	1
1,2,3,6,7,8-HxCDF	ND		50	0.29	pg/L		04/28/20 11:57	04/30/20 16:58	1
2,3,4,6,7,8-HxCDF	ND		50	0.26	pg/L		04/28/20 11:57	04/30/20 16:58	1
1,2,3,7,8,9-HxCDF	ND		50	0.26	pg/L		04/28/20 11:57	04/30/20 16:58	1
Total HxCDF	**2.1**	**J I B**	50	0.27	pg/L		04/28/20 11:57	04/30/20 16:58	1
1,2,3,4,6,7,8-HpCDF	**1.2**	**J B**	50	0.19	pg/L		04/28/20 11:57	04/30/20 16:58	1
1,2,3,4,7,8,9-HpCDF	ND		50	0.24	pg/L		04/28/20 11:57	04/30/20 16:58	1
Total HpCDF	**3.6**	**J I B**	50	0.21	pg/L		04/28/20 11:57	04/30/20 16:58	1
OCDF	**3.2**	**J I B**	100	0.16	pg/L		04/28/20 11:57	04/30/20 16:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*67*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-1,2,3,7,8-PeCDD	*69*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-1,2,3,4,7,8-HxCDD	*68*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-1,2,3,6,7,8-HxCDD	*68*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*89*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-OCDD	*73*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-2,3,7,8-TCDF	*69*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-1,2,3,7,8-PeCDF	*69*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-2,3,4,7,8-PeCDF	*65*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-1,2,3,4,7,8-HxCDF	*69*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*

Client Sample ID: SUPE-M99-A-042120
Lab Sample ID: 480-169009-1
Date Collected: 04/21/20 00:00
Matrix: Water
Date Received: 04/24/20 10:00

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

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDF	*63*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-2,3,4,6,7,8-HxCDF	*74*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-1,2,3,7,8,9-HxCDF	*79*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*73*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*88*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*
13C-OCDF	*76*		*40 - 135*	*04/28/20 11:57*	*04/30/20 16:58*	*1*

Client Sample ID: SUPE-TB-01-042220
Lab Sample ID: 480-169009-2
Date Collected: 04/22/20 07:25
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/20 00:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/26/20 00:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/26/20 00:32	1
Benzene	ND		1.0	0.41	ug/L			04/26/20 00:32	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/20 00:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/20 00:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/20 00:32	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/26/20 00:32	1
Naphthalene	ND		1.0	0.43	ug/L			04/26/20 00:32	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/26/20 00:32	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/26/20 00:32	1
o-Xylene	ND		1.0	0.76	ug/L			04/26/20 00:32	1
Styrene	ND		1.0	0.73	ug/L			04/26/20 00:32	1
Toluene	ND		1.0	0.51	ug/L			04/26/20 00:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/26/20 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*04/26/20 00:32*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/26/20 00:32*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*04/26/20 00:32*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/26/20 00:32*	*1*

Client Sample ID: SUPE-W-28C-042220
Lab Sample ID: 480-169009-3
Date Collected: 04/22/20 07:55
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/20 00:55	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/26/20 00:55	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/26/20 00:55	1
Benzene	ND		1.0	0.41	ug/L			04/26/20 00:55	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/20 00:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/20 00:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/20 00:55	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/26/20 00:55	1
Naphthalene	ND		1.0	0.43	ug/L			04/26/20 00:55	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/26/20 00:55	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-W-28C-042220
Date Collected: 04/22/20 07:55
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	0.69	ug/L			04/26/20 00:55	1
o-Xylene	ND		1.0	0.76	ug/L			04/26/20 00:55	1
Styrene	ND		1.0	0.73	ug/L			04/26/20 00:55	1
Toluene	ND		1.0	0.51	ug/L			04/26/20 00:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/26/20 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*04/26/20 00:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/26/20 00:55*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*04/26/20 00:55*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/26/20 00:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		04/29/20 15:30	04/30/20 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*98*		*24 - 146*	*04/29/20 15:30*	*04/30/20 16:45*	*1*
2-Fluorobiphenyl	*101*		*37 - 120*	*04/29/20 15:30*	*04/30/20 16:45*	*1*
2-Fluorophenol (Surr)	*52*		*10 - 120*	*04/29/20 15:30*	*04/30/20 16:45*	*1*
Nitrobenzene-d5 (Surr)	*85*		*26 - 120*	*04/29/20 15:30*	*04/30/20 16:45*	*1*
Phenol-d5 (Surr)	*35*		*11 - 120*	*04/29/20 15:30*	*04/30/20 16:45*	*1*
p-Terphenyl-d14	*107*		*64 - 127*	*04/29/20 15:30*	*04/30/20 16:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.9	0.28	ug/L		04/27/20 17:28	04/28/20 15:19	1
1,2-Dichlorobenzene	ND		1.9	0.28	ug/L		04/27/20 17:28	04/28/20 15:19	1
1,3-Dichlorobenzene	ND		1.9	0.24	ug/L		04/27/20 17:28	04/28/20 15:19	1
1,4-Dichlorobenzene	ND		1.9	0.26	ug/L		04/27/20 17:28	04/28/20 15:19	1
1-Methylnaphthalene	ND		1.9	0.47	ug/L		04/27/20 17:28	04/28/20 15:19	1
bis(chloroisopropyl) ether	ND		1.9	0.28	ug/L		04/27/20 17:28	04/28/20 15:19	1
2,3,4,6-Tetrachlorophenol	ND		4.7	1.4	ug/L		04/27/20 17:28	04/28/20 15:19	1
2,4,5-Trichlorophenol	ND		9.5	2.2	ug/L		04/27/20 17:28	04/28/20 15:19	1
2,4,6-Trichlorophenol	ND		4.7	1.0	ug/L		04/27/20 17:28	04/28/20 15:19	1
2,4-Dichlorophenol	ND		9.5	2.2	ug/L		04/27/20 17:28	04/28/20 15:19	1
2,4-Dinitrophenol	ND		19	7.1	ug/L		04/27/20 17:28	04/28/20 15:19	1
2,4-Dinitrotoluene	ND		0.95	0.28	ug/L		04/27/20 17:28	04/28/20 15:19	1
2,6-Dinitrotoluene	ND		0.95	0.11	ug/L		04/27/20 17:28	04/28/20 15:19	1
3 & 4 Methylphenol	ND		1.9	0.42	ug/L		04/27/20 17:28	04/28/20 15:19	1
2-Chloronaphthalene	ND		1.9	0.32	ug/L		04/27/20 17:28	04/28/20 15:19	1
2-Chlorophenol	ND		4.7	0.76	ug/L		04/27/20 17:28	04/28/20 15:19	1
2-Methylnaphthalene	ND		1.9	0.12	ug/L		04/27/20 17:28	04/28/20 15:19	1
2-Methylphenol	ND		1.9	0.29	ug/L		04/27/20 17:28	04/28/20 15:19	1
2-Nitroaniline	ND		4.7	1.0	ug/L		04/27/20 17:28	04/28/20 15:19	1
2-Nitrophenol	ND		9.5	2.0	ug/L		04/27/20 17:28	04/28/20 15:19	1
3-Nitroaniline	ND		9.5	2.2	ug/L		04/27/20 17:28	04/28/20 15:19	1
4,6-Dinitro-2-methylphenol	ND		19	4.7	ug/L		04/27/20 17:28	04/28/20 15:19	1
4-Bromophenyl phenyl ether	ND		4.7	0.86	ug/L		04/27/20 17:28	04/28/20 15:19	1
4-Chloro-3-methylphenol	ND		9.5	2.1	ug/L		04/27/20 17:28	04/28/20 15:19	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-W-28C-042220
Date Collected: 04/22/20 07:55
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		9.5	2.0	ug/L		04/27/20 17:28	04/28/20 15:19	1
4-Chlorophenyl phenyl ether	ND		4.7	0.77	ug/L		04/27/20 17:28	04/28/20 15:19	1
4-Nitroaniline	ND		9.5	3.7	ug/L		04/27/20 17:28	04/28/20 15:19	1
4-Nitrophenol	ND		19	2.2	ug/L		04/27/20 17:28	04/28/20 15:19	1
Acenaphthene	ND		0.95	0.34	ug/L		04/27/20 17:28	04/28/20 15:19	1
Acenaphthylene	ND		0.95	0.30	ug/L		04/27/20 17:28	04/28/20 15:19	1
Anthracene	ND	*	0.95	0.30	ug/L		04/27/20 17:28	04/28/20 15:19	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		04/27/20 17:28	04/28/20 15:19	1
Benzo[b]fluoranthene	ND		0.19	0.055	ug/L		04/27/20 17:28	04/28/20 15:19	1
Benzo[g,h,i]perylene	ND		0.95	0.40	ug/L		04/27/20 17:28	04/28/20 15:19	1
Benzo[k]fluoranthene	ND		0.19	0.070	ug/L		04/27/20 17:28	04/28/20 15:19	1
Benzoic acid	ND		19	4.3	ug/L		04/27/20 17:28	04/28/20 15:19	1
Benzyl alcohol	ND		19	2.9	ug/L		04/27/20 17:28	04/28/20 15:19	1
Bis(2-chloroethoxy)methane	ND		1.9	0.28	ug/L		04/27/20 17:28	04/28/20 15:19	1
Bis(2-chloroethyl)ether	ND		1.9	0.33	ug/L		04/27/20 17:28	04/28/20 15:19	1
Bis(2-ethylhexyl) phthalate	ND		9.5	2.3	ug/L		04/27/20 17:28	04/28/20 15:19	1
Butyl benzyl phthalate	ND		1.9	0.26	ug/L		04/27/20 17:28	04/28/20 15:19	1
Chrysene	ND		0.47	0.13	ug/L		04/27/20 17:28	04/28/20 15:19	1
Dibenz(a,h)anthracene	ND		0.28	0.061	ug/L		04/27/20 17:28	04/28/20 15:19	1
Dibenzofuran	ND		1.9	0.33	ug/L		04/27/20 17:28	04/28/20 15:19	1
Diethyl phthalate	ND		1.9	0.42	ug/L		04/27/20 17:28	04/28/20 15:19	1
Dimethyl phthalate	ND	*	1.9	0.36	ug/L		04/27/20 17:28	04/28/20 15:19	1
Di-n-butyl phthalate	ND	*	4.7	0.76	ug/L		04/27/20 17:28	04/28/20 15:19	1
Di-n-octyl phthalate	ND		9.5	2.3	ug/L		04/27/20 17:28	04/28/20 15:19	1
2,3,5,6-Tetrachlorophenol	ND		4.7	2.4	ug/L		04/27/20 17:28	04/28/20 15:19	1
Fluoranthene	ND	*	0.95	0.30	ug/L		04/27/20 17:28	04/28/20 15:19	1
Fluorene	ND		0.95	0.36	ug/L		04/27/20 17:28	04/28/20 15:19	1
Hexachlorobenzene	ND	*	0.47	0.13	ug/L		04/27/20 17:28	04/28/20 15:19	1
Hexachlorobutadiene	ND		4.7	1.1	ug/L		04/27/20 17:28	04/28/20 15:19	1
Hexachlorocyclopentadiene	ND		19	3.3	ug/L		04/27/20 17:28	04/28/20 15:19	1
Hexachloroethane	ND		4.7	0.92	ug/L		04/27/20 17:28	04/28/20 15:19	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.080	ug/L		04/27/20 17:28	04/28/20 15:19	1
Isophorone	ND		1.9	0.28	ug/L		04/27/20 17:28	04/28/20 15:19	1
Nitrobenzene	ND		0.95	0.43	ug/L		04/27/20 17:28	04/28/20 15:19	1
N-Nitrosodi-n-propylamine	ND		0.47	0.13	ug/L		04/27/20 17:28	04/28/20 15:19	1
N-Nitrosodiphenylamine	ND		1.9	0.32	ug/L		04/27/20 17:28	04/28/20 15:19	1
Phenol	ND		4.7	0.34	ug/L		04/27/20 17:28	04/28/20 15:19	1
Pyrene	ND		0.95	0.46	ug/L		04/27/20 17:28	04/28/20 15:19	1
2,4-Dimethylphenol	ND		9.5	3.2	ug/L		04/27/20 17:28	04/28/20 15:19	1
Benzo[a]anthracene	**0.12**	**J**	0.19	0.042	ug/L		04/27/20 17:28	04/28/20 15:19	1
Phenanthrene	ND		0.95	0.33	ug/L		04/27/20 17:28	04/28/20 15:19	1
3,3'-Dichlorobenzidine	ND		4.7	0.89	ug/L		04/27/20 17:28	04/28/20 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*136*		*40 - 145*	*04/27/20 17:28*	*04/28/20 15:19*	*1*
2-Fluorobiphenyl	*94*		*34 - 110*	*04/27/20 17:28*	*04/28/20 15:19*	*1*
2-Fluorophenol (Surr)	*55*		*27 - 110*	*04/27/20 17:28*	*04/28/20 15:19*	*1*
Nitrobenzene-d5 (Surr)	*78*		*36 - 120*	*04/27/20 17:28*	*04/28/20 15:19*	*1*
Phenol-d5 (Surr)	*23*		*20 - 100*	*04/27/20 17:28*	*04/28/20 15:19*	*1*
Terphenyl-d14 (Surr)	*113*		*40 - 145*	*04/27/20 17:28*	*04/28/20 15:19*	*1*

Client Sample ID: SUPE-W-28C-042220

Lab Sample ID: 480-169009-3

Date Collected: 04/22/20 07:55
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.12	pg/L		04/28/20 11:57	04/30/20 17:59	1
Total TCDD	ND		10	0.12	pg/L		04/28/20 11:57	04/30/20 17:59	1
1,2,3,7,8-PeCDD	ND		50	0.26	pg/L		04/28/20 11:57	04/30/20 17:59	1
Total PeCDD	ND		50	0.26	pg/L		04/28/20 11:57	04/30/20 17:59	1
1,2,3,4,7,8-HxCDD	**0.27**	**J I**	50	0.17	pg/L		04/28/20 11:57	04/30/20 17:59	1
1,2,3,6,7,8-HxCDD	**0.41**	**J I B**	50	0.17	pg/L		04/28/20 11:57	04/30/20 17:59	1
1,2,3,7,8,9-HxCDD	**0.65**	**J B**	50	0.16	pg/L		04/28/20 11:57	04/30/20 17:59	1
Total HxCDD	**5.1**	**J I B**	50	0.16	pg/L		04/28/20 11:57	04/30/20 17:59	1
1,2,3,4,6,7,8-HpCDD	**9.5**	**J B**	50	0.25	pg/L		04/28/20 11:57	04/30/20 17:59	1
Total HpCDD	**38**	**J B**	50	0.25	pg/L		04/28/20 11:57	04/30/20 17:59	1
OCDD	**150**	**B**	100	0.20	pg/L		04/28/20 11:57	04/30/20 17:59	1
2,3,7,8-TCDF	ND		10	0.14	pg/L		04/28/20 11:57	04/30/20 17:59	1
Total TCDF	**0.64**	**J I**	10	0.14	pg/L		04/28/20 11:57	04/30/20 17:59	1
1,2,3,7,8-PeCDF	ND		50	0.18	pg/L		04/28/20 11:57	04/30/20 17:59	1
2,3,4,7,8-PeCDF	ND		50	0.18	pg/L		04/28/20 11:57	04/30/20 17:59	1
Total PeCDF	**1.1**	**J I B**	50	0.18	pg/L		04/28/20 11:57	04/30/20 17:59	1
1,2,3,4,7,8-HxCDF	ND		50	0.25	pg/L		04/28/20 11:57	04/30/20 17:59	1
1,2,3,6,7,8-HxCDF	ND		50	0.27	pg/L		04/28/20 11:57	04/30/20 17:59	1
2,3,4,6,7,8-HxCDF	ND		50	0.25	pg/L		04/28/20 11:57	04/30/20 17:59	1
1,2,3,7,8,9-HxCDF	ND		50	0.25	pg/L		04/28/20 11:57	04/30/20 17:59	1
Total HxCDF	**3.2**	**J I B**	50	0.26	pg/L		04/28/20 11:57	04/30/20 17:59	1
1,2,3,4,6,7,8-HpCDF	**2.6**	**J B**	50	0.17	pg/L		04/28/20 11:57	04/30/20 17:59	1
1,2,3,4,7,8,9-HpCDF	**0.53**	**J B**	50	0.21	pg/L		04/28/20 11:57	04/30/20 17:59	1
Total HpCDF	**8.3**	**J I B**	50	0.19	pg/L		04/28/20 11:57	04/30/20 17:59	1
OCDF	**8.7**	**J I B**	100	0.19	pg/L		04/28/20 11:57	04/30/20 17:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*75*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-1,2,3,7,8-PeCDD	*78*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-1,2,3,4,7,8-HxCDD	*76*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-1,2,3,6,7,8-HxCDD	*72*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*94*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-OCDD	*78*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-2,3,7,8-TCDF	*78*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-1,2,3,7,8-PeCDF	*83*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-2,3,4,7,8-PeCDF	*71*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-1,2,3,4,7,8-HxCDF	*79*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-1,2,3,6,7,8-HxCDF	*69*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-2,3,4,6,7,8-HxCDF	*77*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-1,2,3,7,8,9-HxCDF	*83*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*80*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*96*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*
13C-OCDF	*82*		*40 - 135*	*04/28/20 11:57*	*04/30/20 17:59*	*1*

Client Sample ID: SUPE-W-12A-042220

Lab Sample ID: 480-169009-4

Date Collected: 04/22/20 09:20
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/20 01:18	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-W-12A-042220

Date Collected: 04/22/20 09:20
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/26/20 01:18	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/26/20 01:18	1
Benzene	ND		1.0	0.41	ug/L			04/26/20 01:18	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/20 01:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/20 01:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/20 01:18	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/26/20 01:18	1
Naphthalene	ND		1.0	0.43	ug/L			04/26/20 01:18	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/26/20 01:18	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/26/20 01:18	1
o-Xylene	ND		1.0	0.76	ug/L			04/26/20 01:18	1
Styrene	ND		1.0	0.73	ug/L			04/26/20 01:18	1
Toluene	ND		1.0	0.51	ug/L			04/26/20 01:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/26/20 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*04/26/20 01:18*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/26/20 01:18*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*04/26/20 01:18*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/26/20 01:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		04/29/20 15:30	04/30/20 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*104*		*24 - 146*	*04/29/20 15:30*	*04/30/20 17:14*	*1*
2-Fluorobiphenyl	*105*		*37 - 120*	*04/29/20 15:30*	*04/30/20 17:14*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 120*	*04/29/20 15:30*	*04/30/20 17:14*	*1*
Nitrobenzene-d5 (Surr)	*88*		*26 - 120*	*04/29/20 15:30*	*04/30/20 17:14*	*1*
Phenol-d5 (Surr)	*36*		*11 - 120*	*04/29/20 15:30*	*04/30/20 17:14*	*1*
p-Terphenyl-d14	*116*		*64 - 127*	*04/29/20 15:30*	*04/30/20 17:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.1	0.31	ug/L		04/27/20 17:28	04/28/20 15:46	1
1,2-Dichlorobenzene	ND		2.1	0.30	ug/L		04/27/20 17:28	04/28/20 15:46	1
1,3-Dichlorobenzene	ND		2.1	0.26	ug/L		04/27/20 17:28	04/28/20 15:46	1
1,4-Dichlorobenzene	ND		2.1	0.28	ug/L		04/27/20 17:28	04/28/20 15:46	1
1-Methylnaphthalene	ND		2.1	0.52	ug/L		04/27/20 17:28	04/28/20 15:46	1
bis(chloroisopropyl) ether	ND		2.1	0.31	ug/L		04/27/20 17:28	04/28/20 15:46	1
2,3,4,6-Tetrachlorophenol	ND		5.2	1.6	ug/L		04/27/20 17:28	04/28/20 15:46	1
2,4,5-Trichlorophenol	ND		10	2.4	ug/L		04/27/20 17:28	04/28/20 15:46	1
2,4,6-Trichlorophenol	ND		5.2	1.1	ug/L		04/27/20 17:28	04/28/20 15:46	1
2,4-Dichlorophenol	ND		10	2.4	ug/L		04/27/20 17:28	04/28/20 15:46	1
2,4-Dinitrophenol	ND		21	7.7	ug/L		04/27/20 17:28	04/28/20 15:46	1
2,4-Dinitrotoluene	ND		1.0	0.31	ug/L		04/27/20 17:28	04/28/20 15:46	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		04/27/20 17:28	04/28/20 15:46	1
3 & 4 Methylphenol	ND		2.1	0.45	ug/L		04/27/20 17:28	04/28/20 15:46	1
2-Chloronaphthalene	ND		2.1	0.35	ug/L		04/27/20 17:28	04/28/20 15:46	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-W-12A-042220
Date Collected: 04/22/20 09:20
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		5.2	0.83	ug/L		04/27/20 17:28	04/28/20 15:46	1
2-Methylnaphthalene	ND		2.1	0.13	ug/L		04/27/20 17:28	04/28/20 15:46	1
2-Methylphenol	ND		2.1	0.32	ug/L		04/27/20 17:28	04/28/20 15:46	1
2-Nitroaniline	ND		5.2	1.1	ug/L		04/27/20 17:28	04/28/20 15:46	1
2-Nitrophenol	ND		10	2.2	ug/L		04/27/20 17:28	04/28/20 15:46	1
3-Nitroaniline	ND		10	2.4	ug/L		04/27/20 17:28	04/28/20 15:46	1
4,6-Dinitro-2-methylphenol	ND		21	5.1	ug/L		04/27/20 17:28	04/28/20 15:46	1
4-Bromophenyl phenyl ether	ND		5.2	0.94	ug/L		04/27/20 17:28	04/28/20 15:46	1
4-Chloro-3-methylphenol	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 15:46	1
4-Chloroaniline	ND		10	2.2	ug/L		04/27/20 17:28	04/28/20 15:46	1
4-Chlorophenyl phenyl ether	ND		5.2	0.84	ug/L		04/27/20 17:28	04/28/20 15:46	1
4-Nitroaniline	ND		10	4.1	ug/L		04/27/20 17:28	04/28/20 15:46	1
4-Nitrophenol	ND		21	2.4	ug/L		04/27/20 17:28	04/28/20 15:46	1
Acenaphthene	ND		1.0	0.37	ug/L		04/27/20 17:28	04/28/20 15:46	1
Acenaphthylene	ND		1.0	0.33	ug/L		04/27/20 17:28	04/28/20 15:46	1
Anthracene	ND	*	1.0	0.33	ug/L		04/27/20 17:28	04/28/20 15:46	1
Benzo[a]pyrene	ND		0.21	0.058	ug/L		04/27/20 17:28	04/28/20 15:46	1
Benzo[b]fluoranthene	ND		0.21	0.060	ug/L		04/27/20 17:28	04/28/20 15:46	1
Benzo[g,h,i]perylene	ND		1.0	0.43	ug/L		04/27/20 17:28	04/28/20 15:46	1
Benzo[k]fluoranthene	ND		0.21	0.076	ug/L		04/27/20 17:28	04/28/20 15:46	1
Benzoic acid	ND		21	4.7	ug/L		04/27/20 17:28	04/28/20 15:46	1
Benzyl alcohol	ND		21	3.2	ug/L		04/27/20 17:28	04/28/20 15:46	1
Bis(2-chloroethoxy)methane	ND		2.1	0.31	ug/L		04/27/20 17:28	04/28/20 15:46	1
Bis(2-chloroethyl)ether	ND		2.1	0.36	ug/L		04/27/20 17:28	04/28/20 15:46	1
Bis(2-ethylhexyl) phthalate	ND		10	2.5	ug/L		04/27/20 17:28	04/28/20 15:46	1
Butyl benzyl phthalate	ND		2.1	0.28	ug/L		04/27/20 17:28	04/28/20 15:46	1
Chrysene	ND		0.52	0.14	ug/L		04/27/20 17:28	04/28/20 15:46	1
Dibenz(a,h)anthracene	ND		0.31	0.066	ug/L		04/27/20 17:28	04/28/20 15:46	1
Dibenzofuran	ND		2.1	0.36	ug/L		04/27/20 17:28	04/28/20 15:46	1
Diethyl phthalate	ND		2.1	0.45	ug/L		04/27/20 17:28	04/28/20 15:46	1
Dimethyl phthalate	ND	*	2.1	0.39	ug/L		04/27/20 17:28	04/28/20 15:46	1
Di-n-butyl phthalate	ND	*	5.2	0.83	ug/L		04/27/20 17:28	04/28/20 15:46	1
Di-n-octyl phthalate	ND		10	2.6	ug/L		04/27/20 17:28	04/28/20 15:46	1
2,3,5,6-Tetrachlorophenol	ND		5.2	2.6	ug/L		04/27/20 17:28	04/28/20 15:46	1
Fluoranthene	ND	*	1.0	0.33	ug/L		04/27/20 17:28	04/28/20 15:46	1
Fluorene	ND		1.0	0.39	ug/L		04/27/20 17:28	04/28/20 15:46	1
Hexachlorobenzene	ND	*	0.52	0.14	ug/L		04/27/20 17:28	04/28/20 15:46	1
Hexachlorobutadiene	ND		5.2	1.1	ug/L		04/27/20 17:28	04/28/20 15:46	1
Hexachlorocyclopentadiene	ND		21	3.6	ug/L		04/27/20 17:28	04/28/20 15:46	1
Hexachloroethane	ND		5.2	1.0	ug/L		04/27/20 17:28	04/28/20 15:46	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.087	ug/L		04/27/20 17:28	04/28/20 15:46	1
Isophorone	ND		2.1	0.30	ug/L		04/27/20 17:28	04/28/20 15:46	1
Nitrobenzene	ND		1.0	0.47	ug/L		04/27/20 17:28	04/28/20 15:46	1
N-Nitrosodi-n-propylamine	ND		0.52	0.14	ug/L		04/27/20 17:28	04/28/20 15:46	1
N-Nitrosodiphenylamine	ND		2.1	0.35	ug/L		04/27/20 17:28	04/28/20 15:46	1
Phenol	ND		5.2	0.37	ug/L		04/27/20 17:28	04/28/20 15:46	1
Pyrene	ND		1.0	0.50	ug/L		04/27/20 17:28	04/28/20 15:46	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		04/27/20 17:28	04/28/20 15:46	1
Benzo[a]anthracene	ND		0.21	0.045	ug/L		04/27/20 17:28	04/28/20 15:46	1

Client Sample ID: SUPE-W-12A-042220
Lab Sample ID: 480-169009-4

Date Collected: 04/22/20 09:20
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		1.0	0.36	ug/L		04/27/20 17:28	04/28/20 15:46	1
3,3'-Dichlorobenzidine	ND		5.2	0.97	ug/L		04/27/20 17:28	04/28/20 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*132*		*40 - 145*	*04/27/20 17:28*	*04/28/20 15:46*	*1*
2-Fluorobiphenyl	*91*		*34 - 110*	*04/27/20 17:28*	*04/28/20 15:46*	*1*
2-Fluorophenol (Surr)	*58*		*27 - 110*	*04/27/20 17:28*	*04/28/20 15:46*	*1*
Nitrobenzene-d5 (Surr)	*80*		*36 - 120*	*04/27/20 17:28*	*04/28/20 15:46*	*1*
Phenol-d5 (Surr)	*27*		*20 - 100*	*04/27/20 17:28*	*04/28/20 15:46*	*1*
Terphenyl-d14 (Surr)	*116*		*40 - 145*	*04/27/20 17:28*	*04/28/20 15:46*	*1*

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.11	pg/L		04/28/20 11:57	04/30/20 23:57	1
Total TCDD	ND		10	0.11	pg/L		04/28/20 11:57	04/30/20 23:57	1
1,2,3,7,8-PeCDD	ND		50	0.15	pg/L		04/28/20 11:57	04/30/20 23:57	1
Total PeCDD	ND		50	0.15	pg/L		04/28/20 11:57	04/30/20 23:57	1
1,2,3,4,7,8-HxCDD	ND		50	0.10	pg/L		04/28/20 11:57	04/30/20 23:57	1
1,2,3,6,7,8-HxCDD	ND		50	0.11	pg/L		04/28/20 11:57	04/30/20 23:57	1
1,2,3,7,8,9-HxCDD	**0.43**	**J I B**	50	0.10	pg/L		04/28/20 11:57	04/30/20 23:57	1
Total HxCDD	**3.1**	**J I B**	50	0.11	pg/L		04/28/20 11:57	04/30/20 23:57	1
1,2,3,4,6,7,8-HpCDD	**2.9**	**J B**	50	0.15	pg/L		04/28/20 11:57	04/30/20 23:57	1
Total HpCDD	**5.9**	**J B**	50	0.15	pg/L		04/28/20 11:57	04/30/20 23:57	1
OCDD	**28**	**J B**	100	0.12	pg/L		04/28/20 11:57	04/30/20 23:57	1
2,3,7,8-TCDF	**0.20**	**J I**	10	0.094	pg/L		04/28/20 11:57	04/30/20 23:57	1
Total TCDF	**2.2**	**J I**	10	0.094	pg/L		04/28/20 11:57	04/30/20 23:57	1
1,2,3,7,8-PeCDF	ND		50	0.29	pg/L		04/28/20 11:57	04/30/20 23:57	1
2,3,4,7,8-PeCDF	ND		50	0.24	pg/L		04/28/20 11:57	04/30/20 23:57	1
Total PeCDF	**3.0**	**J I B**	50	0.26	pg/L		04/28/20 11:57	04/30/20 23:57	1
1,2,3,4,7,8-HxCDF	ND		50	0.18	pg/L		04/28/20 11:57	04/30/20 23:57	1
1,2,3,6,7,8-HxCDF	ND		50	0.18	pg/L		04/28/20 11:57	04/30/20 23:57	1
2,3,4,6,7,8-HxCDF	ND		50	0.18	pg/L		04/28/20 11:57	04/30/20 23:57	1
1,2,3,7,8,9-HxCDF	ND		50	0.18	pg/L		04/28/20 11:57	04/30/20 23:57	1
Total HxCDF	**5.3**	**J I B**	50	0.18	pg/L		04/28/20 11:57	04/30/20 23:57	1
1,2,3,4,6,7,8-HpCDF	**1.3**	**J B**	50	0.053	pg/L		04/28/20 11:57	04/30/20 23:57	1
1,2,3,4,7,8,9-HpCDF	**0.49**	**J I B**	50	0.065	pg/L		04/28/20 11:57	04/30/20 23:57	1
Total HpCDF	**4.5**	**J I B**	50	0.059	pg/L		04/28/20 11:57	04/30/20 23:57	1
OCDF	**4.1**	**J B**	100	0.20	pg/L		04/28/20 11:57	04/30/20 23:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*70*		*40 - 135*	*04/28/20 11:57*	*04/30/20 23:57*	*1*
13C-1,2,3,7,8-PeCDD	*75*		*40 - 135*	*04/28/20 11:57*	*04/30/20 23:57*	*1*
13C-1,2,3,4,7,8-HxCDD	*75*		*40 - 135*	*04/28/20 11:57*	*04/30/20 23:57*	*1*
13C-1,2,3,6,7,8-HxCDD	*72*		*40 - 135*	*04/28/20 11:57*	*04/30/20 23:57*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*101*		*40 - 135*	*04/28/20 11:57*	*04/30/20 23:57*	*1*
13C-OCDD	*82*		*40 - 135*	*04/28/20 11:57*	*04/30/20 23:57*	*1*
13C-2,3,7,8-TCDF	*73*		*40 - 135*	*04/28/20 11:57*	*04/30/20 23:57*	*1*
13C-1,2,3,7,8-PeCDF	*74*		*40 - 135*	*04/28/20 11:57*	*04/30/20 23:57*	*1*
13C-2,3,4,7,8-PeCDF	*70*		*40 - 135*	*04/28/20 11:57*	*04/30/20 23:57*	*1*
13C-1,2,3,4,7,8-HxCDF	*78*		*40 - 135*	*04/28/20 11:57*	*04/30/20 23:57*	*1*
13C-1,2,3,6,7,8-HxCDF	*71*		*40 - 135*	*04/28/20 11:57*	*04/30/20 23:57*	*1*

