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February 14, 2024

Mr. John Sager
Wisconsin Department of Natural Resources
1701 N. 4th Street
Superior, WI 54880
(715) 392-7822

**RE: 2023 RCRA Annual Groundwater Monitoring Report
Former Koppers Inc. Facility
Superior, Wisconsin
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 2023 RCRA Annual Groundwater Monitoring Report for the above-referenced facility.

If you have any questions, please contact me at (412) 429-2694.

Sincerely,

Field & Technical Services LLC

Angie Gatchie
Project Scientist

Attachments: Original Report (hardcopy) and CD (electronic copy)

cc: D. Coenen, WDNR
B. Tatsch, Koppers Inc. (electronic copy only)
J. Patarcity, Beazer East (electronic copy only)
D. Bessingpass (.pdf transmittal)
H. Pappert, FTS – site copy

2023 RCRA ANNUAL GROUNDWATER MONITORING REPORT

**Former Koppers Inc. Facility
Superior, Wisconsin
EPA ID No.: WID 006 176 493**

Prepared for:

Beazer East, Inc.

Prepared by:

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



February 14, 2024

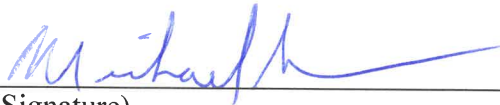
CERTIFICATION

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Document: **2023 RCRA Annual Groundwater Monitoring Report
Former Koppers Inc. Facility
Superior, Wisconsin
EPA ID No. WID 006 176 493**

Michael Slenska

(Name)



(Signature)

President

(Title)

Beazer East, Inc.

(Company Name)

2/14/2024

(Date)

PROFESSIONAL GEOLOGIST CERTIFICATION

“I, Thomas E. Jordan, hereby certify that to the best of my knowledge, all information contained in this document is correct and I have personally examined this report, and I am familiar with the information and all attachments herein. Furthermore, based on my inquiry of those persons immediately responsible for obtaining the information contained in this report, I believe that the information is true, accurate, and complete.”

Document: **2023 RCRA Annual Groundwater Monitoring Report
Former Koppers Inc. Facility
Superior, Wisconsin
EPA ID No. WID 006 176 493**



Thomas E. Jordan, Ph.D., P.G.
Key Environmental, Inc.
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Date

12/11/2023

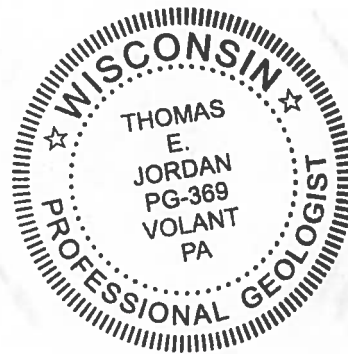


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ABBREVIATIONS/ACRONYMS

2002 SAP	Groundwater Monitoring Sampling Analysis Plan dated April 2002 approved by WDNR on October 29, 2002
AMEC	AMEC Earth and Environmental, Inc.
Beazer	Beazer East, Inc.
CAMU	Corrective Action Management Unit
CCO	Conditional Close-Out
CMI	Corrective Measures Implementation
CMS	Corrective Measures Study
DMZ	Design Management Zone
DNAPL	Dense Non-Aqueous Phase Liquid
ES	Wisconsin Enforcement Standards
ft/day	feet per day
ft-bgs	feet below ground surface
ft-btoc	feet below top of casing
FCMS	Focused Corrective Measures Study
FTS	Field & Technical Services, LLC
HHRA	Human Health Risk Assessment
HHERA	Human Health and Ecological Risk Assessment
HSWA	Hazardous and Solid Waste Amendments
ILR	Interim Letter Report
Koppers	Koppers Inc.
ug/l	micrograms per liter
PAH	Polycyclic Aromatic Hydrocarbon
PAL	Wisconsin Preventative Action Limits
Plan Approval	Conditional Closure and Long-Term Care Plan Approval dated October 1, 1987
Plan Approval Modification	Conditional Closure and Long-Term Care Plan Approval Modification dated October 29, 2002

**ABBREVIATIONS/ACRONYMS
(CONTINUED)**

PWP	Project Work Plan
RCRA	Resource Conservation and Recovery Act
RETEC	The RETEC Group, Inc.
SAP	Sampling and Analysis Plan
Site	Former Koppers Inc. Facility, Superior, Wisconsin
SVOC	Semi-Volatile Organic Constituent
TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
TEF	Toxicity Equivalency Factor
TEQ	Toxicity Equivalent Quotient
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Constituent
WDNR	Wisconsin Department of Natural Resources
WHO	World Health Organization

1.0 INTRODUCTION

Field and Technical Services, LLC (FTS), on behalf of Beazer East, Inc. (Beazer), prepared this 2023 Resource Conservation and Recovery Act (RCRA) Annual Groundwater Monitoring Report to summarize the compliance groundwater monitoring data collected in 2023 at the former Koppers Inc. (Koppers) facility (Site) located in Superior, Wisconsin.

The purpose of the compliance groundwater monitoring program is to evaluate groundwater quality in the vicinity of two closed surface impoundments, which comprise a single RCRA-regulated unit at the Site. Beazer implements this program in accordance with the following documents and regulations:

- The Conditional Closure and Long-Term Care Plan Approval (Plan Approval) (Wisconsin Department of Natural Resources [WDNR], October 1, 1987);
- The Conditional Closure and Long-Term Care Plan Approval Modification (Plan Approval Modification) (WDNR, October 29, 2002);
- Wisconsin Administrative Code NR 664, subchapter F (formerly NR 635); and
- The Site Sampling Analysis Plan (2002 SAP) (The RETEC Group, Inc. [RETEC], April 2002).

Consistent with the requirements established by these documents, this report summarizes the data for two semi-annual sampling events performed in 2023, includes discussions of data trends as well as analytical data trend maps, and presents the annual determination of groundwater flow rate and direction.

1.1 SITE DESCRIPTION

The 112-acre Site is located in northwestern Wisconsin (at the junction of County Roads A and Z), approximately five miles southeast of the town of Superior, in Douglas County. Figure 1 shows the general configuration of the Site. The area immediately surrounding the Site is sparsely populated and consists primarily of brush, woodland, and marshy areas.

1.2 PROJECT BACKGROUND

The facility historically produced pressure-treated railroad cross ties, bridge timbers, switch ties, and crossing panels using creosote (in a No. 6 fuel oil carrier) as the primary



preservative. From 1955 through 1979, the facility treated telephone poles using a petroleum oil preservative containing pentachlorophenol. Koppers Inc. (the prior facility owner) discontinued all wood-treating operations at the Site in 2006. The former process facilities have been dismantled and removed from the Site. The Site is currently used by TRP Properties, LLC (the current property owner) as a railroad tie grinding facility. In addition, Koppers Inc. leases portions of the property for storage and transfer of untreated railroad ties.

Prior to 1988, the facility was owned and operated by Koppers Company, Inc. In June 1988, BNS Acquisitions, Inc. (a wholly-owned subsidiary of Beazer PLC) acquired 90 percent of the stock of Koppers Company Inc. On December 28, 1988, the Superior facility was sold to Koppers Industries, Inc., and on January 26, 1989, the name Koppers Company Inc. was changed to Beazer Materials and Services, Inc. On April 16, 1990, the name Beazer Materials and Services, Inc. was changed to Beazer East, Inc. The name Koppers Industries, Inc. was changed to Koppers Inc. in February 2003. Koppers Inc. sold the property to TRP Properties, LLC in September 2012. Beazer East, Inc. retains certain environmental responsibilities at the Site, including monitoring and maintenance associated with the closed RCRA surface impoundments.

In 1977, four non-RCRA wastewater impoundments were constructed as part of the facility's wastewater treatment system. The impoundments were closed in 1982 by removing the water and excavating sludges and soils for off-Site disposal.

In 1982, following closure of the non-RCRA wastewater impoundments, two clay-lined impoundments (the RCRA-regulated unit) were constructed to store process wastewater following oil-water separation. These units were considered RCRA units because they contained K001 waste (bottom sediment sludge from the treatment of wastewater from wood-preserving processes that use creosote and/or pentachlorophenol). However, it should be noted that the use of pentachlorophenol as a wood preservative at the Superior facility was discontinued in 1979, three years prior to the construction of the RCRA impoundments. Thus, the RCRA impoundments are not expected to have received wastewater containing pentachlorophenol.

The areal dimensions of the RCRA impoundment system (including berms) are approximately 350 feet by 220 feet. As shown on Figure 1, a portion of the RCRA impoundment system overlies two of the southern non-RCRA impoundments. The non-RCRA impoundments extended north of the RCRA impoundment system by approximately 400 feet.

Closure activities for the RCRA impoundment system were initiated in the early part of 1988. Wastewater and sludges were removed and taken off-Site for disposal prior to closure. The RCRA impoundments were closed in 1989. The closure activities were conducted in accordance with a Closure and Post-Closure Care Plan (Keystone, 1987)

and associated Conditional Closure and Long-Term Care Plan Approval (WDNR, 1987). The completed closure activities were documented in a Construction Documentation Surface Impoundment Closure Report (Keystone, 1989).

Appendix A contains a project activity milestone summary that describes significant project activities and regulatory deliverables.

1.3 CURRENT GROUNDWATER SAMPLING ACTIVITIES

As stated previously, Beazer is currently implementing this post-closure compliance groundwater monitoring program in accordance with the 2002 SAP (formally approved by the WDNR on October 29, 2002). The 2023 groundwater sampling activities were completed on the following dates:

- First semi-annual event - April 25, 2023 through April 27, 2023; and
- Second semi-annual event - October 2, 2023 through October 4, 2023.

A total of 37 wells comprised the monitoring well network during 2023 (Figure 1; Table 1). Three of these 37 wells (W-18D, W-33D, and W-34D) are D-zone (bedrock) wells that are not officially part of the NR 664 RCRA monitoring network, although one or more of these three wells have generally been gauged and/or sampled in conjunction with the semi-annual monitoring events over the last several years.

During the first and second semi-annual 2023 groundwater monitoring events, all existing monitoring wells were gauged to evaluate groundwater flow patterns, and groundwater samples were collected from 10 wells for laboratory analysis (Appendix B contains the field forms from both events). The 10 wells sampled included:

- Upgradient (background) monitoring wells W-04AR2 and W-28C;
- Side-gradient or downgradient monitoring wells W-06A, W-06C, W-10AR2, W-12A, W-12CR, W-30A, and W-30C; and
- Bedrock monitoring well W-18D.

Well W-18D is not a required component of the approved monitoring program, but is sampled periodically at Beazer's discretion. The other nine wells that were sampled represent the required sampling component of the approved RCRA groundwater monitoring program.

1.4 MONITORING WELL STATUS

Monitoring well inspections were performed during both the first and second 2023 semi-annual sampling events. During the April 2023 and October 2023 well inspections, all of the monitoring wells were reported to be in good condition with no major repairs required, with the exception of W-31C, as further discussed below.

During the October 2022 well inspection, well W-31C had an obstruction at 4.67 feet below the top of casing which prevented it from being gauged; this well was further evaluated during the April 2023 event with a downhole camera. The results from the downhole camera inspection are that the inner casing has likely shifted in this monitoring well; a gray residue (possibly grout from the well's seal) was also present in the monitoring well. Note that W-31C was able to be gauged during the April and October 2023 sampling events. Beazer will investigate the condition of this monitoring well further in 2024.

1.5 DOCUMENT ORGANIZATION

The remainder of the 2023 RCRA Annual Groundwater Monitoring Report is organized in the following manner:

- Section 2 – Site Geologic and Hydrologic Conditions
- Section 3 – Groundwater Monitoring Results
- Section 4 – Current Site Status
- Section 5 – References

2.0 SITE GEOLOGIC AND HYDROLOGIC CONDITIONS

The information summarized in Sections 2.1 and 2.2 is based on details presented in previous reports for the Site.

2.1 SITE GEOLOGY

In some areas of the Site, primarily in the vicinity of the former treatment area, a thin layer of fill material is present at the ground surface. However, most of the Site is underlain by a sequence of Quaternary sediments deposited by continental glaciers. Three of the four stratigraphic zones of interest at the Site are within these deposits.

The uppermost stratigraphic unit is a red-brown clay deposit, which likely represents a till composed of reworked lake bottom sediments. The upper approximately 15 feet of the red-brown clay contains hairline fractures filled with greenish-gray silt and clay. The shallow (A-zone) and intermediate (B-zone) zones consist primarily of this clay with little to no sand or gravel.

The lower regions of the red-brown clay unit, which represent the deep zone (C-zone) at the Site, contain discontinuous deposits of fine- to coarse-grained sand and silt. These discontinuous fine to coarse-grained deposits occur at depths that vary from approximately 35 to 50 feet below ground surface (ft-bgs) in certain areas of the Site.

The clay unit continues beneath the discontinuous sand and silt deposits to the top of the Precambrian Lake Superior Sandstone, the uppermost bedrock (D-zone) at the Site. The Precambrian Lake Superior Sandstone occurs regionally at a depth of approximately 170 ft-bgs.

2.2 GROUNDWATER

Perched groundwater may be temporarily retained in the thin fill layer (where present). However, across most of the Site, the uppermost groundwater occurs in an unconfined state within the thick red-brown clay (an aquitard). The A-zone monitoring wells monitor the water table in this shallow clay with the bottom of the screened interval typically located approximately 13.0 to 15.5 ft-bgs. Depth to groundwater in the A-zone wells ranged from 0.50 to 5.24 feet below top of casing (ft-btoc) during the April 2023 event (Table 2A), and from 1.03 to 6.25 ft-btoc during the October 2023 event (Table 2B). Previous geologic studies in the Superior area and aquifer testing at the Site show these clay deposits to have very low intergranular hydraulic conductivities. There are also three B-zone monitoring wells at the Site, which monitor slightly deeper zones within the shallow clay (bottom of the screened interval located approximately 32 to 35 ft-bgs). Depth to groundwater in the B-zone wells ranged from 6.04 to 7.95 ft-btoc

during the April 2023 event (Table 2A), and from 6.49 to 8.26 ft-btoc during the October 2023 event (Table 2B).

The C-zone wells monitor groundwater in the discontinuous silt and sand within the clay unit and are generally screened at depths from approximately 39 to 49 ft-bgs. Groundwater occurs in a confined state within the C-zone. Depth to groundwater in the C-zone wells ranged from 10.49 to 15.44 ft-btoc in April 2023 (Table 2A), and from 10.80 to 15.74 ft-btoc in October 2023 (Table 2B).

Three D-zone wells (W-18D, W-33D, and W-34D) were installed in February 2000 to evaluate groundwater flow and quality in the bedrock zone. These wells are screened at depths of approximately 176 to 196 ft-bgs, and they monitor the Precambrian Lake Superior Sandstone, which is the uppermost bedrock at the Site. Depth to groundwater for the D-zone wells ranged from 38.32 to 45.06 ft-btoc during the April 2023 event (Table 2A) and from 38.96 to 46.62 ft-btoc during the October 2023 event (Table 2B).

Dense Non-Aqueous Phase Liquid (DNAPL)

All accessible wells were gauged for the presence of dense non-aqueous phase liquid (DNAPL) on April 25 through 26, 2023 and October 2, 2023. DNAPL was not observed in any monitoring wells at the Site during either the April or the October 2023 monitoring events.

Groundwater Flow Directions

On April 25 through 26, 2023 and October 2, 2023, the FTS field crew measured and recorded water levels in the Site monitoring well network. Groundwater elevations calculated from these measurements for the first and second semi-annual events are presented in Tables 2A and 2B, respectively. Groundwater elevation contour maps for the A-zone and the C-zone are presented as Figures 2 through 5. Because there are only three D-zone wells at the Site, groundwater elevation contour maps are not prepared for the D-zone. However, based on the potentiometric surface elevations measured for the three wells, it appears that groundwater flow in the D-zone is to the north/northwest.

Historically, groundwater flow patterns in the shallow and intermediate clay indicate localized distortions to the overall northerly flow due to combined effects of variability in recharge; low hydraulic conductivity of the clay; and interactions with surface water (drainage ditches). However, groundwater elevation data consistently support a generally northerly flow direction for groundwater at the Site, which is to be expected based upon the location of regional receiving surface water bodies.

A-zone groundwater elevation contours are presented on Figure 2 (April 25 and 26, 2023) and Figure 4 (October 2, 2023). It should be noted that the development of meaningful

A-zone groundwater elevation contours is complicated by the low hydraulic conductivity of the soil and the presence of drainage ditches. Due to these factors, variable groundwater flow patterns have been observed historically for the A-zone clay unit. Despite the varying patterns associated with contouring shallow groundwater in this setting, the predominant groundwater flow direction in the A-zone is generally northwards.

C-zone groundwater elevation contours are presented on Figure 3 (April 25 and 26, 2023) and Figure 5 (October 2, 2023). The groundwater flow direction in the C-zone is generally toward the north, although it should be noted that the sand lenses in the C-zone are discontinuous and are separated by the red-brown clay aquitard.