Client Sample ID: SUPE-W-12A-042220
Lab Sample ID: 480-169009-4
Date Collected: 04/22/20 09:20
Matrix: Water
Date Received: 04/24/20 10:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,4,6,7,8-HxCDF	75		40 - 135	04/28/20 11:57	04/30/20 23:57	1
13C-1,2,3,7,8,9-HxCDF	84		40 - 135	04/28/20 11:57	04/30/20 23:57	1
13C-1,2,3,4,6,7,8-HpCDF	84		40 - 135	04/28/20 11:57	04/30/20 23:57	1
13C-1,2,3,4,7,8,9-HpCDF	102		40 - 135	04/28/20 11:57	04/30/20 23:57	1
13C-OCDF	86		40 - 135	04/28/20 11:57	04/30/20 23:57	1

Client Sample ID: SUPE-W-18D-042220
Lab Sample ID: 480-169009-5
Date Collected: 04/22/20 11:12
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.43	J	1.0	0.34	ug/L		04/29/20 15:30	04/30/20 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	113		24 - 146	04/29/20 15:30	04/30/20 17:42	1
2-Fluorobiphenyl	104		37 - 120	04/29/20 15:30	04/30/20 17:42	1
2-Fluorophenol (Surr)	55		10 - 120	04/29/20 15:30	04/30/20 17:42	1
Nitrobenzene-d5 (Surr)	88		26 - 120	04/29/20 15:30	04/30/20 17:42	1
Phenol-d5 (Surr)	36		11 - 120	04/29/20 15:30	04/30/20 17:42	1
p-Terphenyl-d14	102		64 - 127	04/29/20 15:30	04/30/20 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.31	ug/L		04/27/20 17:28	04/28/20 19:55	1
1,2-Dichlorobenzene	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 19:55	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		04/27/20 17:28	04/28/20 19:55	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 19:55	1
1-Methylnaphthalene	ND		2.0	0.51	ug/L		04/27/20 17:28	04/28/20 19:55	1
bis(chloroisopropyl) ether	ND		2.0	0.31	ug/L		04/27/20 17:28	04/28/20 19:55	1
2,3,4,6-Tetrachlorophenol	ND		5.1	1.5	ug/L		04/27/20 17:28	04/28/20 19:55	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 19:55	1
2,4,6-Trichlorophenol	ND		5.1	1.1	ug/L		04/27/20 17:28	04/28/20 19:55	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 19:55	1
2,4-Dinitrophenol	ND		20	7.6	ug/L		04/27/20 17:28	04/28/20 19:55	1
2,4-Dinitrotoluene	ND		1.0	0.31	ug/L		04/27/20 17:28	04/28/20 19:55	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		04/27/20 17:28	04/28/20 19:55	1
3 & 4 Methylphenol	ND		2.0	0.45	ug/L		04/27/20 17:28	04/28/20 19:55	1
2-Chloronaphthalene	ND		2.0	0.35	ug/L		04/27/20 17:28	04/28/20 19:55	1
2-Chlorophenol	ND		5.1	0.81	ug/L		04/27/20 17:28	04/28/20 19:55	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		04/27/20 17:28	04/28/20 19:55	1
2-Methylphenol	ND		2.0	0.32	ug/L		04/27/20 17:28	04/28/20 19:55	1
2-Nitroaniline	ND		5.1	1.1	ug/L		04/27/20 17:28	04/28/20 19:55	1
2-Nitrophenol	ND		10	2.2	ug/L		04/27/20 17:28	04/28/20 19:55	1
3-Nitroaniline	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 19:55	1
4,6-Dinitro-2-methylphenol	ND		20	5.0	ug/L		04/27/20 17:28	04/28/20 19:55	1
4-Bromophenyl phenyl ether	ND		5.1	0.93	ug/L		04/27/20 17:28	04/28/20 19:55	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		04/27/20 17:28	04/28/20 19:55	1
4-Chloroaniline	ND		10	2.1	ug/L		04/27/20 17:28	04/28/20 19:55	1
4-Chlorophenyl phenyl ether	ND		5.1	0.82	ug/L		04/27/20 17:28	04/28/20 19:55	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-W-18D-042220
Date Collected: 04/22/20 11:12
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		10	4.0	ug/L		04/27/20 17:28	04/28/20 19:55	1
4-Nitrophenol	ND		20	2.4	ug/L		04/27/20 17:28	04/28/20 19:55	1
Acenaphthene	ND		1.0	0.37	ug/L		04/27/20 17:28	04/28/20 19:55	1
Acenaphthylene	ND		1.0	0.33	ug/L		04/27/20 17:28	04/28/20 19:55	1
Anthracene	ND	*	1.0	0.33	ug/L		04/27/20 17:28	04/28/20 19:55	1
Benzo[a]pyrene	ND		0.20	0.057	ug/L		04/27/20 17:28	04/28/20 19:55	1
Benzo[b]fluoranthene	ND		0.20	0.059	ug/L		04/27/20 17:28	04/28/20 19:55	1
Benzo[g,h,i]perylene	ND		1.0	0.43	ug/L		04/27/20 17:28	04/28/20 19:55	1
Benzo[k]fluoranthene	ND		0.20	0.075	ug/L		04/27/20 17:28	04/28/20 19:55	1
Benzoic acid	ND		20	4.6	ug/L		04/27/20 17:28	04/28/20 19:55	1
Benzyl alcohol	ND		20	3.1	ug/L		04/27/20 17:28	04/28/20 19:55	1
Bis(2-chloroethoxy)methane	ND		2.0	0.31	ug/L		04/27/20 17:28	04/28/20 19:55	1
Bis(2-chloroethyl)ether	ND		2.0	0.36	ug/L		04/27/20 17:28	04/28/20 19:55	1
Bis(2-ethylhexyl) phthalate	ND		10	2.5	ug/L		04/27/20 17:28	04/28/20 19:55	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 19:55	1
Chrysene	ND		0.51	0.14	ug/L		04/27/20 17:28	04/28/20 19:55	1
Dibenz(a,h)anthracene	ND		0.31	0.065	ug/L		04/27/20 17:28	04/28/20 19:55	1
Dibenzofuran	ND		2.0	0.36	ug/L		04/27/20 17:28	04/28/20 19:55	1
Diethyl phthalate	ND		2.0	0.45	ug/L		04/27/20 17:28	04/28/20 19:55	1
Dimethyl phthalate	ND	*	2.0	0.39	ug/L		04/27/20 17:28	04/28/20 19:55	1
Di-n-butyl phthalate	ND	*	5.1	0.81	ug/L		04/27/20 17:28	04/28/20 19:55	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		04/27/20 17:28	04/28/20 19:55	1
2,3,5,6-Tetrachlorophenol	ND		5.1	2.5	ug/L		04/27/20 17:28	04/28/20 19:55	1
Fluoranthene	ND	*	1.0	0.33	ug/L		04/27/20 17:28	04/28/20 19:55	1
Fluorene	ND		1.0	0.39	ug/L		04/27/20 17:28	04/28/20 19:55	1
Hexachlorobenzene	ND	*	0.51	0.14	ug/L		04/27/20 17:28	04/28/20 19:55	1
Hexachlorobutadiene	ND		5.1	1.1	ug/L		04/27/20 17:28	04/28/20 19:55	1
Hexachlorocyclopentadiene	ND		20	3.5	ug/L		04/27/20 17:28	04/28/20 19:55	1
Hexachloroethane	ND		5.1	0.99	ug/L		04/27/20 17:28	04/28/20 19:55	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.086	ug/L		04/27/20 17:28	04/28/20 19:55	1
Isophorone	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 19:55	1
Naphthalene	ND		1.0	0.31	ug/L		04/27/20 17:28	04/28/20 19:55	1
Nitrobenzene	ND		1.0	0.46	ug/L		04/27/20 17:28	04/28/20 19:55	1
N-Nitrosodi-n-propylamine	ND		0.51	0.14	ug/L		04/27/20 17:28	04/28/20 19:55	1
N-Nitrosodiphenylamine	ND		2.0	0.35	ug/L		04/27/20 17:28	04/28/20 19:55	1
Phenol	ND		5.1	0.37	ug/L		04/27/20 17:28	04/28/20 19:55	1
Pyrene	ND		1.0	0.49	ug/L		04/27/20 17:28	04/28/20 19:55	1
2,4-Dimethylphenol	ND		10	3.4	ug/L		04/27/20 17:28	04/28/20 19:55	1
Benzo[a]anthracene	ND		0.20	0.045	ug/L		04/27/20 17:28	04/28/20 19:55	1
Phenanthrene	ND		1.0	0.36	ug/L		04/27/20 17:28	04/28/20 19:55	1
3,3'-Dichlorobenzidine	ND		5.1	0.96	ug/L		04/27/20 17:28	04/28/20 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*139*		*40 - 145*	*04/27/20 17:28*	*04/28/20 19:55*	*1*
2-Fluorobiphenyl	*96*		*34 - 110*	*04/27/20 17:28*	*04/28/20 19:55*	*1*
2-Fluorophenol (Surr)	*62*		*27 - 110*	*04/27/20 17:28*	*04/28/20 19:55*	*1*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*	*04/27/20 17:28*	*04/28/20 19:55*	*1*
Phenol-d5 (Surr)	*30*		*20 - 100*	*04/27/20 17:28*	*04/28/20 19:55*	*1*
Terphenyl-d14 (Surr)	*113*		*40 - 145*	*04/27/20 17:28*	*04/28/20 19:55*	*1*

Client Sample ID: SUPE-W-04AR2-042220
Lab Sample ID: 480-169009-6

Date Collected: 04/22/20 12:25
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/20 01:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/26/20 01:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/26/20 01:41	1
Benzene	ND		1.0	0.41	ug/L			04/26/20 01:41	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/20 01:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/20 01:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/20 01:41	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/26/20 01:41	1
Naphthalene	ND		1.0	0.43	ug/L			04/26/20 01:41	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/26/20 01:41	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/26/20 01:41	1
o-Xylene	ND		1.0	0.76	ug/L			04/26/20 01:41	1
Styrene	ND		1.0	0.73	ug/L			04/26/20 01:41	1
Toluene	ND		1.0	0.51	ug/L			04/26/20 01:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/26/20 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/26/20 01:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/26/20 01:41*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*04/26/20 01:41*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/26/20 01:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		5.0	1.7	ug/L		04/29/20 15:30	04/30/20 18:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*24 - 146*	*04/29/20 15:30*	*04/30/20 18:11*	*5*
2-Fluorobiphenyl	*106*		*37 - 120*	*04/29/20 15:30*	*04/30/20 18:11*	*5*
2-Fluorophenol (Surr)	*51*		*10 - 120*	*04/29/20 15:30*	*04/30/20 18:11*	*5*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*04/29/20 15:30*	*04/30/20 18:11*	*5*
Phenol-d5 (Surr)	*34*		*11 - 120*	*04/29/20 15:30*	*04/30/20 18:11*	*5*
p-Terphenyl-d14	*81*		*64 - 127*	*04/29/20 15:30*	*04/30/20 18:11*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 20:23	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 20:23	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		04/27/20 17:28	04/28/20 20:23	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 20:23	1
1-Methylnaphthalene	ND		2.0	0.50	ug/L		04/27/20 17:28	04/28/20 20:23	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 20:23	1
2,3,4,6-Tetrachlorophenol	ND		5.0	1.5	ug/L		04/27/20 17:28	04/28/20 20:23	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 20:23	1
2,4,6-Trichlorophenol	ND		5.0	1.1	ug/L		04/27/20 17:28	04/28/20 20:23	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 20:23	1
2,4-Dinitrophenol	ND		20	7.4	ug/L		04/27/20 17:28	04/28/20 20:23	1
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		04/27/20 17:28	04/28/20 20:23	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		04/27/20 17:28	04/28/20 20:23	1
3 & 4 Methylphenol	ND		2.0	0.44	ug/L		04/27/20 17:28	04/28/20 20:23	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-W-04AR2-042220
Date Collected: 04/22/20 12:25
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		2.0	0.34	ug/L		04/27/20 17:28	04/28/20 20:23	1
2-Chlorophenol	ND		5.0	0.80	ug/L		04/27/20 17:28	04/28/20 20:23	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		04/27/20 17:28	04/28/20 20:23	1
2-Methylphenol	ND		2.0	0.31	ug/L		04/27/20 17:28	04/28/20 20:23	1
2-Nitroaniline	ND		5.0	1.1	ug/L		04/27/20 17:28	04/28/20 20:23	1
2-Nitrophenol	ND		10	2.1	ug/L		04/27/20 17:28	04/28/20 20:23	1
3-Nitroaniline	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 20:23	1
4,6-Dinitro-2-methylphenol	ND		20	4.9	ug/L		04/27/20 17:28	04/28/20 20:23	1
4-Bromophenyl phenyl ether	ND		5.0	0.91	ug/L		04/27/20 17:28	04/28/20 20:23	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		04/27/20 17:28	04/28/20 20:23	1
4-Chloroaniline	ND		10	2.1	ug/L		04/27/20 17:28	04/28/20 20:23	1
4-Chlorophenyl phenyl ether	ND		5.0	0.81	ug/L		04/27/20 17:28	04/28/20 20:23	1
4-Nitroaniline	ND		10	3.9	ug/L		04/27/20 17:28	04/28/20 20:23	1
4-Nitrophenol	ND		20	2.3	ug/L		04/27/20 17:28	04/28/20 20:23	1
Acenaphthene	**0.38**	**J**	1.0	0.36	ug/L		04/27/20 17:28	04/28/20 20:23	1
Acenaphthylene	ND		1.0	0.32	ug/L		04/27/20 17:28	04/28/20 20:23	1
Anthracene	**3.5**	*****	1.0	0.32	ug/L		04/27/20 17:28	04/28/20 20:23	1
Benzo[a]pyrene	**0.67**		0.20	0.056	ug/L		04/27/20 17:28	04/28/20 20:23	1
Benzo[b]fluoranthene	**1.3**		0.20	0.058	ug/L		04/27/20 17:28	04/28/20 20:23	1
Benzo[g,h,i]perylene	ND		1.0	0.42	ug/L		04/27/20 17:28	04/28/20 20:23	1
Benzo[k]fluoranthene	**0.49**		0.20	0.074	ug/L		04/27/20 17:28	04/28/20 20:23	1
Benzoic acid	ND		20	4.5	ug/L		04/27/20 17:28	04/28/20 20:23	1
Benzyl alcohol	ND		20	3.0	ug/L		04/27/20 17:28	04/28/20 20:23	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 20:23	1
Bis(2-chloroethyl)ether	ND		2.0	0.35	ug/L		04/27/20 17:28	04/28/20 20:23	1
Bis(2-ethylhexyl) phthalate	ND		10	2.4	ug/L		04/27/20 17:28	04/28/20 20:23	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 20:23	1
Chrysene	**1.6**		0.50	0.14	ug/L		04/27/20 17:28	04/28/20 20:23	1
Dibenz(a,h)anthracene	ND		0.30	0.064	ug/L		04/27/20 17:28	04/28/20 20:23	1
Dibenzofuran	**0.44**	**J**	2.0	0.35	ug/L		04/27/20 17:28	04/28/20 20:23	1
Diethyl phthalate	ND		2.0	0.44	ug/L		04/27/20 17:28	04/28/20 20:23	1
Dimethyl phthalate	ND	*	2.0	0.38	ug/L		04/27/20 17:28	04/28/20 20:23	1
Di-n-butyl phthalate	ND	*	5.0	0.80	ug/L		04/27/20 17:28	04/28/20 20:23	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		04/27/20 17:28	04/28/20 20:23	1
2,3,5,6-Tetrachlorophenol	ND		5.0	2.5	ug/L		04/27/20 17:28	04/28/20 20:23	1
Fluoranthene	**4.4**	*****	1.0	0.32	ug/L		04/27/20 17:28	04/28/20 20:23	1
Fluorene	**0.76**	**J**	1.0	0.38	ug/L		04/27/20 17:28	04/28/20 20:23	1
Hexachlorobenzene	ND	*	0.50	0.14	ug/L		04/27/20 17:28	04/28/20 20:23	1
Hexachlorobutadiene	ND		5.0	1.1	ug/L		04/27/20 17:28	04/28/20 20:23	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		04/27/20 17:28	04/28/20 20:23	1
Hexachloroethane	ND		5.0	0.97	ug/L		04/27/20 17:28	04/28/20 20:23	1
Indeno[1,2,3-cd]pyrene	**0.37**		0.20	0.084	ug/L		04/27/20 17:28	04/28/20 20:23	1
Isophorone	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 20:23	1
Nitrobenzene	ND		1.0	0.45	ug/L		04/27/20 17:28	04/28/20 20:23	1
N-Nitrosodi-n-propylamine	ND		0.50	0.14	ug/L		04/27/20 17:28	04/28/20 20:23	1
N-Nitrosodiphenylamine	ND		2.0	0.34	ug/L		04/27/20 17:28	04/28/20 20:23	1
Phenol	ND		5.0	0.36	ug/L		04/27/20 17:28	04/28/20 20:23	1
Pyrene	**2.6**		1.0	0.48	ug/L		04/27/20 17:28	04/28/20 20:23	1
2,4-Dimethylphenol	ND		10	3.3	ug/L		04/27/20 17:28	04/28/20 20:23	1

Client Sample ID: SUPE-W-04AR2-042220

Date Collected: 04/22/20 12:25
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.85**		0.20	0.044	ug/L		04/27/20 17:28	04/28/20 20:23	1
Phenanthrene	**2.3**		1.0	0.35	ug/L		04/27/20 17:28	04/28/20 20:23	1
3,3'-Dichlorobenzidine	ND		5.0	0.94	ug/L		04/27/20 17:28	04/28/20 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*132*		*40 - 145*	*04/27/20 17:28*	*04/28/20 20:23*	*1*
2-Fluorobiphenyl	*93*		*34 - 110*	*04/27/20 17:28*	*04/28/20 20:23*	*1*
2-Fluorophenol (Surr)	*51*		*27 - 110*	*04/27/20 17:28*	*04/28/20 20:23*	*1*
Nitrobenzene-d5 (Surr)	*85*		*36 - 120*	*04/27/20 17:28*	*04/28/20 20:23*	*1*
Phenol-d5 (Surr)	*24*		*20 - 100*	*04/27/20 17:28*	*04/28/20 20:23*	*1*
Terphenyl-d14 (Surr)	*102*		*40 - 145*	*04/27/20 17:28*	*04/28/20 20:23*	*1*

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.26	pg/L		04/28/20 11:57	05/01/20 00:58	1
Total TCDD	**0.60**	**J I**	10	0.26	pg/L		04/28/20 11:57	05/01/20 00:58	1
1,2,3,7,8-PeCDD	ND		50	0.39	pg/L		04/28/20 11:57	05/01/20 00:58	1
Total PeCDD	ND		50	0.39	pg/L		04/28/20 11:57	05/01/20 00:58	1
1,2,3,4,7,8-HxCDD	**0.62**	**J I**	50	0.25	pg/L		04/28/20 11:57	05/01/20 00:58	1
1,2,3,6,7,8-HxCDD	**2.3**	**J B**	50	0.25	pg/L		04/28/20 11:57	05/01/20 00:58	1
1,2,3,7,8,9-HxCDD	**1.8**	**J B**	50	0.23	pg/L		04/28/20 11:57	05/01/20 00:58	1
Total HxCDD	**26**	**J I B**	50	0.24	pg/L		04/28/20 11:57	05/01/20 00:58	1
1,2,3,4,6,7,8-HpCDD	**60**	**B**	50	0.79	pg/L		04/28/20 11:57	05/01/20 00:58	1
Total HpCDD	**280**	**B**	50	0.79	pg/L		04/28/20 11:57	05/01/20 00:58	1
OCDD	**670**	**B**	100	0.17	pg/L		04/28/20 11:57	05/01/20 00:58	1
2,3,7,8-TCDF	**0.37**	**J**	10	0.13	pg/L		04/28/20 11:57	05/01/20 00:58	1
Total TCDF	**2.7**	**J I**	10	0.13	pg/L		04/28/20 11:57	05/01/20 00:58	1
1,2,3,7,8-PeCDF	ND		50	0.45	pg/L		04/28/20 11:57	05/01/20 00:58	1
2,3,4,7,8-PeCDF	ND		50	0.47	pg/L		04/28/20 11:57	05/01/20 00:58	1
Total PeCDF	**6.2**	**J I B**	50	0.46	pg/L		04/28/20 11:57	05/01/20 00:58	1
1,2,3,4,7,8-HxCDF	**0.92**	**J B**	50	0.21	pg/L		04/28/20 11:57	05/01/20 00:58	1
1,2,3,6,7,8-HxCDF	**0.52**	**J B**	50	0.22	pg/L		04/28/20 11:57	05/01/20 00:58	1
2,3,4,6,7,8-HxCDF	**0.46**	**J I B**	50	0.21	pg/L		04/28/20 11:57	05/01/20 00:58	1
1,2,3,7,8,9-HxCDF	ND		50	0.22	pg/L		04/28/20 11:57	05/01/20 00:58	1
Total HxCDF	**30**	**J I B**	50	0.21	pg/L		04/28/20 11:57	05/01/20 00:58	1
1,2,3,4,6,7,8-HpCDF	**9.2**	**J B**	50	0.16	pg/L		04/28/20 11:57	05/01/20 00:58	1
1,2,3,4,7,8,9-HpCDF	**0.92**	**J B**	50	0.21	pg/L		04/28/20 11:57	05/01/20 00:58	1
Total HpCDF	**34**	**J B**	50	0.19	pg/L		04/28/20 11:57	05/01/20 00:58	1
OCDF	**29**	**J B**	100	0.18	pg/L		04/28/20 11:57	05/01/20 00:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*71*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-1,2,3,7,8-PeCDD	*74*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-1,2,3,4,7,8-HxCDD	*75*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-1,2,3,6,7,8-HxCDD	*71*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*94*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-OCDD	*79*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-2,3,7,8-TCDF	*74*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-2,3,4,7,8-PeCDF	*70*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-1,2,3,4,7,8-HxCDF	*80*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*

Client Sample ID: SUPE-W-04AR2-042220
Lab Sample ID: 480-169009-6
Date Collected: 04/22/20 12:25
Matrix: Water
Date Received: 04/24/20 10:00

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

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDF	*71*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-2,3,4,6,7,8-HxCDF	*78*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-1,2,3,7,8,9-HxCDF	*84*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*83*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*99*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*
13C-OCDF	*81*		*40 - 135*	*04/28/20 11:57*	*05/01/20 00:58*	*1*

Client Sample ID: SUPE-EB-01-042220
Lab Sample ID: 480-169009-7
Date Collected: 04/22/20 13:10
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/20 02:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/26/20 02:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/26/20 02:04	1
Benzene	ND		1.0	0.41	ug/L			04/26/20 02:04	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/20 02:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/20 02:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/20 02:04	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/26/20 02:04	1
Naphthalene	ND		1.0	0.43	ug/L			04/26/20 02:04	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/26/20 02:04	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/26/20 02:04	1
o-Xylene	ND		1.0	0.76	ug/L			04/26/20 02:04	1
Styrene	ND		1.0	0.73	ug/L			04/26/20 02:04	1
Toluene	ND		1.0	0.51	ug/L			04/26/20 02:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/26/20 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*04/26/20 02:04*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/26/20 02:04*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*04/26/20 02:04*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/26/20 02:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		04/29/20 15:30	04/30/20 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*24 - 146*	*04/29/20 15:30*	*04/30/20 18:40*	*1*
2-Fluorobiphenyl	*98*		*37 - 120*	*04/29/20 15:30*	*04/30/20 18:40*	*1*
2-Fluorophenol (Surr)	*49*		*10 - 120*	*04/29/20 15:30*	*04/30/20 18:40*	*1*
Nitrobenzene-d5 (Surr)	*85*		*26 - 120*	*04/29/20 15:30*	*04/30/20 18:40*	*1*
Phenol-d5 (Surr)	*33*		*11 - 120*	*04/29/20 15:30*	*04/30/20 18:40*	*1*
p-Terphenyl-d14	*110*		*64 - 127*	*04/29/20 15:30*	*04/30/20 18:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 16:14	1
1,2-Dichlorobenzene	ND		2.0	0.28	ug/L		04/27/20 17:28	04/28/20 16:14	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-EB-01-042220
Date Collected: 04/22/20 13:10
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		04/27/20 17:28	04/28/20 16:14	1
1,4-Dichlorobenzene	ND		2.0	0.26	ug/L		04/27/20 17:28	04/28/20 16:14	1
1-Methylnaphthalene	ND		2.0	0.49	ug/L		04/27/20 17:28	04/28/20 16:14	1
bis(chloroisopropyl) ether	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 16:14	1
2,3,4,6-Tetrachlorophenol	ND		4.9	1.5	ug/L		04/27/20 17:28	04/28/20 16:14	1
2,4,5-Trichlorophenol	ND		9.8	2.2	ug/L		04/27/20 17:28	04/28/20 16:14	1
2,4,6-Trichlorophenol	ND		4.9	1.1	ug/L		04/27/20 17:28	04/28/20 16:14	1
2,4-Dichlorophenol	ND		9.8	2.2	ug/L		04/27/20 17:28	04/28/20 16:14	1
2,4-Dinitrophenol	ND		20	7.3	ug/L		04/27/20 17:28	04/28/20 16:14	1
2,4-Dinitrotoluene	ND		0.98	0.29	ug/L		04/27/20 17:28	04/28/20 16:14	1
2,6-Dinitrotoluene	ND		0.98	0.12	ug/L		04/27/20 17:28	04/28/20 16:14	1
3 & 4 Methylphenol	ND		2.0	0.43	ug/L		04/27/20 17:28	04/28/20 16:14	1
2-Chloronaphthalene	ND		2.0	0.33	ug/L		04/27/20 17:28	04/28/20 16:14	1
2-Chlorophenol	ND		4.9	0.78	ug/L		04/27/20 17:28	04/28/20 16:14	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		04/27/20 17:28	04/28/20 16:14	1
2-Methylphenol	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 16:14	1
2-Nitroaniline	ND		4.9	1.1	ug/L		04/27/20 17:28	04/28/20 16:14	1
2-Nitrophenol	ND		9.8	2.1	ug/L		04/27/20 17:28	04/28/20 16:14	1
3-Nitroaniline	ND		9.8	2.2	ug/L		04/27/20 17:28	04/28/20 16:14	1
4,6-Dinitro-2-methylphenol	ND		20	4.8	ug/L		04/27/20 17:28	04/28/20 16:14	1
4-Bromophenyl phenyl ether	ND		4.9	0.89	ug/L		04/27/20 17:28	04/28/20 16:14	1
4-Chloro-3-methylphenol	ND		9.8	2.2	ug/L		04/27/20 17:28	04/28/20 16:14	1
4-Chloroaniline	ND		9.8	2.1	ug/L		04/27/20 17:28	04/28/20 16:14	1
4-Chlorophenyl phenyl ether	ND		4.9	0.79	ug/L		04/27/20 17:28	04/28/20 16:14	1
4-Nitroaniline	ND		9.8	3.9	ug/L		04/27/20 17:28	04/28/20 16:14	1
4-Nitrophenol	ND		20	2.3	ug/L		04/27/20 17:28	04/28/20 16:14	1
Acenaphthene	ND		0.98	0.35	ug/L		04/27/20 17:28	04/28/20 16:14	1
Acenaphthylene	ND		0.98	0.31	ug/L		04/27/20 17:28	04/28/20 16:14	1
Anthracene	ND	*	0.98	0.31	ug/L		04/27/20 17:28	04/28/20 16:14	1
Benzo[a]pyrene	ND		0.20	0.055	ug/L		04/27/20 17:28	04/28/20 16:14	1
Benzo[b]fluoranthene	ND		0.20	0.057	ug/L		04/27/20 17:28	04/28/20 16:14	1
Benzo[g,h,i]perylene	ND		0.98	0.41	ug/L		04/27/20 17:28	04/28/20 16:14	1
Benzo[k]fluoranthene	ND		0.20	0.073	ug/L		04/27/20 17:28	04/28/20 16:14	1
Benzoic acid	ND		20	4.5	ug/L		04/27/20 17:28	04/28/20 16:14	1
Benzyl alcohol	ND		20	3.0	ug/L		04/27/20 17:28	04/28/20 16:14	1
Bis(2-chloroethoxy)methane	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 16:14	1
Bis(2-chloroethyl)ether	ND		2.0	0.34	ug/L		04/27/20 17:28	04/28/20 16:14	1
Bis(2-ethylhexyl) phthalate	ND		9.8	2.4	ug/L		04/27/20 17:28	04/28/20 16:14	1
Butyl benzyl phthalate	ND		2.0	0.26	ug/L		04/27/20 17:28	04/28/20 16:14	1
Chrysene	ND		0.49	0.14	ug/L		04/27/20 17:28	04/28/20 16:14	1
Dibenz(a,h)anthracene	ND		0.29	0.063	ug/L		04/27/20 17:28	04/28/20 16:14	1
Dibenzofuran	ND		2.0	0.34	ug/L		04/27/20 17:28	04/28/20 16:14	1
Diethyl phthalate	ND		2.0	0.43	ug/L		04/27/20 17:28	04/28/20 16:14	1
Dimethyl phthalate	ND	*	2.0	0.37	ug/L		04/27/20 17:28	04/28/20 16:14	1
Di-n-butyl phthalate	ND	*	4.9	0.78	ug/L		04/27/20 17:28	04/28/20 16:14	1
Di-n-octyl phthalate	ND		9.8	2.4	ug/L		04/27/20 17:28	04/28/20 16:14	1
2,3,5,6-Tetrachlorophenol	ND		4.9	2.5	ug/L		04/27/20 17:28	04/28/20 16:14	1
Fluoranthene	ND	*	0.98	0.31	ug/L		04/27/20 17:28	04/28/20 16:14	1
Fluorene	ND		0.98	0.37	ug/L		04/27/20 17:28	04/28/20 16:14	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-EB-01-042220
Date Collected: 04/22/20 13:10
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND	*	0.49	0.14	ug/L		04/27/20 17:28	04/28/20 16:14	1
Hexachlorobutadiene	ND		4.9	1.1	ug/L		04/27/20 17:28	04/28/20 16:14	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		04/27/20 17:28	04/28/20 16:14	1
Hexachloroethane	ND		4.9	0.95	ug/L		04/27/20 17:28	04/28/20 16:14	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.082	ug/L		04/27/20 17:28	04/28/20 16:14	1
Isophorone	ND		2.0	0.28	ug/L		04/27/20 17:28	04/28/20 16:14	1
Nitrobenzene	ND		0.98	0.44	ug/L		04/27/20 17:28	04/28/20 16:14	1
N-Nitrosodi-n-propylamine	ND		0.49	0.14	ug/L		04/27/20 17:28	04/28/20 16:14	1
N-Nitrosodiphenylamine	ND		2.0	0.33	ug/L		04/27/20 17:28	04/28/20 16:14	1
Phenol	ND		4.9	0.35	ug/L		04/27/20 17:28	04/28/20 16:14	1
Pyrene	ND		0.98	0.47	ug/L		04/27/20 17:28	04/28/20 16:14	1
2,4-Dimethylphenol	ND		9.8	3.3	ug/L		04/27/20 17:28	04/28/20 16:14	1
Benzo[a]anthracene	ND		0.20	0.043	ug/L		04/27/20 17:28	04/28/20 16:14	1
Phenanthrene	ND		0.98	0.34	ug/L		04/27/20 17:28	04/28/20 16:14	1
3,3'-Dichlorobenzidine	ND		4.9	0.92	ug/L		04/27/20 17:28	04/28/20 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*135*		*40 - 145*	*04/27/20 17:28*	*04/28/20 16:14*	*1*
2-Fluorobiphenyl	*95*		*34 - 110*	*04/27/20 17:28*	*04/28/20 16:14*	*1*
2-Fluorophenol (Surr)	*55*		*27 - 110*	*04/27/20 17:28*	*04/28/20 16:14*	*1*
Nitrobenzene-d5 (Surr)	*79*		*36 - 120*	*04/27/20 17:28*	*04/28/20 16:14*	*1*
Phenol-d5 (Surr)	*22*		*20 - 100*	*04/27/20 17:28*	*04/28/20 16:14*	*1*
Terphenyl-d14 (Surr)	*115*		*40 - 145*	*04/27/20 17:28*	*04/28/20 16:14*	*1*