The groundwater flow directions in the A- and C-zones determined from the April and October 2023 groundwater elevation data are generally consistent with flow directions determined in previous years.

Vertical Hydraulic Gradients

Vertical gradients were calculated at each of the four A/C zone well nests (Table 3). Vertical gradients were calculated using the difference between the 2023 groundwater elevations at the monitored well nest, divided by the difference in elevation between the center points of the well screens. In special circumstances where the water level in the well is lower than the top of the well screen, then the denominator for this equation is modified to use the average between the elevation of the water level and the bottom of the well screen (see Table 3). By convention, the groundwater elevation of the shallower well is subtracted from the deeper well. If the result is positive, the potentiometric head in the deeper well is higher than the potentiometric head in the shallow well, and, therefore, groundwater flows in an upward or positive direction. Conversely, if the result is negative, groundwater has a downward or negative vertical component.

Vertical hydraulic gradient calculations for the April and October 2023 monitoring events are presented in Table 3. Based on the 2023 water level data, the average vertical gradient between the A- and C-zones was -0.303 ft/ft for the April 2023 monitoring event and -0.299 ft/ft for the October 2023 monitoring event.

The calculated vertical gradients were negative for each well pair evaluated and for each monitoring event, indicating a downward vertical gradient, which is consistent with gradients calculated during previous years. Based on the magnitude of the gradients and low permeability of the A-zone soils, there is minimal hydraulic connection between the A- and C-zones.

Horizontal Hydraulic Gradients

FTS also calculated horizontal hydraulic gradients as presented in Tables 4 (A-Zone) and 5 (C-Zone). These tables list the wells, groundwater elevations, and horizontal distances used to calculate the gradients. Average horizontal hydraulic gradients for the A-zone were 0.0076 ft/ft for the April 2023 monitoring event, and 0.0079 ft/ft for the October 2023 monitoring event. The average horizontal hydraulic gradient for the C-zone was calculated to be 0.0031 ft/ft and 0.0028 ft/ft for the April 2023 and October 2023 monitoring events, respectively. These gradients are generally consistent with gradients calculated during previous years.

Groundwater Flow Velocity

Both horizontal and vertical linear groundwater flow velocities were calculated using groundwater elevation data obtained for each semi-annual event. Groundwater velocity can be estimated using a variation of Darcy's Law:

$$V = \frac{ki}{n_e}$$

where:

- V = velocity
- k = hydraulic conductivity
- n_e = effective porosity
- i = hydraulic gradient

The average hydraulic conductivity for the A-zone is 3.28×10^{-3} feet per day (ft/day) which was determined from an evaluation of slug test data (Chester Environmental, 1995). The average hydraulic conductivity in the C-zone is 22.6 ft/day which was determined from the slug test evaluation (Chester Environmental, 1995).

Based on correspondence with the WDNR, Beazer agreed to use two effective porosity values (0.01 and 0.3) when calculating groundwater flow velocities within the uppermost clay (i.e., A-zone). The 0.3 value is used to evaluate flow through the pore space in the uppermost clay (primary porosity). The 0.01 value is used to evaluate the flow through the microfractures in the uppermost clay (secondary porosity). An effective porosity of 0.2 is used for the discontinuous silt and sand unit (i.e., C-zone) (deMarsily, 1986; Freeze and Cherry, 1979).

Horizontal Groundwater Flow Velocity

Tables 4 and 5 present the procedures and results of the groundwater flow velocity calculations for the A- and C-zones, respectively. The estimated horizontal groundwater velocities for each of the zones, associated with the respective semi-annual sampling events, are summarized below.

A-zone:

2.5×10^{-3} ft/day (April) and 2.6×10^{-3} ft/day (October) ($n_e = 0.01$)
 8.3×10^{-5} ft/day (April) and 8.6×10^{-5} ft/day (October) ($n_e = 0.3$)

C-zone:

3.5×10^{-1} ft/day (April) and 3.2×10^{-1} ft/day (October) ($n_e = 0.2$)

These average horizontal groundwater flow velocities represent an overestimate of the potential rate of dissolved constituent migration in groundwater. Actual constituent flow velocity is lower than calculated groundwater flow velocities because of attenuating effects including adsorption, within the water-bearing zone.

The horizontal groundwater flow velocities calculated using 2023 data are consistent with flow velocities calculated during previous years.

Vertical Groundwater Flow Velocity

Table 6 presents the procedures and results of the vertical groundwater flow velocity calculations. The estimated vertical groundwater velocities for the Site are:

A- to C-zone:

-2.2×10^{-3} ft/day (April) and -2.1×10^{-3} ft/day (October) ($n_e = 0.01$)
 -7.2×10^{-5} ft/day (April) and -7.1×10^{-5} ft/day (October) ($n_e = 0.3$)

A hydraulic conductivity value of 7.1×10^{-5} ft/day, based on laboratory vertical permeability test results, was used to calculate the vertical groundwater velocities. The groundwater flow direction is downward (i.e., negative velocity value). These average linear groundwater flow velocities represent an overestimate of the potential rate of dissolved constituent migration in groundwater. Actual constituent flow velocity is lower than calculated groundwater flow velocities because of attenuating effects including adsorption, within the water-bearing zone. As indicated above, based on the magnitude of the gradients and low permeability of the A-zone soils, there is minimal hydraulic connection between the A and C zones.

The vertical groundwater flow velocities calculated using 2023 data are consistent with flow velocities calculated during previous years.

3.0 GROUNDWATER MONITORING RESULTS

This section summarizes the groundwater sample analytical results for the 2023 semi-annual sampling events. Table 7 lists the general constituent groups and corresponding United States Environmental Protection Agency (USEPA) analytical methods utilized for the groundwater monitoring program as well as the individual compounds per constituent group. Table 8 summarizes data that exceeded the WDNR Preventative Action Limits (PALs) or WDNR Enforcement Standards (ESs) for the April 2023 and October 2023 groundwater sampling events. A map depicting the data for key historical constituents of interest from the first and second semi-annual 2023 sampling events is provided as Figure 6.

Upon receipt, FTS evaluated each laboratory data report. FTS's data evaluation team determined that the 2023 data were valid and useable for their intended purpose. Data evaluation summaries and copies of laboratory reports are provided in Appendix C.

Tables summarizing the parameters detected during each sampling event are included in Appendix D.

3.1 SEMI-VOLATILE ORGANIC COMPOUNDS

As shown on Table 7, samples collected during each 2023 semi-annual sampling event were analyzed for an extended list of semi-volatile organic compounds (SVOCs) by Eurofins Laboratories, Inc., using USEPA Method 8270E LL and pentachlorophenol using USEPA Method 8270D LL.

As shown in Table 8, during the first semi-annual 2023 sampling event, the sample from monitoring well W-04AR2 contained benzo(a)pyrene (0.076 J micrograms per liter [ug/l]), benzo(b)fluoranthene (0.17 J ug/l), and chrysene (0.24 J ug/l) above their WDNR PALs of 0.02 ug/l; chrysene was also detected above its WDNR ESs of 0.2 ug/l. The duplicate sample from monitoring well W-04AR2 also contained benzo(b)fluoranthene (0.089 J ug/l) and chrysene (0.13 J ug/l) above their WDNR PALs (Table 8).

During the second semi-annual 2023 event, the sample from monitoring well W-04AR2 contained chrysene (0.1 J ug/l) above its WDNR PAL of 0.02 ug/l. The sample collected from monitoring well W-06C contained benzo(a)pyrene (0.11 J ug/l), benzo(b)fluoranthene (0.17 J ug/l), and chrysene (0.38 ug/l) above their WDNR PALs of 0.02 ug/l; chrysene was also detected above its WDNR ESs of 0.2 ug/l. The duplicate sample from monitoring well W-10AR2 contained chrysene (0.088 J ug/l) above its WDNR PAL. Bis(2-ethylhexyl)phthalate was detected in the samples collected from monitoring wells W-12A (8 J ug/l) and W-18D (12 ug/l) and the duplicate sample collected from monitoring well W-12CR (11 J ug/l) above its WDNR PAL of 0.6 ug/l

and its WDNR ES of 6 ug/l (Table 8). Bis(2-Ethylexyl)phthalate is not a Site-related constituent of concern and is a known laboratory contaminant.

3.2 DIOXINS AND FURANS

Groundwater samples were analyzed for dioxins and furans by USEPA Method 8290A during the first semi-annual sampling event (April 2023). Dioxins and/or furans were detected in samples collected from all nine of the monitoring wells sampled (W-04AR2, W-06A, W-06C, W-10AR2, W-12A, W-12CR, W-28C, W-30A, and W-30C). The only applicable regulatory standard related to dioxins and furans is for the congener 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). The 2,3,7,8-TCDD congener was detected in three of the nine wells sampled (W-06A, W-12CR, and W-30C) during the first semi-annual 2023 sampling event. The detected 2,3,7,8-TCDD concentrations were all below the WDNR PAL and ES.

As shown in Table 9, the estimated toxicity (relative to 2,3,7,8-TCDD) of the dioxins and furans that were detected was determined by calculating the Toxicity Equivalent Quotient (TEQ) of the detected dioxins and/or furans in each of the subject samples. To calculate the TEQ of a mixture of dioxins and furans in a given sample, an associated Toxicity Equivalency Factor (TEF) is used to adjust the detected concentration of specific dioxin and furan congeners. The TEF values used for this calculation are 2005 World Health Organization (WHO) derived values. Once calculated for each detected constituent, the individual TEQs are summed, resulting in a total TEQ for a given sample. Under Wisconsin Administrative Code NR 140, 2,3,7,8-TCDD has an ES of 0.00003 ug/l and a PAL of 0.000003 ug/l. As shown in Tables 8 and 9, the sample collected from well W-30A was the only sample with a 2,3,7,8-TCDD TEQ value greater than the WDNR PAL for 2,3,7,8-TCDD. None of the samples had 2,3,7,8-TCDD TEQ values greater than the WDNR ES for 2,3,7,8-TCDD.

3.3 VOLATILE ORGANIC COMPOUNDS

Volatile organic compounds (VOCs) were analyzed by Eurofins Laboratories, Inc., using USEPA Method 8260C during each 2023 semi-annual sampling event. As shown on Table 8, benzene was detected in monitoring well W-10AR2 (15 ug/l and 22 ug/l) above the WDNR ES of 5 ug/l and WDNR PAL of 0.5 ug/l during the first and second semi-annual 2023 events. The duplicate sample from monitoring well W-10AR2 collected during the second semiannual 2023 event also contained benzene (20 ug/l) above its WDNR ES and WDNR PAL (Table 8).

3.4 DATA TRENDS

This section of the report presents a discussion of data trends for representative constituents exceeding applicable regulatory standards during the last four sampling events: April and October 2022 and April and October 2023.

3.4.1 A-Zone Wells

Figure 7 presents graphs of recent and historical groundwater monitoring results at two A-zone monitoring wells: W-10AR2 and W-30A. These wells were selected for discussion because samples collected at these wells typically exhibit the highest concentrations and frequency of detection of Site-related constituents among the monitored wells. The constituents selected for trend analysis are benzene, chrysene, naphthalene, and pentachlorophenol. These constituents are considered representative of Site-related constituents that have been detected above WDNR PALs or ESs during the last four monitoring events and are consistent with the constituents selected for trend evaluation in previous annual groundwater monitoring reports.

As shown on Figure 7, samples collected at monitoring well W-10AR2 exhibited concentrations of benzene exceeding its WDNR PAL and WDNR ES in all of the past four sampling rounds, chrysene exceeded its WDNR PAL in three of the past four sampling rounds (one of which was in a duplicate sample only) and chrysene exceeded its WDNR ES in two of the past sampling rounds, naphthalene was detected below its WDNR PAL and WDNR ES in all of the past four sampling rounds, and pentachlorophenol was not detected in any of the last four sampling rounds. At monitoring well W-30A, benzene exceeded its WDNR PAL and WDNR ES in one of the last four sampling rounds, chrysene was not detected in any of the last four sampling rounds, naphthalene exceeded its WDNR PAL in one of the past four sampling rounds, and pentachlorophenol was not detected in any of the last four sampling rounds.

Using these recent data, along with historical data (dating back to 1999) collected from wells W-10AR2 and W-30A for benzene, chrysene, naphthalene, and pentachlorophenol, a linear regression analysis was completed using a 95% confidence level to evaluate whether a data trend exists at wells W-10AR2 and W-30A. The statistical analyses indicate that the long-term trends in the benzene, chrysene, naphthalene, and pentachlorophenol concentrations in wells W-10AR2 and W-30A are stable or decreasing. Details related to the linear regression analysis are provided in Appendix E.

These findings are consistent with the natural attenuation evaluations reported to the WDNR on January 24, 2006, September 18, 2007, and June 12, 2014. Those evaluations documented several lines of evidence indicating the occurrence of natural attenuation of Site-related constituents in groundwater at the Site.

3.4.2 C-Zone Wells

During the April 2022 event, the sample from monitoring well W-12CR contained benzo(b)fluoranthene (0.072 J ug/l) and chrysene (0.093 J ug/l) above their WDNR PALs of 0.02 ug/l; however, these detections were below the WDNR ES for benzo(b)fluoranthene and chrysene (0.2 ug/l). During the October 2022 event, the sample

from monitoring well W-30C contained pentachlorophenol (0.46 J ug/l) above its WDNR PAL of 0.1 ug/l; however, this detection was below the WDNR ES for pentachlorophenol (1 ug/l).

During the April 2023 event, no detections of Site-related constituents above regulatory standards were observed in the C-Zone monitoring wells.

During the October 2023 event, the sample from monitoring well W-06C contained benzo(a)pyrene (0.11 J ug/l), benzo(b)fluoranthene (0.17 J ug/l), and chrysene (0.38 ug/l) above their WDNR PALs of 0.02 ug/l; chrysene was also detected above its WDNR ESs of 0.2 ug/l. Bis(2-ethylhexyl)phthalate was also detected in the duplicate sample collected from monitoring well W-12CR (11 J ug/l) above its WDNR PAL of 0.6 ug/l and its WDNR ES of 6 ug/l. Bis(2-Ethylexyl)phthalate is not a Site-related constituent of concern.

No other detections of Site-related constituents above regulatory standards were observed during the last four sampling events in the C-Zone monitoring wells.

3.4.3 D-Zone Wells

Monitoring well W-18D was sampled during the last four semi-annual sampling events. During the October 2023 event, bis(2-ethylhexyl)phthalate (12 ug/l) was detected above its WDNR PAL of 0.6 ug/l and its WDNR ES of 6 ug/l. Bis(2-Ethylexyl)phthalate is not a Site-related constituent of concern. No other detections of SVOCs above regulatory standards were observed during the last four sampling events in monitoring well W-18D.

4.0 CURRENT SITE STATUS

As indicated by the data presented in Section 3, the extent of impacted groundwater at this Site is not expanding and appears stable. Additional information regarding project milestones and the current Site status is provided in Appendix A. Semi-annual groundwater monitoring will continue in 2024.

5.0 REFERENCES

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Wisconsin Department of Natural Resources (WDNR), 1987, *Conditional Closure and Long-Term Care Plan Approval*, dated October 1, 1987.

WDNR, 2002, *Conditional Closure and Long-Term Care Plan Approval Modification*, dated October 29, 2002.

TABLES

Table 1
Current Monitoring Well Network
2023 RCRA Annual Groundwater Monitoring Report
Former Koppers Inc. Facility - Superior, Wisconsin

W-02C	W-10AR2	W-18D	W-26A	W-32C	W-39A
W-04AR2*	W-11A	W-19A	W-26B	W-33D	W-40A
W-05CR	W-12A	W-19C	W-28C	W-34D	
W-06A	W-12CR	W-20AR	W-29A	W-35A	
W-06C	W-14A	W-21A	W-30A	W-36A	
W-08A	W-14B	W-21B	W-30C	W-37A	
W-09C	W-16AR	W-25A	W-31C	W-38A	

Notes:

All Wells are gauged for groundwater elevations and NAPL presence/absence.

Wells in **bold** type are sampled for laboratory analysis as part of the NR664 groundwater monitoring program.

* Monitoring well W-04AR was abandoned and replaced with well W-04AR2 on July 24, 2017.

In addition to the wells listed in this table as part of the NR664 groundwater monitoring program, bedrock well W-18D was sampled during 2023 at Beazer's discretion.

Table 2A
First Semi-Annual 2023 Groundwater Elevations
2023 RCRA Annual Groundwater Monitoring Report
Former Koppers Inc. Facility - Superior, Wisconsin

Well	Top of Casing Elevation (feet msl)	Top of Screen Elevation (feet msl)	Bottom of Screen Elevation (feet msl)	April 25-26, 2023		
				Depth to Water (feet)	Groundwater Elevation (feet msl)	Apparent DNAPL Thickness (feet msl)
W-02C	672.37	632.65	627.65	10.49	661.88	NP
W-04AR2	676.15	672.53	662.53	3.55	672.60	NP
W-05CR	674.69	643.53	633.53	12.62	662.07	NP
W-06A	673.65	670.04	660.04	3.51	670.14	NP
W-06C	674.33	633.93	628.93	12.35	661.98	NP
W-08A ⁽¹⁾	677.06	670.62	660.62	3.97	673.09	NP
W-09C	673.16	630.41	625.41	11.32	661.84	NP
W-10AR2	677.09	672.77	659.77	4.33	672.76	NP
W-11A	676.40	669.81	659.81	4.51	671.89	NP
W-12A	677.11	673.33	663.33	3.21	673.90	NP
W-12CR	677.39	635.34	630.34	15.44	661.95	NP
W-14A	678.61	673.05	663.05	4.09	674.52	NP
W-14B	677.60	644.97	639.97	6.04	671.56	NP
W-16AR	675.37	668.20	658.20	3.90	671.47	NP
W-18D	674.79	491.23	471.23	45.06	629.73	NP
W-19A	675.39	669.63	659.63	3.92	671.47	NP
W-19C	674.96	635.79	630.79	13.15	661.81	NP
W-20AR	674.72	669.33	659.33	5.08	669.64	NP
W-21A ⁽¹⁾	674.59	667.88	657.88	4.27	670.32	NP
W-21B	674.61	641.71	636.71	7.95	666.66	NP
W-25A	678.77	672.68	662.68	5.24	673.53	NP
W-26A	673.67	668.05	658.05	3.10	670.57	NP
W-26B	674.02	644.42	639.42	7.68	666.34	NP
W-28C	676.33	635.74	630.74	14.08	662.25	NP
W-29A	673.21	668.38	658.38	0.50	672.71	NP
W-30A ⁽¹⁾	676.51	672.86	662.86	2.77	673.74	NP
W-30C	676.91	633.50	628.50	15.18	661.73	NP
W-31C	671.76	626.64	621.64	12.32	659.44	NP
W-32C	672.88	618.93	613.93	13.87	659.01	NP
W-33D	673.43	495.58	475.58	44.64	628.79	NP
W-34D	674.28	496.07	476.07	38.32	635.96	NP
W-35A	675.05	669.28	659.28	3.46	671.59	NP
W-36A	678.44	673.00	663.00	4.20	674.24	NP
W-37A	676.47	671.05	661.05	3.13	673.34	NP
W-38A	676.78	671.35	661.35	2.72	674.06	NP
W-39A	678.40	672.64	662.64	5.12	673.28	NP
W-40A	676.79	671.18	661.18	3.52	673.27	NP

Notes:

feet-msl - Feet above mean sea level

DNAPL - Dense Non-Aqueous Phase Liquid

NP - DNAPL Not Present

⁽¹⁾ - Wells were resurveyed on June 1, 2021.

Table 2B
Second Semi-Annual 2023 Groundwater Elevations
2023 RCRA Annual Groundwater Monitoring Report
Former Koppers Inc. Facility - Superior, Wisconsin

Well	Top of Casing Elevation (feet msl)	Top of Screen Elevation (feet msl)	Bottom of Screen Elevation (feet msl)	October 2, 2023		
				Depth to Water (feet)	Groundwater Elevation (feet msl)	Apparent DNAPL Thickness (feet msl)
W-02C	672.37	632.65	627.65	10.80	661.57	NP
W-04AR2	676.15	672.53	662.53	3.79	672.36	NP
W-05CR	674.69	643.53	633.53	12.92	661.77	NP
W-06A	673.65	670.04	660.04	4.82	668.83	NP
W-06C	674.33	633.93	628.93	12.58	661.75	NP
W-08A ⁽¹⁾	677.06	670.62	660.62	3.96	673.10	NP
W-09C	673.16	630.41	625.41	11.59	661.57	NP
W-10AR2	677.09	672.77	659.77	6.25	670.84	NP
W-11A	676.40	669.81	659.81	4.59	671.81	NP
W-12A	677.11	673.33	663.33	3.18	673.93	NP
W-12CR	677.39	635.34	630.34	15.74	661.65	NP
W-14A	678.61	673.05	663.05	4.87	673.74	NP
W-14B	677.60	644.97	639.97	6.49	671.11	NP
W-16AR	675.37	668.20	658.20	4.00	671.37	NP
W-18D	674.79	491.23	471.23	46.62	628.17	NP
W-19A	675.39	669.63	659.63	4.14	671.25	NP
W-19C	674.96	635.79	630.79	13.36	661.60	NP
W-20AR	674.72	669.33	659.33	5.40	669.32	NP
W-21A ⁽¹⁾	674.59	667.88	657.88	4.35	670.24	NP
W-21B	674.61	641.71	636.71	8.26	666.35	NP
W-25A	678.77	672.68	662.68	5.51	673.26	NP
W-26A	673.67	668.05	658.05	3.62	670.05	NP
W-26B	674.02	644.42	639.42	7.89	666.13	NP
W-28C	676.33	635.74	630.74	14.28	662.05	NP
W-29A	673.21	668.38	658.38	1.03	672.18	NP
W-30A ⁽¹⁾	676.51	672.86	662.86	2.88	673.63	NP
W-30C	676.91	633.50	628.50	15.42	661.49	NP
W-31C	671.76	626.64	621.64	12.89	658.87	NP
W-32C	672.88	618.93	613.93	13.29	659.59	NP
W-33D	673.43	495.58	475.58	45.20	628.23	NP
W-34D	674.28	496.07	476.07	38.96	635.32	NP
W-35A	675.05	669.28	659.28	3.76	671.29	NP
W-36A	678.44	673.00	663.00	4.60	673.84	NP
W-37A	676.47	671.05	661.05	2.70	673.77	NP
W-38A	676.78	671.35	661.35	3.29	673.49	NP
W-39A	678.40	672.64	662.64	5.30	673.10	NP
W-40A	676.79	671.18	661.18	3.80	672.99	NP

Notes:

feet-msl - Feet above mean sea level

DNAPL - Dense Non-Aqueous Phase Liquid

NP - DNAPL Not Present

⁽¹⁾ - Wells were resurveyed on June 1, 2021.

Table 3
Summary of 2023 Vertical Gradients
2023 RCRA Annual Groundwater Monitoring Report
Former Koppers Inc. Facility - Superior, Wisconsin

April 2023

Well Nest		Screen Elevations				Screen Midpoint		Difference Between Screen Midpoints (feet)	Groundwater Elevation		Difference in Groundwater Elevations (feet)	Is h1<t1	Vertical Gradient	
Well 1	Well 2	Well 1		Well 2		Well 1	Well 2		Well 1	Well 2				
		Top (feet msl)	Bottom (feet msl)	Top (feet msl)	Bottom (feet msl)	---- (feet msl)	---- (feet msl)		---- (feet msl)	---- (feet msl)				
		t1	b1	t2	b2	$\frac{(t1+b1)}{2}$	$\frac{(t1+b1)}{2}$	$\frac{(t1+b1)}{2}$	$\frac{(t1+b1)}{2}$	h1	h2	h2-h1	(If yes)	(If no)
W-06A	W-06C	670.04	660.04	633.98	628.98	665.04	631.48	33.56	670.14	661.98	-8.16	no		-0.243
W-12A	W-12CR	673.33	663.33	635.34	630.34	668.33	632.84	35.49	673.90	661.95	-11.95	no		-0.337
W-19A	W-19C	669.74	659.74	635.79	630.79	664.74	633.29	31.45	671.47	661.81	-9.66	no		-0.307
W-30A	W-30C	672.90	662.90	633.50	628.50	667.90	631.00	36.90	673.74	661.73	-12.01	no		-0.325
AVERAGE VERTICAL GRADIENT⁽¹⁾ Between Zones A and C												-0.303		

October 2023

Well Nest		Screen Elevations				Screen Midpoint		Difference Between Screen Midpoints (feet)	Groundwater Elevation		Difference in Groundwater Elevations (feet)	Is h1<t1	Vertical Gradient	
Well 1	Well 2	Well 1		Well 2		Well 1	Well 2		Well 1	Well 2				
		Top (feet msl)	Bottom (feet msl)	Top (feet msl)	Bottom (feet msl)	---- (feet msl)	---- (feet msl)		---- (feet msl)	---- (feet msl)				
		t1	b1	t2	b2	$\frac{(t1+b1)}{2}$	$\frac{(t1+b1)}{2}$	$\frac{(t1+b1)}{2}$	$\frac{(t1+b1)}{2}$	h1	h2	h2-h1	(If yes)	(If no)
W-06A	W-06C	670.04	660.04	633.98	628.98	665.04	631.48	33.56	668.83	661.75	-7.08	yes	-0.215	
W-12A	W-12CR	673.33	663.33	635.34	630.34	668.33	632.84	35.49	673.93	661.65	-12.28	no		-0.346
W-19A	W-19C	669.74	659.74	635.79	630.79	664.74	633.29	31.45	671.25	661.60	-9.65	no		-0.307
W-30A	W-30C	672.90	662.90	633.50	628.50	667.90	631.00	36.90	673.63	661.49	-12.14	no		-0.329
AVERAGE VERTICAL GRADIENT⁽¹⁾ Between Zones A and C												-0.299		

Notes:

⁽¹⁾ The Average Vertical Gradient was calculated using nested well sets. The Vertical Gradient was calculated by dividing the Difference in Groundwater Elevations by Difference Between Screen Midpoint Elevations. All of the Vertical Gradients were then averaged to yield the Average Vertical Gradient between the two monitored zones. Negative values indicate a downward vertical gradient.

Table 4
2023 Horizontal Groundwater Flow Velocities for the A-Zone
2023 RCRA Annual Groundwater Monitoring Report
Former Koppers Inc. Facility - Superior, Wisconsin

Parameters	First Semi-Annual 4/25-26/2023	Second Semi-Annual 10/2/2023
Hydraulic Gradient (i1) Vicinity of W-36A to W-04AR2		
Upgradient Elevation (ft, msl), (h1)	674.24	673.84
Downgradient Elevation (ft, msl), (h2)	672.60	672.36
Horizontal Distance Between Up and Downgradient Elevation (ft), (l)	713.32	713.32
Horizontal Hydraulic Gradient (i1=(h1-h2)/l)	0.0023	0.0021
Hydraulic Gradient (i2) Vicinity of W-19A to W-20AR		
Upgradient Elevation (ft, msl), (h1)	671.47	671.25
Downgradient Elevation (ft, msl), (h2)	669.64	669.32
Horizontal Distance Between Up and Downgradient Elevation (ft), (l)	166.81	166.81
Horizontal Hydraulic Gradient (i2 = (h1-h2)/l)	0.0110	0.0116
Hydraulic Gradient (i3) Vicinity of W-08A to W-21A		
Upgradient Well - Elevation (ft, msl), (h1)	673.09	673.10
Downgradient Well - Elevation (ft, msl), (h2)	670.32	670.24
Horizontal Distance Between Up and Downgradient Well (ft), (l)	288.00	288.00
Horizontal Hydraulic Gradient (i3 = (h1-h2)/l)	0.0096	0.0099
Average Hydraulic Gradient $i = (i1 + i2 + i3)/3$	0.0076	0.0079
Average Hydraulic Conductivity (K) (foot per day)	0.00328	0.00328
Effective Porosity (n)	0.01	0.01
Effective Porosity (n)	0.30	0.30
Average Groundwater Velocity		
(V = Ki/n) (feet per day), Where n = 0.01	2.5E-03	2.6E-03
(V = Ki/n) (feet per day), Where n = 0.30	8.3E-05	8.6E-05

Notes:

Average hydraulic conductivity determined from slug tests (Chester Environmental, 1995).

Effective porosity was derived from literature values (de Marsily, 1986; Freeze and Cherry, 1979).

ft = feet

msl = mean sea level

Table 5
2023 Horizontal Groundwater Flow Velocities for the C-Zone
2023 RCRA Annual Groundwater Monitoring Report
Former Koppers Inc. Facility - Superior, Wisconsin

Parameters	First Semi-Annual 4/25-26/2023	Second Semi-Annual 10/3-4/2022
Hydraulic Gradient (i1) Vicinity of W-28C to W-32C		
Upgradient Elevation (ft, msl), (h1)	662.25	662.05
Downgradient Elevation (ft, msl), (h2)	659.01	659.59
Horizontal Distance Between Up and Downgradient Elevations (ft), (l)	1377.00	1377.00
Horizontal Hydraulic Gradient ($i1=(h1-h2)/l$)	0.0024	0.0018
Hydraulic Gradient (i2) Vicinity of W-30C to W-32C		
Upgradient Elevation (ft, msl), (h1)	661.73	661.49
Downgradient Elevation (ft, msl), (h2)	659.01	659.59
Horizontal Distance Between Up and Downgradient Elevations (ft), (l)	723.89	487.95
Horizontal Hydraulic Gradient ($i2 = (h1-h2)/l$)	0.0038	0.0039
Average Hydraulic Gradient $i = (i1 + i2)/2$	0.0031	0.0028
Average Hydraulic Conductivity (K) (foot per day)	22.6	22.6
Effective Porosity (n)	0.20	0.20
Average Groundwater Velocity		
(V = Ki/n) (feet per day), Where n = 0.20	3.5E-01	3.2E-01

Notes:

Average hydraulic conductivity determined from slug tests (Chester Environmental, 1995).
Effective porosity was derived from literature values (de Marsily, 1986; Freeze and Cherry, 1979).
ft = feet
msl = mean sea level

Table 6
Summary of 2023 Vertical Groundwater Flow Velocities
for the A to C Zones
2023 RCRA Annual Groundwater Monitoring Report
Former Koppers Inc. Facility - Superior, Wisconsin

Parameters	First Semi-Annual 4/25-26/2023	Second Semi-Annual 10/3/2023
Average Vertical Hydraulic Gradient (i from Table 3)	-0.303	-0.299
Vertical Hydraulic Conductivity (K) (feet/day)⁽¹⁾	7.1E-05	7.1E-05
Effective Porosity (n)	0.01	0.01
Effective Porosity (n)	0.30	0.30
Average Groundwater Flow Velocity⁽²⁾		
V=Ki/n (ft/day) Where n=0.01	-2.2E-03	-2.1E-03
V=K/in (ft/day) Where n=0.3	-7.2E-05	-7.1E-05

Notes:

- (1) The Average Vertical Hydraulic Conductivity value of 7.1 E-05 feet/day was derived from laboratory permeability tests.
- (2) The Average Groundwater Velocity was calculated using Darcy's Law given above. The Average Vertical Gradient hydraulic conductivity and effective porosity were used in this calculation. By convention, a positive Vertical Gradient represents an upward flow while a negative Vertical Gradient represents a downward flow.

Table 7
Constituent Groups and EPA Analytical Methods
2023 RCRA Annual Groundwater Monitoring Report
Former Koppers Inc. Facility - Superior, Wisconsin

Field Indicators	
pH - EPA Method 9040	Specific Conductance - EPA Method 9050
Temperature - EPA Method 170.1	
Apparent Color (Visual)	
Semi-Annual Analyses	
VOCs - EPA Method 8260C	
Benzene ⁽¹⁾	1,3,5 Trimethylbenzene
Ethylbenzene	1,1,1- Trichloroethane
Methyl-tert-butylether	n-Butylbenzene
Toluene	Chloromethane
o-Xylene	n-Propylbenzene
p-Xylene	Naphthalene
m-Xylene	Styrene
1,2,4- Trimethylbenzene	
Semi-Volatile Organic Constituents - EPA Method 8270D LL / 8270E LL	
1,2,4-Trichlorobenzene	4-Nitroaniline
1,2-Dichlorobenzene	4-Nitrophenol
1,3-Dichlorobenzene	Acenaphthene
1,4-Dichlorobenzene	Acenaphthylene
2,4,5-Trichlorophenol	Anthracene
2,4,6-Trichlorophenol	Benzo(a)anthracene
2,4-Dichlorophenol	Benzo(a)pyrene
2,4-Dimethylphenol	Benzo(b)fluoranthene
2,4-Dinitrotoluene ⁽¹⁾	Benzoic Acid
2,4-Dinitrophenol	Benzyl Alcohol
2,6-Dinitrotoluene ⁽¹⁾	Benzo(g,h,i)perylene
2-Chloronaphthalene	Bis(2-chloroethyl)ether
2-Chlorophenol	Bis(2-chloroethoxy)methane
2-Methylnaphthalene	Bis(2-chloroisopropyl)ether
2-Methylphenol	Bis(2-ethylhexyl)phthalate ⁽¹⁾
2-Nitroaniline	Benzo(k)fluoranthene
2-Nitrophenol	Butyl benzyl phthalate
3,3-Dichlorobenzidine	Chrysene
3-Nitroaniline	Dibenzo(a,h)anthracene
4,6-Dinitro-2-methylphenol	Dibenzofuran
4-Bromophenyl phenyl ether	Diethyl phthalate
4-Chloro-3-methylphenol	Dimethyl phthalate
4-Chloroaniline	Di-n-octyl phthalate
4-Chlorophenyl phenyl ether	Di-n-butyl phthalate
4-Methylphenol	Fluorene
Fluoranthene	Nitrobenzene
Hexachlorobutadiene	N-Nitrosodiphenylamine
Hexachlorocyclopentadiene	N-Nitrosodi-n-propylamine
Hexachlorobenzene	Pentachlorophenol
Hexachloroethane	Phenanthrene
Indeno(1,2,3-cd)pyrene	Phenol
Isophorone	1-Methylnaphthalene
Pyrene	2,3,5,6 - Tetrachlorophenol
2,3,4,6 - Tetrachlorophenol	
Annual Analyses (First Semi-Annual Event Only)	
Dioxins and Dibenzofurans - EPA Method 8290A	
Furans	Dioxins
TCDFs (total)	TCDDs (total)
2,3,7,8-TCDF	2,3,7,8-TCDD
PeCDFs (total)	PeCDDs (total)
1,2,3,7,8-PeCDF	1,2,3,7,8-PECDD
2,3,4,7,8-PeCDF	HxCDDs (total)
HxCDFs (total)	1,2,3,4,7,8-HxCDD
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
2,3,4,6,7,8,HxCDF	HpCDDs (total)
1,2,3,7,8,9-HxCDF	1,2,3,4,6,7,8-HpCDD
HpCDFs (total)	OCDDs (total)
1,2,3,4,6,7,8-HpCDF	
1,2,3,4,7,8,9-HpCDF	
OCDFs (total)	

Notes:

(1) Report to lowest level of quantitation possible.