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.9	0.17	pg/L		04/28/20 11:57	05/01/20 01:59	1
Total TCDD	ND		9.9	0.17	pg/L		04/28/20 11:57	05/01/20 01:59	1
1,2,3,7,8-PeCDD	ND		50	0.17	pg/L		04/28/20 11:57	05/01/20 01:59	1
Total PeCDD	ND		50	0.17	pg/L		04/28/20 11:57	05/01/20 01:59	1
1,2,3,4,7,8-HxCDD	ND		50	0.080	pg/L		04/28/20 11:57	05/01/20 01:59	1
1,2,3,6,7,8-HxCDD	ND		50	0.089	pg/L		04/28/20 11:57	05/01/20 01:59	1
1,2,3,7,8,9-HxCDD	ND		50	0.078	pg/L		04/28/20 11:57	05/01/20 01:59	1
Total HxCDD	**1.6**	**J I B**	50	0.082	pg/L		04/28/20 11:57	05/01/20 01:59	1
1,2,3,4,6,7,8-HpCDD	**1.1**	**J I B**	50	0.13	pg/L		04/28/20 11:57	05/01/20 01:59	1
Total HpCDD	**4.4**	**J I B**	50	0.13	pg/L		04/28/20 11:57	05/01/20 01:59	1
OCDD	**13**	**J B**	99	0.12	pg/L		04/28/20 11:57	05/01/20 01:59	1
2,3,7,8-TCDF	**0.22**	**J I**	9.9	0.098	pg/L		04/28/20 11:57	05/01/20 01:59	1
Total TCDF	**0.46**	**J I**	9.9	0.098	pg/L		04/28/20 11:57	05/01/20 01:59	1
1,2,3,7,8-PeCDF	ND		50	0.17	pg/L		04/28/20 11:57	05/01/20 01:59	1
2,3,4,7,8-PeCDF	ND		50	0.15	pg/L		04/28/20 11:57	05/01/20 01:59	1
Total PeCDF	ND		50	0.17	pg/L		04/28/20 11:57	05/01/20 01:59	1
1,2,3,4,7,8-HxCDF	ND		50	0.15	pg/L		04/28/20 11:57	05/01/20 01:59	1
1,2,3,6,7,8-HxCDF	ND		50	0.15	pg/L		04/28/20 11:57	05/01/20 01:59	1
2,3,4,6,7,8-HxCDF	ND		50	0.15	pg/L		04/28/20 11:57	05/01/20 01:59	1
1,2,3,7,8,9-HxCDF	ND		50	0.15	pg/L		04/28/20 11:57	05/01/20 01:59	1
Total HxCDF	ND		50	0.15	pg/L		04/28/20 11:57	05/01/20 01:59	1
1,2,3,4,6,7,8-HpCDF	**0.48**	**J I B**	50	0.084	pg/L		04/28/20 11:57	05/01/20 01:59	1
1,2,3,4,7,8,9-HpCDF	ND		50	0.10	pg/L		04/28/20 11:57	05/01/20 01:59	1
Total HpCDF	**0.81**	**J I B**	50	0.094	pg/L		04/28/20 11:57	05/01/20 01:59	1

Client Sample ID: SUPE-EB-01-042220
Lab Sample ID: 480-169009-7

Date Collected: 04/22/20 13:10
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDF	0.95	J I B	99	0.071	pg/L		04/28/20 11:57	05/01/20 01:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*71*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-1,2,3,7,8-PeCDD	*72*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-1,2,3,4,7,8-HxCDD	*73*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-1,2,3,6,7,8-HxCDD	*71*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*95*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-OCDD	*79*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-2,3,7,8-TCDF	*74*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-1,2,3,7,8-PeCDF	*74*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-2,3,4,7,8-PeCDF	*68*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-1,2,3,4,7,8-HxCDF	*76*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-1,2,3,6,7,8-HxCDF	*69*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-2,3,4,6,7,8-HxCDF	*75*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-1,2,3,7,8,9-HxCDF	*82*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*80*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*94*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*
13C-OCDF	*83*		*40 - 135*	*04/28/20 11:57*	*05/01/20 01:59*	*1*

Client Sample ID: SUPE-W-30C-042120
Lab Sample ID: 480-169009-8

Date Collected: 04/21/20 13:45
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/20 02:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/26/20 02:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/26/20 02:27	1
Benzene	ND		1.0	0.41	ug/L			04/26/20 02:27	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/20 02:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/20 02:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/20 02:27	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/26/20 02:27	1
Naphthalene	ND		1.0	0.43	ug/L			04/26/20 02:27	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/26/20 02:27	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/26/20 02:27	1
o-Xylene	ND		1.0	0.76	ug/L			04/26/20 02:27	1
Styrene	ND		1.0	0.73	ug/L			04/26/20 02:27	1
Toluene	ND		1.0	0.51	ug/L			04/26/20 02:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/26/20 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*04/26/20 02:27*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*04/26/20 02:27*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*04/26/20 02:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/26/20 02:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND	H	1.0	0.34	ug/L		04/29/20 15:30	04/30/20 19:09	1

Client Sample ID: SUPE-W-30C-042120

Date Collected: 04/21/20 13:45
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*107*		*24 - 146*	*04/29/20 15:30*	*04/30/20 19:09*	*1*
2-Fluorobiphenyl	*100*		*37 - 120*	*04/29/20 15:30*	*04/30/20 19:09*	*1*
2-Fluorophenol (Surr)	*48*		*10 - 120*	*04/29/20 15:30*	*04/30/20 19:09*	*1*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*04/29/20 15:30*	*04/30/20 19:09*	*1*
Phenol-d5 (Surr)	*32*		*11 - 120*	*04/29/20 15:30*	*04/30/20 19:09*	*1*
p-Terphenyl-d14	*104*		*64 - 127*	*04/29/20 15:30*	*04/30/20 19:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.9	0.29	ug/L		04/27/20 17:28	04/28/20 16:42	1
1,2-Dichlorobenzene	ND		1.9	0.28	ug/L		04/27/20 17:28	04/28/20 16:42	1
1,3-Dichlorobenzene	ND		1.9	0.24	ug/L		04/27/20 17:28	04/28/20 16:42	1
1,4-Dichlorobenzene	ND		1.9	0.26	ug/L		04/27/20 17:28	04/28/20 16:42	1
1-Methylnaphthalene	ND		1.9	0.48	ug/L		04/27/20 17:28	04/28/20 16:42	1
bis(chloroisopropyl) ether	ND		1.9	0.29	ug/L		04/27/20 17:28	04/28/20 16:42	1
2,3,4,6-Tetrachlorophenol	ND		4.8	1.4	ug/L		04/27/20 17:28	04/28/20 16:42	1
2,4,5-Trichlorophenol	ND		9.5	2.2	ug/L		04/27/20 17:28	04/28/20 16:42	1
2,4,6-Trichlorophenol	ND		4.8	1.0	ug/L		04/27/20 17:28	04/28/20 16:42	1
2,4-Dichlorophenol	ND		9.5	2.2	ug/L		04/27/20 17:28	04/28/20 16:42	1
2,4-Dinitrophenol	ND		19	7.1	ug/L		04/27/20 17:28	04/28/20 16:42	1
2,4-Dinitrotoluene	ND		0.95	0.29	ug/L		04/27/20 17:28	04/28/20 16:42	1
2,6-Dinitrotoluene	ND		0.95	0.11	ug/L		04/27/20 17:28	04/28/20 16:42	1
3 & 4 Methylphenol	ND		1.9	0.42	ug/L		04/27/20 17:28	04/28/20 16:42	1
2-Chloronaphthalene	ND		1.9	0.32	ug/L		04/27/20 17:28	04/28/20 16:42	1
2-Chlorophenol	ND		4.8	0.76	ug/L		04/27/20 17:28	04/28/20 16:42	1
2-Methylnaphthalene	ND		1.9	0.12	ug/L		04/27/20 17:28	04/28/20 16:42	1
2-Methylphenol	ND		1.9	0.30	ug/L		04/27/20 17:28	04/28/20 16:42	1
2-Nitroaniline	ND		4.8	1.0	ug/L		04/27/20 17:28	04/28/20 16:42	1
2-Nitrophenol	ND		9.5	2.0	ug/L		04/27/20 17:28	04/28/20 16:42	1
3-Nitroaniline	ND		9.5	2.2	ug/L		04/27/20 17:28	04/28/20 16:42	1
4,6-Dinitro-2-methylphenol	ND		19	4.7	ug/L		04/27/20 17:28	04/28/20 16:42	1
4-Bromophenyl phenyl ether	ND		4.8	0.87	ug/L		04/27/20 17:28	04/28/20 16:42	1
4-Chloro-3-methylphenol	ND		9.5	2.1	ug/L		04/27/20 17:28	04/28/20 16:42	1
4-Chloroaniline	ND		9.5	2.0	ug/L		04/27/20 17:28	04/28/20 16:42	1
4-Chlorophenyl phenyl ether	ND		4.8	0.77	ug/L		04/27/20 17:28	04/28/20 16:42	1
4-Nitroaniline	ND		9.5	3.7	ug/L		04/27/20 17:28	04/28/20 16:42	1
4-Nitrophenol	ND		19	2.2	ug/L		04/27/20 17:28	04/28/20 16:42	1
Acenaphthene	ND		0.95	0.34	ug/L		04/27/20 17:28	04/28/20 16:42	1
Acenaphthylene	ND		0.95	0.30	ug/L		04/27/20 17:28	04/28/20 16:42	1
Anthracene	ND	*	0.95	0.30	ug/L		04/27/20 17:28	04/28/20 16:42	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		04/27/20 17:28	04/28/20 16:42	1
Benzo[b]fluoranthene	ND		0.19	0.055	ug/L		04/27/20 17:28	04/28/20 16:42	1
Benzo[g,h,i]perylene	ND		0.95	0.40	ug/L		04/27/20 17:28	04/28/20 16:42	1
Benzo[k]fluoranthene	ND		0.19	0.070	ug/L		04/27/20 17:28	04/28/20 16:42	1
Benzoic acid	ND		19	4.3	ug/L		04/27/20 17:28	04/28/20 16:42	1
Benzyl alcohol	ND		19	2.9	ug/L		04/27/20 17:28	04/28/20 16:42	1
Bis(2-chloroethoxy)methane	ND		1.9	0.29	ug/L		04/27/20 17:28	04/28/20 16:42	1
Bis(2-chloroethyl)ether	ND		1.9	0.33	ug/L		04/27/20 17:28	04/28/20 16:42	1
Bis(2-ethylhexyl) phthalate	ND		9.5	2.3	ug/L		04/27/20 17:28	04/28/20 16:42	1
Butyl benzyl phthalate	ND		1.9	0.26	ug/L		04/27/20 17:28	04/28/20 16:42	1

Client Sample ID: SUPE-W-30C-042120

Date Collected: 04/21/20 13:45
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.48	0.13	ug/L		04/27/20 17:28	04/28/20 16:42	1
Dibenz(a,h)anthracene	ND		0.29	0.061	ug/L		04/27/20 17:28	04/28/20 16:42	1
Dibenzofuran	ND		1.9	0.33	ug/L		04/27/20 17:28	04/28/20 16:42	1
Diethyl phthalate	ND		1.9	0.42	ug/L		04/27/20 17:28	04/28/20 16:42	1
Dimethyl phthalate	ND	*	1.9	0.36	ug/L		04/27/20 17:28	04/28/20 16:42	1
Di-n-butyl phthalate	ND	*	4.8	0.76	ug/L		04/27/20 17:28	04/28/20 16:42	1
Di-n-octyl phthalate	ND		9.5	2.4	ug/L		04/27/20 17:28	04/28/20 16:42	1
2,3,5,6-Tetrachlorophenol	ND		4.8	2.4	ug/L		04/27/20 17:28	04/28/20 16:42	1
Fluoranthene	ND	*	0.95	0.30	ug/L		04/27/20 17:28	04/28/20 16:42	1
Fluorene	ND		0.95	0.36	ug/L		04/27/20 17:28	04/28/20 16:42	1
Hexachlorobenzene	ND	*	0.48	0.13	ug/L		04/27/20 17:28	04/28/20 16:42	1
Hexachlorobutadiene	ND		4.8	1.1	ug/L		04/27/20 17:28	04/28/20 16:42	1
Hexachlorocyclopentadiene	ND		19	3.3	ug/L		04/27/20 17:28	04/28/20 16:42	1
Hexachloroethane	ND		4.8	0.92	ug/L		04/27/20 17:28	04/28/20 16:42	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.080	ug/L		04/27/20 17:28	04/28/20 16:42	1
Isophorone	ND		1.9	0.28	ug/L		04/27/20 17:28	04/28/20 16:42	1
Nitrobenzene	ND		0.95	0.43	ug/L		04/27/20 17:28	04/28/20 16:42	1
N-Nitrosodi-n-propylamine	ND		0.48	0.13	ug/L		04/27/20 17:28	04/28/20 16:42	1
N-Nitrosodiphenylamine	ND		1.9	0.32	ug/L		04/27/20 17:28	04/28/20 16:42	1
Phenol	ND		4.8	0.34	ug/L		04/27/20 17:28	04/28/20 16:42	1
Pyrene	ND		0.95	0.46	ug/L		04/27/20 17:28	04/28/20 16:42	1
2,4-Dimethylphenol	ND		9.5	3.2	ug/L		04/27/20 17:28	04/28/20 16:42	1
Benzo[a]anthracene	ND		0.19	0.042	ug/L		04/27/20 17:28	04/28/20 16:42	1
Phenanthrene	ND		0.95	0.33	ug/L		04/27/20 17:28	04/28/20 16:42	1
3,3'-Dichlorobenzidine	ND		4.8	0.89	ug/L		04/27/20 17:28	04/28/20 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*137*		*40 - 145*	*04/27/20 17:28*	*04/28/20 16:42*	*1*
2-Fluorobiphenyl	*97*		*34 - 110*	*04/27/20 17:28*	*04/28/20 16:42*	*1*
2-Fluorophenol (Surr)	*55*		*27 - 110*	*04/27/20 17:28*	*04/28/20 16:42*	*1*
Nitrobenzene-d5 (Surr)	*82*		*36 - 120*	*04/27/20 17:28*	*04/28/20 16:42*	*1*
Phenol-d5 (Surr)	*23*		*20 - 100*	*04/27/20 17:28*	*04/28/20 16:42*	*1*
Terphenyl-d14 (Surr)	*117*		*40 - 145*	*04/27/20 17:28*	*04/28/20 16:42*	*1*

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.8	0.18	pg/L		04/28/20 11:57	05/01/20 03:00	1
Total TCDD	**0.58**	**J I**	9.8	0.18	pg/L		04/28/20 11:57	05/01/20 03:00	1
1,2,3,7,8-PeCDD	ND		49	0.34	pg/L		04/28/20 11:57	05/01/20 03:00	1
Total PeCDD	ND		49	0.34	pg/L		04/28/20 11:57	05/01/20 03:00	1
1,2,3,4,7,8-HxCDD	ND		49	0.16	pg/L		04/28/20 11:57	05/01/20 03:00	1
1,2,3,6,7,8-HxCDD	**0.45**	**J I B**	49	0.17	pg/L		04/28/20 11:57	05/01/20 03:00	1
1,2,3,7,8,9-HxCDD	**0.53**	**J I B**	49	0.15	pg/L		04/28/20 11:57	05/01/20 03:00	1
Total HxCDD	**2.0**	**J I B**	49	0.16	pg/L		04/28/20 11:57	05/01/20 03:00	1
1,2,3,4,6,7,8-HpCDD	**5.2**	**J B**	49	0.23	pg/L		04/28/20 11:57	05/01/20 03:00	1
Total HpCDD	**9.1**	**J B**	49	0.23	pg/L		04/28/20 11:57	05/01/20 03:00	1
OCDD	**38**	**J B**	98	0.27	pg/L		04/28/20 11:57	05/01/20 03:00	1
2,3,7,8-TCDF	ND		9.8	0.14	pg/L		04/28/20 11:57	05/01/20 03:00	1
Total TCDF	**2.4**	**J I**	9.8	0.14	pg/L		04/28/20 11:57	05/01/20 03:00	1
1,2,3,7,8-PeCDF	ND		49	0.33	pg/L		04/28/20 11:57	05/01/20 03:00	1

Client Sample ID: SUPE-W-30C-042120

Lab Sample ID: 480-169009-8

Date Collected: 04/21/20 13:45

Matrix: Water

Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,7,8-PeCDF	ND		49	0.30	pg/L		04/28/20 11:57	05/01/20 03:00	1
Total PeCDF	ND		49	0.33	pg/L		04/28/20 11:57	05/01/20 03:00	1
1,2,3,4,7,8-HxCDF	ND		49	0.30	pg/L		04/28/20 11:57	05/01/20 03:00	1
1,2,3,6,7,8-HxCDF	ND		49	0.32	pg/L		04/28/20 11:57	05/01/20 03:00	1
2,3,4,6,7,8-HxCDF	ND		49	0.30	pg/L		04/28/20 11:57	05/01/20 03:00	1
1,2,3,7,8,9-HxCDF	ND		49	0.30	pg/L		04/28/20 11:57	05/01/20 03:00	1
Total HxCDF	**2.6**	**J I B**	49	0.30	pg/L		04/28/20 11:57	05/01/20 03:00	1
1,2,3,4,6,7,8-HpCDF	**1.4**	**J I B**	49	0.16	pg/L		04/28/20 11:57	05/01/20 03:00	1
1,2,3,4,7,8,9-HpCDF	**0.54**	**J B**	49	0.19	pg/L		04/28/20 11:57	05/01/20 03:00	1
Total HpCDF	**5.2**	**J I B**	49	0.17	pg/L		04/28/20 11:57	05/01/20 03:00	1
OCDF	**3.7**	**J B**	98	0.22	pg/L		04/28/20 11:57	05/01/20 03:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*69*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-1,2,3,7,8-PeCDD	*69*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-1,2,3,4,7,8-HxCDD	*69*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-1,2,3,6,7,8-HxCDD	*69*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*92*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-OCDD	*77*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-2,3,7,8-TCDF	*71*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-1,2,3,7,8-PeCDF	*71*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-2,3,4,7,8-PeCDF	*66*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-1,2,3,4,7,8-HxCDF	*73*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-1,2,3,6,7,8-HxCDF	*65*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-2,3,4,6,7,8-HxCDF	*72*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-1,2,3,7,8,9-HxCDF	*80*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*78*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*92*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*
13C-OCDF	*78*		*40 - 135*	*04/28/20 11:57*	*05/01/20 03:00*	*1*

Client Sample ID: SUPE-W-12CR-042220

Lab Sample ID: 480-169009-9

Date Collected: 04/22/20 13:52

Matrix: Water

Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/20 02:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/26/20 02:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/26/20 02:50	1
Benzene	ND		1.0	0.41	ug/L			04/26/20 02:50	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/20 02:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/20 02:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/20 02:50	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/26/20 02:50	1
Naphthalene	ND		1.0	0.43	ug/L			04/26/20 02:50	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/26/20 02:50	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/26/20 02:50	1
o-Xylene	ND		1.0	0.76	ug/L			04/26/20 02:50	1
Styrene	ND		1.0	0.73	ug/L			04/26/20 02:50	1
Toluene	ND		1.0	0.51	ug/L			04/26/20 02:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/26/20 02:50	1

Client Sample ID: SUPE-W-12CR-042220

Date Collected: 04/22/20 13:52
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-9

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*04/26/20 02:50*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*04/26/20 02:50*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*04/26/20 02:50*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/26/20 02:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**0.41**	**J**	1.0	0.34	ug/L		04/29/20 15:30	04/30/20 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*105*		*24 - 146*	*04/29/20 15:30*	*04/30/20 19:37*	*1*
2-Fluorobiphenyl	*97*		*37 - 120*	*04/29/20 15:30*	*04/30/20 19:37*	*1*
2-Fluorophenol (Surr)	*51*		*10 - 120*	*04/29/20 15:30*	*04/30/20 19:37*	*1*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*04/29/20 15:30*	*04/30/20 19:37*	*1*
Phenol-d5 (Surr)	*33*		*11 - 120*	*04/29/20 15:30*	*04/30/20 19:37*	*1*
p-Terphenyl-d14	*111*		*64 - 127*	*04/29/20 15:30*	*04/30/20 19:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 18:04	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 18:04	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		04/27/20 17:28	04/28/20 18:04	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 18:04	1
1-Methylnaphthalene	ND		2.0	0.49	ug/L		04/27/20 17:28	04/28/20 18:04	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 18:04	1
2,3,4,6-Tetrachlorophenol	**1.6**	**J**	4.9	1.5	ug/L		04/27/20 17:28	04/28/20 18:04	1
2,4,5-Trichlorophenol	ND		9.8	2.3	ug/L		04/27/20 17:28	04/28/20 18:04	1
2,4,6-Trichlorophenol	**2.0**	**J**	4.9	1.1	ug/L		04/27/20 17:28	04/28/20 18:04	1
2,4-Dichlorophenol	ND		9.8	2.2	ug/L		04/27/20 17:28	04/28/20 18:04	1
2,4-Dinitrophenol	ND		20	7.3	ug/L		04/27/20 17:28	04/28/20 18:04	1
2,4-Dinitrotoluene	ND		0.98	0.30	ug/L		04/27/20 17:28	04/28/20 18:04	1
2,6-Dinitrotoluene	ND		0.98	0.12	ug/L		04/27/20 17:28	04/28/20 18:04	1
3 & 4 Methylphenol	ND		2.0	0.43	ug/L		04/27/20 17:28	04/28/20 18:04	1
2-Chloronaphthalene	ND		2.0	0.33	ug/L		04/27/20 17:28	04/28/20 18:04	1
2-Chlorophenol	ND		4.9	0.79	ug/L		04/27/20 17:28	04/28/20 18:04	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		04/27/20 17:28	04/28/20 18:04	1
2-Methylphenol	ND		2.0	0.31	ug/L		04/27/20 17:28	04/28/20 18:04	1
2-Nitroaniline	ND		4.9	1.1	ug/L		04/27/20 17:28	04/28/20 18:04	1
2-Nitrophenol	ND		9.8	2.1	ug/L		04/27/20 17:28	04/28/20 18:04	1
3-Nitroaniline	ND		9.8	2.3	ug/L		04/27/20 17:28	04/28/20 18:04	1
4,6-Dinitro-2-methylphenol	ND		20	4.8	ug/L		04/27/20 17:28	04/28/20 18:04	1
4-Bromophenyl phenyl ether	ND		4.9	0.90	ug/L		04/27/20 17:28	04/28/20 18:04	1
4-Chloro-3-methylphenol	ND		9.8	2.2	ug/L		04/27/20 17:28	04/28/20 18:04	1
4-Chloroaniline	ND		9.8	2.1	ug/L		04/27/20 17:28	04/28/20 18:04	1
4-Chlorophenyl phenyl ether	ND		4.9	0.80	ug/L		04/27/20 17:28	04/28/20 18:04	1
4-Nitroaniline	ND		9.8	3.9	ug/L		04/27/20 17:28	04/28/20 18:04	1
4-Nitrophenol	ND		20	2.3	ug/L		04/27/20 17:28	04/28/20 18:04	1
Acenaphthene	ND		0.98	0.35	ug/L		04/27/20 17:28	04/28/20 18:04	1
Acenaphthylene	ND		0.98	0.31	ug/L		04/27/20 17:28	04/28/20 18:04	1
Anthracene	ND	*	0.98	0.31	ug/L		04/27/20 17:28	04/28/20 18:04	1
Benzo[a]pyrene	ND		0.20	0.055	ug/L		04/27/20 17:28	04/28/20 18:04	1

Client Sample ID: SUPE-W-12CR-042220
Date Collected: 04/22/20 13:52
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		0.20	0.057	ug/L		04/27/20 17:28	04/28/20 18:04	1
Benzo[g,h,i]perylene	ND		0.98	0.41	ug/L		04/27/20 17:28	04/28/20 18:04	1
Benzo[k]fluoranthene	ND		0.20	0.073	ug/L		04/27/20 17:28	04/28/20 18:04	1
Benzoic acid	ND		20	4.5	ug/L		04/27/20 17:28	04/28/20 18:04	1
Benzyl alcohol	ND		20	3.0	ug/L		04/27/20 17:28	04/28/20 18:04	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 18:04	1
Bis(2-chloroethyl)ether	ND		2.0	0.34	ug/L		04/27/20 17:28	04/28/20 18:04	1
Bis(2-ethylhexyl) phthalate	ND		9.8	2.4	ug/L		04/27/20 17:28	04/28/20 18:04	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 18:04	1
Chrysene	ND		0.49	0.14	ug/L		04/27/20 17:28	04/28/20 18:04	1
Dibenz(a,h)anthracene	ND		0.30	0.063	ug/L		04/27/20 17:28	04/28/20 18:04	1
Dibenzofuran	ND		2.0	0.34	ug/L		04/27/20 17:28	04/28/20 18:04	1
Diethyl phthalate	ND		2.0	0.43	ug/L		04/27/20 17:28	04/28/20 18:04	1
Dimethyl phthalate	ND	*	2.0	0.37	ug/L		04/27/20 17:28	04/28/20 18:04	1
Di-n-butyl phthalate	ND	*	4.9	0.79	ug/L		04/27/20 17:28	04/28/20 18:04	1
Di-n-octyl phthalate	ND		9.8	2.4	ug/L		04/27/20 17:28	04/28/20 18:04	1
2,3,5,6-Tetrachlorophenol	ND		4.9	2.5	ug/L		04/27/20 17:28	04/28/20 18:04	1
Fluoranthene	ND	*	0.98	0.31	ug/L		04/27/20 17:28	04/28/20 18:04	1
Fluorene	ND		0.98	0.37	ug/L		04/27/20 17:28	04/28/20 18:04	1
Hexachlorobenzene	ND	*	0.49	0.14	ug/L		04/27/20 17:28	04/28/20 18:04	1
Hexachlorobutadiene	ND		4.9	1.1	ug/L		04/27/20 17:28	04/28/20 18:04	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		04/27/20 17:28	04/28/20 18:04	1
Hexachloroethane	ND		4.9	0.95	ug/L		04/27/20 17:28	04/28/20 18:04	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.083	ug/L		04/27/20 17:28	04/28/20 18:04	1
Isophorone	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 18:04	1
Nitrobenzene	ND		0.98	0.44	ug/L		04/27/20 17:28	04/28/20 18:04	1
N-Nitrosodi-n-propylamine	ND		0.49	0.14	ug/L		04/27/20 17:28	04/28/20 18:04	1
N-Nitrosodiphenylamine	ND		2.0	0.33	ug/L		04/27/20 17:28	04/28/20 18:04	1
Phenol	ND		4.9	0.35	ug/L		04/27/20 17:28	04/28/20 18:04	1
Pyrene	ND		0.98	0.47	ug/L		04/27/20 17:28	04/28/20 18:04	1
2,4-Dimethylphenol	ND		9.8	3.3	ug/L		04/27/20 17:28	04/28/20 18:04	1
Benzo[a]anthracene	ND		0.20	0.043	ug/L		04/27/20 17:28	04/28/20 18:04	1
Phenanthrene	ND		0.98	0.34	ug/L		04/27/20 17:28	04/28/20 18:04	1
3,3'-Dichlorobenzidine	ND		4.9	0.92	ug/L		04/27/20 17:28	04/28/20 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*147*	*X*	*40 - 145*	*04/27/20 17:28*	*04/28/20 18:04*	*1*
2-Fluorobiphenyl	*98*		*34 - 110*	*04/27/20 17:28*	*04/28/20 18:04*	*1*
2-Fluorophenol (Surr)	*59*		*27 - 110*	*04/27/20 17:28*	*04/28/20 18:04*	*1*
Nitrobenzene-d5 (Surr)	*84*		*36 - 120*	*04/27/20 17:28*	*04/28/20 18:04*	*1*
Phenol-d5 (Surr)	*25*		*20 - 100*	*04/27/20 17:28*	*04/28/20 18:04*	*1*
Terphenyl-d14 (Surr)	*118*		*40 - 145*	*04/27/20 17:28*	*04/28/20 18:04*	*1*

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.13	pg/L		04/28/20 11:57	05/01/20 04:01	1
Total TCDD	**0.59**	**J I**	10	0.13	pg/L		04/28/20 11:57	05/01/20 04:01	1
1,2,3,7,8-PeCDD	ND		50	0.13	pg/L		04/28/20 11:57	05/01/20 04:01	1
Total PeCDD	**0.52**	**J I**	50	0.13	pg/L		04/28/20 11:57	05/01/20 04:01	1
1,2,3,4,7,8-HxCDD	ND		50	0.081	pg/L		04/28/20 11:57	05/01/20 04:01	1

Client Sample ID: SUPE-W-12CR-042220

Date Collected: 04/22/20 13:52
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-9

Matrix: Water

Method: 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		50	0.091	pg/L		04/28/20 11:57	05/01/20 04:01	1
1,2,3,7,8,9-HxCDD	**0.27**	**J I B**	50	0.080	pg/L		04/28/20 11:57	05/01/20 04:01	1
Total HxCDD	**2.6**	**J I B**	50	0.084	pg/L		04/28/20 11:57	05/01/20 04:01	1
1,2,3,4,6,7,8-HpCDD	**3.3**	**J B**	50	0.080	pg/L		04/28/20 11:57	05/01/20 04:01	1
Total HpCDD	**11**	**J B**	50	0.080	pg/L		04/28/20 11:57	05/01/20 04:01	1
OCDD	**41**	**J B**	100	0.12	pg/L		04/28/20 11:57	05/01/20 04:01	1
2,3,7,8-TCDF	ND		10	0.12	pg/L		04/28/20 11:57	05/01/20 04:01	1
Total TCDF	ND		10	0.12	pg/L		04/28/20 11:57	05/01/20 04:01	1
1,2,3,7,8-PeCDF	ND		50	0.17	pg/L		04/28/20 11:57	05/01/20 04:01	1
2,3,4,7,8-PeCDF	ND		50	0.16	pg/L		04/28/20 11:57	05/01/20 04:01	1
Total PeCDF	**0.31**	**J B**	50	0.17	pg/L		04/28/20 11:57	05/01/20 04:01	1
1,2,3,4,7,8-HxCDF	ND		50	0.19	pg/L		04/28/20 11:57	05/01/20 04:01	1
1,2,3,6,7,8-HxCDF	ND		50	0.20	pg/L		04/28/20 11:57	05/01/20 04:01	1
2,3,4,6,7,8-HxCDF	ND		50	0.18	pg/L		04/28/20 11:57	05/01/20 04:01	1
1,2,3,7,8,9-HxCDF	ND		50	0.18	pg/L		04/28/20 11:57	05/01/20 04:01	1
Total HxCDF	**1.3**	**J I B**	50	0.19	pg/L		04/28/20 11:57	05/01/20 04:01	1
1,2,3,4,6,7,8-HpCDF	**0.72**	**J B**	50	0.099	pg/L		04/28/20 11:57	05/01/20 04:01	1
1,2,3,4,7,8,9-HpCDF	ND		50	0.12	pg/L		04/28/20 11:57	05/01/20 04:01	1
Total HpCDF	**2.8**	**J B**	50	0.11	pg/L		04/28/20 11:57	05/01/20 04:01	1
OCDF	**2.7**	**J B**	100	0.12	pg/L		04/28/20 11:57	05/01/20 04:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*74*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-1,2,3,7,8-PeCDD	*78*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-1,2,3,4,7,8-HxCDD	*76*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-1,2,3,6,7,8-HxCDD	*72*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*97*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-OCDD	*79*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-2,3,7,8-TCDF	*78*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-1,2,3,7,8-PeCDF	*80*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-2,3,4,7,8-PeCDF	*72*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-1,2,3,4,7,8-HxCDF	*79*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-1,2,3,6,7,8-HxCDF	*70*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-2,3,4,6,7,8-HxCDF	*79*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-1,2,3,7,8,9-HxCDF	*88*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*81*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*99*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*
13C-OCDF	*83*		*40 - 135*	*04/28/20 11:57*	*05/01/20 04:01*	*1*