Table 8
Summary of Regulatory Exceedances
First and Second Semi-Annual 2023 Sampling Events
2023 RCRA Annual Groundwater Monitoring Report
Former Koppers Inc. Facility - Superior, Wisconsin

Well	Parameter	Sample Result (ug/L)	Regulatory Standard (ug/L)
First Semi-Annual Sampling Event			
ES Exceedance			
W-04AR2	Chrysene	0.24 J	0.2
W-10AR2	Benzene	15	5
PAL Exceedance			
W-04AR2	Benzo(a)pyrene	0.076 J	0.02
	Benzo(b)fluoranthene	0.17 J	0.02
	Chrysene	0.24 J	0.02
W-04AR2 DUP	Benzo(b)fluoranthene	0.089 J	0.02
	Chrysene	0.13 J	0.02
W-10AR2	Benzene	15	0.5
W-30A	2,3,7,8-TCDD TEQ	4.55E-06	0.000003
Second Semi-Annual Sampling Event			
ES Exceedance			
W-06C	Chrysene	0.38	0.2
W-10AR2	Benzene	22	5
W-10AR2 DUP	Benzene	20	5
W-12A	bis(2-Ethylhexyl)phthalate	8 J	6
W-12CR DUP	bis(2-Ethylhexyl)phthalate	11 J	6
W-18D	bis(2-Ethylhexyl)phthalate	12	6
PAL Exceedance			
W-04AR2	Chrysene	0.1 J	0.02
W-06C	Benzo(a)pyrene	0.11 J	0.02
	Benzo(b)fluoranthene	0.17 J	0.02
	Chrysene	0.38	0.02
W-10AR2	Benzene	22	0.5
W-10AR2 DUP	Benzene	20	0.5
	Chrysene	0.088 J	0.02
W-12A	bis(2-Ethylhexyl)phthalate	8 J	0.6
W-12CR DUP	bis(2-Ethylhexyl)phthalate	11 J	0.6
W-18D	bis(2-Ethylhexyl)phthalate	12	0.6

Notes:

µg/L - micrograms per liter

J - estimated result

ES - WDNR Enforcement Standards

PAL - WDNR Preventative Action Limits

TEQ - Toxicity Equivalent Quotient

*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 9
Toxicity Equivalent Quotient of Detected Dioxin and Furans
2023 RCRA Annual Groundwater Monitoring Report
Former Koppers Inc. Facility - Superior, Wisconsin

ANALYTE NAME	UNITS	TEFs	W-04AR2 4/27/2023	W-04AR2 DUP 4/27/2023	W-06A 4/26/2023	W-06C 4/26/2023	W-10AR2 4/27/2023	W-12A 4/27/2023	W-12CR 4/26/2023	W-28C 4/26/2023	W-28C DUP 4/26/2023	W-30A 4/27/2023	W-30C 4/26/2023	Equipment Blank 4/26/2023
8290A														
1,2,3,4,6,7,8-HPCDD	UG/L	0.01	0.00005 U	0.000054 J	0.000051 U	0.000048 U	0.000054 U	0.000069	0.0000024 U	0.000048 U	0.000049 U	0.00013	0.000048 U	0.0000067 U
1,2,3,4,6,7,8-HPCDF	UG/L	0.01	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000052 U	0.000053 U	0.000048 U	0.000049 U	0.000051 U	0.000048 U	0.0000036 JI
1,2,3,4,7,8,9-HPCDF	UG/L	0.01	0.00005 U	0.000051 U	0.000051 U	0.0000022 U	0.000054 U	0.000052 U	0.000053 U	0.000048 U	0.000049 U	0.000051 U	0.000048 U	0.0000022 U
1,2,3,4,7,8-HXCDD	UG/L	0.1	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000052 U	0.000053 U	0.000048 U	0.000049 U	0.000051 U	0.000048 U	0.000001 J
1,2,3,4,7,8-HXCDF	UG/L	0.1	0.0000055 J	0.0000013 JI	0.0000009 JI	0.0000031 U	0.0000011 JI	0.0000051 J	0.0000082 JI	0.0000019 J	0.0000014 J	0.0000078 J	0.0000041 U	0.0000015 U
1,2,3,6,7,8-HXCDD	UG/L	0.1	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000052 U	0.0000017 U	0.0000014 U	0.0000022 U	0.000051 U	0.000048 U	0.0000026 JI
1,2,3,6,7,8-HXCDF	UG/L	0.1	0.0000021 U	0.0000017 JI	0.00000088 JI	0.0000011 JI	0.0000017 JI	0.0000064 JI	0.0000087 JI	0.0000011 J	0.0000011 JI	0.000015 J	0.0000044 U	0.0000016 U
1,2,3,7,8,9-HXCDD	UG/L	0.1	0.000001 JI	0.0000021 J	0.00000054 JI	0.0000015 U	0.00000053 JI	0.0000017 JI	0.00000035 JI	0.00000054 J	0.00000063 JI	0.0000024 J	0.00000044 J	0.0000016 U
1,2,3,7,8,9-HXCDF	UG/L	0.1	0.0000027 U	0.0000029 U	0.0000004 JI	0.0000042 U	0.0000036 U	0.000001 U	0.0000017 U	0.0000037 U	0.0000003 U	0.000012 U	0.0000055 U	0.0000002 U
1,2,3,7,8-PECDD	UG/L	1	0.0000015 U	0.000051 U	0.000051 U	0.000048 U	0.0000018 U	0.000052 U	0.000053 U	0.000048 U	0.000049 U	0.0000035 U	0.0000025 U	0.0000042 J
1,2,3,7,8-PECDF	UG/L	0.03	0.00005 U	0.000051 U	0.0000022 U	0.000048 U	0.000054 U	0.000052 U	0.000053 U	0.000048 U	0.000049 U	0.0000068 U	0.000048 U	0.0000024 JI
2,3,4,6,7,8-HXCDF	UG/L	0.1	0.0000066 JI	0.0000024 U	0.0000055 JI	0.0000096 JI	0.0000086 JI	0.0000012 JI	0.0000014 U	0.0000031 U	0.0000026 U	0.0000022 JI	0.0000047 U	0.0000017 U
2,3,4,7,8-PECDF	UG/L	0.3	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000052 U	0.0000013 U	0.000048 U	0.000049 U	0.000051 U	0.000048 U	0.0000012 U
2,3,7,8-TCDD	UG/L	1	0.0000018 U	0.0000027 U	0.00000021 JI	0.0000017 U	0.0000011 U	0.00000095 U	0.00000026 J	0.0000019 U	0.0000015 U	0.0000019 U	0.0000002 JI	0.0000015 U
2,3,7,8-TCDF	UG/L	0.1	0.0000015 U	0.00001 U	0.00001 U	0.0000013 U	0.00000092 U	0.00001 U	0.000011 U	0.0000097 U	0.0000097 U	0.0000012 U	0.0000012 U	0.00000079 U
OCDD	UG/L	0.0003	0.00013 J	0.00054 J	0.00011 J	0.000097 U	0.00021	0.00057	0.00011 U	0.000097 U	0.000097 U	0.0016	0.000095 U	0.0000029 JI
OCDF	UG/L	0.0003	0.000099 U	0.0001 U	0.0001 U	0.000097 U	0.00011 U	0.0001 U	0.00011 U	0.000097 U	0.000097 U	0.00011	0.000095 U	0.00000033 JI
TOTAL HPCDD	UG/L	NA	0.000086 JI	0.00046 J	0.000051 U	0.000048 U	0.000054 U	0.00013	0.000053 U	0.000048 U	0.000049 U	0.00029	0.000048 U	0.0000067 U
TOTAL HPCDF	UG/L	NA	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000063 I	0.000053 U	0.000048 U	0.000049 U	0.00015	0.000048 U	0.0000056 JI
TOTAL HXCDD	UG/L	NA	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000052 U	0.000053 U	0.000048 U	0.000049 U	0.000051 U	0.000048 U	0.0000013 JI
TOTAL HXCDF	UG/L	NA	0.0000081 JI	0.000021 JI	0.000011 JI	0.0000038 JI	0.000028 JI	0.000068 I	0.0000017 JI	0.0000046 JI	0.0000034 JI	0.00017 I	0.0000058 JI	0.0000002 U
TOTAL PECDD	UG/L	NA	0.0000015 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000052 U	0.000053 U	0.000048 U	0.000049 U	0.0000035 U	0.0000025 U	0.00000042 J
TOTAL PECDF	UG/L	NA	0.00005 U	0.000051 U	0.000051 U	0.000048 U	0.000054 U	0.000052 I	0.000053 U	0.000048 U	0.000049 U	0.00017 I	0.000048 U	0.00000024 JI
TOTAL TCDD	UG/L	NA	0.0000018 U	0.00001 U	0.00001 U	0.0000017 U	0.0000011 U	0.00001 U	0.000011 U	0.0000019 U	0.0000015 U	0.00001 U	0.0000095 U	0.00000048 JI
TOTAL TCDF	UG/L	NA	0.0000099 U	0.00001 U	0.00001 U	0.0000097 U	0.000011 U	0.000024 J+I	0.000011 U	0.0000097 U	0.0000097 U	0.000033 J+	0.000011 J+I	0.00000029 JI
2,3,7,8-TCDD TEQ - ND = 0	UG/L	NA	2.60E-07	1.21E-06	5.70E-07	2.06E-07	4.82E-07	2.30E-06	4.64E-07	3.54E-07	3.13E-07	4.55E-06	2.44E-07	5.58E-07




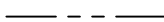






Notes:

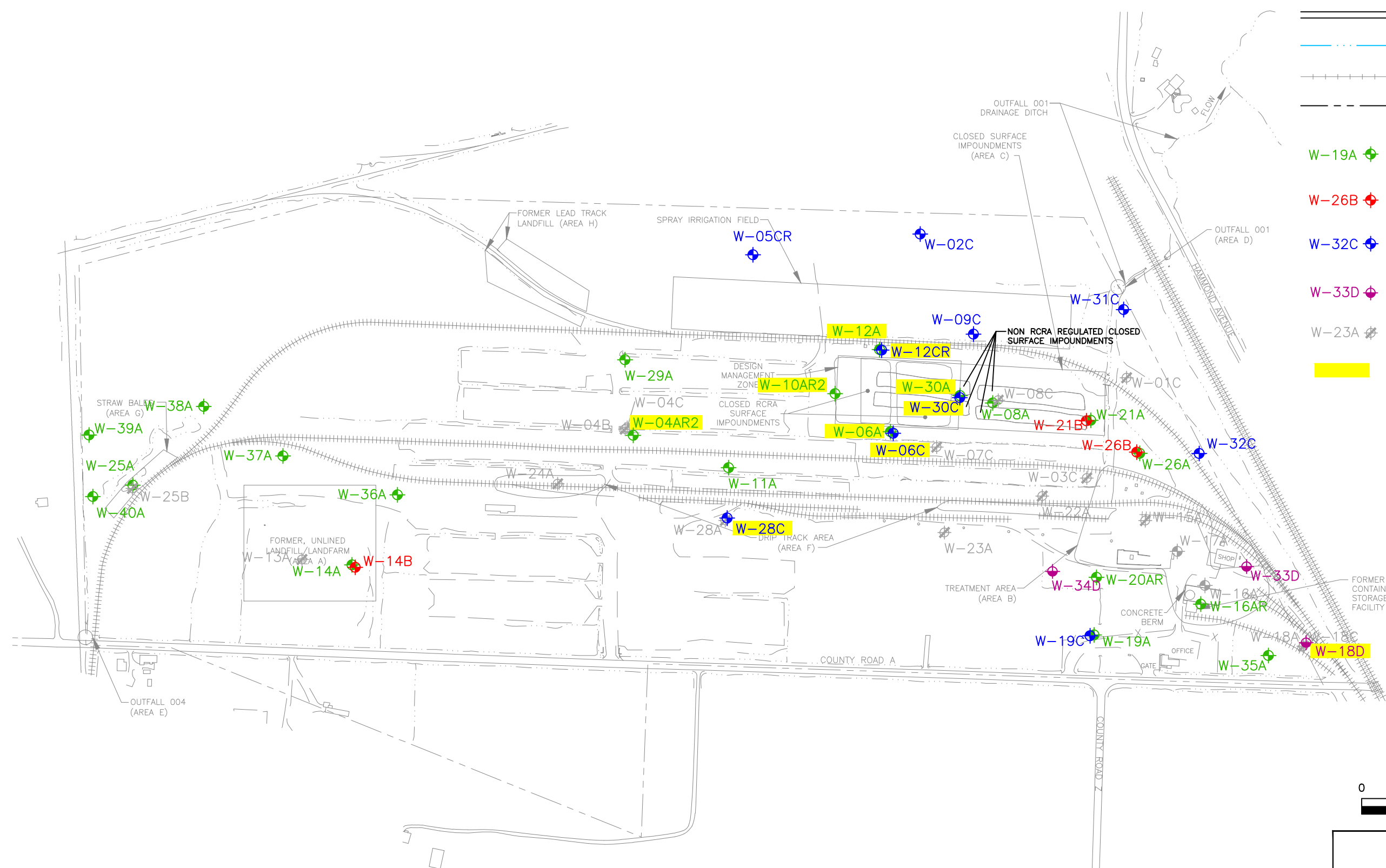
- U Indicates compound was not detected
- J Indicates an estimated value
- J+ Indicates an estimated value biased high
- I Indicates value is estimated maximum possible concentration
- TEQ = Toxicity Equivalent Quotient
- TEQs were calculated using zero for nondetected values
- TEF = Toxicity Equivalent Factor
- TEFs values taken from the 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds


FIGURES



LEGEND

-  ROAD
-  STREAM OR DITCH
-  RAILROAD TRACKS
-  APPROXIMATE PROPERTY BOUNDARY
-  A ZONE GROUNDWATER MONITORING WELL
-  B ZONE GROUNDWATER MONITORING WELL
-  C ZONE GROUNDWATER MONITORING WELL
-  BEDROCK ZONE GROUNDWATER MONITORING WELL
-  ABANDONED WELL
-  SAMPLED WELL LOCATION



BEAZER EAST, INC. PITTSBURGH, PENNSYLVANIA			
DRWN: KLC	DATE: 04/27/23		FIELD & TECHNICAL SERVICES, LLC
CHKD: AMG	DATE: 04/27/23		200 THIRD AVENUE
APPD: JSZ	DATE: 05/16/23		CARNEGIE, PA 15106
SCALE: AS SHOWN	ISSUE DATE:		
FORMER KOPPERS INC. FACILITY SUPERIOR, WISCONSIN			
SITE MAP			PROJECT NO: 0M055623 DRAWING NUMBER FIGURE 1

REFERENCE: WISCONSIN STATE PLANE COORDINATE SYSTEM.

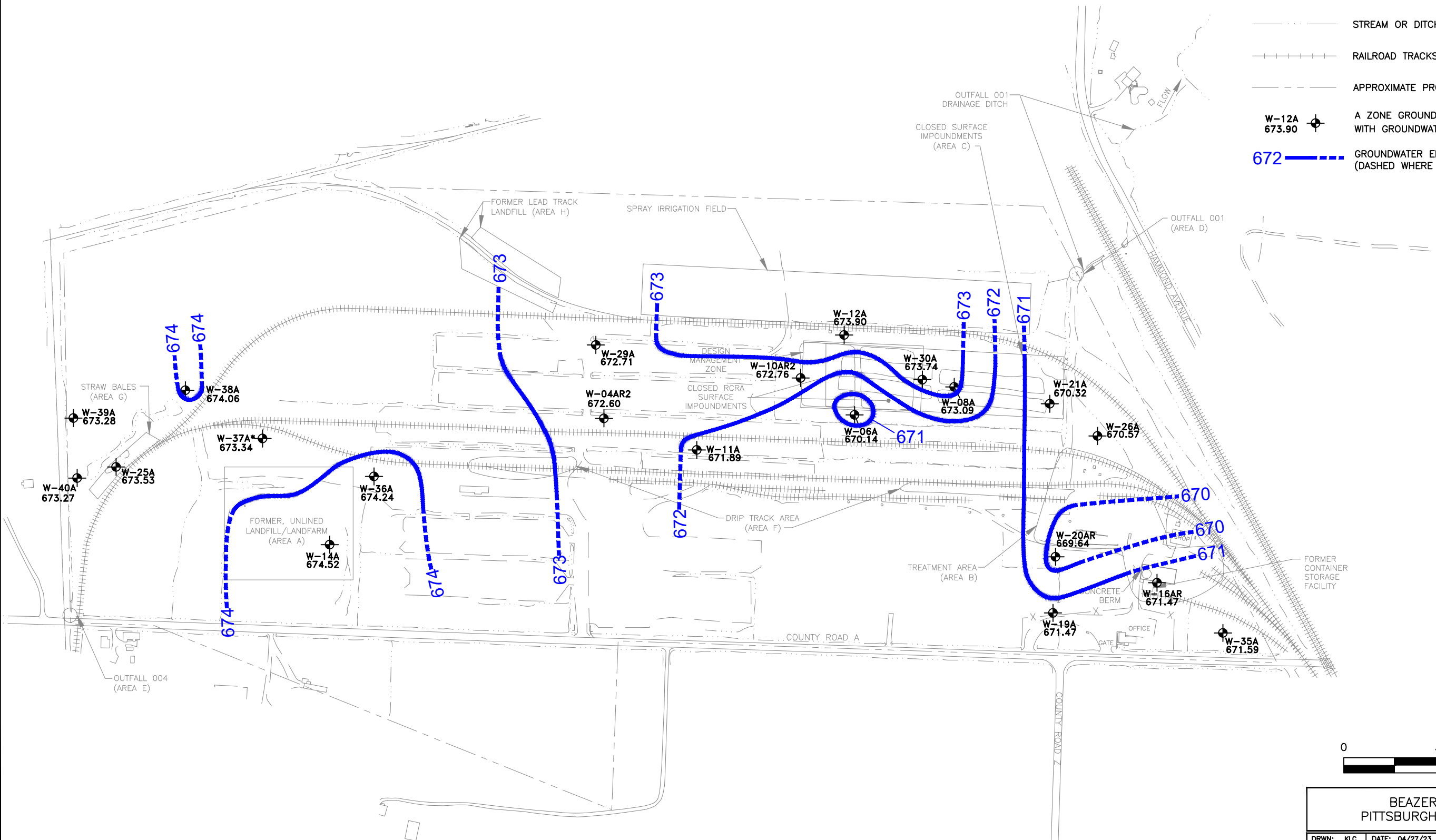
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REV #	DATE	DESCRIPTION	APPD

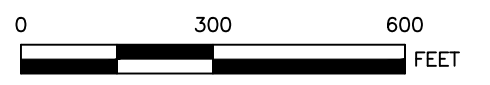


LEGEND

- ROAD
- STREAM OR DITCH
- RAILROAD TRACKS
- APPROXIMATE PROPERTY BOUNDARY
- W-12A
673.90 A ZONE GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION (FT-MSL)
- 672 GROUNDWATER ELEVATION CONTOUR (FT-MSL) (DASHED WHERE INFERRED)



c:\projects\beazer_projects\superior\cadd\2023 annual report\Figure 2.dwg Last Saved By: Scanner 4/28/2023 6:41 AM Plotted By: Shelly Comer 4/28/2023 6:58 AM Scale: 1:1



BEAZER EAST, INC. PITTSBURGH, PENNSYLVANIA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DRWN: KLC</td> <td>DATE: 04/27/23</td> </tr> <tr> <td>CHKD: RMW</td> <td>DATE: 04/27/23</td> </tr> <tr> <td>APPD: JSZ</td> <td>DATE: 05/16/23</td> </tr> <tr> <td>SCALE: AS SHOWN</td> <td></td> </tr> <tr> <td>ISSUE DATE:</td> <td></td> </tr> </table>	DRWN: KLC	DATE: 04/27/23	CHKD: RMW	DATE: 04/27/23	APPD: JSZ	DATE: 05/16/23	SCALE: AS SHOWN		ISSUE DATE:		 FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106
DRWN: KLC	DATE: 04/27/23										
CHKD: RMW	DATE: 04/27/23										
APPD: JSZ	DATE: 05/16/23										
SCALE: AS SHOWN											
ISSUE DATE:											
FORMER KOPPERS INC. FACILITY SUPERIOR, WISCONSIN											
GROUNDWATER ELEVATION CONTOURS A-ZONE WELLS (APRIL 25-26, 2023)	PROJECT NO: 0M055623 DRAWING NUMBER FIGURE 2										

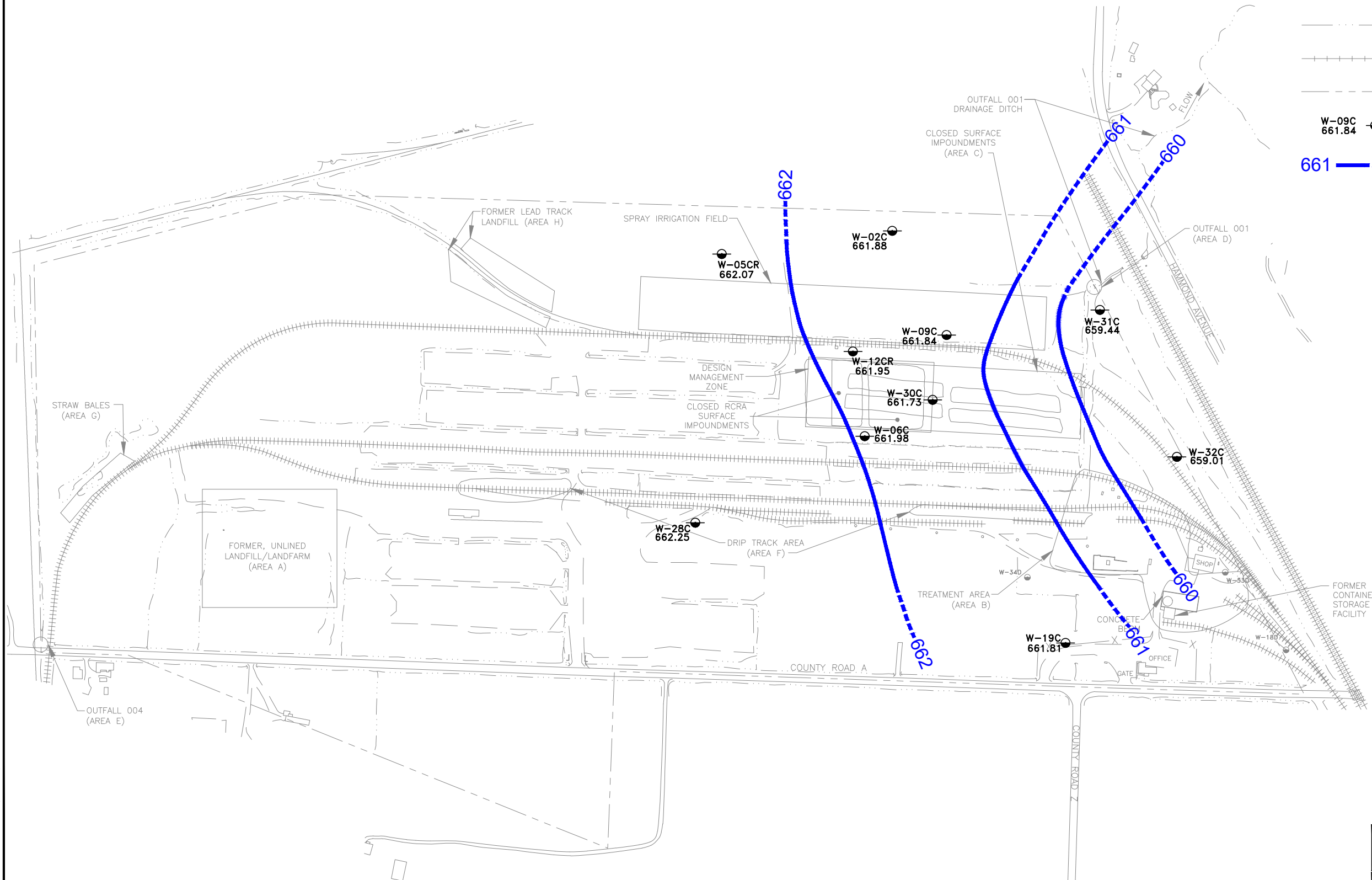
REFERENCE: WISCONSIN STATE PLANE COORDINATE SYSTEM.
 BASE MAP AND TOPOGRAPHY OBTAINED FROM PHOTOGRAMMETRY PERFORMED BY LOCKWOOD MAPPING COMPANY OF ROCHESTER, NY (12/28/01).
 ALL LOCATIONS ARE APPROXIMATE
 * WATER LEVEL MEASURED FOR W-37A WAS ANOMALOUSLY LOW BASED ON A COMPARISON TO HISTORICAL DATA FOR THIS WELL, AND WAS THEREFORE NOT USED FOR CONTOURING.

REV #	DATE	DESCRIPTION	APPD

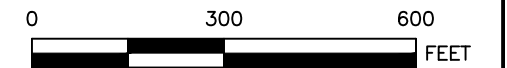


LEGEND

- ROAD
- STREAM OR DITCH
- RAILROAD TRACKS
- APPROXIMATE PROPERTY BOUNDARY
- W-09C
661.84 C ZONE GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION (FT-MSL)
- 661 GROUNDWATER ELEVATION CONTOUR (FT-MSL) (DASHED WHERE INFERRED)



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BEAZER EAST, INC. PITTSBURGH, PENNSYLVANIA			
DRWN: KLC CHKD: RMW APPD: JSZ SCALE: AS SHOWN ISSUE DATE:	DATE: 04/27/23 DATE: 04/27/23 DATE: 05/16/23		FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106
FORMER KOPPERS INC. FACILITY SUPERIOR, WISCONSIN			
GROUNDWATER ELEVATION CONTOURS C-ZONE WELLS (APRIL 25-26, 2023)			PROJECT NO: 0M055623 DRAWING NUMBER FIGURE 3

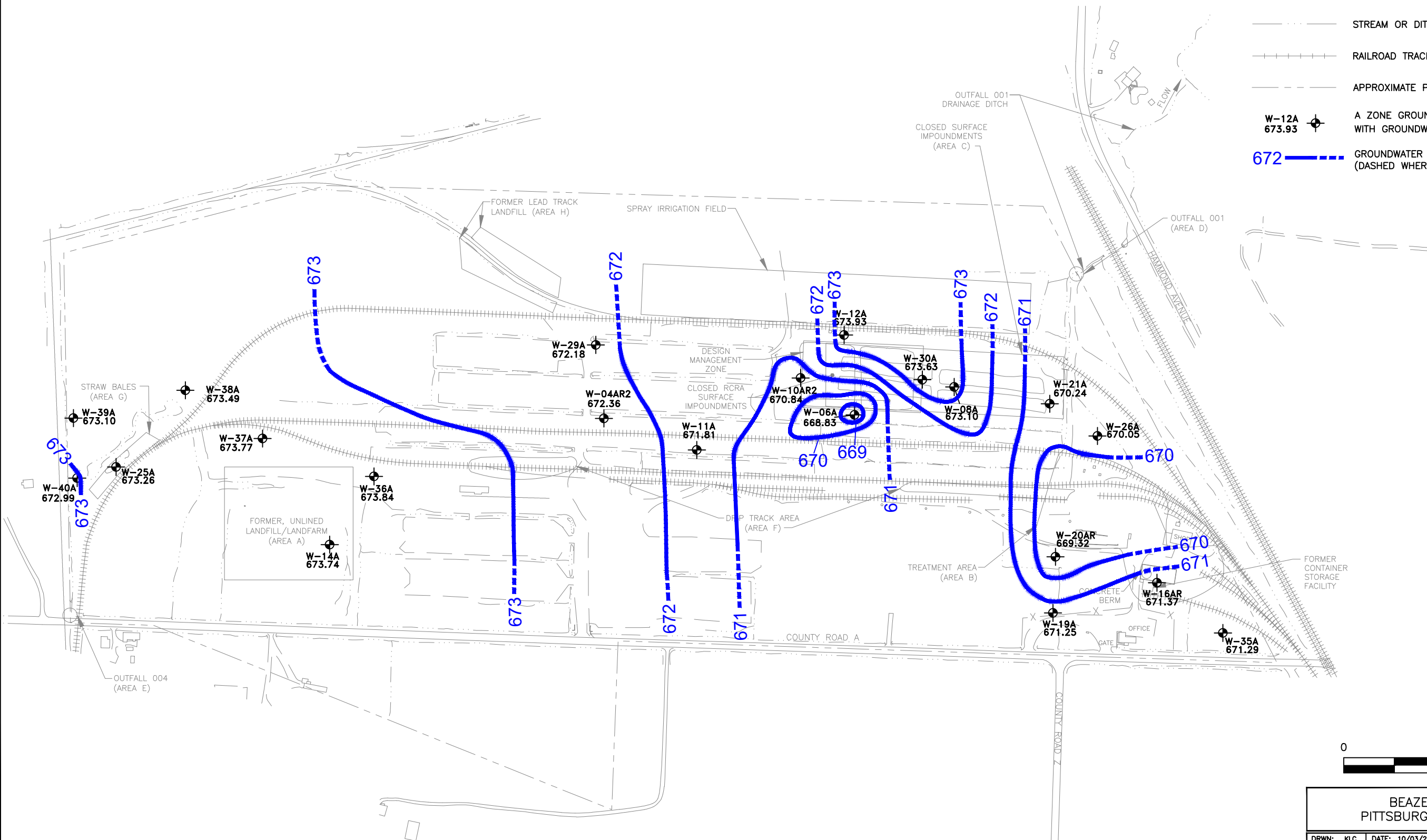
REFERENCE: WISCONSIN STATE PLANE COORDINATE SYSTEM.
 BASE MAP AND TOPOGRAPHY OBTAINED FROM PHOTOGRAMMETRY PERFORMED BY LOCKWOOD MAPPING COMPANY OF ROCHESTER, NY (12/28/01).
 ALL LOCATIONS ARE APPROXIMATE.

REV #	DATE	DESCRIPTION	APPD



LEGEND

- ROAD
- STREAM OR DITCH
- RAILROAD TRACKS
- APPROXIMATE PROPERTY BOUNDARY
- W-12A 673.93 A ZONE GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION (FT-MSL)
- 672 GROUNDWATER ELEVATION CONTOUR (FT-MSL) (DASHED WHERE INFERRED)



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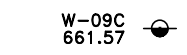


REV #	DATE	DESCRIPTION	APPD

REFERENCE: WISCONSIN STATE PLANE COORDINATE SYSTEM.
 BASE MAP AND TOPOGRAPHY OBTAINED FROM PHOTOGRAMMETRY PERFORMED BY LOCKWOOD MAPPING COMPANY OF ROCHESTER, NY (12/28/01).
 ALL LOCATIONS ARE APPROXIMATE