Client Sample ID: SUPE-W-30A-042220

Date Collected: 04/22/20 15:00
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			04/26/20 03:14	2
1,2,4-Trimethylbenzene	**6.5**		2.0	1.5	ug/L			04/26/20 03:14	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			04/26/20 03:14	2
Benzene	**5.6**		2.0	0.82	ug/L			04/26/20 03:14	2
Chloromethane	ND		2.0	0.70	ug/L			04/26/20 03:14	2
Ethylbenzene	**17**		2.0	1.5	ug/L			04/26/20 03:14	2

Client Sample ID: SUPE-W-30A-042220
Lab Sample ID: 480-169009-10

Date Collected: 04/22/20 15:00
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			04/26/20 03:14	2
m-Xylene & p-Xylene	**6.4**		4.0	1.3	ug/L			04/26/20 03:14	2
Naphthalene	**150**		2.0	0.86	ug/L			04/26/20 03:14	2
n-Butylbenzene	ND		2.0	1.3	ug/L			04/26/20 03:14	2
N-Propylbenzene	ND		2.0	1.4	ug/L			04/26/20 03:14	2
o-Xylene	**5.5**		2.0	1.5	ug/L			04/26/20 03:14	2
Styrene	ND		2.0	1.5	ug/L			04/26/20 03:14	2
Toluene	**1.5**	**J**	2.0	1.0	ug/L			04/26/20 03:14	2
Xylenes, Total	**12**		4.0	1.3	ug/L			04/26/20 03:14	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*04/26/20 03:14*	*2*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/26/20 03:14*	*2*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*04/26/20 03:14*	*2*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/26/20 03:14*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		10	3.4	ug/L		04/28/20 15:23	04/29/20 18:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*100*		*24 - 146*	*04/28/20 15:23*	*04/29/20 18:05*	*10*
2-Fluorobiphenyl	*94*		*37 - 120*	*04/28/20 15:23*	*04/29/20 18:05*	*10*
2-Fluorophenol (Surr)	*49*		*10 - 120*	*04/28/20 15:23*	*04/29/20 18:05*	*10*
Nitrobenzene-d5 (Surr)	*76*		*26 - 120*	*04/28/20 15:23*	*04/29/20 18:05*	*10*
Phenol-d5 (Surr)	*33*		*11 - 120*	*04/28/20 15:23*	*04/29/20 18:05*	*10*
p-Terphenyl-d14	*85*		*64 - 127*	*04/28/20 15:23*	*04/29/20 18:05*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 19:00	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 19:00	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		04/27/20 17:28	04/28/20 19:00	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 19:00	1
1-Methylnaphthalene	**8.7**		2.0	0.51	ug/L		04/27/20 17:28	04/28/20 19:00	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 19:00	1
2,3,4,6-Tetrachlorophenol	ND		5.1	1.5	ug/L		04/27/20 17:28	04/28/20 19:00	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 19:00	1
2,4,6-Trichlorophenol	ND		5.1	1.1	ug/L		04/27/20 17:28	04/28/20 19:00	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 19:00	1
2,4-Dinitrophenol	ND		20	7.5	ug/L		04/27/20 17:28	04/28/20 19:00	1
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		04/27/20 17:28	04/28/20 19:00	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		04/27/20 17:28	04/28/20 19:00	1
3 & 4 Methylphenol	ND		2.0	0.45	ug/L		04/27/20 17:28	04/28/20 19:00	1
2-Chloronaphthalene	ND		2.0	0.35	ug/L		04/27/20 17:28	04/28/20 19:00	1
2-Chlorophenol	ND		5.1	0.81	ug/L		04/27/20 17:28	04/28/20 19:00	1
2-Methylnaphthalene	**0.22**	**J**	2.0	0.13	ug/L		04/27/20 17:28	04/28/20 19:00	1
2-Methylphenol	ND		2.0	0.31	ug/L		04/27/20 17:28	04/28/20 19:00	1
2-Nitroaniline	ND		5.1	1.1	ug/L		04/27/20 17:28	04/28/20 19:00	1
2-Nitrophenol	ND		10	2.2	ug/L		04/27/20 17:28	04/28/20 19:00	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-W-30A-042220
Date Collected: 04/22/20 15:00
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 19:00	1
4,6-Dinitro-2-methylphenol	ND		20	5.0	ug/L		04/27/20 17:28	04/28/20 19:00	1
4-Bromophenyl phenyl ether	ND		5.1	0.92	ug/L		04/27/20 17:28	04/28/20 19:00	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		04/27/20 17:28	04/28/20 19:00	1
4-Chloroaniline	ND		10	2.1	ug/L		04/27/20 17:28	04/28/20 19:00	1
4-Chlorophenyl phenyl ether	ND		5.1	0.82	ug/L		04/27/20 17:28	04/28/20 19:00	1
4-Nitroaniline	ND		10	4.0	ug/L		04/27/20 17:28	04/28/20 19:00	1
4-Nitrophenol	ND		20	2.4	ug/L		04/27/20 17:28	04/28/20 19:00	1
Acenaphthene	**23**		1.0	0.37	ug/L		04/27/20 17:28	04/28/20 19:00	1
Acenaphthylene	**0.56**	**J**	1.0	0.33	ug/L		04/27/20 17:28	04/28/20 19:00	1
Anthracene	**0.97**	**J ***	1.0	0.33	ug/L		04/27/20 17:28	04/28/20 19:00	1
Benzo[a]pyrene	ND		0.20	0.057	ug/L		04/27/20 17:28	04/28/20 19:00	1
Benzo[b]fluoranthene	**0.26**		0.20	0.059	ug/L		04/27/20 17:28	04/28/20 19:00	1
Benzo[g,h,i]perylene	ND		1.0	0.43	ug/L		04/27/20 17:28	04/28/20 19:00	1
Benzo[k]fluoranthene	**0.26**		0.20	0.075	ug/L		04/27/20 17:28	04/28/20 19:00	1
Benzoic acid	ND		20	4.6	ug/L		04/27/20 17:28	04/28/20 19:00	1
Benzyl alcohol	ND		20	3.1	ug/L		04/27/20 17:28	04/28/20 19:00	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 19:00	1
Bis(2-chloroethyl)ether	ND		2.0	0.36	ug/L		04/27/20 17:28	04/28/20 19:00	1
Bis(2-ethylhexyl) phthalate	ND		10	2.5	ug/L		04/27/20 17:28	04/28/20 19:00	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 19:00	1
Chrysene	**0.23**	**J**	0.51	0.14	ug/L		04/27/20 17:28	04/28/20 19:00	1
Dibenz(a,h)anthracene	ND		0.30	0.065	ug/L		04/27/20 17:28	04/28/20 19:00	1
Dibenzofuran	**7.5**		2.0	0.36	ug/L		04/27/20 17:28	04/28/20 19:00	1
Diethyl phthalate	ND		2.0	0.45	ug/L		04/27/20 17:28	04/28/20 19:00	1
Dimethyl phthalate	ND	*	2.0	0.39	ug/L		04/27/20 17:28	04/28/20 19:00	1
Di-n-butyl phthalate	ND	*	5.1	0.81	ug/L		04/27/20 17:28	04/28/20 19:00	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		04/27/20 17:28	04/28/20 19:00	1
2,3,5,6-Tetrachlorophenol	ND		5.1	2.5	ug/L		04/27/20 17:28	04/28/20 19:00	1
Fluoranthene	**1.4**	*****	1.0	0.33	ug/L		04/27/20 17:28	04/28/20 19:00	1
Fluorene	**6.0**		1.0	0.39	ug/L		04/27/20 17:28	04/28/20 19:00	1
Hexachlorobenzene	ND	*	0.51	0.14	ug/L		04/27/20 17:28	04/28/20 19:00	1
Hexachlorobutadiene	ND		5.1	1.1	ug/L		04/27/20 17:28	04/28/20 19:00	1
Hexachlorocyclopentadiene	ND		20	3.5	ug/L		04/27/20 17:28	04/28/20 19:00	1
Hexachloroethane	ND		5.1	0.99	ug/L		04/27/20 17:28	04/28/20 19:00	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.085	ug/L		04/27/20 17:28	04/28/20 19:00	1
Isophorone	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 19:00	1
Nitrobenzene	ND		1.0	0.46	ug/L		04/27/20 17:28	04/28/20 19:00	1
N-Nitrosodi-n-propylamine	ND		0.51	0.14	ug/L		04/27/20 17:28	04/28/20 19:00	1
N-Nitrosodiphenylamine	ND		2.0	0.35	ug/L		04/27/20 17:28	04/28/20 19:00	1
Phenol	ND		5.1	0.37	ug/L		04/27/20 17:28	04/28/20 19:00	1
Pyrene	**0.95**	**J**	1.0	0.49	ug/L		04/27/20 17:28	04/28/20 19:00	1
2,4-Dimethylphenol	ND		10	3.4	ug/L		04/27/20 17:28	04/28/20 19:00	1
Benzo[a]anthracene	**0.19**	**J**	0.20	0.045	ug/L		04/27/20 17:28	04/28/20 19:00	1
Phenanthrene	**1.5**		1.0	0.36	ug/L		04/27/20 17:28	04/28/20 19:00	1
3,3'-Dichlorobenzidine	ND		5.1	0.95	ug/L		04/27/20 17:28	04/28/20 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*133*		*40 - 145*	*04/27/20 17:28*	*04/28/20 19:00*	*1*
2-Fluorobiphenyl	*83*		*34 - 110*	*04/27/20 17:28*	*04/28/20 19:00*	*1*

Client Sample ID: SUPE-W-30A-042220

Date Collected: 04/22/20 15:00
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-10

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	*57*		*27 - 110*	*04/27/20 17:28*	*04/28/20 19:00*	*1*
Nitrobenzene-d5 (Surr)	*77*		*36 - 120*	*04/27/20 17:28*	*04/28/20 19:00*	*1*
Phenol-d5 (Surr)	*27*		*20 - 100*	*04/27/20 17:28*	*04/28/20 19:00*	*1*
Terphenyl-d14 (Surr)	*107*		*40 - 145*	*04/27/20 17:28*	*04/28/20 19:00*	*1*

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.7	0.19	pg/L		04/28/20 11:57	05/01/20 05:02	1
Total TCDD	ND		9.7	0.19	pg/L		04/28/20 11:57	05/01/20 05:02	1
1,2,3,7,8-PeCDD	ND		48	0.25	pg/L		04/28/20 11:57	05/01/20 05:02	1
Total PeCDD	ND		48	0.25	pg/L		04/28/20 11:57	05/01/20 05:02	1
1,2,3,4,7,8-HxCDD	**1.0**	**J**	48	0.17	pg/L		04/28/20 11:57	05/01/20 05:02	1
1,2,3,6,7,8-HxCDD	**8.5**	**J B**	48	0.17	pg/L		04/28/20 11:57	05/01/20 05:02	1
1,2,3,7,8,9-HxCDD	**1.9**	**J B**	48	0.16	pg/L		04/28/20 11:57	05/01/20 05:02	1
Total HxCDD	**35**	**J I B**	48	0.17	pg/L		04/28/20 11:57	05/01/20 05:02	1
1,2,3,4,6,7,8-HpCDD	**210**	**B**	48	0.68	pg/L		04/28/20 11:57	05/01/20 05:02	1
Total HpCDD	**460**	**B**	48	0.68	pg/L		04/28/20 11:57	05/01/20 05:02	1
OCDD	**2800**	**B**	97	0.053	pg/L		04/28/20 11:57	05/01/20 05:02	1
2,3,7,8-TCDF	ND		9.7	0.16	pg/L		04/28/20 11:57	05/01/20 05:02	1
Total TCDF	**17**	**I**	9.7	0.16	pg/L		04/28/20 11:57	05/01/20 05:02	1
1,2,3,7,8-PeCDF	**0.55**	**J B**	48	0.28	pg/L		04/28/20 11:57	05/01/20 05:02	1
2,3,4,7,8-PeCDF	**1.1**	**J I**	48	0.29	pg/L		04/28/20 11:57	05/01/20 05:02	1
Total PeCDF	**78**	**I B**	48	0.29	pg/L		04/28/20 11:57	05/01/20 05:02	1
1,2,3,4,7,8-HxCDF	**8.8**	**J B**	48	1.5	pg/L		04/28/20 11:57	05/01/20 05:02	1
1,2,3,6,7,8-HxCDF	**2.2**	**J B**	48	1.5	pg/L		04/28/20 11:57	05/01/20 05:02	1
2,3,4,6,7,8-HxCDF	ND		48	1.5	pg/L		04/28/20 11:57	05/01/20 05:02	1
1,2,3,7,8,9-HxCDF	ND		48	1.5	pg/L		04/28/20 11:57	05/01/20 05:02	1
Total HxCDF	**220**	**I B**	48	1.5	pg/L		04/28/20 11:57	05/01/20 05:02	1
1,2,3,4,6,7,8-HpCDF	**70**	**B**	48	0.17	pg/L		04/28/20 11:57	05/01/20 05:02	1
1,2,3,4,7,8,9-HpCDF	**6.8**	**J B**	48	0.23	pg/L		04/28/20 11:57	05/01/20 05:02	1
Total HpCDF	**270**	**B**	48	0.20	pg/L		04/28/20 11:57	05/01/20 05:02	1
OCDF	**200**	**B**	97	0.097	pg/L		04/28/20 11:57	05/01/20 05:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	*74*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-1,2,3,7,8-PeCDD	*76*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-1,2,3,4,7,8-HxCDD	*76*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-1,2,3,6,7,8-HxCDD	*72*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*94*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-OCDD	*86*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-2,3,7,8-TCDF	*75*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-1,2,3,7,8-PeCDF	*86*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-2,3,4,7,8-PeCDF	*72*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-1,2,3,4,7,8-HxCDF	*80*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-1,2,3,6,7,8-HxCDF	*73*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-2,3,4,6,7,8-HxCDF	*77*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-1,2,3,7,8,9-HxCDF	*87*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*83*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*97*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*
13C-OCDF	*83*		*40 - 135*	*04/28/20 11:57*	*05/01/20 05:02*	*1*

Client Sample ID: SUPE-W-06A-042120

Date Collected: 04/21/20 15:35
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/20 03:37	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/26/20 03:37	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/26/20 03:37	1
Benzene	ND		1.0	0.41	ug/L			04/26/20 03:37	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/20 03:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/20 03:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/20 03:37	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/26/20 03:37	1
Naphthalene	**2.1**		1.0	0.43	ug/L			04/26/20 03:37	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/26/20 03:37	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/26/20 03:37	1
o-Xylene	ND		1.0	0.76	ug/L			04/26/20 03:37	1
Styrene	ND		1.0	0.73	ug/L			04/26/20 03:37	1
Toluene	ND		1.0	0.51	ug/L			04/26/20 03:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/26/20 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*04/26/20 03:37*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*04/26/20 03:37*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*04/26/20 03:37*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/26/20 03:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		04/28/20 15:23	04/29/20 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*101*		*24 - 146*	*04/28/20 15:23*	*04/29/20 18:34*	*1*
2-Fluorobiphenyl	*103*		*37 - 120*	*04/28/20 15:23*	*04/29/20 18:34*	*1*
2-Fluorophenol (Surr)	*55*		*10 - 120*	*04/28/20 15:23*	*04/29/20 18:34*	*1*
Nitrobenzene-d5 (Surr)	*89*		*26 - 120*	*04/28/20 15:23*	*04/29/20 18:34*	*1*
Phenol-d5 (Surr)	*38*		*11 - 120*	*04/28/20 15:23*	*04/29/20 18:34*	*1*
p-Terphenyl-d14	*111*		*64 - 127*	*04/28/20 15:23*	*04/29/20 18:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 18:32	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 18:32	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		04/27/20 17:28	04/28/20 18:32	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 18:32	1
1-Methylnaphthalene	ND		2.0	0.49	ug/L		04/27/20 17:28	04/28/20 18:32	1
bis(chloroisopropyl) ether	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 18:32	1
2,3,4,6-Tetrachlorophenol	ND		4.9	1.5	ug/L		04/27/20 17:28	04/28/20 18:32	1
2,4,5-Trichlorophenol	ND		9.8	2.3	ug/L		04/27/20 17:28	04/28/20 18:32	1
2,4,6-Trichlorophenol	ND		4.9	1.1	ug/L		04/27/20 17:28	04/28/20 18:32	1
2,4-Dichlorophenol	ND		9.8	2.2	ug/L		04/27/20 17:28	04/28/20 18:32	1
2,4-Dinitrophenol	ND		20	7.3	ug/L		04/27/20 17:28	04/28/20 18:32	1
2,4-Dinitrotoluene	ND		0.98	0.29	ug/L		04/27/20 17:28	04/28/20 18:32	1
2,6-Dinitrotoluene	ND		0.98	0.12	ug/L		04/27/20 17:28	04/28/20 18:32	1
3 & 4 Methylphenol	ND		2.0	0.43	ug/L		04/27/20 17:28	04/28/20 18:32	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-W-06A-042120
Date Collected: 04/21/20 15:35
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		2.0	0.33	ug/L		04/27/20 17:28	04/28/20 18:32	1
2-Chlorophenol	ND		4.9	0.79	ug/L		04/27/20 17:28	04/28/20 18:32	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		04/27/20 17:28	04/28/20 18:32	1
2-Methylphenol	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 18:32	1
2-Nitroaniline	ND		4.9	1.1	ug/L		04/27/20 17:28	04/28/20 18:32	1
2-Nitrophenol	ND		9.8	2.1	ug/L		04/27/20 17:28	04/28/20 18:32	1
3-Nitroaniline	ND		9.8	2.3	ug/L		04/27/20 17:28	04/28/20 18:32	1
4,6-Dinitro-2-methylphenol	ND		20	4.8	ug/L		04/27/20 17:28	04/28/20 18:32	1
4-Bromophenyl phenyl ether	ND		4.9	0.89	ug/L		04/27/20 17:28	04/28/20 18:32	1
4-Chloro-3-methylphenol	ND		9.8	2.2	ug/L		04/27/20 17:28	04/28/20 18:32	1
4-Chloroaniline	ND		9.8	2.1	ug/L		04/27/20 17:28	04/28/20 18:32	1
4-Chlorophenyl phenyl ether	ND		4.9	0.80	ug/L		04/27/20 17:28	04/28/20 18:32	1
4-Nitroaniline	ND		9.8	3.9	ug/L		04/27/20 17:28	04/28/20 18:32	1
4-Nitrophenol	ND		20	2.3	ug/L		04/27/20 17:28	04/28/20 18:32	1
Acenaphthene	ND		0.98	0.35	ug/L		04/27/20 17:28	04/28/20 18:32	1
Acenaphthylene	ND		0.98	0.31	ug/L		04/27/20 17:28	04/28/20 18:32	1
Anthracene	ND	*	0.98	0.31	ug/L		04/27/20 17:28	04/28/20 18:32	1
Benzo[a]pyrene	ND		0.20	0.055	ug/L		04/27/20 17:28	04/28/20 18:32	1
Benzo[b]fluoranthene	ND		0.20	0.057	ug/L		04/27/20 17:28	04/28/20 18:32	1
Benzo[g,h,i]perylene	ND		0.98	0.41	ug/L		04/27/20 17:28	04/28/20 18:32	1
Benzo[k]fluoranthene	ND		0.20	0.073	ug/L		04/27/20 17:28	04/28/20 18:32	1
Benzoic acid	ND		20	4.5	ug/L		04/27/20 17:28	04/28/20 18:32	1
Benzyl alcohol	ND		20	3.0	ug/L		04/27/20 17:28	04/28/20 18:32	1
Bis(2-chloroethoxy)methane	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 18:32	1
Bis(2-chloroethyl)ether	ND		2.0	0.34	ug/L		04/27/20 17:28	04/28/20 18:32	1
Bis(2-ethylhexyl) phthalate	**2.4**	**J**	9.8	2.4	ug/L		04/27/20 17:28	04/28/20 18:32	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 18:32	1
Chrysene	ND		0.49	0.14	ug/L		04/27/20 17:28	04/28/20 18:32	1
Dibenz(a,h)anthracene	ND		0.29	0.063	ug/L		04/27/20 17:28	04/28/20 18:32	1
Dibenzofuran	ND		2.0	0.34	ug/L		04/27/20 17:28	04/28/20 18:32	1
Diethyl phthalate	ND		2.0	0.43	ug/L		04/27/20 17:28	04/28/20 18:32	1
Dimethyl phthalate	ND	*	2.0	0.37	ug/L		04/27/20 17:28	04/28/20 18:32	1
Di-n-butyl phthalate	ND	*	4.9	0.79	ug/L		04/27/20 17:28	04/28/20 18:32	1
Di-n-octyl phthalate	ND		9.8	2.4	ug/L		04/27/20 17:28	04/28/20 18:32	1
2,3,5,6-Tetrachlorophenol	ND		4.9	2.5	ug/L		04/27/20 17:28	04/28/20 18:32	1
Fluoranthene	ND	*	0.98	0.31	ug/L		04/27/20 17:28	04/28/20 18:32	1
Fluorene	ND		0.98	0.37	ug/L		04/27/20 17:28	04/28/20 18:32	1
Hexachlorobenzene	ND	*	0.49	0.14	ug/L		04/27/20 17:28	04/28/20 18:32	1
Hexachlorobutadiene	ND		4.9	1.1	ug/L		04/27/20 17:28	04/28/20 18:32	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		04/27/20 17:28	04/28/20 18:32	1
Hexachloroethane	ND		4.9	0.95	ug/L		04/27/20 17:28	04/28/20 18:32	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.083	ug/L		04/27/20 17:28	04/28/20 18:32	1
Isophorone	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 18:32	1
Nitrobenzene	ND		0.98	0.44	ug/L		04/27/20 17:28	04/28/20 18:32	1
N-Nitrosodi-n-propylamine	ND		0.49	0.14	ug/L		04/27/20 17:28	04/28/20 18:32	1
N-Nitrosodiphenylamine	ND		2.0	0.33	ug/L		04/27/20 17:28	04/28/20 18:32	1
Phenol	ND		4.9	0.35	ug/L		04/27/20 17:28	04/28/20 18:32	1
Pyrene	ND		0.98	0.47	ug/L		04/27/20 17:28	04/28/20 18:32	1
2,4-Dimethylphenol	ND		9.8	3.3	ug/L		04/27/20 17:28	04/28/20 18:32	1

Client Sample ID: SUPE-W-06A-042120
Lab Sample ID: 480-169009-11

Date Collected: 04/21/20 15:35
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.20	0.043	ug/L		04/27/20 17:28	04/28/20 18:32	1
Phenanthrene	ND		0.98	0.34	ug/L		04/27/20 17:28	04/28/20 18:32	1
3,3'-Dichlorobenzidine	ND		4.9	0.92	ug/L		04/27/20 17:28	04/28/20 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*133*		*40 - 145*	*04/27/20 17:28*	*04/28/20 18:32*	*1*
2-Fluorobiphenyl	*90*		*34 - 110*	*04/27/20 17:28*	*04/28/20 18:32*	*1*
2-Fluorophenol (Surr)	*53*		*27 - 110*	*04/27/20 17:28*	*04/28/20 18:32*	*1*
Nitrobenzene-d5 (Surr)	*76*		*36 - 120*	*04/27/20 17:28*	*04/28/20 18:32*	*1*
Phenol-d5 (Surr)	*23*		*20 - 100*	*04/27/20 17:28*	*04/28/20 18:32*	*1*
Terphenyl-d14 (Surr)	*116*		*40 - 145*	*04/27/20 17:28*	*04/28/20 18:32*	*1*

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.13	pg/L		04/28/20 11:57	05/01/20 06:03	1
Total TCDD	**0.80**	**J I**	10	0.13	pg/L		04/28/20 11:57	05/01/20 06:03	1
1,2,3,7,8-PeCDD	ND		51	0.34	pg/L		04/28/20 11:57	05/01/20 06:03	1
Total PeCDD	ND		51	0.34	pg/L		04/28/20 11:57	05/01/20 06:03	1
1,2,3,4,7,8-HxCDD	ND		51	0.12	pg/L		04/28/20 11:57	05/01/20 06:03	1
1,2,3,6,7,8-HxCDD	ND		51	0.13	pg/L		04/28/20 11:57	05/01/20 06:03	1
1,2,3,7,8,9-HxCDD	ND		51	0.12	pg/L		04/28/20 11:57	05/01/20 06:03	1
Total HxCDD	**2.4**	**J I B**	51	0.12	pg/L		04/28/20 11:57	05/01/20 06:03	1
1,2,3,4,6,7,8-HpCDD	**5.0**	**J B**	51	0.28	pg/L		04/28/20 11:57	05/01/20 06:03	1
Total HpCDD	**14**	**J B**	51	0.28	pg/L		04/28/20 11:57	05/01/20 06:03	1
OCDD	**72**	**J B**	100	0.10	pg/L		04/28/20 11:57	05/01/20 06:03	1
2,3,7,8-TCDF	**0.24**	**J I**	10	0.12	pg/L		04/28/20 11:57	05/01/20 06:03	1
Total TCDF	**0.78**	**J I**	10	0.12	pg/L		04/28/20 11:57	05/01/20 06:03	1
1,2,3,7,8-PeCDF	ND		51	0.20	pg/L		04/28/20 11:57	05/01/20 06:03	1
2,3,4,7,8-PeCDF	ND		51	0.19	pg/L		04/28/20 11:57	05/01/20 06:03	1
Total PeCDF	ND		51	0.20	pg/L		04/28/20 11:57	05/01/20 06:03	1
1,2,3,4,7,8-HxCDF	ND		51	0.16	pg/L		04/28/20 11:57	05/01/20 06:03	1
1,2,3,6,7,8-HxCDF	ND		51	0.16	pg/L		04/28/20 11:57	05/01/20 06:03	1
2,3,4,6,7,8-HxCDF	**0.52**	**J I B**	51	0.16	pg/L		04/28/20 11:57	05/01/20 06:03	1
1,2,3,7,8,9-HxCDF	ND		51	0.16	pg/L		04/28/20 11:57	05/01/20 06:03	1
Total HxCDF	**0.52**	**J I B**	51	0.16	pg/L		04/28/20 11:57	05/01/20 06:03	1
1,2,3,4,6,7,8-HpCDF	**1.4**	**J I B**	51	0.18	pg/L		04/28/20 11:57	05/01/20 06:03	1
1,2,3,4,7,8,9-HpCDF	ND		51	0.23	pg/L		04/28/20 11:57	05/01/20 06:03	1
Total HpCDF	**4.6**	**J I B**	51	0.20	pg/L		04/28/20 11:57	05/01/20 06:03	1
OCDF	**5.0**	**J B**	100	0.17	pg/L		04/28/20 11:57	05/01/20 06:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*73*		*40 - 135*	*04/28/20 11:57*	*05/01/20 06:03*	*1*
13C-1,2,3,7,8-PeCDD	*79*		*40 - 135*	*04/28/20 11:57*	*05/01/20 06:03*	*1*
13C-1,2,3,4,7,8-HxCDD	*73*		*40 - 135*	*04/28/20 11:57*	*05/01/20 06:03*	*1*
13C-1,2,3,6,7,8-HxCDD	*72*		*40 - 135*	*04/28/20 11:57*	*05/01/20 06:03*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*93*		*40 - 135*	*04/28/20 11:57*	*05/01/20 06:03*	*1*
13C-OCDD	*80*		*40 - 135*	*04/28/20 11:57*	*05/01/20 06:03*	*1*
13C-2,3,7,8-TCDF	*78*		*40 - 135*	*04/28/20 11:57*	*05/01/20 06:03*	*1*
13C-1,2,3,7,8-PeCDF	*80*		*40 - 135*	*04/28/20 11:57*	*05/01/20 06:03*	*1*
13C-2,3,4,7,8-PeCDF	*71*		*40 - 135*	*04/28/20 11:57*	*05/01/20 06:03*	*1*
13C-1,2,3,4,7,8-HxCDF	*79*		*40 - 135*	*04/28/20 11:57*	*05/01/20 06:03*	*1*

Client Sample ID: SUPE-W-06A-042120
Lab Sample ID: 480-169009-11
Date Collected: 04/21/20 15:35
Matrix: Water
Date Received: 04/24/20 10:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	71		40 - 135	04/28/20 11:57	05/01/20 06:03	1
13C-2,3,4,6,7,8-HxCDF	78		40 - 135	04/28/20 11:57	05/01/20 06:03	1
13C-1,2,3,7,8,9-HxCDF	85		40 - 135	04/28/20 11:57	05/01/20 06:03	1
13C-1,2,3,4,6,7,8-HpCDF	80		40 - 135	04/28/20 11:57	05/01/20 06:03	1
13C-1,2,3,4,7,8,9-HpCDF	94		40 - 135	04/28/20 11:57	05/01/20 06:03	1
13C-OCDF	81		40 - 135	04/28/20 11:57	05/01/20 06:03	1

Client Sample ID: SUPE-W-10AR2-042220
Lab Sample ID: 480-169009-12
Date Collected: 04/22/20 17:00
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/20 04:00	1
1,2,4-Trimethylbenzene	**9.8**		1.0	0.75	ug/L			04/26/20 04:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/26/20 04:00	1
Benzene	**18**		1.0	0.41	ug/L			04/26/20 04:00	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/20 04:00	1
Ethylbenzene	**44**		1.0	0.74	ug/L			04/26/20 04:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/20 04:00	1
m-Xylene & p-Xylene	**3.6**		2.0	0.66	ug/L			04/26/20 04:00	1
Naphthalene	**1.9**		1.0	0.43	ug/L			04/26/20 04:00	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/26/20 04:00	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/26/20 04:00	1
o-Xylene	**18**		1.0	0.76	ug/L			04/26/20 04:00	1
Styrene	ND		1.0	0.73	ug/L			04/26/20 04:00	1
Toluene	**2.4**		1.0	0.51	ug/L			04/26/20 04:00	1
Xylenes, Total	**22**		2.0	0.66	ug/L			04/26/20 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		04/26/20 04:00	1
4-Bromofluorobenzene (Surr)	100		73 - 120		04/26/20 04:00	1
Dibromofluoromethane (Surr)	102		75 - 123		04/26/20 04:00	1
Toluene-d8 (Surr)	100		80 - 120		04/26/20 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		5.0	1.7	ug/L		04/28/20 15:23	04/29/20 19:02	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	115		24 - 146	04/28/20 15:23	04/29/20 19:02	5
2-Fluorobiphenyl	106		37 - 120	04/28/20 15:23	04/29/20 19:02	5
2-Fluorophenol (Surr)	54		10 - 120	04/28/20 15:23	04/29/20 19:02	5
Nitrobenzene-d5 (Surr)	88		26 - 120	04/28/20 15:23	04/29/20 19:02	5
Phenol-d5 (Surr)	35		11 - 120	04/28/20 15:23	04/29/20 19:02	5
p-Terphenyl-d14	95		64 - 127	04/28/20 15:23	04/29/20 19:02	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 19:27	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 19:27	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-W-10AR2-042220
Date Collected: 04/22/20 17:00
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		04/27/20 17:28	04/28/20 19:27	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 19:27	1
1-Methylnaphthalene	**48**		2.0	0.50	ug/L		04/27/20 17:28	04/28/20 19:27	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 19:27	1
2,3,4,6-Tetrachlorophenol	ND		5.0	1.5	ug/L		04/27/20 17:28	04/28/20 19:27	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 19:27	1
2,4,6-Trichlorophenol	ND		5.0	1.1	ug/L		04/27/20 17:28	04/28/20 19:27	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 19:27	1
2,4-Dinitrophenol	ND		20	7.5	ug/L		04/27/20 17:28	04/28/20 19:27	1
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		04/27/20 17:28	04/28/20 19:27	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		04/27/20 17:28	04/28/20 19:27	1
3 & 4 Methylphenol	ND		2.0	0.44	ug/L		04/27/20 17:28	04/28/20 19:27	1
2-Chloronaphthalene	ND		2.0	0.34	ug/L		04/27/20 17:28	04/28/20 19:27	1
2-Chlorophenol	ND		5.0	0.80	ug/L		04/27/20 17:28	04/28/20 19:27	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		04/27/20 17:28	04/28/20 19:27	1
2-Methylphenol	ND		2.0	0.31	ug/L		04/27/20 17:28	04/28/20 19:27	1
2-Nitroaniline	ND		5.0	1.1	ug/L		04/27/20 17:28	04/28/20 19:27	1
2-Nitrophenol	ND		10	2.1	ug/L		04/27/20 17:28	04/28/20 19:27	1
3-Nitroaniline	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 19:27	1
4,6-Dinitro-2-methylphenol	ND		20	4.9	ug/L		04/27/20 17:28	04/28/20 19:27	1
4-Bromophenyl phenyl ether	ND		5.0	0.91	ug/L		04/27/20 17:28	04/28/20 19:27	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		04/27/20 17:28	04/28/20 19:27	1
4-Chloroaniline	ND		10	2.1	ug/L		04/27/20 17:28	04/28/20 19:27	1
4-Chlorophenyl phenyl ether	ND		5.0	0.81	ug/L		04/27/20 17:28	04/28/20 19:27	1
4-Nitroaniline	ND		10	3.9	ug/L		04/27/20 17:28	04/28/20 19:27	1
4-Nitrophenol	ND		20	2.3	ug/L		04/27/20 17:28	04/28/20 19:27	1
Acenaphthylene	ND		1.0	0.32	ug/L		04/27/20 17:28	04/28/20 19:27	1
Anthracene	**1.1**	*	1.0	0.32	ug/L		04/27/20 17:28	04/28/20 19:27	1
Benzo[a]pyrene	**0.30**		0.20	0.056	ug/L		04/27/20 17:28	04/28/20 19:27	1
Benzo[b]fluoranthene	**0.22**		0.20	0.058	ug/L		04/27/20 17:28	04/28/20 19:27	1
Benzo[g,h,i]perylene	ND		1.0	0.42	ug/L		04/27/20 17:28	04/28/20 19:27	1
Benzo[k]fluoranthene	**0.27**		0.20	0.074	ug/L		04/27/20 17:28	04/28/20 19:27	1
Benzoic acid	ND		20	4.6	ug/L		04/27/20 17:28	04/28/20 19:27	1
Benzyl alcohol	ND		20	3.1	ug/L		04/27/20 17:28	04/28/20 19:27	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 19:27	1
Bis(2-chloroethyl)ether	ND		2.0	0.35	ug/L		04/27/20 17:28	04/28/20 19:27	1
Bis(2-ethylhexyl) phthalate	ND		10	2.4	ug/L		04/27/20 17:28	04/28/20 19:27	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 19:27	1
Chrysene	**0.30**	**J**	0.50	0.14	ug/L		04/27/20 17:28	04/28/20 19:27	1
Dibenz(a,h)anthracene	ND		0.30	0.064	ug/L		04/27/20 17:28	04/28/20 19:27	1
Dibenzofuran	**34**		2.0	0.35	ug/L		04/27/20 17:28	04/28/20 19:27	1
Diethyl phthalate	ND		2.0	0.44	ug/L		04/27/20 17:28	04/28/20 19:27	1
Dimethyl phthalate	ND	*	2.0	0.38	ug/L		04/27/20 17:28	04/28/20 19:27	1
Di-n-butyl phthalate	ND	*	5.0	0.80	ug/L		04/27/20 17:28	04/28/20 19:27	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		04/27/20 17:28	04/28/20 19:27	1
2,3,5,6-Tetrachlorophenol	ND		5.0	2.5	ug/L		04/27/20 17:28	04/28/20 19:27	1
Fluoranthene	**3.0**	*	1.0	0.32	ug/L		04/27/20 17:28	04/28/20 19:27	1
Fluorene	**28**		1.0	0.38	ug/L		04/27/20 17:28	04/28/20 19:27	1
Hexachlorobenzene	ND	*	0.50	0.14	ug/L		04/27/20 17:28	04/28/20 19:27	1

Client Sample ID: SUPE-W-10AR2-042220
Lab Sample ID: 480-169009-12

Date Collected: 04/22/20 17:00
Matrix: Water
Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		5.0	1.1	ug/L		04/27/20 17:28	04/28/20 19:27	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		04/27/20 17:28	04/28/20 19:27	1
Hexachloroethane	ND		5.0	0.97	ug/L		04/27/20 17:28	04/28/20 19:27	1
Indeno[1,2,3-cd]pyrene	**0.13**	**J**	0.20	0.084	ug/L		04/27/20 17:28	04/28/20 19:27	1
Isophorone	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 19:27	1
Nitrobenzene	ND		1.0	0.45	ug/L		04/27/20 17:28	04/28/20 19:27	1
N-Nitrosodi-n-propylamine	ND		0.50	0.14	ug/L		04/27/20 17:28	04/28/20 19:27	1
N-Nitrosodiphenylamine	ND		2.0	0.34	ug/L		04/27/20 17:28	04/28/20 19:27	1
Phenol	ND		5.0	0.36	ug/L		04/27/20 17:28	04/28/20 19:27	1
Pyrene	**1.7**		1.0	0.48	ug/L		04/27/20 17:28	04/28/20 19:27	1
2,4-Dimethylphenol	ND		10	3.3	ug/L		04/27/20 17:28	04/28/20 19:27	1
Benzo[a]anthracene	**0.22**		0.20	0.044	ug/L		04/27/20 17:28	04/28/20 19:27	1
Phenanthrene	**11**		1.0	0.35	ug/L		04/27/20 17:28	04/28/20 19:27	1
3,3'-Dichlorobenzidine	ND		5.0	0.94	ug/L		04/27/20 17:28	04/28/20 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*132*		*40 - 145*	*04/27/20 17:28*	*04/28/20 19:27*	*1*
2-Fluorobiphenyl	*93*		*34 - 110*	*04/27/20 17:28*	*04/28/20 19:27*	*1*
2-Fluorophenol (Surr)	*60*		*27 - 110*	*04/27/20 17:28*	*04/28/20 19:27*	*1*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*	*04/27/20 17:28*	*04/28/20 19:27*	*1*
Phenol-d5 (Surr)	*30*		*20 - 100*	*04/27/20 17:28*	*04/28/20 19:27*	*1*
Terphenyl-d14 (Surr)	*105*		*40 - 145*	*04/27/20 17:28*	*04/28/20 19:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**120**		5.0	1.8	ug/L		04/27/20 17:28	04/28/20 22:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*163*	*X*	*40 - 145*	*04/27/20 17:28*	*04/28/20 22:14*	*5*
2-Fluorobiphenyl	*103*		*34 - 110*	*04/27/20 17:28*	*04/28/20 22:14*	*5*
2-Fluorophenol (Surr)	*63*		*27 - 110*	*04/27/20 17:28*	*04/28/20 22:14*	*5*
Nitrobenzene-d5 (Surr)	*83*		*36 - 120*	*04/27/20 17:28*	*04/28/20 22:14*	*5*
Phenol-d5 (Surr)	*25*		*20 - 100*	*04/27/20 17:28*	*04/28/20 22:14*	*5*
Terphenyl-d14 (Surr)	*122*		*40 - 145*	*04/27/20 17:28*	*04/28/20 22:14*	*5*

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.34	pg/L		04/28/20 11:57	05/01/20 12:44	1
Total TCDD	**0.70**	**J I**	10	0.34	pg/L		04/28/20 11:57	05/01/20 12:44	1
1,2,3,7,8-PeCDD	ND		52	0.19	pg/L		04/28/20 11:57	05/01/20 12:44	1
Total PeCDD	ND		52	0.19	pg/L		04/28/20 11:57	05/01/20 12:44	1
1,2,3,4,7,8-HxCDD	ND		52	0.15	pg/L		04/28/20 11:57	05/01/20 12:44	1
1,2,3,6,7,8-HxCDD	**0.80**	**J I B**	52	0.16	pg/L		04/28/20 11:57	05/01/20 12:44	1
1,2,3,7,8,9-HxCDD	**0.90**	**J B**	52	0.15	pg/L		04/28/20 11:57	05/01/20 12:44	1
Total HxCDD	**8.1**	**J I B**	52	0.15	pg/L		04/28/20 11:57	05/01/20 12:44	1
1,2,3,4,6,7,8-HpCDD	**18**	**J B**	52	0.65	pg/L		04/28/20 11:57	05/01/20 12:44	1
Total HpCDD	**69**	**B**	52	0.65	pg/L		04/28/20 11:57	05/01/20 12:44	1
OCDD	**200**	**B**	100	0.24	pg/L		04/28/20 11:57	05/01/20 12:44	1
2,3,7,8-TCDF	**0.19**	**J I**	10	0.16	pg/L		04/28/20 11:57	05/01/20 12:44	1
Total TCDF	**2.4**	**J I**	10	0.16	pg/L		04/28/20 11:57	05/01/20 12:44	1

Client Sample ID: SUPE-W-10AR2-042220

Lab Sample ID: 480-169009-12

Date Collected: 04/22/20 17:00

Matrix: Water

Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDF	ND		52	0.16	pg/L		04/28/20 11:57	05/01/20 12:44	1
2,3,4,7,8-PeCDF	**0.37**	**J I**	52	0.16	pg/L		04/28/20 11:57	05/01/20 12:44	1
Total PeCDF	**4.8**	**J I B**	52	0.16	pg/L		04/28/20 11:57	05/01/20 12:44	1
1,2,3,4,7,8-HxCDF	ND		52	0.40	pg/L		04/28/20 11:57	05/01/20 12:44	1
1,2,3,6,7,8-HxCDF	ND		52	0.43	pg/L		04/28/20 11:57	05/01/20 12:44	1
2,3,4,6,7,8-HxCDF	ND		52	0.43	pg/L		04/28/20 11:57	05/01/20 12:44	1
1,2,3,7,8,9-HxCDF	ND		52	0.41	pg/L		04/28/20 11:57	05/01/20 12:44	1
Total HxCDF	**10**	**J I B**	52	0.42	pg/L		04/28/20 11:57	05/01/20 12:44	1
1,2,3,4,6,7,8-HpCDF	**2.5**	**J B**	52	0.13	pg/L		04/28/20 11:57	05/01/20 12:44	1
1,2,3,4,7,8,9-HpCDF	**0.65**	**J B**	52	0.17	pg/L		04/28/20 11:57	05/01/20 12:44	1
Total HpCDF	**9.8**	**J B**	52	0.15	pg/L		04/28/20 11:57	05/01/20 12:44	1
OCDF	**11**	**J B**	100	0.56	pg/L		04/28/20 11:57	05/01/20 12:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*73*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-1,2,3,7,8-PeCDD	*77*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-1,2,3,4,7,8-HxCDD	*75*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-1,2,3,6,7,8-HxCDD	*75*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*97*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-OCDD	*76*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-2,3,7,8-TCDF	*76*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-2,3,4,7,8-PeCDF	*72*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-1,2,3,4,7,8-HxCDF	*85*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-1,2,3,6,7,8-HxCDF	*76*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-2,3,4,6,7,8-HxCDF	*80*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-1,2,3,7,8,9-HxCDF	*88*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*85*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*100*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*
13C-OCDF	*80*		*40 - 135*	*04/28/20 11:57*	*05/01/20 12:44*	*1*

Client Sample ID: SUPE-W-06C-042120

Lab Sample ID: 480-169009-13

Date Collected: 04/21/20 17:30

Matrix: Water

Date Received: 04/24/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/26/20 04:24	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/26/20 04:24	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/26/20 04:24	1
Benzene	ND		1.0	0.41	ug/L			04/26/20 04:24	1
Chloromethane	ND		1.0	0.35	ug/L			04/26/20 04:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/26/20 04:24	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/26/20 04:24	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/26/20 04:24	1
Naphthalene	ND		1.0	0.43	ug/L			04/26/20 04:24	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/26/20 04:24	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/26/20 04:24	1
o-Xylene	ND		1.0	0.76	ug/L			04/26/20 04:24	1
Styrene	ND		1.0	0.73	ug/L			04/26/20 04:24	1
Toluene	ND		1.0	0.51	ug/L			04/26/20 04:24	1

Client Sample ID: SUPE-W-06C-042120
Date Collected: 04/21/20 17:30
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			04/26/20 04:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*04/26/20 04:24*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*04/26/20 04:24*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*04/26/20 04:24*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/26/20 04:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		04/28/20 15:23	04/29/20 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*102*		*24 - 146*	*04/28/20 15:23*	*04/29/20 17:37*	*1*
2-Fluorobiphenyl	*100*		*37 - 120*	*04/28/20 15:23*	*04/29/20 17:37*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 120*	*04/28/20 15:23*	*04/29/20 17:37*	*1*
Nitrobenzene-d5 (Surr)	*85*		*26 - 120*	*04/28/20 15:23*	*04/29/20 17:37*	*1*
Phenol-d5 (Surr)	*36*		*11 - 120*	*04/28/20 15:23*	*04/29/20 17:37*	*1*
p-Terphenyl-d14	*102*		*64 - 127*	*04/28/20 15:23*	*04/29/20 17:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	F2	1.9	0.28	ug/L		04/27/20 17:28	04/28/20 14:23	1
1,2-Dichlorobenzene	ND		1.9	0.28	ug/L		04/27/20 17:28	04/28/20 14:23	1
1,3-Dichlorobenzene	ND		1.9	0.24	ug/L		04/27/20 17:28	04/28/20 14:23	1
1,4-Dichlorobenzene	ND		1.9	0.26	ug/L		04/27/20 17:28	04/28/20 14:23	1
1-Methylnaphthalene	ND		1.9	0.47	ug/L		04/27/20 17:28	04/28/20 14:23	1
bis(chloroisopropyl) ether	ND		1.9	0.28	ug/L		04/27/20 17:28	04/28/20 14:23	1
2,3,4,6-Tetrachlorophenol	ND		4.7	1.4	ug/L		04/27/20 17:28	04/28/20 14:23	1
2,4,5-Trichlorophenol	ND		9.5	2.2	ug/L		04/27/20 17:28	04/28/20 14:23	1
2,4,6-Trichlorophenol	ND		4.7	1.0	ug/L		04/27/20 17:28	04/28/20 14:23	1
2,4-Dichlorophenol	ND		9.5	2.2	ug/L		04/27/20 17:28	04/28/20 14:23	1
2,4-Dinitrophenol	ND		19	7.0	ug/L		04/27/20 17:28	04/28/20 14:23	1
2,4-Dinitrotoluene	ND		0.95	0.28	ug/L		04/27/20 17:28	04/28/20 14:23	1
2,6-Dinitrotoluene	ND		0.95	0.11	ug/L		04/27/20 17:28	04/28/20 14:23	1
3 & 4 Methylphenol	ND		1.9	0.42	ug/L		04/27/20 17:28	04/28/20 14:23	1
2-Chloronaphthalene	ND		1.9	0.32	ug/L		04/27/20 17:28	04/28/20 14:23	1
2-Chlorophenol	ND		4.7	0.76	ug/L		04/27/20 17:28	04/28/20 14:23	1
2-Methylnaphthalene	ND	F2	1.9	0.12	ug/L		04/27/20 17:28	04/28/20 14:23	1
2-Methylphenol	ND		1.9	0.29	ug/L		04/27/20 17:28	04/28/20 14:23	1
2-Nitroaniline	ND		4.7	1.0	ug/L		04/27/20 17:28	04/28/20 14:23	1
2-Nitrophenol	ND		9.5	2.0	ug/L		04/27/20 17:28	04/28/20 14:23	1
3-Nitroaniline	ND		9.5	2.2	ug/L		04/27/20 17:28	04/28/20 14:23	1
4,6-Dinitro-2-methylphenol	ND		19	4.7	ug/L		04/27/20 17:28	04/28/20 14:23	1
4-Bromophenyl phenyl ether	ND		4.7	0.86	ug/L		04/27/20 17:28	04/28/20 14:23	1
4-Chloro-3-methylphenol	ND		9.5	2.1	ug/L		04/27/20 17:28	04/28/20 14:23	1
4-Chloroaniline	ND		9.5	2.0	ug/L		04/27/20 17:28	04/28/20 14:23	1
4-Chlorophenyl phenyl ether	ND		4.7	0.77	ug/L		04/27/20 17:28	04/28/20 14:23	1
4-Nitroaniline	ND		9.5	3.7	ug/L		04/27/20 17:28	04/28/20 14:23	1
4-Nitrophenol	ND		19	2.2	ug/L		04/27/20 17:28	04/28/20 14:23	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-W-06C-042120
Date Collected: 04/21/20 17:30
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.95	0.34	ug/L		04/27/20 17:28	04/28/20 14:23	1
Acenaphthylene	ND		0.95	0.30	ug/L		04/27/20 17:28	04/28/20 14:23	1
Anthracene	ND	F1 *	0.95	0.30	ug/L		04/27/20 17:28	04/28/20 14:23	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		04/27/20 17:28	04/28/20 14:23	1
Benzo[b]fluoranthene	ND		0.19	0.055	ug/L		04/27/20 17:28	04/28/20 14:23	1
Benzo[g,h,i]perylene	ND		0.95	0.40	ug/L		04/27/20 17:28	04/28/20 14:23	1
Benzo[k]fluoranthene	ND		0.19	0.070	ug/L		04/27/20 17:28	04/28/20 14:23	1
Benzoic acid	ND		19	4.3	ug/L		04/27/20 17:28	04/28/20 14:23	1
Benzyl alcohol	ND		19	2.9	ug/L		04/27/20 17:28	04/28/20 14:23	1
Bis(2-chloroethoxy)methane	ND		1.9	0.28	ug/L		04/27/20 17:28	04/28/20 14:23	1
Bis(2-chloroethyl)ether	ND		1.9	0.33	ug/L		04/27/20 17:28	04/28/20 14:23	1
Bis(2-ethylhexyl) phthalate	ND		9.5	2.3	ug/L		04/27/20 17:28	04/28/20 14:23	1
Butyl benzyl phthalate	ND		1.9	0.26	ug/L		04/27/20 17:28	04/28/20 14:23	1
Chrysene	ND		0.47	0.13	ug/L		04/27/20 17:28	04/28/20 14:23	1
Dibenz(a,h)anthracene	ND		0.28	0.061	ug/L		04/27/20 17:28	04/28/20 14:23	1
Dibenzofuran	ND		1.9	0.33	ug/L		04/27/20 17:28	04/28/20 14:23	1
Diethyl phthalate	ND		1.9	0.42	ug/L		04/27/20 17:28	04/28/20 14:23	1
Dimethyl phthalate	ND	*	1.9	0.36	ug/L		04/27/20 17:28	04/28/20 14:23	1
Di-n-butyl phthalate	ND	*	4.7	0.76	ug/L		04/27/20 17:28	04/28/20 14:23	1
Di-n-octyl phthalate	ND		9.5	2.3	ug/L		04/27/20 17:28	04/28/20 14:23	1
2,3,5,6-Tetrachlorophenol	ND		4.7	2.4	ug/L		04/27/20 17:28	04/28/20 14:23	1
Fluoranthene	ND	*	0.95	0.30	ug/L		04/27/20 17:28	04/28/20 14:23	1
Fluorene	ND		0.95	0.36	ug/L		04/27/20 17:28	04/28/20 14:23	1
Hexachlorobenzene	ND	F1 *	0.47	0.13	ug/L		04/27/20 17:28	04/28/20 14:23	1
Hexachlorobutadiene	ND	F2	4.7	1.1	ug/L		04/27/20 17:28	04/28/20 14:23	1
Hexachlorocyclopentadiene	ND	F2	19	3.3	ug/L		04/27/20 17:28	04/28/20 14:23	1
Hexachloroethane	ND	F2	4.7	0.92	ug/L		04/27/20 17:28	04/28/20 14:23	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.080	ug/L		04/27/20 17:28	04/28/20 14:23	1
Isophorone	ND		1.9	0.28	ug/L		04/27/20 17:28	04/28/20 14:23	1
Nitrobenzene	ND		0.95	0.43	ug/L		04/27/20 17:28	04/28/20 14:23	1
N-Nitrosodi-n-propylamine	ND		0.47	0.13	ug/L		04/27/20 17:28	04/28/20 14:23	1
N-Nitrosodiphenylamine	ND		1.9	0.32	ug/L		04/27/20 17:28	04/28/20 14:23	1
Phenol	ND		4.7	0.34	ug/L		04/27/20 17:28	04/28/20 14:23	1
Pyrene	ND		0.95	0.46	ug/L		04/27/20 17:28	04/28/20 14:23	1
2,4-Dimethylphenol	ND		9.5	3.2	ug/L		04/27/20 17:28	04/28/20 14:23	1
Benzo[a]anthracene	ND		0.19	0.042	ug/L		04/27/20 17:28	04/28/20 14:23	1
Phenanthrene	ND		0.95	0.33	ug/L		04/27/20 17:28	04/28/20 14:23	1
3,3'-Dichlorobenzidine	ND		4.7	0.89	ug/L		04/27/20 17:28	04/28/20 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*136*		*40 - 145*	*04/27/20 17:28*	*04/28/20 14:23*	*1*
2-Fluorobiphenyl	*97*		*34 - 110*	*04/27/20 17:28*	*04/28/20 14:23*	*1*
2-Fluorophenol (Surr)	*58*		*27 - 110*	*04/27/20 17:28*	*04/28/20 14:23*	*1*
Nitrobenzene-d5 (Surr)	*78*		*36 - 120*	*04/27/20 17:28*	*04/28/20 14:23*	*1*
Phenol-d5 (Surr)	*24*		*20 - 100*	*04/27/20 17:28*	*04/28/20 14:23*	*1*
Terphenyl-d14 (Surr)	*111*		*40 - 145*	*04/27/20 17:28*	*04/28/20 14:23*	*1*

Method: 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		04/28/20 11:57	05/01/20 13:45	1

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

Job ID: 480-169009-1

Client Sample ID: SUPE-W-06C-042120
Date Collected: 04/21/20 17:30
Date Received: 04/24/20 10:00

Lab Sample ID: 480-169009-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TCDD	**0.62**	**J I**	10	0.20	pg/L		04/28/20 11:57	05/01/20 13:45	1
1,2,3,7,8-PeCDD	ND		51	0.33	pg/L		04/28/20 11:57	05/01/20 13:45	1
Total PeCDD	ND		51	0.33	pg/L		04/28/20 11:57	05/01/20 13:45	1
1,2,3,4,7,8-HxCDD	ND		51	0.16	pg/L		04/28/20 11:57	05/01/20 13:45	1
1,2,3,6,7,8-HxCDD	**0.35**	**J I B**	51	0.16	pg/L		04/28/20 11:57	05/01/20 13:45	1
1,2,3,7,8,9-HxCDD	**0.36**	**J I B**	51	0.15	pg/L		04/28/20 11:57	05/01/20 13:45	1
Total HxCDD	**2.0**	**J I B**	51	0.16	pg/L		04/28/20 11:57	05/01/20 13:45	1
1,2,3,4,6,7,8-HpCDD	**1.5**	**J I B**	51	0.23	pg/L		04/28/20 11:57	05/01/20 13:45	1
Total HpCDD	**4.4**	**J I B**	51	0.23	pg/L		04/28/20 11:57	05/01/20 13:45	1
OCDD	**12**	**J B**	100	0.16	pg/L		04/28/20 11:57	05/01/20 13:45	1
2,3,7,8-TCDF	ND		10	0.15	pg/L		04/28/20 11:57	05/01/20 13:45	1
Total TCDF	ND		10	0.15	pg/L		04/28/20 11:57	05/01/20 13:45	1
1,2,3,7,8-PeCDF	ND		51	0.36	pg/L		04/28/20 11:57	05/01/20 13:45	1
2,3,4,7,8-PeCDF	ND		51	0.32	pg/L		04/28/20 11:57	05/01/20 13:45	1
Total PeCDF	ND		51	0.36	pg/L		04/28/20 11:57	05/01/20 13:45	1
1,2,3,4,7,8-HxCDF	ND		51	0.30	pg/L		04/28/20 11:57	05/01/20 13:45	1
1,2,3,6,7,8-HxCDF	ND		51	0.30	pg/L		04/28/20 11:57	05/01/20 13:45	1
2,3,4,6,7,8-HxCDF	ND		51	0.29	pg/L		04/28/20 11:57	05/01/20 13:45	1
1,2,3,7,8,9-HxCDF	ND		51	0.29	pg/L		04/28/20 11:57	05/01/20 13:45	1
Total HxCDF	ND		51	0.30	pg/L		04/28/20 11:57	05/01/20 13:45	1
1,2,3,4,6,7,8-HpCDF	ND		51	0.10	pg/L		04/28/20 11:57	05/01/20 13:45	1
1,2,3,4,7,8,9-HpCDF	ND		51	0.13	pg/L		04/28/20 11:57	05/01/20 13:45	1
Total HpCDF	**0.27**	**J B**	51	0.11	pg/L		04/28/20 11:57	05/01/20 13:45	1
OCDF	**1.7**	**J I B**	100	0.12	pg/L		04/28/20 11:57	05/01/20 13:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*64*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-1,2,3,7,8-PeCDD	*66*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-1,2,3,4,7,8-HxCDD	*69*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-1,2,3,6,7,8-HxCDD	*65*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*87*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-OCDD	*72*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-2,3,7,8-TCDF	*67*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-1,2,3,7,8-PeCDF	*66*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-2,3,4,7,8-PeCDF	*62*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-1,2,3,4,7,8-HxCDF	*71*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-1,2,3,6,7,8-HxCDF	*65*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-2,3,4,6,7,8-HxCDF	*70*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-1,2,3,7,8,9-HxCDF	*80*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*76*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*91*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*
13C-OCDF	*77*		*40 - 135*	*04/28/20 11:57*	*05/01/20 13:45*	*1*

Surrogate Summary

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

Job ID: 480-169009-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-169009-1	SUPE-M99-A-042120	103	98	103	98
480-169009-2	SUPE-TB-01-042220	103	100	102	100
480-169009-3	SUPE-W-28C-042220	104	100	102	98
480-169009-4	SUPE-W-12A-042220	103	100	104	99
480-169009-6	SUPE-W-04AR2-042220	101	100	103	99
480-169009-7	SUPE-EB-01-042220	103	100	103	98
480-169009-8	SUPE-W-30C-042120	102	101	102	99
480-169009-9	SUPE-W-12CR-042220	104	98	102	100
480-169009-10	SUPE-W-30A-042220	103	100	102	99
480-169009-11	SUPE-W-06A-042120	103	99	103	99
480-169009-12	SUPE-W-10AR2-042220	102	100	102	100
480-169009-13	SUPE-W-06C-042120	104	100	102	99
480-169009-13 MS	SUPE-W-06C-042120	103	100	103	100
480-169009-13 MSD	SUPE-W-06C-042120	99	102	101	100
LCS 480-528085/6	Lab Control Sample	102	100	103	100
MB 480-528085/9	Method Blank	103	99	102	98

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(40-145)	(34-110)	(27-110)	(36-120)	(20-100)	(40-145)
480-169009-1	SUPE-M99-A-042120	135	97	63	79	27	114
480-169009-3	SUPE-W-28C-042220	136	94	55	78	23	113
480-169009-4	SUPE-W-12A-042220	132	91	58	80	27	116
480-169009-5	SUPE-W-18D-042220	139	96	62	81	30	113
480-169009-6	SUPE-W-04AR2-042220	132	93	51	85	24	102
480-169009-7	SUPE-EB-01-042220	135	95	55	79	22	115
480-169009-8	SUPE-W-30C-042120	137	97	55	82	23	117
480-169009-9	SUPE-W-12CR-042220	147 X	98	59	84	25	118
480-169009-10	SUPE-W-30A-042220	133	83	57	77	27	107
480-169009-11	SUPE-W-06A-042120	133	90	53	76	23	116
480-169009-12	SUPE-W-10AR2-042220	132	93	60	81	30	105
480-169009-12 - DL	SUPE-W-10AR2-042220	163 X	103	63	83	25	122
480-169009-13	SUPE-W-06C-042120	136	97	58	78	24	111
480-169009-13 MS	SUPE-W-06C-042120	134	103	62	87	34	102
480-169009-13 MSD	SUPE-W-06C-042120	129	100	64	84	33	100
LCS 500-539931/2-A	Lab Control Sample	132	99	69	89	39	107
MB 500-539931/1-A	Method Blank	124	86	68	79	29	118

Surrogate Legend

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

Surrogate Summary

Client: Field & Technical Services LLC
Job ID: 480-169009-1
Project/Site: Superior, WI Semiannual Groundwater

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TBP (24-146)	FBP (37-120)	2FP (10-120)	NBZ (26-120)	PHL (11-120)	TPHd14 (64-127)		
480-169009-1	SUPE-M99-A-042120	100	97	49	83	33	107		
480-169009-3	SUPE-W-28C-042220	98	101	52	85	35	107		
480-169009-4	SUPE-W-12A-042220	104	105	53	88	36	116		
480-169009-5	SUPE-W-18D-042220	113	104	55	88	36	102		
480-169009-6	SUPE-W-04AR2-042220	97	106	51	83	34	81		
480-169009-7	SUPE-EB-01-042220	90	98	49	85	33	110		
480-169009-8	SUPE-W-30C-042120	107	100	48	83	32	104		
480-169009-9	SUPE-W-12CR-042220	105	97	51	83	33	111		
480-169009-10	SUPE-W-30A-042220	100	94	49	76	33	85		
480-169009-11	SUPE-W-06A-042120	101	103	55	89	38	111		
480-169009-12	SUPE-W-10AR2-042220	115	106	54	88	35	95		
480-169009-13	SUPE-W-06C-042120	102	100	53	85	36	102		
480-169009-13 MS	SUPE-W-06C-042120	116	106	56	99	40	94		
480-169009-13 MSD	SUPE-W-06C-042120	114	103	56	96	39	93		
LCS 480-528528/2-A	Lab Control Sample	115	104	57	95	40	114		
LCS 480-528777/2-A	Lab Control Sample	107	93	50	87	36	105		
LCSD 480-528777/3-A	Lab Control Sample Dup	112	98	52	92	37	109		
MB 480-528528/1-A	Method Blank	88	101	52	87	36	113		
MB 480-528777/1-A	Method Blank	88	98	50	83	34	117		

Surrogate Legend

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

Isotope Dilution Summary

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

Job ID: 480-169009-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	PeCDD (40-135)	HxCDD (40-135)	HxDD (40-135)	HpCDD (40-135)	OCDD (40-135)	TCDF (40-135)	PeCDF (40-135)
480-169009-1	SUPE-M99-A-042120	67	69	68	68	89	73	69	69
480-169009-3	SUPE-W-28C-042220	75	78	76	72	94	78	78	83
480-169009-4	SUPE-W-12A-042220	70	75	75	72	101	82	73	74
480-169009-6	SUPE-W-04AR2-042220	71	74	75	71	94	79	74	87
480-169009-7	SUPE-EB-01-042220	71	72	73	71	95	79	74	74
480-169009-8	SUPE-W-30C-042120	69	69	69	69	92	77	71	71
480-169009-9	SUPE-W-12CR-042220	74	78	76	72	97	79	78	80
480-169009-10	SUPE-W-30A-042220	74	76	76	72	94	86	75	86
480-169009-11	SUPE-W-06A-042120	73	79	73	72	93	80	78	80
480-169009-12	SUPE-W-10AR2-042220	73	77	75	75	97	76	76	87
480-169009-13	SUPE-W-06C-042120	64	66	69	65	87	72	67	66
480-169009-13 MS	SUPE-W-06C-042120	66	71	67	69	92	79	69	72
480-169009-13 MSD	SUPE-W-06C-042120	64	71	70	71	93	75	68	68
LCS 140-39332/17-A	Lab Control Sample	59	66	69	67	93	77	62	65
MB 140-39332/18-A	Method Blank	68	71	71	65	84	68	72	70