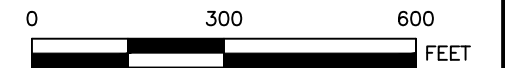
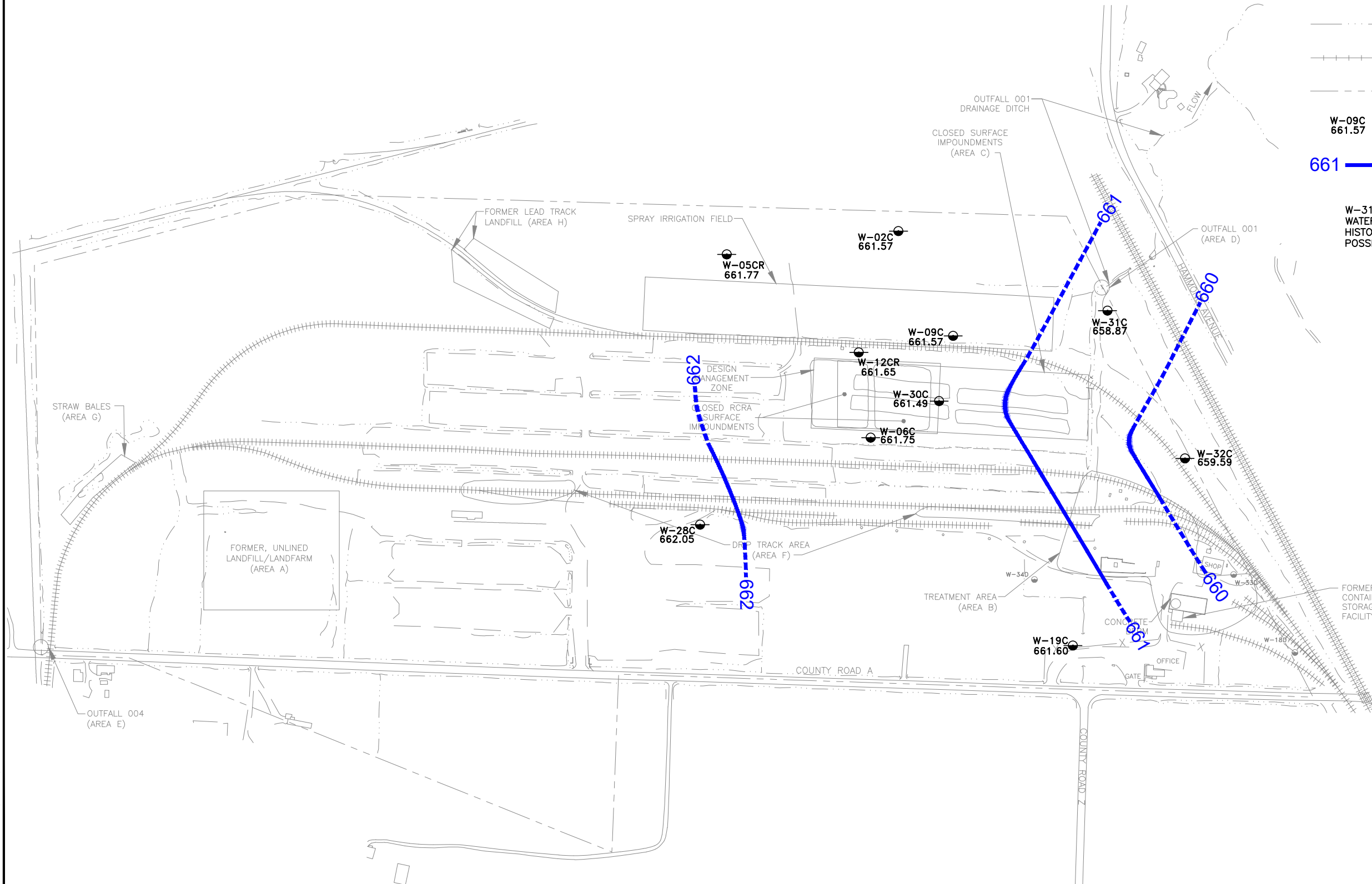
BEAZER EAST, INC. PITTSBURGH, PENNSYLVANIA		 FTS	FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106
DRWN: KLC CHKD: RMW APPD: JSZ SCALE: AS SHOWN ISSUE DATE:	DATE: 10/03/23 DATE: 10/03/23 DATE: 10/24/23		
FORMER KOPPERS INC. FACILITY SUPERIOR, WISCONSIN			
GROUNDWATER ELEVATION CONTOURS A-ZONE WELLS (OCTOBER 2, 2023)			PROJECT NO: 0M055623 DRAWING NUMBER FIGURE 4




LEGEND

-  ROAD
-  STREAM OR DITCH
-  RAILROAD TRACKS
-  APPROXIMATE PROPERTY BOUNDARY
-  W-09C
661.57 C ZONE GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION (FT-MSL)
-  661  GROUNDWATER ELEVATION CONTOUR (FT-MSL) (DASHED WHERE INFERRED)

W-31C NOT USED FOR CONTOURING. WATER LEVEL NOT CONSISTENT WITH HISTORICAL CONDITIONS. WELL CASING POSSIBLY DAMAGED.



BEAZER EAST, INC. PITTSBURGH, PENNSYLVANIA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DRWN: KLC</td> <td>DATE: 10/03/23</td> </tr> <tr> <td>CHKD: RMW</td> <td>DATE: 10/03/23</td> </tr> <tr> <td>APPD: JSZ</td> <td>DATE: 10/24/23</td> </tr> <tr> <td>SCALE: AS SHOWN</td> <td></td> </tr> <tr> <td>ISSUE DATE:</td> <td></td> </tr> </table>	DRWN: KLC	DATE: 10/03/23	CHKD: RMW	DATE: 10/03/23	APPD: JSZ	DATE: 10/24/23	SCALE: AS SHOWN		ISSUE DATE:		 FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106
DRWN: KLC	DATE: 10/03/23										
CHKD: RMW	DATE: 10/03/23										
APPD: JSZ	DATE: 10/24/23										
SCALE: AS SHOWN											
ISSUE DATE:											
FORMER KOPPERS INC. FACILITY SUPERIOR, WISCONSIN											
GROUNDWATER ELEVATION CONTOURS C-ZONE WELLS (OCTOBER 2, 2023)	PROJECT NO: 0M055623 DRAWING NUMBER FIGURE 5										

REFERENCE: WISCONSIN STATE PLANE COORDINATE SYSTEM.
 BASE MAP AND TOPOGRAPHY OBTAINED FROM PHOTOGRAMMETRY PERFORMED BY LOCKWOOD MAPPING COMPANY OF ROCHESTER, NY (12/28/01).
 ALL LOCATIONS ARE APPROXIMATE.

REV #	DATE	DESCRIPTION	APPD

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W-12A		
Constituent	Apr-23	Oct-23
BENZENE	0.41 U	0.41 U
BENZO(A)PYRENE	0.046 U	0.066 U
BENZO(B)FLUORANTHENE	0.084 U	0.12 U
CHRYSENE	0.07 U	0.1 U
NAPHTHALENE	0.43 U	0.43 U
2,3,7,8-TCDD TEQ (ND=0)	2.30E-06	NA

W-12CR			
Constituent	Apr-23	Oct-23	Oct-23 Dup
BENZENE	0.41 U	0.41 U	0.41 U
BENZO(A)PYRENE	0.046 U	0.06 U	0.063 U
BENZO(B)FLUORANTHENE	0.084 U	0.11 U	0.12 U
CHRYSENE	0.07 U	0.092 U	0.096 U
NAPHTHALENE	0.43 U	0.43 U	0.43 U
2,3,7,8-TCDD TEQ (ND=0)	4.64E-07	NA	NA

W-30A		
Constituent	Apr-23	Oct-23
BENZENE	0.82 U	0.41 U
BENZO(A)PYRENE	0.044 U	0.063 U
BENZO(B)FLUORANTHENE	0.081 U	0.12 U
CHRYSENE	0.068 U	0.096 U
NAPHTHALENE	2	0.91 J
2,3,7,8-TCDD TEQ (ND=0)	4.55E-06	NA

W-10AR2			
Constituent	Apr-23	Oct-23	Oct-23 Dup
BENZENE	15	22	20
BENZO(A)PYRENE	0.046 U	0.043 U	0.043 U
BENZO(B)FLUORANTHENE	0.084 U	0.078 U	0.078 U
CHRYSENE	0.07 U	0.065 U	0.088 J
NAPHTHALENE	1.5	1.6	1.5
2,3,7,8-TCDD TEQ (ND=0)	4.82E-07	NA	NA

W-30C		
Constituent	Apr-23	Oct-23
BENZENE	0.41 U	0.41 U
BENZO(A)PYRENE	0.043 U	0.066 U
BENZO(B)FLUORANTHENE	0.078 U	0.12 U
CHRYSENE	0.065 U	0.1 U
NAPHTHALENE	0.43 U	0.43 U
2,3,7,8-TCDD TEQ (ND=0)	2.44E-07	NA

W-04AR2			
Constituent	Apr-23	Apr-23 Dup	Oct-23
BENZENE	0.41 U	0.41 U	0.41 U
BENZO(A)PYRENE	0.076 J	0.046 U	0.06 U
BENZO(B)FLUORANTHENE	0.17 J	0.089 J	0.11 U
CHRYSENE	0.24 J	0.13 J	0.1 J
NAPHTHALENE	0.72 J	0.94 J	0.43 U
2,3,7,8-TCDD TEQ (ND=0)	2.60E-07	1.21E-06	NA

W-28C			
Constituent	Apr-23	Apr-23 Dup	Oct-23
BENZENE	0.41 U	0.41 U	0.41 U
BENZO(A)PYRENE	0.043 U	0.043 U	0.063 U
BENZO(B)FLUORANTHENE	0.078 U	0.078 U	0.12 U
CHRYSENE	0.065 U	0.065 U	0.096 U
NAPHTHALENE	0.43 U	0.43 U	0.43 U
2,3,7,8-TCDD TEQ (ND=0)	3.54E-07	3.13E-07	NA

W-06A		
Constituent	Apr-23	Oct-23
BENZENE	0.41 U	0.41 U
BENZO(A)PYRENE	0.049 U	0.06 U
BENZO(B)FLUORANTHENE	0.09 U	0.11 U
CHRYSENE	0.075 U	0.092 U
NAPHTHALENE	0.43 U	0.43 U
2,3,7,8-TCDD TEQ (ND=0)	5.70E-07	NA

W-06C		
Constituent	Apr-23	Oct-23
BENZENE	0.41 U	0.41 U
BENZO(A)PYRENE	0.041 U	0.11 J
BENZO(B)FLUORANTHENE	0.076 U	0.17 J
CHRYSENE	0.063 U	0.38
NAPHTHALENE	0.43 U	0.43 U
2,3,7,8-TCDD TEQ (ND=0)	2.06E-07	NA

W-18D		
Constituent	Apr-23	Oct-23
BENZENE	NA	NA
BENZO(A)PYRENE	0.044 U	0.063 U
BENZO(B)FLUORANTHENE	0.081 U	0.12 U
CHRYSENE	0.068 U	0.096 U
NAPHTHALENE	0.049 U	0.37
2,3,7,8-TCDD TEQ (ND=0)	NA	NA

LEGEND

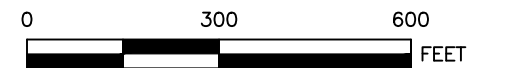
- ROAD
- STREAM OR DITCH
- RAILROAD TRACKS
- APPROXIMATE PROPERTY BOUNDARY
- W-19A A ZONE GROUNDWATER MONITORING WELL
- W-26B B ZONE GROUNDWATER MONITORING WELL
- W-32C C ZONE GROUNDWATER MONITORING WELL
- W-33D BEDROCK ZONE GROUNDWATER MONITORING WELL
- W-23A ABANDONED WELL

STANDARDS

Constituent	WDNR PAL	WDNR ES
BENZENE	0.5	5
BENZO(A)PYRENE	0.02	0.2
BENZO(B)FLUORANTHENE	0.02	0.2
CHRYSENE	0.02	0.2
NAPHTHALENE	10	100
2,3,7,8-TCDD TEQ (ND=0)	0.000003	0.00003

- EXCEEDS WDNR PAL
- EXCEEDS WDNR ES

- ALL VALUES ARE IN ug/L
- U- NOT DETECTED
- J- ESTIMATED RESULT
- NA- NOT ANALYZED
- TEQ- 2,3,7,8-TCDD TOXICITY EQUIVALENT QUOTIENT 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
- PAL- WDNR PREVENTIVE ACTION LIMIT
- ES- WDNR ENFORCEMENT STANDARD



BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN: KLC	DATE: 11/09/23
CHKD: ESV	DATE: 11/09/23
APPD: AMG	DATE: 11/30/23
SCALE: AS SHOWN	
ISSUE DATE:	



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

FORMER KOPPERS INC. FACILITY
SUPERIOR, WISCONSIN

APRIL AND OCTOBER 2023
CONSTITUENTS OF INTEREST

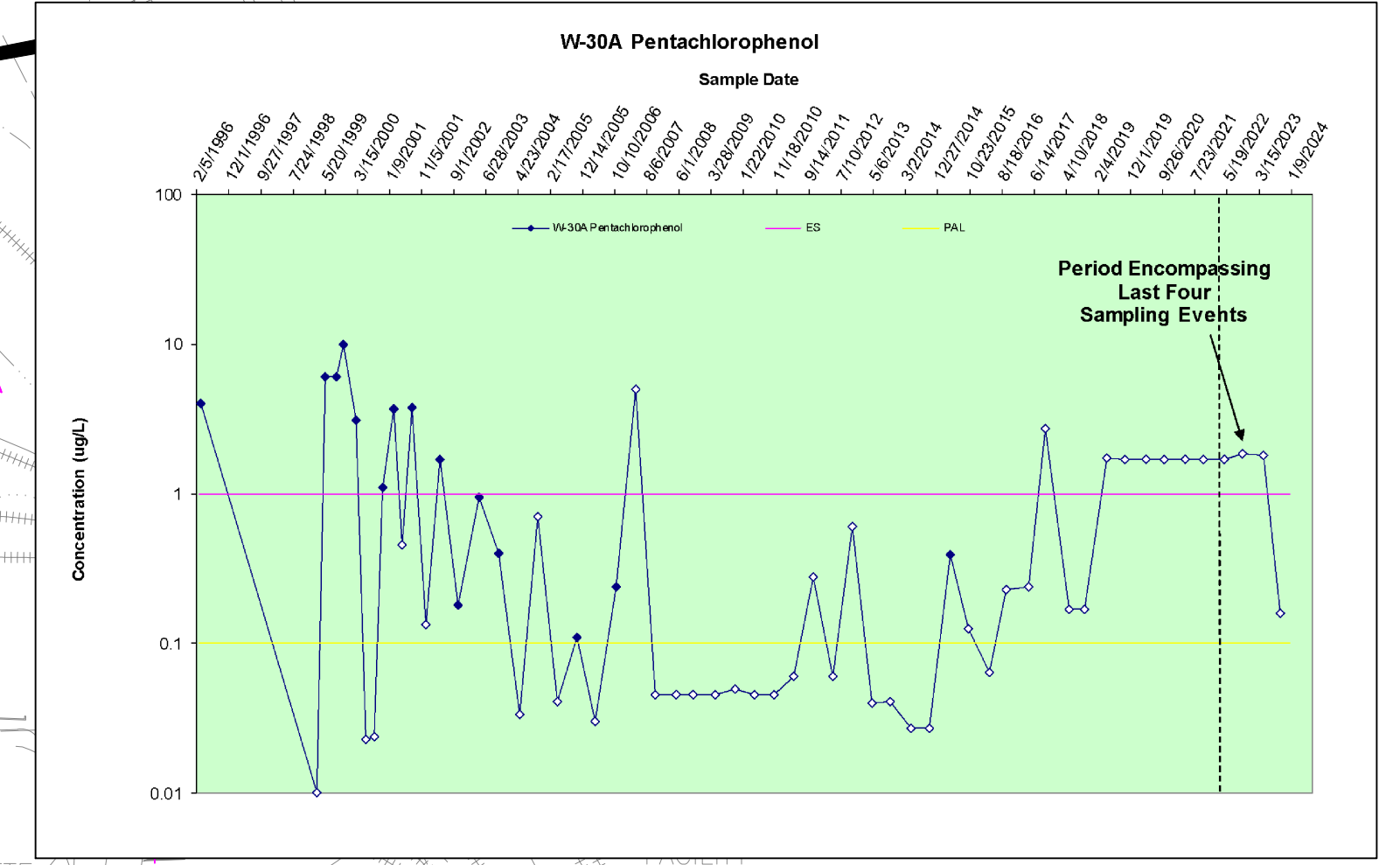
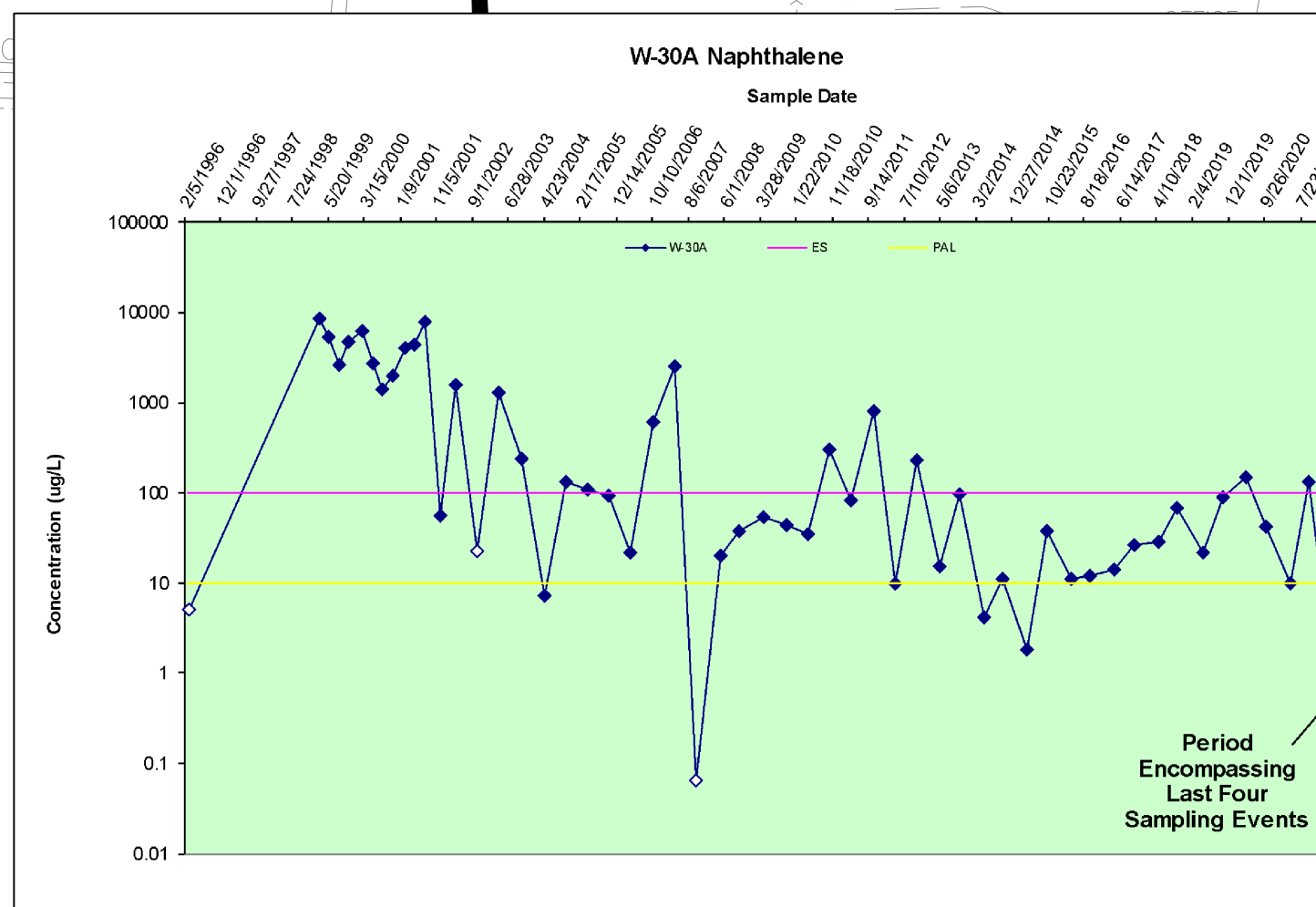
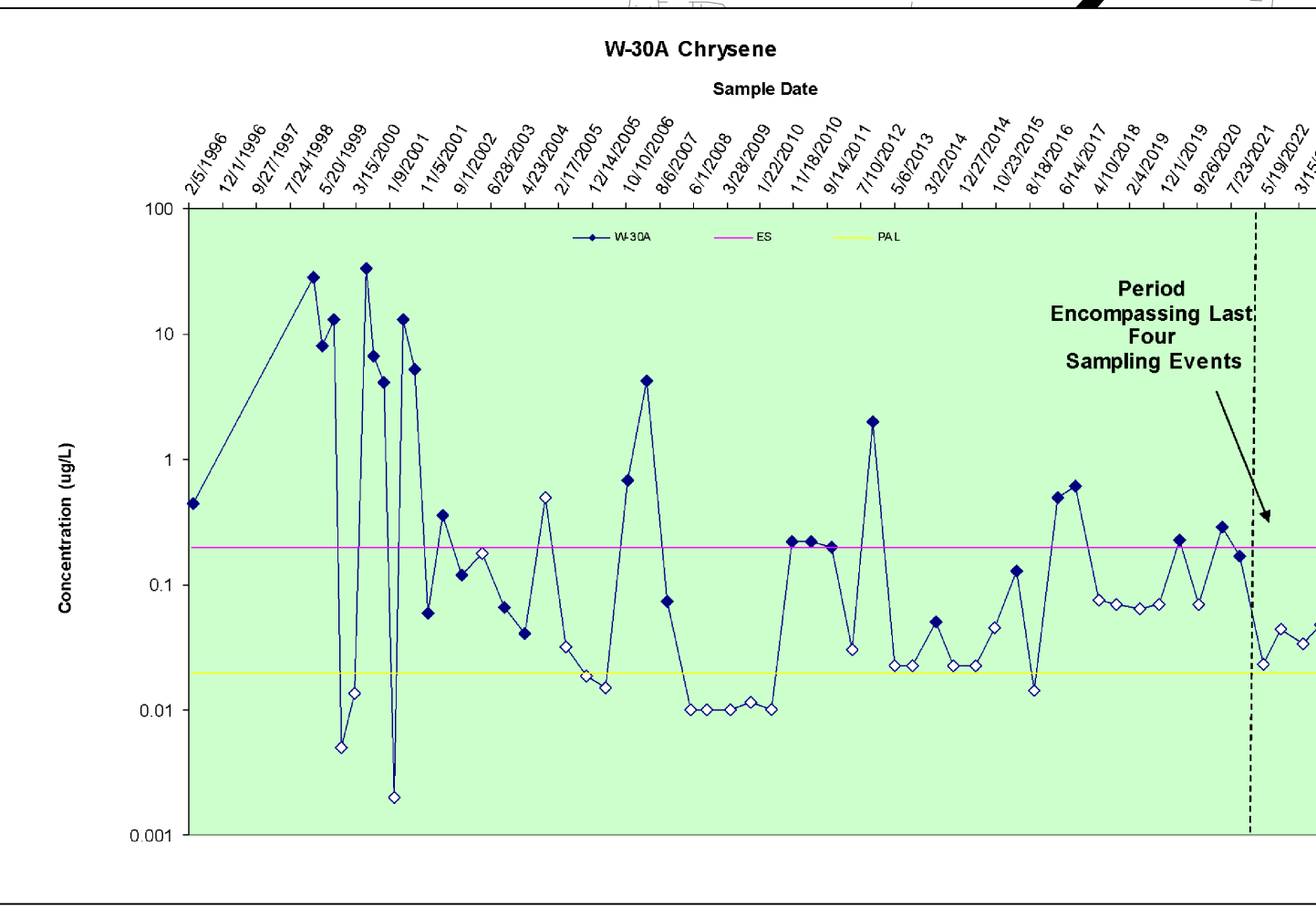
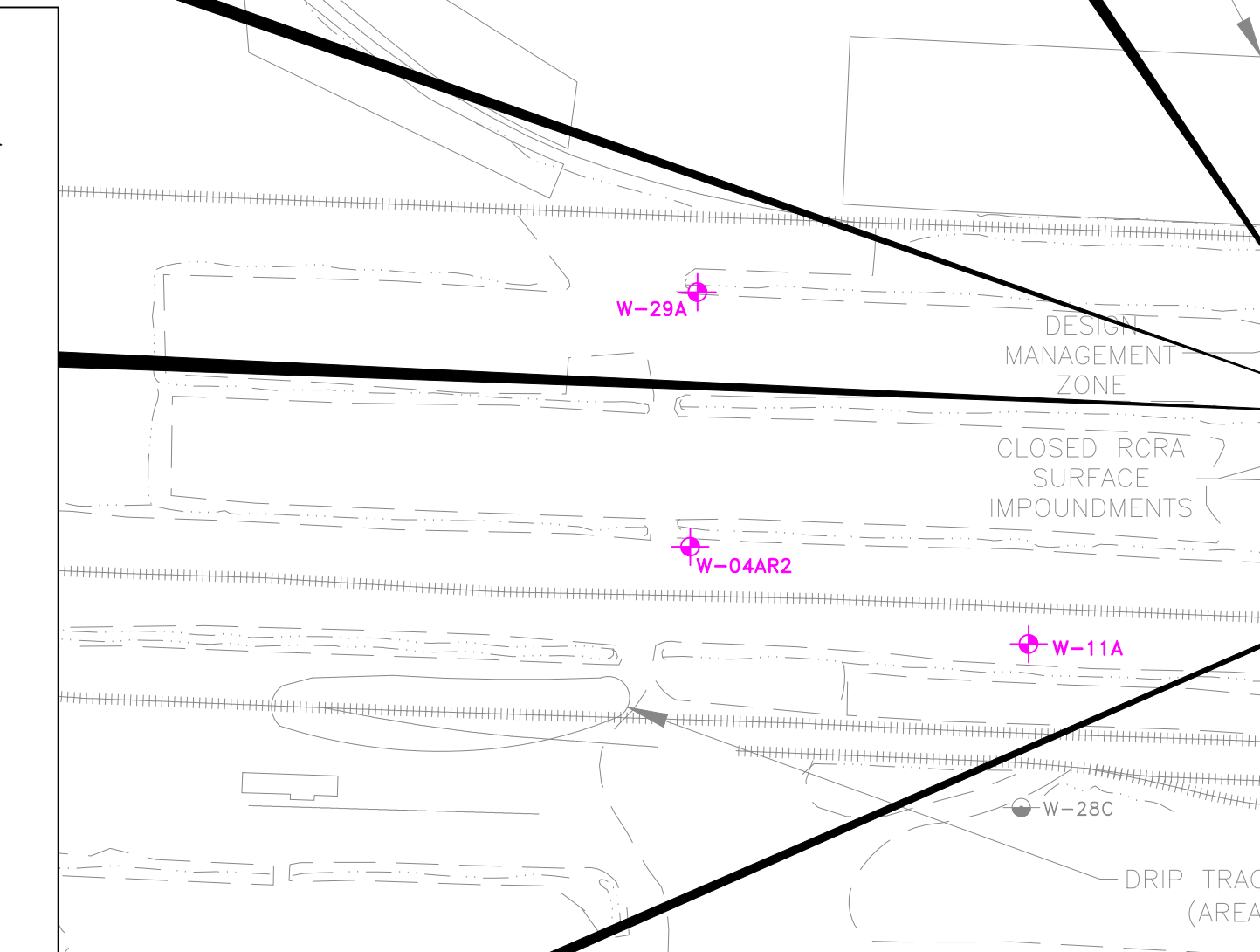
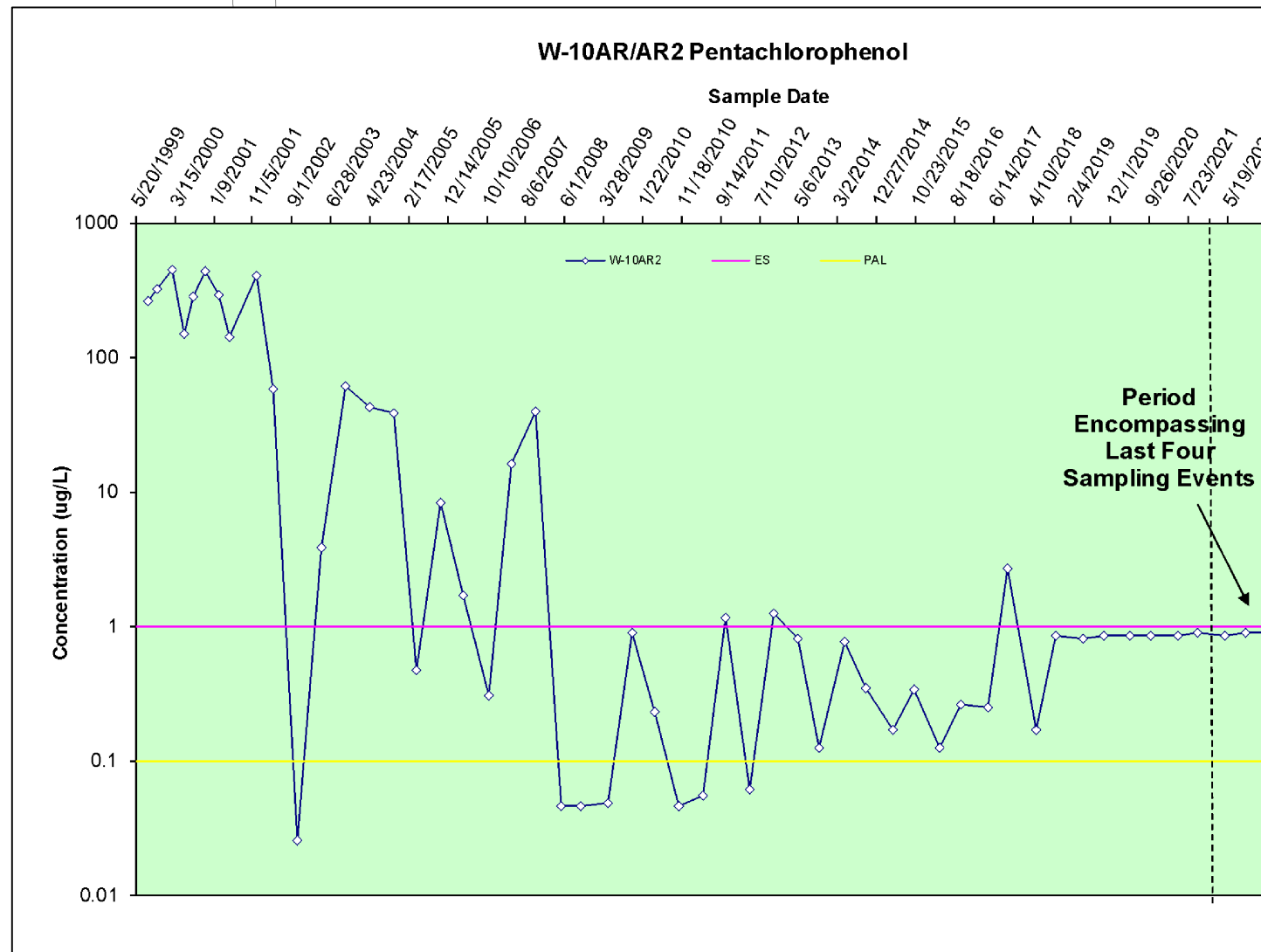
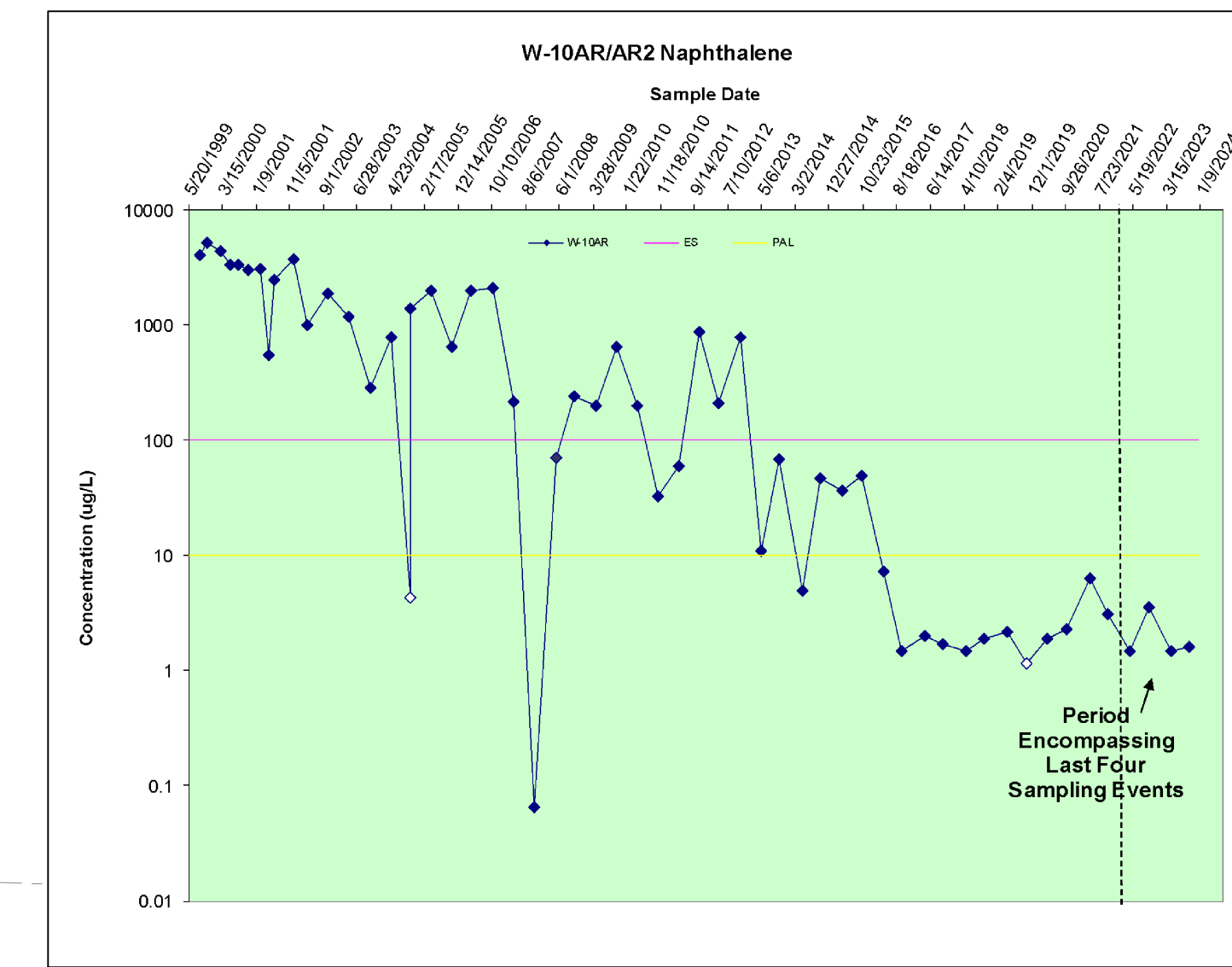
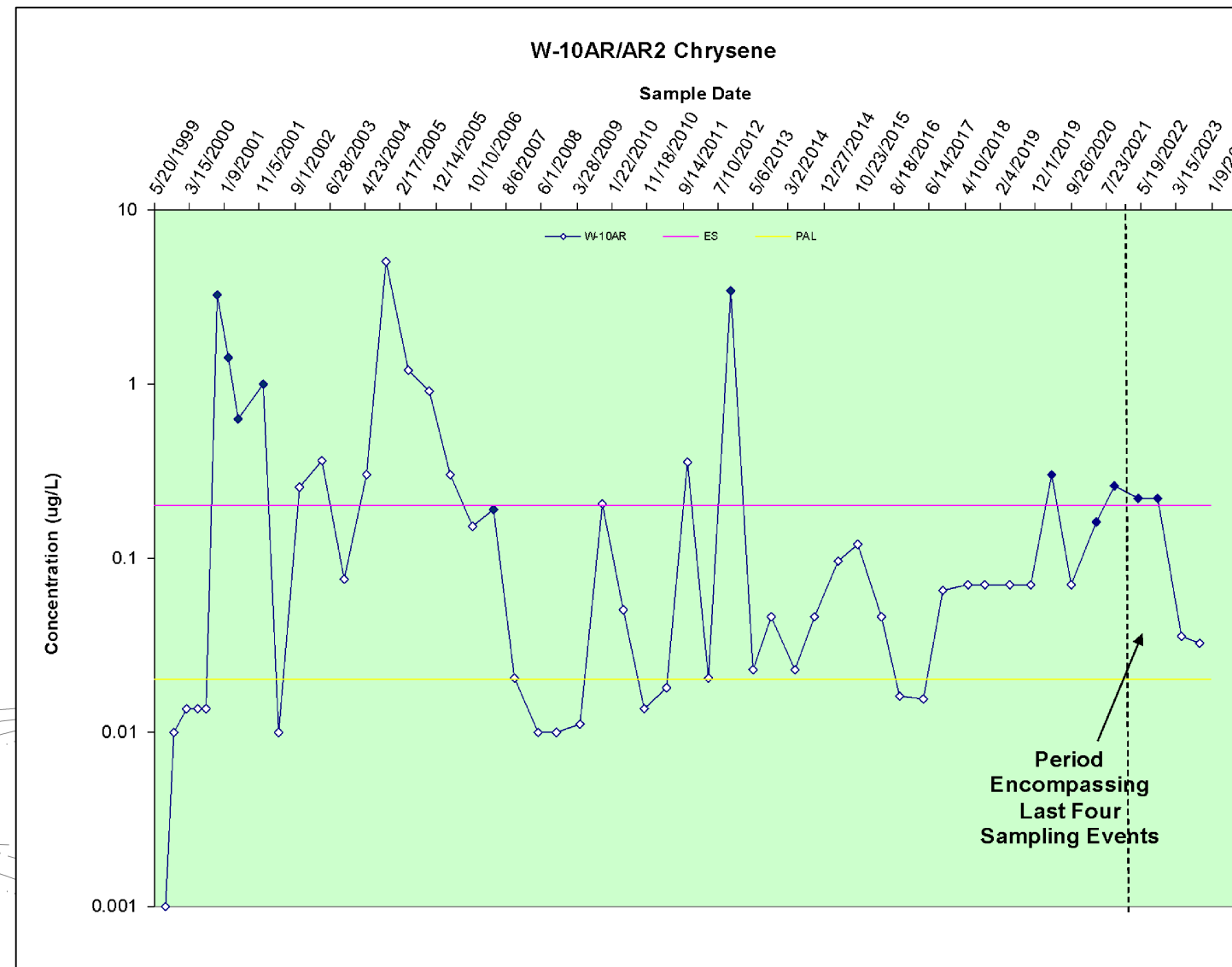
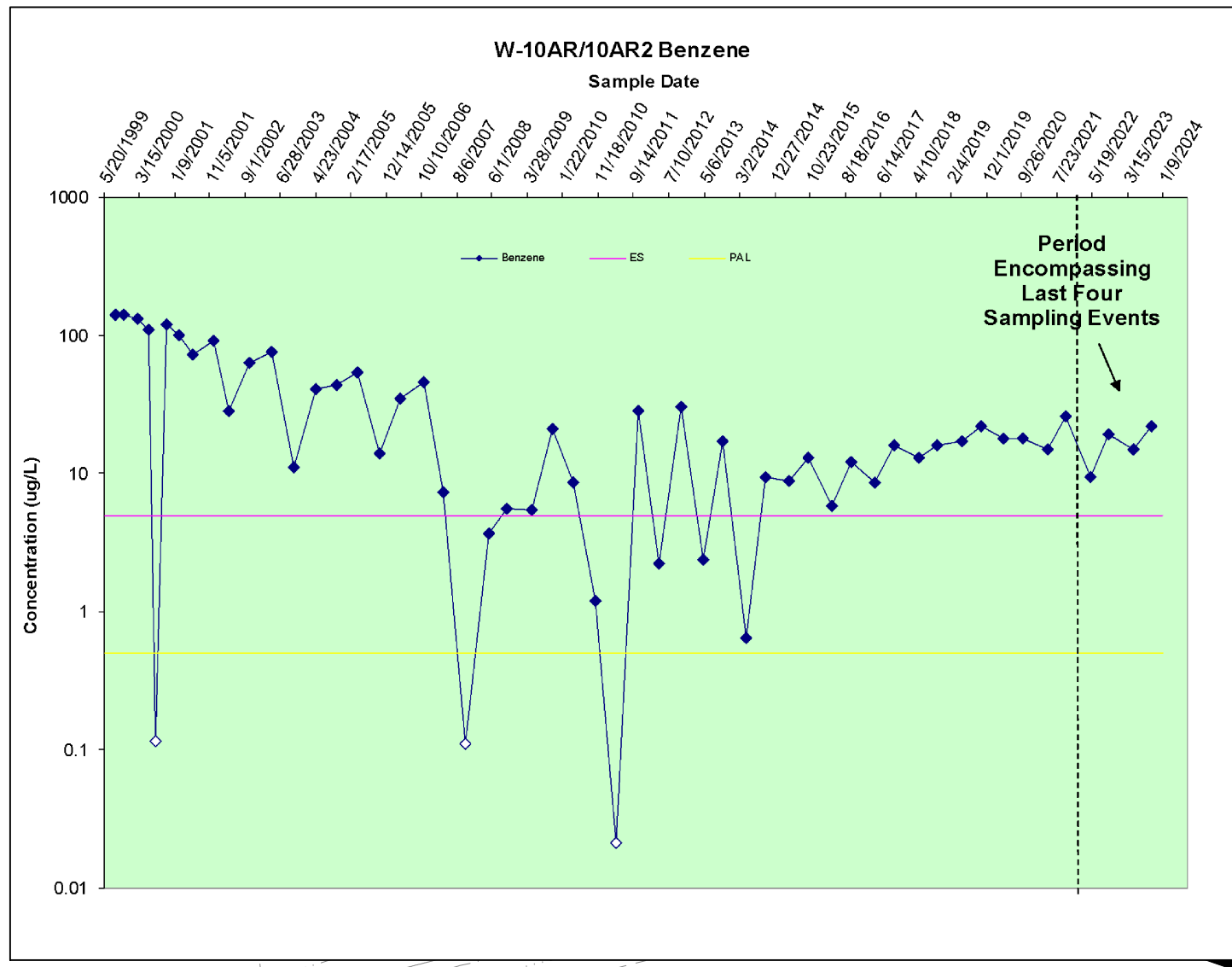
PROJECT NO: OM055623
DRAWING NUMBER
FIGURE 6