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PeCF (40-135)	HxCDF (40-135)	HxDF (40-135)	13CHxCF (40-135)	HxCF (40-135)	HpCDF (40-135)	HpCDF2 (40-135)	OCDF (40-135)
480-169009-1	SUPE-M99-A-042120	65	69	63	74	79	73	88	76
480-169009-3	SUPE-W-28C-042220	71	79	69	77	83	80	96	82
480-169009-4	SUPE-W-12A-042220	70	78	71	75	84	84	102	86
480-169009-6	SUPE-W-04AR2-042220	70	80	71	78	84	83	99	81
480-169009-7	SUPE-EB-01-042220	68	76	69	75	82	80	94	83
480-169009-8	SUPE-W-30C-042120	66	73	65	72	80	78	92	78
480-169009-9	SUPE-W-12CR-042220	72	79	70	79	88	81	99	83
480-169009-10	SUPE-W-30A-042220	72	80	73	77	87	83	97	83
480-169009-11	SUPE-W-06A-042120	71	79	71	78	85	80	94	81
480-169009-12	SUPE-W-10AR2-042220	72	85	76	80	88	85	100	80
480-169009-13	SUPE-W-06C-042120	62	71	65	70	80	76	91	77
480-169009-13 MS	SUPE-W-06C-042120	66	71	64	70	80	74	93	83
480-169009-13 MSD	SUPE-W-06C-042120	64	73	68	71	82	78	94	82
LCS 140-39332/17-A	Lab Control Sample	59	69	64	68	77	78	93	81
MB 140-39332/18-A	Method Blank	67	69	65	72	76	73	87	71

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
OCDD = 13C-OCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF

Isotope Dilution Summary

Client: Field & Technical Services LLC
Job ID: 480-169009-1
Project/Site: Superior, WI Semiannual Groundwater

OCDF = 13C-OCDF

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

Lab Sample ID: MB 480-528085/9
Matrix: Water
Analysis Batch: 528085

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/25/20 23:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			04/25/20 23:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			04/25/20 23:23	1
Benzene	ND		1.0	0.41	ug/L			04/25/20 23:23	1
Chloromethane	ND		1.0	0.35	ug/L			04/25/20 23:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/25/20 23:23	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/25/20 23:23	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			04/25/20 23:23	1
Naphthalene	ND		1.0	0.43	ug/L			04/25/20 23:23	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/25/20 23:23	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/25/20 23:23	1
o-Xylene	ND		1.0	0.76	ug/L			04/25/20 23:23	1
Styrene	ND		1.0	0.73	ug/L			04/25/20 23:23	1
Toluene	ND		1.0	0.51	ug/L			04/25/20 23:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/25/20 23:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*04/25/20 23:23*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*04/25/20 23:23*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*04/25/20 23:23*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/25/20 23:23*	*1*

Lab Sample ID: LCS 480-528085/6
Matrix: Water
Analysis Batch: 528085

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.3		ug/L		109	73 - 126
1,2,4-Trimethylbenzene	25.0	25.6		ug/L		102	76 - 121
1,3,5-Trimethylbenzene	25.0	25.7		ug/L		103	77 - 121
Benzene	25.0	25.9		ug/L		103	71 - 124
Chloromethane	25.0	23.9		ug/L		96	68 - 124
Ethylbenzene	25.0	25.3		ug/L		101	77 - 123
Methyl tert-butyl ether	25.0	26.1		ug/L		104	77 - 120
m-Xylene & p-Xylene	25.0	25.3		ug/L		101	76 - 122
Naphthalene	25.0	26.3		ug/L		105	66 - 125
n-Butylbenzene	25.0	25.8		ug/L		103	71 - 128
N-Propylbenzene	25.0	25.3		ug/L		101	75 - 127
o-Xylene	25.0	26.0		ug/L		104	76 - 122
Styrene	25.0	25.6		ug/L		102	80 - 120
Toluene	25.0	25.4		ug/L		102	80 - 122
Xylenes, Total	50.0	51.3		ug/L		103	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: 480-169009-13 MS
Matrix: Water
Analysis Batch: 528085

Client Sample ID: SUPE-W-06C-042120
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	31.2		ug/L		125	73 - 126
1,2,4-Trimethylbenzene	ND		25.0	28.0		ug/L		112	76 - 121
1,3,5-Trimethylbenzene	ND		25.0	28.3		ug/L		113	77 - 121
Benzene	ND		25.0	28.8		ug/L		115	71 - 124
Chloromethane	ND		25.0	28.7		ug/L		115	68 - 124
Ethylbenzene	ND		25.0	28.4		ug/L		113	77 - 123
Methyl tert-butyl ether	ND		25.0	27.5		ug/L		110	77 - 120
m-Xylene & p-Xylene	ND		25.0	28.4		ug/L		113	76 - 122
Naphthalene	ND		25.0	27.8		ug/L		111	66 - 125
n-Butylbenzene	ND		25.0	28.8		ug/L		115	71 - 128
N-Propylbenzene	ND		25.0	28.3		ug/L		113	75 - 127
o-Xylene	ND		25.0	28.3		ug/L		113	76 - 122
Styrene	ND		25.0	27.7		ug/L		111	80 - 120
Toluene	ND		25.0	28.2		ug/L		113	80 - 122
Xylenes, Total	ND		50.0	56.7		ug/L		113	76 - 122

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

Lab Sample ID: 480-169009-13 MSD
Matrix: Water
Analysis Batch: 528085

Client Sample ID: SUPE-W-06C-042120
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	30.4		ug/L		122	73 - 126	3	15
1,2,4-Trimethylbenzene	ND		25.0	28.0		ug/L		112	76 - 121	0	20
1,3,5-Trimethylbenzene	ND		25.0	28.3		ug/L		113	77 - 121	0	20
Benzene	ND		25.0	28.2		ug/L		113	71 - 124	2	13
Chloromethane	ND		25.0	27.2		ug/L		109	68 - 124	5	15
Ethylbenzene	ND		25.0	28.3		ug/L		113	77 - 123	0	15
Methyl tert-butyl ether	ND		25.0	28.0		ug/L		112	77 - 120	2	37
m-Xylene & p-Xylene	ND		25.0	28.3		ug/L		113	76 - 122	0	16
Naphthalene	ND		25.0	29.2		ug/L		117	66 - 125	5	20
n-Butylbenzene	ND		25.0	29.0		ug/L		116	71 - 128	1	15
N-Propylbenzene	ND		25.0	28.0		ug/L		112	75 - 127	1	15
o-Xylene	ND		25.0	28.7		ug/L		115	76 - 122	1	16
Styrene	ND		25.0	27.8		ug/L		111	80 - 120	0	20
Toluene	ND		25.0	28.2		ug/L		113	80 - 122	0	15
Xylenes, Total	ND		50.0	57.0		ug/L		114	76 - 122	1	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: MB 500-539931/1-A
Matrix: Water
Analysis Batch: 540079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539931

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 13:55	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 13:55	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		04/27/20 17:28	04/28/20 13:55	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 13:55	1
1-Methylnaphthalene	ND		2.0	0.50	ug/L		04/27/20 17:28	04/28/20 13:55	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 13:55	1
2,3,4,6-Tetrachlorophenol	ND		5.0	1.5	ug/L		04/27/20 17:28	04/28/20 13:55	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 13:55	1
2,4,6-Trichlorophenol	ND		5.0	1.1	ug/L		04/27/20 17:28	04/28/20 13:55	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 13:55	1
2,4-Dinitrophenol	ND		20	7.4	ug/L		04/27/20 17:28	04/28/20 13:55	1
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		04/27/20 17:28	04/28/20 13:55	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		04/27/20 17:28	04/28/20 13:55	1
3 & 4 Methylphenol	ND		2.0	0.44	ug/L		04/27/20 17:28	04/28/20 13:55	1
2-Chloronaphthalene	ND		2.0	0.34	ug/L		04/27/20 17:28	04/28/20 13:55	1
2-Chlorophenol	ND		5.0	0.80	ug/L		04/27/20 17:28	04/28/20 13:55	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		04/27/20 17:28	04/28/20 13:55	1
2-Methylphenol	ND		2.0	0.31	ug/L		04/27/20 17:28	04/28/20 13:55	1
2-Nitroaniline	ND		5.0	1.1	ug/L		04/27/20 17:28	04/28/20 13:55	1
2-Nitrophenol	ND		10	2.1	ug/L		04/27/20 17:28	04/28/20 13:55	1
3-Nitroaniline	ND		10	2.3	ug/L		04/27/20 17:28	04/28/20 13:55	1
4,6-Dinitro-2-methylphenol	ND		20	4.9	ug/L		04/27/20 17:28	04/28/20 13:55	1
4-Bromophenyl phenyl ether	ND		5.0	0.91	ug/L		04/27/20 17:28	04/28/20 13:55	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		04/27/20 17:28	04/28/20 13:55	1
4-Chloroaniline	ND		10	2.1	ug/L		04/27/20 17:28	04/28/20 13:55	1
4-Chlorophenyl phenyl ether	ND		5.0	0.81	ug/L		04/27/20 17:28	04/28/20 13:55	1
4-Nitroaniline	ND		10	3.9	ug/L		04/27/20 17:28	04/28/20 13:55	1
4-Nitrophenol	ND		20	2.3	ug/L		04/27/20 17:28	04/28/20 13:55	1
Acenaphthene	ND		1.0	0.36	ug/L		04/27/20 17:28	04/28/20 13:55	1
Acenaphthylene	ND		1.0	0.32	ug/L		04/27/20 17:28	04/28/20 13:55	1
Anthracene	ND		1.0	0.32	ug/L		04/27/20 17:28	04/28/20 13:55	1
Benzo[a]pyrene	ND		0.20	0.056	ug/L		04/27/20 17:28	04/28/20 13:55	1
Benzo[b]fluoranthene	ND		0.20	0.058	ug/L		04/27/20 17:28	04/28/20 13:55	1
Benzo[g,h,i]perylene	ND		1.0	0.42	ug/L		04/27/20 17:28	04/28/20 13:55	1
Benzo[k]fluoranthene	ND		0.20	0.074	ug/L		04/27/20 17:28	04/28/20 13:55	1
Benzoic acid	ND		20	4.6	ug/L		04/27/20 17:28	04/28/20 13:55	1
Benzyl alcohol	ND		20	3.1	ug/L		04/27/20 17:28	04/28/20 13:55	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		04/27/20 17:28	04/28/20 13:55	1
Bis(2-chloroethyl)ether	ND		2.0	0.35	ug/L		04/27/20 17:28	04/28/20 13:55	1
Bis(2-ethylhexyl) phthalate	ND		10	2.4	ug/L		04/27/20 17:28	04/28/20 13:55	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		04/27/20 17:28	04/28/20 13:55	1
Chrysene	ND		0.50	0.14	ug/L		04/27/20 17:28	04/28/20 13:55	1
Dibenz(a,h)anthracene	ND		0.30	0.064	ug/L		04/27/20 17:28	04/28/20 13:55	1
Dibenzofuran	ND		2.0	0.35	ug/L		04/27/20 17:28	04/28/20 13:55	1
Diethyl phthalate	ND		2.0	0.44	ug/L		04/27/20 17:28	04/28/20 13:55	1
Dimethyl phthalate	ND		2.0	0.38	ug/L		04/27/20 17:28	04/28/20 13:55	1
Di-n-butyl phthalate	ND		5.0	0.80	ug/L		04/27/20 17:28	04/28/20 13:55	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		04/27/20 17:28	04/28/20 13:55	1

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

Lab Sample ID: MB 500-539931/1-A
Matrix: Water
Analysis Batch: 540079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539931

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,5,6-Tetrachlorophenol	ND		5.0	2.5	ug/L		04/27/20 17:28	04/28/20 13:55	1
Fluoranthene	ND		1.0	0.32	ug/L		04/27/20 17:28	04/28/20 13:55	1
Fluorene	ND		1.0	0.38	ug/L		04/27/20 17:28	04/28/20 13:55	1
Hexachlorobenzene	ND		0.50	0.14	ug/L		04/27/20 17:28	04/28/20 13:55	1
Hexachlorobutadiene	ND		5.0	1.1	ug/L		04/27/20 17:28	04/28/20 13:55	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		04/27/20 17:28	04/28/20 13:55	1
Hexachloroethane	ND		5.0	0.97	ug/L		04/27/20 17:28	04/28/20 13:55	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.084	ug/L		04/27/20 17:28	04/28/20 13:55	1
Isophorone	ND		2.0	0.29	ug/L		04/27/20 17:28	04/28/20 13:55	1
Naphthalene	ND		1.0	0.30	ug/L		04/27/20 17:28	04/28/20 13:55	1
Nitrobenzene	ND		1.0	0.45	ug/L		04/27/20 17:28	04/28/20 13:55	1
N-Nitrosodi-n-propylamine	ND		0.50	0.14	ug/L		04/27/20 17:28	04/28/20 13:55	1
N-Nitrosodiphenylamine	ND		2.0	0.34	ug/L		04/27/20 17:28	04/28/20 13:55	1
Phenol	ND		5.0	0.36	ug/L		04/27/20 17:28	04/28/20 13:55	1
Pyrene	ND		1.0	0.48	ug/L		04/27/20 17:28	04/28/20 13:55	1
2,4-Dimethylphenol	ND		10	3.3	ug/L		04/27/20 17:28	04/28/20 13:55	1
Benzo[a]anthracene	ND		0.20	0.044	ug/L		04/27/20 17:28	04/28/20 13:55	1
Phenanthrene	ND		1.0	0.35	ug/L		04/27/20 17:28	04/28/20 13:55	1
3,3'-Dichlorobenzidine	ND		5.0	0.94	ug/L		04/27/20 17:28	04/28/20 13:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*124*		*40 - 145*	*04/27/20 17:28*	*04/28/20 13:55*	*1*
2-Fluorobiphenyl	*86*		*34 - 110*	*04/27/20 17:28*	*04/28/20 13:55*	*1*
2-Fluorophenol (Surr)	*68*		*27 - 110*	*04/27/20 17:28*	*04/28/20 13:55*	*1*
Nitrobenzene-d5 (Surr)	*79*		*36 - 120*	*04/27/20 17:28*	*04/28/20 13:55*	*1*
Phenol-d5 (Surr)	*29*		*20 - 100*	*04/27/20 17:28*	*04/28/20 13:55*	*1*
Terphenyl-d14 (Surr)	*118*		*40 - 145*	*04/27/20 17:28*	*04/28/20 13:55*	*1*

Lab Sample ID: LCS 500-539931/2-A
Matrix: Water
Analysis Batch: 540079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	40.0	22.7		ug/L		57	26 - 110
1,2-Dichlorobenzene	40.0	21.9		ug/L		55	26 - 110
1,3-Dichlorobenzene	40.0	18.2		ug/L		45	22 - 110
1,4-Dichlorobenzene	40.0	18.9		ug/L		47	23 - 110
1-Methylnaphthalene	40.0	31.4		ug/L		78	38 - 110
bis(chloroisopropyl) ether	40.0	27.9		ug/L		70	38 - 110
2,3,4,6-Tetrachlorophenol	40.0	46.3		ug/L		116	44 - 118
2,4,5-Trichlorophenol	40.0	42.4		ug/L		106	63 - 120
2,4,6-Trichlorophenol	40.0	42.3		ug/L		106	62 - 110
2,4-Dichlorophenol	40.0	41.6		ug/L		104	62 - 110
2,4-Dinitrophenol	80.0	59.3		ug/L		74	37 - 130
2,4-Dinitrotoluene	40.0	44.3		ug/L		111	63 - 122
2,6-Dinitrotoluene	40.0	38.3		ug/L		96	63 - 119
3 & 4 Methylphenol	40.0	29.1		ug/L		73	53 - 110
2-Chloronaphthalene	40.0	34.0		ug/L		85	39 - 110

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

Lab Sample ID: LCS 500-539931/2-A
Matrix: Water
Analysis Batch: 540079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorophenol	40.0	37.6		ug/L		94	59 - 110
2-Methylnaphthalene	40.0	31.4		ug/L		78	34 - 110
2-Methylphenol	40.0	33.9		ug/L		85	53 - 110
2-Nitroaniline	40.0	47.7		ug/L		119	59 - 122
2-Nitrophenol	40.0	38.0		ug/L		95	58 - 110
3-Nitroaniline	40.0	30.3		ug/L		76	47 - 123
4,6-Dinitro-2-methylphenol	80.0	80.8		ug/L		101	50 - 117
4-Bromophenyl phenyl ether	40.0	45.4		ug/L		114	58 - 120
4-Chloro-3-methylphenol	40.0	44.0		ug/L		110	64 - 120
4-Chloroaniline	40.0	34.8		ug/L		87	35 - 128
4-Chlorophenyl phenyl ether	40.0	40.3		ug/L		101	47 - 112
4-Nitroaniline	40.0	22.2		ug/L		55	52 - 147
4-Nitrophenol	80.0	53.1		ug/L		66	20 - 110
Acenaphthene	40.0	38.8		ug/L		97	46 - 110
Acenaphthylene	40.0	41.1		ug/L		103	47 - 110
Anthracene	40.0	46.1	*	ug/L		115	67 - 110
Benzo[a]pyrene	40.0	43.2		ug/L		108	70 - 120
Benzo[b]fluoranthene	40.0	40.6		ug/L		101	69 - 123
Benzo[g,h,i]perylene	40.0	47.6		ug/L		119	70 - 120
Benzo[k]fluoranthene	40.0	39.0		ug/L		98	70 - 120
Benzoic acid	80.0	15.1	J	ug/L		19	10 - 100
Benzyl alcohol	40.0	33.5		ug/L		84	33 - 127
Bis(2-chloroethoxy)methane	40.0	34.4		ug/L		86	60 - 110
Bis(2-chloroethyl)ether	40.0	32.2		ug/L		81	49 - 110
Bis(2-ethylhexyl) phthalate	40.0	40.5		ug/L		101	69 - 120
Butyl benzyl phthalate	40.0	47.7		ug/L		119	68 - 120
Chrysene	40.0	44.6		ug/L		112	68 - 120
Dibenz(a,h)anthracene	40.0	41.1		ug/L		103	70 - 127
Dibenzofuran	40.0	42.1		ug/L		105	51 - 110
Diethyl phthalate	40.0	46.3		ug/L		116	62 - 120
Dimethyl phthalate	40.0	48.5	*	ug/L		121	63 - 120
Di-n-butyl phthalate	40.0	49.6	*	ug/L		124	70 - 120
Di-n-octyl phthalate	40.0	47.4		ug/L		118	70 - 122
Fluoranthene	40.0	49.1	*	ug/L		123	68 - 120
Fluorene	40.0	42.4		ug/L		106	53 - 120
Hexachlorobenzene	40.0	55.0	*	ug/L		137	61 - 120
Hexachlorobutadiene	40.0	16.9		ug/L		42	20 - 100
Hexachlorocyclopentadiene	40.0	17.5	J	ug/L		44	10 - 100
Hexachloroethane	40.0	13.9		ug/L		35	20 - 100
Indeno[1,2,3-cd]pyrene	40.0	43.7		ug/L		109	65 - 133
Isophorone	40.0	41.1		ug/L		103	57 - 110
Naphthalene	40.0	31.7		ug/L		79	36 - 110
Nitrobenzene	40.0	40.1		ug/L		100	53 - 110
N-Nitrosodi-n-propylamine	40.0	37.1		ug/L		93	58 - 110
N-Nitrosodiphenylamine	40.0	44.0		ug/L		110	66 - 110
Pentachlorophenol	80.0	69.0		ug/L		86	23 - 129
Phenol	40.0	16.3		ug/L		41	33 - 100
Pyrene	40.0	42.9		ug/L		107	70 - 110
2,4-Dimethylphenol	40.0	36.3		ug/L		91	51 - 110

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

Lab Sample ID: LCS 500-539931/2-A
Matrix: Water
Analysis Batch: 540079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	40.0	42.9		ug/L		107	70 - 120
Phenanthrene	40.0	45.1		ug/L		113	65 - 120
3,3'-Dichlorobenzidine	40.0	43.9		ug/L		110	60 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*132*		*40 - 145*
2-Fluorobiphenyl	*99*		*34 - 110*
2-Fluorophenol (Surr)	*69*		*27 - 110*
Nitrobenzene-d5 (Surr)	*89*		*36 - 120*
Phenol-d5 (Surr)	*39*		*20 - 100*
Terphenyl-d14 (Surr)	*107*		*40 - 145*

Lab Sample ID: 480-169009-13 MS
Matrix: Water
Analysis Batch: 540079

Client Sample ID: SUPE-W-06C-042120
Prep Type: Total/NA
Prep Batch: 539931

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND	F2	39.7	23.2		ug/L		58	26 - 110
1,2-Dichlorobenzene	ND		39.7	22.0		ug/L		56	26 - 110
1,3-Dichlorobenzene	ND		39.7	18.8		ug/L		47	22 - 110
1,4-Dichlorobenzene	ND		39.7	19.3		ug/L		49	23 - 110
1-Methylnaphthalene	ND		39.7	30.0		ug/L		76	38 - 110
bis(chloroisopropyl) ether	ND		39.7	26.6		ug/L		67	38 - 110
2,3,4,6-Tetrachlorophenol	ND		39.7	45.2		ug/L		114	44 - 118
2,4,5-Trichlorophenol	ND		39.7	42.3		ug/L		107	63 - 120
2,4,6-Trichlorophenol	ND		39.7	40.6		ug/L		102	62 - 110
2,4-Dichlorophenol	ND		39.7	39.9		ug/L		101	62 - 110
2,4-Dinitrophenol	ND		79.3	50.5		ug/L		64	37 - 130
2,4-Dinitrotoluene	ND		39.7	43.2		ug/L		109	63 - 122
2,6-Dinitrotoluene	ND		39.7	38.5		ug/L		97	63 - 119
3 & 4 Methylphenol	ND		39.7	25.6		ug/L		65	53 - 110
2-Chloronaphthalene	ND		39.7	32.2		ug/L		81	39 - 110
2-Chlorophenol	ND		39.7	34.6		ug/L		87	59 - 110
2-Methylnaphthalene	ND	F2	39.7	29.9		ug/L		75	34 - 110
2-Methylphenol	ND		39.7	31.1		ug/L		79	53 - 110
2-Nitroaniline	ND		39.7	46.7		ug/L		118	59 - 122
2-Nitrophenol	ND		39.7	37.4		ug/L		94	58 - 110
3-Nitroaniline	ND		39.7	31.7		ug/L		80	47 - 123
4,6-Dinitro-2-methylphenol	ND		79.3	70.2		ug/L		89	50 - 117
4-Bromophenyl phenyl ether	ND		39.7	43.5		ug/L		110	58 - 120
4-Chloro-3-methylphenol	ND		39.7	42.4		ug/L		107	64 - 120
4-Chloroaniline	ND		39.7	34.0		ug/L		86	35 - 128
4-Chlorophenyl phenyl ether	ND		39.7	38.7		ug/L		98	47 - 112
4-Nitroaniline	ND		39.7	27.1		ug/L		68	52 - 147
4-Nitrophenol	ND		79.3	47.4		ug/L		60	20 - 110
Acenaphthene	ND		39.7	36.6		ug/L		92	46 - 110
Acenaphthylene	ND		39.7	39.3		ug/L		99	47 - 110
Anthracene	ND	F1 *	39.7	45.1	F1	ug/L		114	67 - 110

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

Lab Sample ID: 480-169009-13 MS
Matrix: Water
Analysis Batch: 540079

Client Sample ID: SUPE-W-06C-042120
Prep Type: Total/NA
Prep Batch: 539931

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	ND		39.7	41.7		ug/L		105	70 - 120
Benzo[b]fluoranthene	ND		39.7	40.1		ug/L		101	69 - 123
Benzo[g,h,i]perylene	ND		39.7	45.5		ug/L		115	70 - 120
Benzo[k]fluoranthene	ND		39.7	39.2		ug/L		99	70 - 120
Benzoic acid	ND		79.3	21.4		ug/L		27	10 - 100
Benzyl alcohol	ND		39.7	30.8		ug/L		78	33 - 127
Bis(2-chloroethoxy)methane	ND		39.7	32.2		ug/L		81	60 - 110
Bis(2-chloroethyl)ether	ND		39.7	29.9		ug/L		75	49 - 110
Bis(2-ethylhexyl) phthalate	ND		39.7	39.2		ug/L		99	69 - 120
Butyl benzyl phthalate	ND		39.7	46.1		ug/L		116	68 - 120
Chrysene	ND		39.7	43.7		ug/L		110	68 - 120
Dibenz(a,h)anthracene	ND		39.7	39.2		ug/L		99	70 - 127
Dibenzofuran	ND		39.7	40.5		ug/L		102	51 - 110
Diethyl phthalate	ND		39.7	44.6		ug/L		112	62 - 120
Dimethyl phthalate	ND	*	39.7	46.7		ug/L		118	63 - 120
Di-n-butyl phthalate	ND	*	39.7	47.6		ug/L		120	70 - 120
Di-n-octyl phthalate	ND		39.7	45.9		ug/L		116	70 - 122
Fluoranthene	ND	*	39.7	47.6		ug/L		120	68 - 120
Fluorene	ND		39.7	39.7		ug/L		100	53 - 120
Hexachlorobenzene	ND	F1 *	39.7	53.6	F1	ug/L		135	61 - 120
Hexachlorobutadiene	ND	F2	39.7	18.9		ug/L		48	20 - 100
Hexachlorocyclopentadiene	ND	F2	39.7	18.2	J	ug/L		46	10 - 100
Hexachloroethane	ND	F2	39.7	16.3		ug/L		41	20 - 100
Indeno[1,2,3-cd]pyrene	ND		39.7	41.7		ug/L		105	65 - 133
Isophorone	ND		39.7	38.3		ug/L		96	57 - 110
Naphthalene	ND		39.7	30.6		ug/L		77	36 - 110
Nitrobenzene	ND		39.7	39.1		ug/L		99	53 - 110
N-Nitrosodi-n-propylamine	ND		39.7	34.6		ug/L		87	58 - 110
N-Nitrosodiphenylamine	ND		39.7	42.1		ug/L		106	66 - 110
Pentachlorophenol	ND		79.3	70.2		ug/L		89	23 - 129
Phenol	ND		39.7	13.5		ug/L		34	33 - 100
Pyrene	ND		39.7	41.0		ug/L		103	70 - 110
2,4-Dimethylphenol	ND		39.7	34.6		ug/L		87	51 - 110
Benzo[a]anthracene	ND		39.7	40.7		ug/L		103	70 - 120
Phenanthrene	ND		39.7	43.2		ug/L		109	65 - 120
3,3'-Dichlorobenzidine	ND		39.7	42.8		ug/L		108	60 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*134*		*40 - 145*
2-Fluorobiphenyl	*103*		*34 - 110*
2-Fluorophenol (Surr)	*62*		*27 - 110*
Nitrobenzene-d5 (Surr)	*87*		*36 - 120*
Phenol-d5 (Surr)	*34*		*20 - 100*
Terphenyl-d14 (Surr)	*102*		*40 - 145*

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

Lab Sample ID: 480-169009-13 MSD
Matrix: Water
Analysis Batch: 540079

Client Sample ID: SUPE-W-06C-042120
Prep Type: Total/NA
Prep Batch: 539931

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND	F2	39.6	17.8	F2	ug/L		45	26 - 110	26	20
1,2-Dichlorobenzene	ND		39.6	18.3		ug/L		46	26 - 110	19	20
1,3-Dichlorobenzene	ND		39.6	15.7		ug/L		40	22 - 110	18	20
1,4-Dichlorobenzene	ND		39.6	16.2		ug/L		41	23 - 110	17	20
1-Methylnaphthalene	ND		39.6	24.5		ug/L		62	38 - 110	20	20
bis(chloroisopropyl) ether	ND		39.6	25.5		ug/L		65	38 - 110	4	20
2,3,4,6-Tetrachlorophenol	ND		39.6	45.0		ug/L		114	44 - 118	0	20
2,4,5-Trichlorophenol	ND		39.6	42.6		ug/L		108	63 - 120	1	20
2,4,6-Trichlorophenol	ND		39.6	41.5		ug/L		105	62 - 110	2	20
2,4-Dichlorophenol	ND		39.6	38.8		ug/L		98	62 - 110	3	20
2,4-Dinitrophenol	ND		79.2	54.5		ug/L		69	37 - 130	8	20
2,4-Dinitrotoluene	ND		39.6	43.0		ug/L		109	63 - 122	0	20
2,6-Dinitrotoluene	ND		39.6	37.6		ug/L		95	63 - 119	2	20
3 & 4 Methylphenol	ND		39.6	26.0		ug/L		66	53 - 110	1	20
2-Chloronaphthalene	ND		39.6	26.4		ug/L		67	39 - 110	20	20
2-Chlorophenol	ND		39.6	35.2		ug/L		89	59 - 110	2	20
2-Methylnaphthalene	ND	F2	39.6	24.1	F2	ug/L		61	34 - 110	22	20
2-Methylphenol	ND		39.6	30.9		ug/L		78	53 - 110	1	20
2-Nitroaniline	ND		39.6	45.5		ug/L		115	59 - 122	3	20
2-Nitrophenol	ND		39.6	36.2		ug/L		91	58 - 110	3	20
3-Nitroaniline	ND		39.6	32.4		ug/L		82	47 - 123	2	20
4,6-Dinitro-2-methylphenol	ND		79.2	71.8		ug/L		91	50 - 117	2	20
4-Bromophenyl phenyl ether	ND		39.6	40.4		ug/L		102	58 - 120	7	20
4-Chloro-3-methylphenol	ND		39.6	41.4		ug/L		105	64 - 120	2	20
4-Chloroaniline	ND		39.6	33.9		ug/L		86	35 - 128	0	20
4-Chlorophenyl phenyl ether	ND		39.6	34.8		ug/L		88	47 - 112	11	20
4-Nitroaniline	ND		39.6	23.8		ug/L		60	52 - 147	13	20
4-Nitrophenol	ND		79.2	49.6		ug/L		63	20 - 110	5	20
Acenaphthene	ND		39.6	30.9		ug/L		78	46 - 110	17	20
Acenaphthylene	ND		39.6	35.1		ug/L		89	47 - 110	11	20
Anthracene	ND	F1 *	39.6	43.5		ug/L		110	67 - 110	4	20
Benzo[a]pyrene	ND		39.6	41.1		ug/L		104	70 - 120	2	20
Benzo[b]fluoranthene	ND		39.6	40.0		ug/L		101	69 - 123	0	20
Benzo[g,h,i]perylene	ND		39.6	44.3		ug/L		112	70 - 120	3	20
Benzo[k]fluoranthene	ND		39.6	37.5		ug/L		95	70 - 120	4	20
Benzoic acid	ND		79.2	24.9		ug/L		31	10 - 100	15	20
Benzyl alcohol	ND		39.6	31.6		ug/L		80	33 - 127	3	20
Bis(2-chloroethoxy)methane	ND		39.6	31.7		ug/L		80	60 - 110	2	20
Bis(2-chloroethyl)ether	ND		39.6	29.9		ug/L		76	49 - 110	0	20
Bis(2-ethylhexyl) phthalate	ND		39.6	37.9		ug/L		96	69 - 120	3	20
Butyl benzyl phthalate	ND		39.6	44.9		ug/L		113	68 - 120	3	20
Chrysene	ND		39.6	42.8		ug/L		108	68 - 120	2	20
Dibenz(a,h)anthracene	ND		39.6	37.3		ug/L		94	70 - 127	5	20
Dibenzofuran	ND		39.6	35.4		ug/L		89	51 - 110	13	20
Diethyl phthalate	ND		39.6	44.9		ug/L		113	62 - 120	1	20
Dimethyl phthalate	ND	*	39.6	46.2		ug/L		117	63 - 120	1	20
Di-n-butyl phthalate	ND	*	39.6	47.0		ug/L		119	70 - 120	1	20
Di-n-octyl phthalate	ND		39.6	44.7		ug/L		113	70 - 122	3	20

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

Lab Sample ID: 480-169009-13 MSD
Matrix: Water
Analysis Batch: 540079

Client Sample ID: SUPE-W-06C-042120
Prep Type: Total/NA
Prep Batch: 539931

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene	ND	*	39.6	47.0		ug/L		119	68 - 120	1	20
Fluorene	ND		39.6	36.6		ug/L		92	53 - 120	8	20
Hexachlorobenzene	ND	F1 *	39.6	51.2	F1	ug/L		129	61 - 120	5	20
Hexachlorobutadiene	ND	F2	39.6	14.5	F2	ug/L		37	20 - 100	26	20
Hexachlorocyclopentadiene	ND	F2	39.6	13.4	J F2	ug/L		34	10 - 100	30	20
Hexachloroethane	ND	F2	39.6	13.2	F2	ug/L		33	20 - 100	21	20
Indeno[1,2,3-cd]pyrene	ND		39.6	41.1		ug/L		104	65 - 133	2	20
Isophorone	ND		39.6	38.0		ug/L		96	57 - 110	1	20
Naphthalene	ND		39.6	25.3		ug/L		64	36 - 110	19	20
Nitrobenzene	ND		39.6	38.1		ug/L		96	53 - 110	3	20
N-Nitrosodi-n-propylamine	ND		39.6	33.8		ug/L		85	58 - 110	2	20
N-Nitrosodiphenylamine	ND		39.6	41.1		ug/L		104	66 - 110	3	20
Pentachlorophenol	ND		79.2	70.2		ug/L		89	23 - 129	0	20
Phenol	ND		39.6	14.2		ug/L		36	33 - 100	5	20
Pyrene	ND		39.6	40.8		ug/L		103	70 - 110	0	20
2,4-Dimethylphenol	ND		39.6	33.5		ug/L		85	51 - 110	3	20
Benzo[a]anthracene	ND		39.6	40.8		ug/L		103	70 - 120	0	20
Phenanthrene	ND		39.6	41.5		ug/L		105	65 - 120	4	20
3,3'-Dichlorobenzidine	ND		39.6	40.8		ug/L		103	60 - 132	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*129*		*40 - 145*
2-Fluorobiphenyl	*100*		*34 - 110*
2-Fluorophenol (Surr)	*64*		*27 - 110*
Nitrobenzene-d5 (Surr)	*84*		*36 - 120*
Phenol-d5 (Surr)	*33*		*20 - 100*
Terphenyl-d14 (Surr)	*100*		*40 - 145*

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

Lab Sample ID: MB 480-528528/1-A
Matrix: Water
Analysis Batch: 528712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 528528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		04/28/20 15:23	04/29/20 15:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*24 - 146*	*04/28/20 15:23*	*04/29/20 15:43*	*1*
2-Fluorobiphenyl	*101*		*37 - 120*	*04/28/20 15:23*	*04/29/20 15:43*	*1*
2-Fluorophenol (Surr)	*52*		*10 - 120*	*04/28/20 15:23*	*04/29/20 15:43*	*1*
Nitrobenzene-d5 (Surr)	*87*		*26 - 120*	*04/28/20 15:23*	*04/29/20 15:43*	*1*
Phenol-d5 (Surr)	*36*		*11 - 120*	*04/28/20 15:23*	*04/29/20 15:43*	*1*
p-Terphenyl-d14	*113*		*64 - 127*	*04/28/20 15:23*	*04/29/20 15:43*	*1*

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

Lab Sample ID: LCS 480-528528/2-A
Matrix: Water
Analysis Batch: 528712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 528528

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Pentachlorophenol			16.0	17.3		ug/L		108	10 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*115*		*24 - 146*
2-Fluorobiphenyl	*104*		*37 - 120*
2-Fluorophenol (Surr)	*57*		*10 - 120*
Nitrobenzene-d5 (Surr)	*95*		*26 - 120*
Phenol-d5 (Surr)	*40*		*11 - 120*
p-Terphenyl-d14	*114*		*64 - 127*

Lab Sample ID: 480-169009-13 MS
Matrix: Water
Analysis Batch: 528712

Client Sample ID: SUPE-W-06C-042120
Prep Type: Total/NA
Prep Batch: 528528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Pentachlorophenol	ND		16.0	17.5		ug/L		109	23 - 149		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*116*		*24 - 146*
2-Fluorobiphenyl	*106*		*37 - 120*
2-Fluorophenol (Surr)	*56*		*10 - 120*
Nitrobenzene-d5 (Surr)	*99*		*26 - 120*
Phenol-d5 (Surr)	*40*		*11 - 120*
p-Terphenyl-d14	*94*		*64 - 127*

Lab Sample ID: 480-169009-13 MSD
Matrix: Water
Analysis Batch: 528712

Client Sample ID: SUPE-W-06C-042120
Prep Type: Total/NA
Prep Batch: 528528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pentachlorophenol	ND		16.0	17.4		ug/L		109	23 - 149	0	37

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*114*		*24 - 146*
2-Fluorobiphenyl	*103*		*37 - 120*
2-Fluorophenol (Surr)	*56*		*10 - 120*
Nitrobenzene-d5 (Surr)	*96*		*26 - 120*
Phenol-d5 (Surr)	*39*		*11 - 120*
p-Terphenyl-d14	*93*		*64 - 127*

Lab Sample ID: MB 480-528777/1-A
Matrix: Water
Analysis Batch: 528988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 528777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		04/29/20 15:30	04/30/20 14:51	1

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

Lab Sample ID: MB 480-528777/1-A
Matrix: Water
Analysis Batch: 528988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 528777

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		24 - 146	04/29/20 15:30	04/30/20 14:51	1
2-Fluorobiphenyl	98		37 - 120	04/29/20 15:30	04/30/20 14:51	1
2-Fluorophenol (Surr)	50		10 - 120	04/29/20 15:30	04/30/20 14:51	1
Nitrobenzene-d5 (Surr)	83		26 - 120	04/29/20 15:30	04/30/20 14:51	1
Phenol-d5 (Surr)	34		11 - 120	04/29/20 15:30	04/30/20 14:51	1
p-Terphenyl-d14	117		64 - 127	04/29/20 15:30	04/30/20 14:51	1

Lab Sample ID: LCS 480-528777/2-A
Matrix: Water
Analysis Batch: 528988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 528777

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	16.0	16.5		ug/L		103	10 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	107		24 - 146
2-Fluorobiphenyl	93		37 - 120
2-Fluorophenol (Surr)	50		10 - 120
Nitrobenzene-d5 (Surr)	87		26 - 120
Phenol-d5 (Surr)	36		11 - 120
p-Terphenyl-d14	105		64 - 127

Lab Sample ID: LCSD 480-528777/3-A
Matrix: Water
Analysis Batch: 528988

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 528777

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pentachlorophenol	16.0	17.8		ug/L		111	10 - 131	8	171

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	112		24 - 146
2-Fluorobiphenyl	98		37 - 120
2-Fluorophenol (Surr)	52		10 - 120
Nitrobenzene-d5 (Surr)	92		26 - 120
Phenol-d5 (Surr)	37		11 - 120
p-Terphenyl-d14	109		64 - 127

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

Lab Sample ID: MB 140-39332/18-A
Matrix: Water
Analysis Batch: 39381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39332

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.21	pg/L		04/28/20 11:57	04/30/20 12:54	1
Total TCDD	ND		10	0.25	pg/L		04/28/20 11:57	04/30/20 12:54	1
1,2,3,7,8-PeCDD	ND		50	0.36	pg/L		04/28/20 11:57	04/30/20 12:54	1
Total PeCDD	ND		50	0.36	pg/L		04/28/20 11:57	04/30/20 12:54	1

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

Lab Sample ID: MB 140-39332/18-A
Matrix: Water
Analysis Batch: 39381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39332

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDD	ND		50	0.20	pg/L		04/28/20 11:57	04/30/20 12:54	1
1,2,3,6,7,8-HxCDD	0.904	J I	50	0.20	pg/L		04/28/20 11:57	04/30/20 12:54	1
1,2,3,7,8,9-HxCDD	1.03	J I	50	0.19	pg/L		04/28/20 11:57	04/30/20 12:54	1
Total HxCDD	3.36	J I	50	0.19	pg/L		04/28/20 11:57	04/30/20 12:54	1
1,2,3,4,6,7,8-HpCDD	1.54	J I	50	0.14	pg/L		04/28/20 11:57	04/30/20 12:54	1
Total HpCDD	2.24	J I	50	0.14	pg/L		04/28/20 11:57	04/30/20 12:54	1
OCDD	9.83	J	100	0.14	pg/L		04/28/20 11:57	04/30/20 12:54	1
2,3,7,8-TCDF	ND		10	0.13	pg/L		04/28/20 11:57	04/30/20 12:54	1
Total TCDF	ND		10	0.13	pg/L		04/28/20 11:57	04/30/20 12:54	1
1,2,3,7,8-PeCDF	0.830	J	50	0.32	pg/L		04/28/20 11:57	04/30/20 12:54	1
2,3,4,7,8-PeCDF	ND		50	0.27	pg/L		04/28/20 11:57	04/30/20 12:54	1
Total PeCDF	0.830	J	50	0.29	pg/L		04/28/20 11:57	04/30/20 12:54	1
1,2,3,4,7,8-HxCDF	0.802	J I	50	0.29	pg/L		04/28/20 11:57	04/30/20 12:54	1
1,2,3,6,7,8-HxCDF	0.661	J I	50	0.29	pg/L		04/28/20 11:57	04/30/20 12:54	1
2,3,4,6,7,8-HxCDF	1.11	J I	50	0.28	pg/L		04/28/20 11:57	04/30/20 12:54	1
1,2,3,7,8,9-HxCDF	0.808	J	50	0.28	pg/L		04/28/20 11:57	04/30/20 12:54	1
Total HxCDF	3.38	J I	50	0.28	pg/L		04/28/20 11:57	04/30/20 12:54	1
1,2,3,4,6,7,8-HpCDF	1.17	J I	50	0.13	pg/L		04/28/20 11:57	04/30/20 12:54	1
1,2,3,4,7,8,9-HpCDF	0.894	J	50	0.17	pg/L		04/28/20 11:57	04/30/20 12:54	1
Total HpCDF	2.07	J I	50	0.15	pg/L		04/28/20 11:57	04/30/20 12:54	1
OCDF	4.74	J	100	0.12	pg/L		04/28/20 11:57	04/30/20 12:54	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*68*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-1,2,3,7,8-PeCDD	*71*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-1,2,3,4,7,8-HxCDD	*71*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-1,2,3,6,7,8-HxCDD	*65*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*84*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-OCDD	*68*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-2,3,7,8-TCDF	*72*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-1,2,3,7,8-PeCDF	*70*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-2,3,4,7,8-PeCDF	*67*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-1,2,3,4,7,8-HxCDF	*69*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-1,2,3,6,7,8-HxCDF	*65*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-2,3,4,6,7,8-HxCDF	*72*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-1,2,3,7,8,9-HxCDF	*76*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*73*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*87*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*
13C-OCDF	*71*		*40 - 135*	*04/28/20 11:57*	*04/30/20 12:54*	*1*

Lab Sample ID: LCS 140-39332/17-A
Matrix: Water
Analysis Batch: 39381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	223		pg/L		111	77 - 127
1,2,3,7,8-PeCDD	1000	1060		pg/L		106	78 - 128
1,2,3,4,7,8-HxCDD	1000	1030		pg/L		103	73 - 123
1,2,3,6,7,8-HxCDD	1000	1060		pg/L		106	72 - 127

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

Lab Sample ID: LCS 140-39332/17-A
Matrix: Water
Analysis Batch: 39381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39332

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,3,7,8,9-HxCDD			1000	1180		pg/L		118	76 - 126		
1,2,3,4,6,7,8-HpCDD			1000	958		pg/L		96	73 - 123		
OCDD			2000	1910		pg/L		96	75 - 125		
2,3,7,8-TCDF			200	213		pg/L		106	74 - 124		
1,2,3,7,8-PeCDF			1000	982		pg/L		98	74 - 124		
2,3,4,7,8-PeCDF			1000	1050		pg/L		105	74 - 124		
1,2,3,4,7,8-HxCDF			1000	1020		pg/L		102	75 - 125		
1,2,3,6,7,8-HxCDF			1000	1010		pg/L		101	75 - 125		
2,3,4,6,7,8-HxCDF			1000	1050		pg/L		105	76 - 126		
1,2,3,7,8,9-HxCDF			1000	975		pg/L		98	76 - 126		
1,2,3,4,6,7,8-HpCDF			1000	996		pg/L		100	71 - 121		
1,2,3,4,7,8,9-HpCDF			1000	1000		pg/L		100	73 - 123		
OCDF			2000	1700		pg/L		85	68 - 132		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*59*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*66*		*40 - 135*
13C-1,2,3,4,7,8-HxCDD	*69*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*67*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*93*		*40 - 135*
13C-OCDD	*77*		*40 - 135*
13C-2,3,7,8-TCDF	*62*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*65*		*40 - 135*
13C-2,3,4,7,8-PeCDF	*59*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*69*		*40 - 135*
13C-1,2,3,6,7,8-HxCDF	*64*		*40 - 135*
13C-2,3,4,6,7,8-HxCDF	*68*		*40 - 135*
13C-1,2,3,7,8,9-HxCDF	*77*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*78*		*40 - 135*
13C-1,2,3,4,7,8,9-HpCDF	*93*		*40 - 135*
13C-OCDF	*81*		*40 - 135*

Lab Sample ID: 480-169009-13 MS
Matrix: Water
Analysis Batch: 39398

Client Sample ID: SUPE-W-06C-042120
Prep Type: Total/NA
Prep Batch: 39332

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,3,7,8-TCDD	ND		205	232		pg/L		113	77 - 127		
1,2,3,7,8-PeCDD	ND		1030	1050		pg/L		103	78 - 128		
1,2,3,4,7,8-HxCDD	ND		1030	1070		pg/L		105	73 - 123		
1,2,3,6,7,8-HxCDD	0.35	J I B	1030	1030		pg/L		101	72 - 127		
1,2,3,7,8,9-HxCDD	0.36	J I B	1030	1200		pg/L		117	76 - 126		
1,2,3,4,6,7,8-HpCDD	1.5	J I B	1030	970		pg/L		94	73 - 123		
OCDD	12	J B	2050	1920		pg/L		93	75 - 125		
2,3,7,8-TCDF	ND		205	217		pg/L		106	74 - 124		
1,2,3,7,8-PeCDF	ND		1030	999		pg/L		97	74 - 124		
2,3,4,7,8-PeCDF	ND		1030	1040		pg/L		102	74 - 124		
1,2,3,4,7,8-HxCDF	ND		1030	1020		pg/L		100	75 - 125		
1,2,3,6,7,8-HxCDF	ND		1030	1010		pg/L		99	75 - 125		

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

Lab Sample ID: 480-169009-13 MS
Client Sample ID: SUPE-W-06C-042120
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 39398
Prep Batch: 39332

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,4,6,7,8-HxCDF	ND		1030	1070		pg/L		104	76 - 126
1,2,3,7,8,9-HxCDF	ND		1030	1010		pg/L		99	76 - 126
1,2,3,4,6,7,8-HpCDF	ND		1030	1040		pg/L		101	71 - 121
1,2,3,4,7,8,9-HpCDF	ND		1030	1030		pg/L		100	73 - 123
OCDF	1.7	J I B	2050	1690		pg/L		82	49 - 134

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*66*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*71*		*40 - 135*
13C-1,2,3,4,7,8-HxCDD	*67*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*69*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*92*		*40 - 135*
13C-OCDD	*79*		*40 - 135*
13C-2,3,7,8-TCDF	*69*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*72*		*40 - 135*
13C-2,3,4,7,8-PeCDF	*66*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*71*		*40 - 135*
13C-1,2,3,6,7,8-HxCDF	*64*		*40 - 135*
13C-2,3,4,6,7,8-HxCDF	*70*		*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	*93*		*40 - 135*
13C-OCDF	*83*		*40 - 135*

Lab Sample ID: 480-169009-13 MSD
Client Sample ID: SUPE-W-06C-042120
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 39398
Prep Batch: 39332

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD	ND		200	226		pg/L		113	77 - 127	2	15
1,2,3,7,8-PeCDD	ND		1000	1030		pg/L		103	78 - 128	2	15
1,2,3,4,7,8-HxCDD	ND		1000	1030		pg/L		103	73 - 123	4	15
1,2,3,6,7,8-HxCDD	0.35	J I B	1000	1050		pg/L		105	72 - 127	2	15
1,2,3,7,8,9-HxCDD	0.36	J I B	1000	1150		pg/L		115	76 - 126	5	15
1,2,3,4,6,7,8-HpCDD	1.5	J I B	1000	944		pg/L		94	73 - 123	3	15
OCDD	12	J B	2000	1950		pg/L		97	75 - 125	2	15
2,3,7,8-TCDF	ND		200	215		pg/L		108	74 - 124	1	15
1,2,3,7,8-PeCDF	ND		1000	983		pg/L		98	74 - 124	2	15
2,3,4,7,8-PeCDF	ND		1000	1030		pg/L		103	74 - 124	1	15
1,2,3,4,7,8-HxCDF	ND		1000	1010		pg/L		101	75 - 125	1	15
1,2,3,6,7,8-HxCDF	ND		1000	975		pg/L		97	75 - 125	4	15
2,3,4,6,7,8-HxCDF	ND		1000	1060		pg/L		106	76 - 126	0	15
1,2,3,7,8,9-HxCDF	ND		1000	1020		pg/L		102	76 - 126	1	15
1,2,3,4,6,7,8-HpCDF	ND		1000	1020		pg/L		102	71 - 121	2	15
1,2,3,4,7,8,9-HpCDF	ND		1000	1010		pg/L		101	73 - 123	2	15
OCDF	1.7	J I B	2000	1690		pg/L		84	49 - 134	0	15

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*64*		*40 - 135*

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

Lab Sample ID: 480-169009-13 MSD
Matrix: Water
Analysis Batch: 39398

Client Sample ID: SUPE-W-06C-042120
Prep Type: Total/NA
Prep Batch: 39332

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C-1,2,3,7,8-PeCDD	71		40 - 135
13C-1,2,3,4,7,8-HxCDD	70		40 - 135
13C-1,2,3,6,7,8-HxCDD	71		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	93		40 - 135
13C-OCDD	75		40 - 135
13C-2,3,7,8-TCDF	68		40 - 135
13C-1,2,3,7,8-PeCDF	68		40 - 135
13C-2,3,4,7,8-PeCDF	64		40 - 135
13C-1,2,3,4,7,8-HxCDF	73		40 - 135
13C-1,2,3,6,7,8-HxCDF	68		40 - 135
13C-2,3,4,6,7,8-HxCDF	71		40 - 135
13C-1,2,3,7,8,9-HxCDF	82		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	78		40 - 135
13C-1,2,3,4,7,8,9-HpCDF	94		40 - 135
13C-OCDF	82		40 - 135

GC/MS VOA

Analysis Batch: 528085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-169009-1	SUPE-M99-A-042120	Total/NA	Water	8260C	
480-169009-2	SUPE-TB-01-042220	Total/NA	Water	8260C	
480-169009-3	SUPE-W-28C-042220	Total/NA	Water	8260C	
480-169009-4	SUPE-W-12A-042220	Total/NA	Water	8260C	
480-169009-6	SUPE-W-04AR2-042220	Total/NA	Water	8260C	
480-169009-7	SUPE-EB-01-042220	Total/NA	Water	8260C	
480-169009-8	SUPE-W-30C-042120	Total/NA	Water	8260C	
480-169009-9	SUPE-W-12CR-042220	Total/NA	Water	8260C	
480-169009-10	SUPE-W-30A-042220	Total/NA	Water	8260C	
480-169009-11	SUPE-W-06A-042120	Total/NA	Water	8260C	
480-169009-12	SUPE-W-10AR2-042220	Total/NA	Water	8260C	
480-169009-13	SUPE-W-06C-042120	Total/NA	Water	8260C	
MB 480-528085/9	Method Blank	Total/NA	Water	8260C	
LCS 480-528085/6	Lab Control Sample	Total/NA	Water	8260C	
480-169009-13 MS	SUPE-W-06C-042120	Total/NA	Water	8260C	
480-169009-13 MSD	SUPE-W-06C-042120	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 528528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-169009-10	SUPE-W-30A-042220	Total/NA	Water	3510C	
480-169009-11	SUPE-W-06A-042120	Total/NA	Water	3510C	
480-169009-12	SUPE-W-10AR2-042220	Total/NA	Water	3510C	
480-169009-13	SUPE-W-06C-042120	Total/NA	Water	3510C	
MB 480-528528/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-528528/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-169009-13 MS	SUPE-W-06C-042120	Total/NA	Water	3510C	
480-169009-13 MSD	SUPE-W-06C-042120	Total/NA	Water	3510C	

Analysis Batch: 528712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-169009-10	SUPE-W-30A-042220	Total/NA	Water	8270D LL	528528
480-169009-11	SUPE-W-06A-042120	Total/NA	Water	8270D LL	528528
480-169009-12	SUPE-W-10AR2-042220	Total/NA	Water	8270D LL	528528
480-169009-13	SUPE-W-06C-042120	Total/NA	Water	8270D LL	528528
MB 480-528528/1-A	Method Blank	Total/NA	Water	8270D LL	528528
LCS 480-528528/2-A	Lab Control Sample	Total/NA	Water	8270D LL	528528
480-169009-13 MS	SUPE-W-06C-042120	Total/NA	Water	8270D LL	528528
480-169009-13 MSD	SUPE-W-06C-042120	Total/NA	Water	8270D LL	528528

Prep Batch: 528777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-169009-1	SUPE-M99-A-042120	Total/NA	Water	3510C	
480-169009-3	SUPE-W-28C-042220	Total/NA	Water	3510C	
480-169009-4	SUPE-W-12A-042220	Total/NA	Water	3510C	
480-169009-5	SUPE-W-18D-042220	Total/NA	Water	3510C	
480-169009-6	SUPE-W-04AR2-042220	Total/NA	Water	3510C	
480-169009-7	SUPE-EB-01-042220	Total/NA	Water	3510C	
480-169009-8	SUPE-W-30C-042120	Total/NA	Water	3510C	
480-169009-9	SUPE-W-12CR-042220	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 528777 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-528777/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-528777/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-528777/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 528988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-169009-1	SUPE-M99-A-042120	Total/NA	Water	8270D LL	528777
480-169009-3	SUPE-W-28C-042220	Total/NA	Water	8270D LL	528777
480-169009-4	SUPE-W-12A-042220	Total/NA	Water	8270D LL	528777
480-169009-5	SUPE-W-18D-042220	Total/NA	Water	8270D LL	528777
480-169009-6	SUPE-W-04AR2-042220	Total/NA	Water	8270D LL	528777
480-169009-7	SUPE-EB-01-042220	Total/NA	Water	8270D LL	528777
480-169009-8	SUPE-W-30C-042120	Total/NA	Water	8270D LL	528777
480-169009-9	SUPE-W-12CR-042220	Total/NA	Water	8270D LL	528777
MB 480-528777/1-A	Method Blank	Total/NA	Water	8270D LL	528777
LCS 480-528777/2-A	Lab Control Sample	Total/NA	Water	8270D LL	528777
LCSD 480-528777/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	528777

Prep Batch: 539931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-169009-1	SUPE-M99-A-042120	Total/NA	Water	3510C	
480-169009-3	SUPE-W-28C-042220	Total/NA	Water	3510C	
480-169009-4	SUPE-W-12A-042220	Total/NA	Water	3510C	
480-169009-5	SUPE-W-18D-042220	Total/NA	Water	3510C	
480-169009-6	SUPE-W-04AR2-042220	Total/NA	Water	3510C	
480-169009-7	SUPE-EB-01-042220	Total/NA	Water	3510C	
480-169009-8	SUPE-W-30C-042120	Total/NA	Water	3510C	
480-169009-9	SUPE-W-12CR-042220	Total/NA	Water	3510C	
480-169009-10	SUPE-W-30A-042220	Total/NA	Water	3510C	
480-169009-11	SUPE-W-06A-042120	Total/NA	Water	3510C	
480-169009-12 - DL	SUPE-W-10AR2-042220	Total/NA	Water	3510C	
480-169009-12	SUPE-W-10AR2-042220	Total/NA	Water	3510C	
480-169009-13	SUPE-W-06C-042120	Total/NA	Water	3510C	
MB 500-539931/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-539931/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-169009-13 MS	SUPE-W-06C-042120	Total/NA	Water	3510C	
480-169009-13 MSD	SUPE-W-06C-042120	Total/NA	Water	3510C	

Analysis Batch: 540079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-169009-1	SUPE-M99-A-042120	Total/NA	Water	8270D	539931
480-169009-3	SUPE-W-28C-042220	Total/NA	Water	8270D	539931
480-169009-4	SUPE-W-12A-042220	Total/NA	Water	8270D	539931
480-169009-5	SUPE-W-18D-042220	Total/NA	Water	8270D	539931
480-169009-6	SUPE-W-04AR2-042220	Total/NA	Water	8270D	539931
480-169009-7	SUPE-EB-01-042220	Total/NA	Water	8270D	539931
480-169009-8	SUPE-W-30C-042120	Total/NA	Water	8270D	539931
480-169009-9	SUPE-W-12CR-042220	Total/NA	Water	8270D	539931
480-169009-10	SUPE-W-30A-042220	Total/NA	Water	8270D	539931
480-169009-11	SUPE-W-06A-042120	Total/NA	Water	8270D	539931
480-169009-12	SUPE-W-10AR2-042220	Total/NA	Water	8270D	539931

GC/MS Semi VOA (Continued)

Analysis Batch: 540079 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-169009-12 - DL	SUPE-W-10AR2-042220	Total/NA	Water	8270D	539931
480-169009-13	SUPE-W-06C-042120	Total/NA	Water	8270D	539931
MB 500-539931/1-A	Method Blank	Total/NA	Water	8270D	539931
LCS 500-539931/2-A	Lab Control Sample	Total/NA	Water	8270D	539931
480-169009-13 MS	SUPE-W-06C-042120	Total/NA	Water	8270D	539931
480-169009-13 MSD	SUPE-W-06C-042120	Total/NA	Water	8270D	539931

Specialty Organics

Prep Batch: 39332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-169009-1	SUPE-M99-A-042120	Total/NA	Water	8290	
480-169009-3	SUPE-W-28C-042220	Total/NA	Water	8290	
480-169009-4	SUPE-W-12A-042220	Total/NA	Water	8290	
480-169009-6	SUPE-W-04AR2-042220	Total/NA	Water	8290	
480-169009-7	SUPE-EB-01-042220	Total/NA	Water	8290	
480-169009-8	SUPE-W-30C-042120	Total/NA	Water	8290	
480-169009-9	SUPE-W-12CR-042220	Total/NA	Water	8290	
480-169009-10	SUPE-W-30A-042220	Total/NA	Water	8290	
480-169009-11	SUPE-W-06A-042120	Total/NA	Water	8290	
480-169009-12	SUPE-W-10AR2-042220	Total/NA	Water	8290	
480-169009-13	SUPE-W-06C-042120	Total/NA	Water	8290	
MB 140-39332/18-A	Method Blank	Total/NA	Water	8290	
LCS 140-39332/17-A	Lab Control Sample	Total/NA	Water	8290	
480-169009-13 MS	SUPE-W-06C-042120	Total/NA	Water	8290	
480-169009-13 MSD	SUPE-W-06C-042120	Total/NA	Water	8290	

Analysis Batch: 39381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-169009-1	SUPE-M99-A-042120	Total/NA	Water	8290A	39332
480-169009-3	SUPE-W-28C-042220	Total/NA	Water	8290A	39332
MB 140-39332/18-A	Method Blank	Total/NA	Water	8290A	39332
LCS 140-39332/17-A	Lab Control Sample	Total/NA	Water	8290A	39332

Analysis Batch: 39395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-169009-4	SUPE-W-12A-042220	Total/NA	Water	8290A	39332
480-169009-6	SUPE-W-04AR2-042220	Total/NA	Water	8290A	39332
480-169009-7	SUPE-EB-01-042220	Total/NA	Water	8290A	39332
480-169009-8	SUPE-W-30C-042120	Total/NA	Water	8290A	39332
480-169009-9	SUPE-W-12CR-042220	Total/NA	Water	8290A	39332
480-169009-10	SUPE-W-30A-042220	Total/NA	Water	8290A	39332
480-169009-11	SUPE-W-06A-042120	Total/NA	Water	8290A	39332

Analysis Batch: 39398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-169009-12	SUPE-W-10AR2-042220	Total/NA	Water	8290A	39332
480-169009-13	SUPE-W-06C-042120	Total/NA	Water	8290A	39332
480-169009-13 MS	SUPE-W-06C-042120	Total/NA	Water	8290A	39332
480-169009-13 MSD	SUPE-W-06C-042120	Total/NA	Water	8290A	39332

Lab Chronicle

Client: Field & Technical Services LLC
Job ID: 480-169009-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-M99-A-042120
Lab Sample ID: 480-169009-1
Date Collected: 04/21/20 00:00
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528085	04/26/20 00:09	AMM	TAL BUF
Total/NA	Prep	3510C			539931	04/27/20 17:28	CMC	TAL CHI
Total/NA	Analysis	8270D		1	540079	04/28/20 14:51	NRJ	TAL CHI
Total/NA	Prep	3510C			528777	04/29/20 15:30	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	528988	04/30/20 16:17	PJQ	TAL BUF
Total/NA	Prep	8290			39332	04/28/20 11:57	SMA	TAL KNX
Total/NA	Analysis	8290A		1	39381	04/30/20 16:58	MSD	TAL KNX

Client Sample ID: SUPE-TB-01-042220
Lab Sample ID: 480-169009-2
Date Collected: 04/22/20 07:25
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528085	04/26/20 00:32	AMM	TAL BUF

Client Sample ID: SUPE-W-28C-042220
Lab Sample ID: 480-169009-3
Date Collected: 04/22/20 07:55
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528085	04/26/20 00:55	AMM	TAL BUF
Total/NA	Prep	3510C			539931	04/27/20 17:28	CMC	TAL CHI
Total/NA	Analysis	8270D		1	540079	04/28/20 15:19	NRJ	TAL CHI
Total/NA	Prep	3510C			528777	04/29/20 15:30	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	528988	04/30/20 16:45	PJQ	TAL BUF
Total/NA	Prep	8290			39332	04/28/20 11:57	SMA	TAL KNX
Total/NA	Analysis	8290A		1	39381	04/30/20 17:59	MSD	TAL KNX

Client Sample ID: SUPE-W-12A-042220
Lab Sample ID: 480-169009-4
Date Collected: 04/22/20 09:20
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528085	04/26/20 01:18	AMM	TAL BUF
Total/NA	Prep	3510C			539931	04/27/20 17:28	CMC	TAL CHI
Total/NA	Analysis	8270D		1	540079	04/28/20 15:46	NRJ	TAL CHI
Total/NA	Prep	3510C			528777	04/29/20 15:30	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	528988	04/30/20 17:14	PJQ	TAL BUF
Total/NA	Prep	8290			39332	04/28/20 11:57	SMA	TAL KNX
Total/NA	Analysis	8290A		1	39395	04/30/20 23:57	PMP	TAL KNX

Lab Chronicle

Client: Field & Technical Services LLC
Job ID: 480-169009-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-18D-042220
Lab Sample ID: 480-169009-5
Date Collected: 04/22/20 11:12
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			539931	04/27/20 17:28	CMC	TAL CHI
Total/NA	Analysis	8270D		1	540079	04/28/20 19:55	NRJ	TAL CHI
Total/NA	Prep	3510C			528777	04/29/20 15:30	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	528988	04/30/20 17:42	PJQ	TAL BUF

Client Sample ID: SUPE-W-04AR2-042220
Lab Sample ID: 480-169009-6
Date Collected: 04/22/20 12:25
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528085	04/26/20 01:41	AMM	TAL BUF
Total/NA	Prep	3510C			539931	04/27/20 17:28	CMC	TAL CHI
Total/NA	Analysis	8270D		1	540079	04/28/20 20:23	NRJ	TAL CHI
Total/NA	Prep	3510C			528777	04/29/20 15:30	ATG	TAL BUF
Total/NA	Analysis	8270D LL		5	528988	04/30/20 18:11	PJQ	TAL BUF
Total/NA	Prep	8290			39332	04/28/20 11:57	SMA	TAL KNX
Total/NA	Analysis	8290A		1	39395	05/01/20 00:58	PMP	TAL KNX

Client Sample ID: SUPE-EB-01-042220
Lab Sample ID: 480-169009-7
Date Collected: 04/22/20 13:10
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528085	04/26/20 02:04	AMM	TAL BUF
Total/NA	Prep	3510C			539931	04/27/20 17:28	CMC	TAL CHI
Total/NA	Analysis	8270D		1	540079	04/28/20 16:14	NRJ	TAL CHI
Total/NA	Prep	3510C			528777	04/29/20 15:30	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	528988	04/30/20 18:40	PJQ	TAL BUF
Total/NA	Prep	8290			39332	04/28/20 11:57	SMA	TAL KNX
Total/NA	Analysis	8290A		1	39395	05/01/20 01:59	PMP	TAL KNX

Client Sample ID: SUPE-W-30C-042120
Lab Sample ID: 480-169009-8
Date Collected: 04/21/20 13:45
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528085	04/26/20 02:27	AMM	TAL BUF
Total/NA	Prep	3510C			539931	04/27/20 17:28	CMC	TAL CHI
Total/NA	Analysis	8270D		1	540079	04/28/20 16:42	NRJ	TAL CHI
Total/NA	Prep	3510C			528777	04/29/20 15:30	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	528988	04/30/20 19:09	PJQ	TAL BUF
Total/NA	Prep	8290			39332	04/28/20 11:57	SMA	TAL KNX
Total/NA	Analysis	8290A		1	39395	05/01/20 03:00	PMP	TAL KNX

Client Sample ID: SUPE-W-12CR-042220
Lab Sample ID: 480-169009-9
Date Collected: 04/22/20 13:52
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528085	04/26/20 02:50	AMM	TAL BUF
Total/NA	Prep	3510C			539931	04/27/20 17:28	CMC	TAL CHI
Total/NA	Analysis	8270D		1	540079	04/28/20 18:04	NRJ	TAL CHI
Total/NA	Prep	3510C			528777	04/29/20 15:30	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	528988	04/30/20 19:37	PJQ	TAL BUF
Total/NA	Prep	8290			39332	04/28/20 11:57	SMA	TAL KNX
Total/NA	Analysis	8290A		1	39395	05/01/20 04:01	PMP	TAL KNX

Client Sample ID: SUPE-W-30A-042220
Lab Sample ID: 480-169009-10
Date Collected: 04/22/20 15:00
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	528085	04/26/20 03:14	AMM	TAL BUF
Total/NA	Prep	3510C			539931	04/27/20 17:28	CMC	TAL CHI
Total/NA	Analysis	8270D		1	540079	04/28/20 19:00	NRJ	TAL CHI
Total/NA	Prep	3510C			528528	04/28/20 15:23	ATG	TAL BUF
Total/NA	Analysis	8270D LL		10	528712	04/29/20 18:05	PJQ	TAL BUF
Total/NA	Prep	8290			39332	04/28/20 11:57	SMA	TAL KNX
Total/NA	Analysis	8290A		1	39395	05/01/20 05:02	PMP	TAL KNX

Client Sample ID: SUPE-W-06A-042120
Lab Sample ID: 480-169009-11
Date Collected: 04/21/20 15:35
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528085	04/26/20 03:37	AMM	TAL BUF
Total/NA	Prep	3510C			539931	04/27/20 17:28	CMC	TAL CHI
Total/NA	Analysis	8270D		1	540079	04/28/20 18:32	NRJ	TAL CHI
Total/NA	Prep	3510C			528528	04/28/20 15:23	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	528712	04/29/20 18:34	PJQ	TAL BUF
Total/NA	Prep	8290			39332	04/28/20 11:57	SMA	TAL KNX
Total/NA	Analysis	8290A		1	39395	05/01/20 06:03	PMP	TAL KNX

Client Sample ID: SUPE-W-10AR2-042220
Lab Sample ID: 480-169009-12
Date Collected: 04/22/20 17:00
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528085	04/26/20 04:00	AMM	TAL BUF
Total/NA	Prep	3510C			539931	04/27/20 17:28	CMC	TAL CHI
Total/NA	Analysis	8270D		1	540079	04/28/20 19:27	NRJ	TAL CHI
Total/NA	Prep	3510C	DL		539931	04/27/20 17:28	CMC	TAL CHI
Total/NA	Analysis	8270D	DL	5	540079	04/28/20 22:14	NRJ	TAL CHI

Lab Chronicle

Client: Field & Technical Services LLC
Job ID: 480-169009-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-10AR2-042220
Lab Sample ID: 480-169009-12
Date Collected: 04/22/20 17:00
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			528528	04/28/20 15:23	ATG	TAL BUF
Total/NA	Analysis	8270D LL		5	528712	04/29/20 19:02	PJQ	TAL BUF
Total/NA	Prep	8290			39332	04/28/20 11:57	SMA	TAL KNX
Total/NA	Analysis	8290A		1	39398	05/01/20 12:44	MSD	TAL KNX

Client Sample ID: SUPE-W-06C-042120
Lab Sample ID: 480-169009-13
Date Collected: 04/21/20 17:30
Matrix: Water
Date Received: 04/24/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528085	04/26/20 04:24	AMM	TAL BUF
Total/NA	Prep	3510C			539931	04/27/20 17:28	CMC	TAL CHI
Total/NA	Analysis	8270D		1	540079	04/28/20 14:23	NRJ	TAL CHI
Total/NA	Prep	3510C			528528	04/28/20 15:23	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	528712	04/29/20 17:37	PJQ	TAL BUF
Total/NA	Prep	8290			39332	04/28/20 11:57	SMA	TAL KNX
Total/NA	Analysis	8290A		1	39398	05/01/20 13:45	MSD	TAL KNX

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Field & Technical Services LLC
Job ID: 480-169009-1
Project/Site: Superior, WI Semiannual Groundwater

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704412-18-10	08-01-20

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
8260C		Water	m-Xylene & p-Xylene
8260C		Water	o-Xylene

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-30-20
Georgia	State	N/A	04-30-20
Georgia (DW)	State	939	04-30-20
Hawaii	State	NA	04-30-20
Illinois	NELAP	IL00035	04-30-20
Indiana	State	C-IL-02	04-30-20
Iowa	State	082	05-01-20
Kansas	NELAP	E-10161	11-01-20
Kentucky (UST)	State	AI # 108083	04-30-20
Kentucky (WW)	State	KY90023	12-31-20
Louisiana	NELAP	02046	06-30-20
Mississippi	State	NA	04-30-20
New York	NELAP	12019	04-01-21
North Carolina (WW/SW)	State	291	12-31-20
North Dakota	State	R-194	04-30-20
Oklahoma	State	8908	08-31-20
South Carolina	State	77001003	04-30-20
USDA	US Federal Programs	P330-18-00018	02-11-21
Wisconsin	State	999580010	08-31-20
Wyoming	State	8TMS-Q	04-30-20

Accreditation/Certification Summary

Client: Field & Technical Services LLC
Job ID: 480-169009-1
Project/Site: Superior, WI Semiannual Groundwater

Laboratory: Eurofins TestAmerica, Knoxville

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

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-22
ANAB	Dept. of Energy	L2311.01	02-13-22
ANAB	ISO/IEC 17025	L2311	02-13-22
ANAB	ISO/IEC 17025	L2311	02-14-22
Arkansas DEQ	State	88-0688	06-16-20
California	State	2423	06-30-20
Colorado	State	TN00009	02-28-21
Connecticut	State	PH-0223	09-30-21
Florida	NELAP	E87177	06-30-20
Georgia (DW)	State	906	12-11-22
Hawaii	State	NA	12-11-21
Kansas	NELAP	E-10349	11-01-20
Kentucky (DW)	State	90101	01-01-21
Louisiana	NELAP	83979	07-02-20
Louisiana (DW)	State	LA019	12-31-20
Maryland	State	277	03-31-21
Michigan	State	9933	12-11-22
Nevada	State	TN00009	07-31-20
New Hampshire	NELAP	299919	01-17-21
New Jersey	NELAP	TN001	06-30-20
New York	NELAP	10781	03-31-21
North Carolina (DW)	State	21705	07-31-20
North Carolina (WW/SW)	State	64	12-31-20
Ohio VAP	State	CL0059	08-28-20
Oklahoma	State	9415	09-01-20
Oregon	NELAP	TNI0189	01-02-21
Pennsylvania	NELAP	68-00576	12-31-20
Tennessee	State	02014	12-11-22
Texas	NELAP	T104704380-18-12	08-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-19-00236	08-20-22
Utah	NELAP	TN00009	07-31-20
Virginia	NELAP	460176	09-15-20
Washington	State	C593	01-19-21
West Virginia (DW)	State	9955C	01-01-21
West Virginia DEP	State	345	05-01-21
Wisconsin	State	998044300	08-31-20

Accreditation/Certification Summary

Client: Field & Technical Services LLC
Job ID: 480-169009-1
Project/Site: Superior, WI Semiannual Groundwater

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-21
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20 *
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20 *
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Field & Technical Services LLC
Job ID: 480-169009-1
Project/Site: Superior, WI Semiannual Groundwater

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL BUF
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL KNX
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030C	Purge and Trap	SW846	TAL BUF
8290	Separatory Funnel (Liquid-Liquid) Extraction of Dioxins and Furans	SW846	TAL KNX

Protocol References:

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

Laboratory References:

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

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

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

Sample Summary

Client: Field & Technical Services LLC
Job ID: 480-169009-1
Project/Site: Superior, WI Semiannual Groundwater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-169009-1	SUPE-M99-A-042120	Water	04/21/20 00:00	04/24/20 10:00	
480-169009-2	SUPE-TB-01-042220	Water	04/22/20 07:25	04/24/20 10:00	
480-169009-3	SUPE-W-28C-042220	Water	04/22/20 07:55	04/24/20 10:00	
480-169009-4	SUPE-W-12A-042220	Water	04/22/20 09:20	04/24/20 10:00	
480-169009-5	SUPE-W-18D-042220	Water	04/22/20 11:12	04/24/20 10:00	
480-169009-6	SUPE-W-04AR2-042220	Water	04/22/20 12:25	04/24/20 10:00	
480-169009-7	SUPE-EB-01-042220	Water	04/22/20 13:10	04/24/20 10:00	
480-169009-8	SUPE-W-30C-042120	Water	04/21/20 13:45	04/24/20 10:00	
480-169009-9	SUPE-W-12CR-042220	Water	04/22/20 13:52	04/24/20 10:00	
480-169009-10	SUPE-W-30A-042220	Water	04/22/20 15:00	04/24/20 10:00	
480-169009-11	SUPE-W-06A-042120	Water	04/21/20 15:35	04/24/20 10:00	
480-169009-12	SUPE-W-10AR2-042220	Water	04/22/20 17:00	04/24/20 10:00	
480-169009-13	SUPE-W-06C-042120	Water	04/21/20 17:30	04/24/20 10:00	

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 754

TestAmerica Duluth SC
269

754

Project Name:	Superior 2020 1SA Sampling	Company:	Field & Technical Services	Client:	Beazer East, Inc.
Project Number:	OM-0556-20	Address:	200 Third Avenue	Contact:	(21) 4 4-9876
Laboratory:	TABUF		Carnegie, PA 15106		kmcmullen.2006@f-ts.com
Shipment Method	FEDEX		(412) 279-3363		
Program:	Superior 2020 1SA Sampling_001				

480-169009 Chain of Custody

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8260B_VOA+naphtha	8270C_SVOC (less naphtha)	8270C_SVOC+naphtha													Notes:
				Preservative	HCL	None														
				Total Bottle Count																
04/21/2020	0000	GW	SUPE-M99-A-042120	6	3	3														
04/22/2020	0725	GW	SUPE-TB-01-042220	2	2	0														
04/22/2020	0755	GW	SUPE-W-28C-042220	6	3	3														
04/22/2020	0920	GW	SUPE-W-12A-042220	6	3	3														
04/22/2020	1112	GW	SUPE-W-18D-042220	3	0	0	3													
04/22/2020	1225	GW	SUPE-W-04AR2-042220	6	3	3	0													
04/22/2020	1310	GW	SUPE-EB-01-042220	6	3	3	0													
04/21/2020	1345	GW	SUPE-W-30C-042120	6	3	3														
04/22/2020	1352	GW	SUPE-W-12CR-042220	6	3	3	0													
04/22/2020	1500	GW	SUPE-W-30A-042220	6	3	3	0													
04/21/2020	1535	GW	SUPE-W-06A-042120	6	3	3														

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: Katie McMullen	Signature: Melissa Gascon	Signature: Melissa Gascon	Signature: Ewallace	☐ Rush
Printed Name: Katie McMullen	Printed Name: Melissa Gascon	Printed Name: Melissa Gascon	Printed Name: Ewallace	
Firm: FTS	Firm: Eurofins	Firm: Eurofins	Firm: TAB	☒ Standard
Date/Time: 04/22/2020 1809	Date/Time: 4/23/20 0830	Date/Time: 4/23/20 1430	Date/Time: 4/24/20 1000	

#1 3,4,3,1,3,0
2,0,3,7,2,4
3,3

TestAmerica Duluth SC
269

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 754

TestAmerica Duluth SC 269

754

Project Name:	Superior 2020 1SA Sampling	Company:	Field & Technical Services	Client:	Beazer East, Inc.
Project Number:	OM-0556-20	Address:	200 Third Avenue	Contact:	(21) 4 4-9876
Laboratory:	TABUF		Carnegie, PA 15106		kmcmullen.2006@f-ts.com
Shipment Method	FEDEX		(412) 279-3363		
Program:	Superior 2020 1SA Sampling_001				

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8260B_VOA+naphtha	8270C_SVOC (less naphtha)	8270C_SVOC+naphtha													
				Preservative	HCL	None	None													
				Total Bottle Count																Notes:
04/22/2020	1700	GW	SUPE-W-10AR2-042220	6	3	3	0													
04/21/2020	1730	GW	SUPE-W-06C-MS/MSD-042120	12	6	6														
04/21/2020	1730	GW	SUPE-W-06C-042120	6	3	3														

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: KM McMullen	Signature: Melissa Gascon	Signature: Melissa Gascon	Signature: Cwallace	[ ] Rush
Printed Name: Katie McMullen	Printed Name: Melissa Gascon	Printed Name: Melissa Gascon	Printed Name: Cwallace	
Firm: FTS	Firm: Eurofins	Firm: Eurofins	Firm: TAB	[X] Standard
Date/Time: 04/22/2020 1809	Date/Time: 4/23/20 0830	Date/Time: 4/23/20 1430	Date/Time: 4/24/20 1000	

TestAmerica Duluth SC 269

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 755

TestAmerica Duluth SC 269 *755*

Project Name:	Superior 2020 1SA Sampling	Company:	Field & Technical Services	Client:	Beazer East, Inc.
Project Number:	OM-0556-20	Address:	200 Third Avenue	Contact:	(21) 4 4-9876
Laboratory:	TAKNOX		Carnegie, PA 15106		kmcmullen.2006@f-ts.com
Shipment Method	FEDEX		(412) 279-3363		
Program:	Superior 2020 1SA Sampling_001				

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8290_Dioxins/Furans																
				Preservative	None																
				Total Bottle Count																	Notes:
04/21/2020	0000	GW	SUPE-M99-A-042120	2	2																
04/22/2020	0755	GW	SUPE-W-28C-042220	2	2																
04/22/2020	0920	GW	SUPE-W-12A-042220	2	2																
04/22/2020	1225	GW	SUPE-W-04AR2-042220	2	2																
04/22/2020	1310	GW	SUPE-EB-01-042220	2	2																
04/21/2020	1345	GW	SUPE-W-30C-042120	2	2																
04/22/2020	1352	GW	SUPE-W-12CR-042220	2	2																
04/22/2020	1500	GW	SUPE-W-30A-042220	2	2																
04/21/2020	1535	GW	SUPE-W-06A-042120	2	2																
04/22/2020	1700	GW	SUPE-W-10AR2-042220	2	2																

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: Kat McMullen	Signature: Melissa Gascon	Signature: Melissa Gascon	Signature: Cwallace	☐ Rush
Printed Name: Katie McMullen	Printed Name: Melissa Gascon	Printed Name: Melissa Gascon	Printed Name: Cwallace	
Firm: FTS	Firm: Eurofins	Firm: Eurofins	Firm: TAB	☒ Standard
Date/Time: 04/22/2020 1809	Date/Time: 4/23/20 0830	Date/Time: 4/23/20 1430	Date/Time: 4/24/20 1000	

TestAmerica Duluth SC 269

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 755

TestAmerica Duluth SC *755*
269

Project Name:	Superior 2020 1SA Sampling	Company:	Field & Technical Services	Client:	Beazer East, Inc.
Project Number:	OM-0556-20	Address:	200 Third Avenue	Contact:	(21) 4 4-9876
Laboratory:	TAKNOX		Carnegie, PA 15106		kmcmullen.2006@f-ts.com
Shipment Method	FEDEX		(412) 279-3363		
Program:	Superior 2020 1SA Sampling_001				

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8290_Dioxins/Furans																Notes:
				Preservative	None																
				Total Bottle Count																	
04/21/2020	1730	GW	SUPE-W-06C-MS/MSD-042120	4	4																
04/21/2020	1730	GW	SUPE-W-06C-042120	2	2																

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: Kat McMu	Signature: Melissa Gascon	Signature: Melissa Gascon	Signature: Cwallace	☐ Rush
Printed Name: Katie McMullen	Printed Name: Melissa Gascon	Printed Name: Melissa Gascon	Printed Name: Cwallace	
Firm: FTS	Firm: Eurofins	Firm: Eurofins	Firm: TAB	☒ Standard
Date/Time: 04/22/2020 1809	Date/Time: 4/23/20 0830	Date/Time: 4/23/20 1430	Date/Time: 4/24/20 1000	

TestAmerica Duluth SC
269

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Phone: 865-291-3000 Fax: 865-584-4315

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Bortot, Veronica	Carrier Tracking No(s):	COC No: 140-7520.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: veronica.bortot@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 480-169009-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 5/12/2020			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Superior, WI Semiannual Groundwater	Project #: 18015916			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/5030C (MOD) Volatiles, project list	8270D_LL/3510C_LL (MOD) Pentachlorophenol	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SUPE-M99-A-042120 (480-169009-1)	4/21/20	Central		Water			X		1	1x hx; Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-28C-042220 (480-169009-3)	4/22/20	07:55 Central		Water			X		1	1x hx; Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-12A-042220 (480-169009-4)	4/22/20	09:20 Central		Water			X		1	1x hx; Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-04AR2-042220 (480-169009-6)	4/22/20	12:25 Central		Water			X		1	1x hx; Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-EB-01-042220 (480-169009-7)	4/22/20	13:10 Central		Water			X		1	1x EB; Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-30C-042120 (480-169009-8)	4/21/20	13:45 Central		Water			X		1	1x hx; Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-12CR-042220 (480-169009-9)	4/22/20	13:52 Central		Water			X		1	1x hx; Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-30A-042220 (480-169009-10)	4/22/20	15:00 Central		Water			X	X	1	2x hx; Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06A-042120 (480-169009-11)	4/21/20	15:35 Central		Water			X	X	1	1x hx; Refer to PT-PM-WI-006 for Wisconsin Protocol

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

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ 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
1	[signature]	4-28-20 11:50	ETA KN	[signature]	04/29/20 1600	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7 4.1 #1 ICE

Ver: 01/16/2019

Eurofins TestAmerica, Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Phone: 865-291-3000 Fax: 865-584-4315

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Bortot, Veronica	Carrier Tracking No(s):	COC No: 140-7520.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: veronica.bortot@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 480-169009-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 5/12/2020			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Superior, WI Semiannual Groundwater	Project #: 18015916			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/5030C (MOD) Volatiles, project list	8270D_LL/3510C_LL (MOD) Pentachlorophenol	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SUPE-W-10AR2-042220 (480-169009-12)	4/22/20	17:00 Central		Water			X	X	1	1x hx; Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06C-042120 (480-169009-13)	4/21/20	17:30 Central		Water			X	X	1	1x hx; Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06C-042120 (480-169009-13MS)	4/21/20	17:30 Central	MS	Water			X	X	1	1x hx MS; Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06C-042120 (480-169009-13MSD)	4/21/20	17:30 Central	MSD	Water			X	X	1	1x hx MSD; Refer to PT-PM-WI-006 for Wisconsin Protocol

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ 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
1	[signature]	4-28-20 11:30	ETA Kno	[signature]	04/29/20 1000	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

480-169009 Chain of Custody

Eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Bortot, Veronica		60.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: veronica.bortot@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 480-169009-1
Address: 5815 Middlebrook Pike,	Due Date Requested: 5/1/2020			
City: Knoxville	TAT Requested (days):			
State, Zip: TN, 37921				
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:			
Email:	WO #:			
Project Name: Superior, WI Semiannual Groundwater	Project #: 18015916			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8290A/8290_P_Sep 17 Isomers + Totals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SUPE-M99-A-042120 (480-169009-1)	4/21/20	Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-28C-042220 (480-169009-3)	4/22/20	07:55 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-12A-042220 (480-169009-4)	4/22/20	09:20 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-18D-042220 (480-169009-5)	4/22/20	11:12 Central		Water			X	3	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-04AR2-042220 (480-169009-6)	4/22/20	12:25 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-EB-01-042220 (480-169009-7)	4/22/20	13:10 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-30C-042120 (480-169009-8)	4/21/20	13:45 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-12CR-042220 (480-169009-9)	4/22/20	13:52 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-30A-042220 (480-169009-10)	4/22/20	15:00 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol

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

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *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: Jennifer Cikolb	Date/Time: 4/24/20 1700	Company TA	Received by:	Date/Time: 4/25/20 0930	Company ETA	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Bortot, Veronica	Carrier Tracking No(s):	COC No: 480-55560.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: veronica.bortot@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 480-169009-1
Address: 5815 Middlebrook Pike, ,	Due Date Requested: 5/1/2020			
City: Knoxville	TAT Requested (days):			
State, Zip: TN, 37921				
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:			
Email:	WO #:			
Project Name: Superior, WI Semiannual Groundwater	Project #: 18015916			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8290A/8290_P_Sep 17 Isomers + Totals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SUPE-W-06A-042120 (480-169009-11)	4/21/20	15:35 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-10AR2-042220 (480-169009-12)	4/21/20	17:00 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06C-042120 (480-169009-13)	4/21/20	17:30 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06C-042120 (480-169009-13MS)	4/21/20	17:30 Central	MS	Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06C-042120 (480-169009-13MSD)	4/21/20	17:30 Central	MSD	Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *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: Thomas Cikolb	Date/Time: 04/24/20 1744	Company TA	Received by:		Date/Time: 4/25/20 0950	Company ETA	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	
Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				

Ver: 01/16/2019

Loc: 480
169009

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

Review Items	Yes	No	NA	If No, what was the problem?
1. Are the shipping containers intact?	/			☐ **Containers, Broken**
2. Were ambient air containers received intact?			/	☐ Checked in lab
3. The coolers/containers custody seal if present, is it intact?	/			☐ Yes ☐ NA
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID : IC68 Correction factor: 0.0	/			☐ **Cooler Out of Temp, Client Contacted, Proceed/Cancel** ☐ **Cooler Out of Temp, Same Day Receipt**
5. Were all of the sample containers received intact?	/			☐ **Containers, Broken**
6. Were samples received in appropriate containers?	/			☐ **Containers, Improper; Client Contacted; Proceed/Cancel**
7. Do sample container labels match COC? (IDs, Dates, Times)	/			☐ **COC & Samples Do Not Match** ☐ **COC Incorrect/Incomplete** ☐ **COC Not Received**
8. Were all of the samples listed on the COC received?	/			☐ **Sample Received, Not on COC** ☐ **Sample on COC, Not Received**
9. Is the date/time of sample collection noted?	/			☐ **COC; No Date/Time; Client Contacted**
10. Was the sampler identified on the COC?			/	☐ **Sampler Not Listed on COC**
11. Is the client and project name/# identified?	/			☐ **COC Incorrect/Incomplete**
12. Are tests/parameters listed for each sample?	/			☐ **COC No tests on COC**
13. Is the matrix of the samples noted?	/			☐ **COC Incorrect/Incomplete**
14. Was COC relinquished? (Signed/Dated/Timed)	/			☐ **COC Incorrect/Incomplete**
15. Were samples received within holding time?	/			☐ **Holding Time - Receipt**
16. Were samples received with correct chemical preservative (excluding Encore)?			/	☐ **pH Adjusted, pH Included (See box 16A)** ☐ **Incorrect Preservative**
17. Were VOA samples received without headspace?			/	☐ **Headspace (VOA only)**
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:			/	☐ **Residual Chlorine**
19. For 1613B water samples is pH<9?			/	☐ If no, notify lab to adjust
20. For rad samples was sample activity info. Provided?			/	☐ Project missing info

Comments/Actions Taken

RT: 2.8°C, 3.0°C, 2.8°C
CT: 2.8°C, 3.0°C, 2.8°C
2 Coolers, Fedex P2
Custody seal intact
Tr.K# 4276 0723 1507
" " 1518
" " 1492
KLW 4/25/20

Labeling Verified by: **Date:**

pH test strip lot number:

Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative:	
Lot Number:	
Exp Date:	
Analyst:	
Date:	
Time:	

Project #: _____ PM Instructions: _____

Sample Receiving Associate: KLW Date: 4/25/20

QA026R32.doc, 062719

5/20/2020 (Rev. 2)

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 754

TestAmerica Duluth SC
269

754

Project Name:	Superior 2020 1SA Sampling		Company:	Field & Technical Services	Client: Beazer East, Inc.
Project Number:	OM-0556-20	480-169009 COC	Address:	200 Third Avenue	Contact: (21) 4 4-9876
Laboratory:	TABUF			Carnegie, PA 15106	kmcmullen.2006@f-ts.com
Shipment Method	FEDEX			(412) 279-3363	
Program:	Superior 2020 1SA Sampling_001				480-169009

	Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8260B_VOA+naphtha	8270C_SVOC (less naphtha)	8270C_SVOC+naphtha													Notes:
					Preservative	HCL	None														
					Total Bottle Count																
1	04/21/2020	0000	GW	SUPE-M99-A-042120	6	3	3														
2	04/22/2020	0725	GW	SUPE-TB-01-042220	2	2	0														
3	04/22/2020	0755	GW	SUPE-W-28C-042220	6	3	3														
4	04/22/2020	0920	GW	SUPE-W-12A-042220	6	3	3														
5	04/22/2020	1112	GW	SUPE-W-18D-042220	3	0	0	3													
6	04/22/2020	1225	GW	SUPE-W-04AR2-042220	6	3	3	0													
7	04/22/2020	1310	GW	SUPE-EB-01-042220	6	3	3	0													
8	04/21/2020	1345	GW	SUPE-W-30C-042120	6	3	3														
9	04/22/2020	1352	GW	SUPE-W-12CR-042220	6	3	3	0													
10	04/22/2020	1500	GW	SUPE-W-30A-042220	6	3	3	0													
11	04/21/2020	1535	GW	SUPE-W-06A-042120	6	3	3														

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: Katie McMullen	Signature: Melissa Gascon	Signature: Melissa Gascon	Signature: Sherri Scott	
Printed Name: Katie McMullen	Printed Name: Melissa Gascon	Printed Name: Melissa Gascon	Printed Name: Sherri Scott	
Firm: FTS	Firm: Eurofins Duluth	Firm: Eurofins Duluth	Firm: TA CHT	[ ] Rush
Date/Time: 04/22/2020 1809	Date/Time: 4/23/20 0830	Date/Time: 4/23/20 1400	Date/Time: 4/24/20 0930	[X] Standard

1-4,6,6

TestAmerica Duluth SC
269

Page 1 of 1

FTS Field & Technical Services, LLC

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 754

TestAmerica Duluth SC 269

754

Project Name:	Superior 2020 1SA Sampling	Company:	Field & Technical Services	Client:	Beazer East, Inc.
Project Number:	OM-0556-20	Address:	200 Third Avenue	Contact:	(21) 4 4-9876
Laboratory:	TABUF		Carnegie, PA 15106		kmcmullen.2006@f-ts.com
Shipment Method	FEDEX		(412) 279-3363		
Program:	Superior 2020 1SA Sampling_001				

480-169009

	Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8260B_VOA+naphtha	8270C_SVOC (less naphtha)	8270C_SVOC+naphtha													
					Preservative	HCL	None	None													
					Total Bottle Count																Notes:
12	04/22/2020	1700	GW	SUPE-W-10AR2-042220	6	3	3	0													
13	04/21/2020	1730	GW	SUPE-W-06C-MS/MSD-042120	12	6	6														
	04/21/2020	1730	GW	SUPE-W-06C-042120	6	3	3														

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: Kat McMullen	Signature: Melissa Gascon	Signature: Melissa Gascon	Signature: Sherri Scott	☐ Rush
Printed Name: Katie McMullen	Printed Name: Melissa Gascon	Printed Name: Melissa Gascon	Printed Name: Sherri Scott	
Firm: FTS	Firm: Eurofins Duluth	Firm: Eurofins Duluth	Firm: TA-CHI	☒ Standard
Date/Time: 04/22/2020 1809	Date/Time: 4/23/20 0830	Date/Time: 4/23/20 1400	Date/Time: 4/24/20 0930	

TestAmerica Duluth SC 269

Page 1 of 1

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Bortot, Veronica	Carrier Tracking No(s):	COC No.: 480-55558.1
Client Contact: Shipping/Receiving	Phone	E-Mail: veronica.bortot@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 480-169009-1
Address: 2417 Bond Street, ,	Due Date Requested: 5/1/2020			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email:	WO #:			
Project Name: Superior, WI Semiannual Groundwater	Project #: 18015916			
Site:	SSOW#:			

Analysis Requested

480-169009 COC

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D/3510C (MOD) Semivolatiles, project list with n	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SUPE-M99-A-042120 (480-169009-1)	4/21/20	Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-28C-042220 (480-169009-3)	4/22/20	07:55 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-12A-042220 (480-169009-4)	4/22/20	09:20 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-04AR2-042220 (480-169009-6)	4/22/20	12:25 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-EB-01-042220 (480-169009-7)	4/22/20	13:10 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-30C-042120 (480-169009-8)	4/21/20	13.45 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-12CR-042220 (480-169009-9)	4/22/20	13:52 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-30A-042220 (480-169009-10)	4/22/20	15:00 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06A-042120 (480-169009-11)	4/21/20	15:35 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol

Note. Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratones 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmenca attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ 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
1	Unwow Circle	04/24/20 1744	TA	Stephanie Hernandez	4/25/20 1040	TA-CHI
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.1, -0.3 → 0.9, 0.1

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Bortot, Veronica	Carrier Tracking No(s):	COC No: 480-55558.2
Client Contact: Shipping/Receiving	Phone	E-Mail: veronica.bortot@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - Texas		Job #: 480-169009-1
Address: 2417 Bond Street, ,	Due Date Requested: 5/1/2020			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email:	WO #:			
Project Name: Superior, WI Semiannual Groundwater	Project #: 18015916			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D/3510C (MOD) Semivolatiles, project list with n	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SUPE-W-10AR2-042220 (480-169009-12)	4/21/20	17:00 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06C-042120 (480-169009-13)	4/21/20	17:30 Central		Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06C-042120 (480-169009-13MS)	4/21/20	17:30 Central	MS	Water			X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06C-042120 (480-169009-13MSD)	4/21/20	17:30 Central	MSD	Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol

Note. Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the labo

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ 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
1	Matthew Cirulli	04/24/20 1745	TA	Stephanie Hernandez	4/25/20 1040	TA-CHI
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.1, -0.3 → 0.9, 0.1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-169009-1

Login Number: 169009
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

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

Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-169009-1

Login Number: 169009
List Number: 2
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago
List Creation: 04/24/20 02:36 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4,0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX F

ASCII DATA