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REV #	DATE	DESCRIPTION	APPD

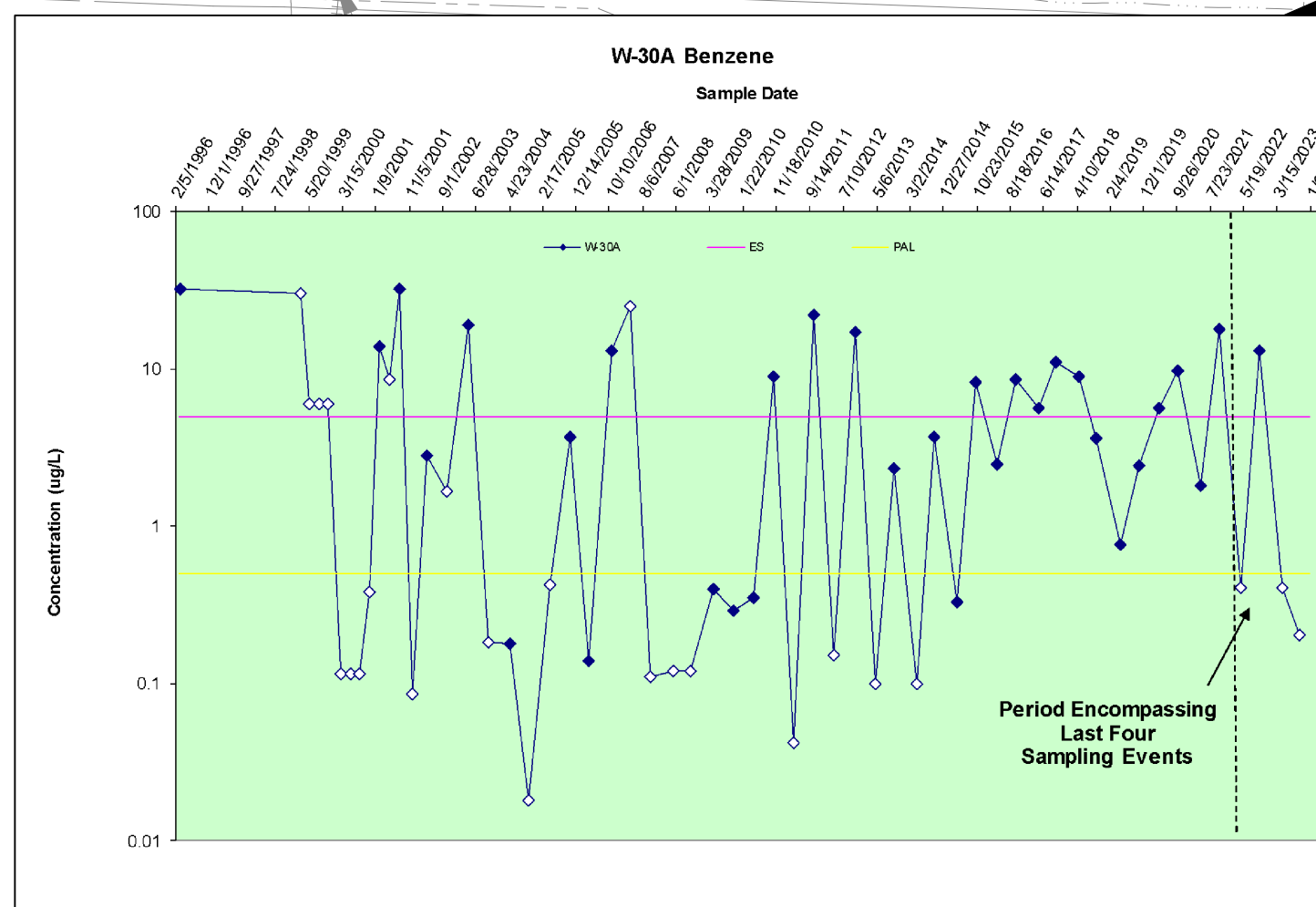
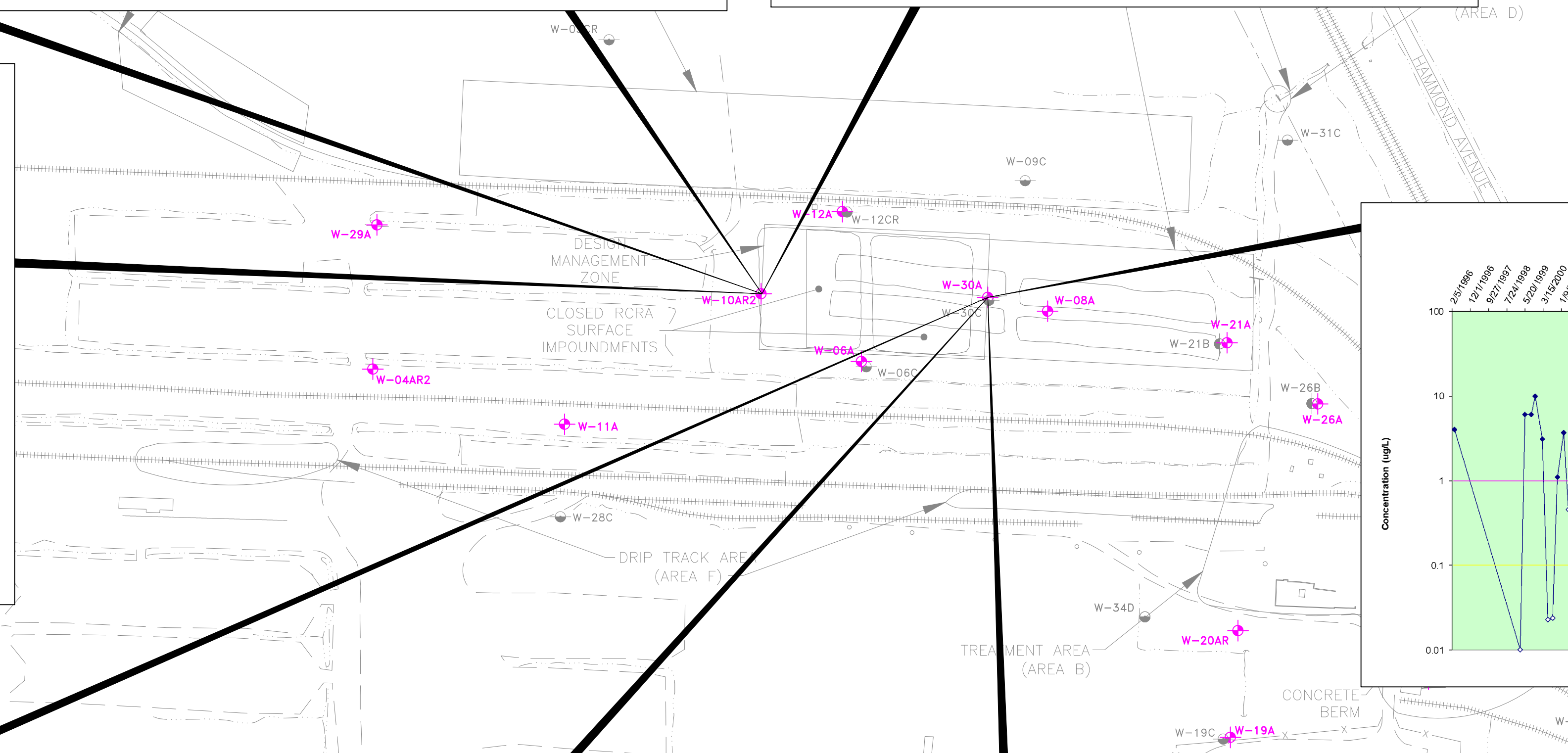
REFERENCE: WISCONSIN STATE PLANE COORDINATE SYSTEM.

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LEGEND

- ROAD
- STREAM OR DITCH
- RAILROAD TRACKS
- APPROXIMATE PROPERTY BOUNDARY
- W-08A A ZONE GROUNDWATER MONITORING WELL
- INDICATES ANALYTICAL RESULT WAS NON DETECT. VALUE POSTED REPRESENTS ONE-HALF THE DETECTION LIMIT.



REV #	DATE	DESCRIPTION	APPD

REFERENCE: WISCONSIN STATE PLANE COORDINATE SYSTEM.
 BASE MAP AND TOPOGRAPHY OBTAINED FROM PHOTOGRAMMETRY PERFORMED BY LOCKWOOD MAPPING COMPANY OF ROCHESTER, NY (12/28/01).
 ALL LOCATIONS ARE APPROXIMATE.

BEAZER EAST, INC.
 PITTSBURGH, PENNSYLVANIA

DRWN: KLC	DATE: 11/09/23		FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106
CHKD: ESV	DATE: 11/09/23		
APPD: AMG	DATE: 11/30/23		
SCALE: AS SHOWN			
ISSUE DATE:		FORMER KOPPERS INC. FACILITY SUPERIOR, WISCONSIN	
		PROJECT NO: 0M055623 DRAWING NUMBER FIGURE 7	

APPENDIX A

Project Activity Milestone Summary

Former Koppers Superior Site - Project Activity Milestone Summary

Closure and Post Closure Plan

- Beazer submitted a Closure and Post-Closure Plan for the RCRA impoundments to the WDNR in a document dated August 28, 1987 (Keystone Environmental Resources, August 28, 1987).
- The WDNR provided a Plan Approval on October 1, 1987.
 - ➔ In accordance with Plan Approval, approximately 1,358 tons of K001 sludge and subgrade soils exhibiting visible presence of K001 sludge-related material were removed from the impoundments and transported off-site by August 3, 1988.
- Subgrade sampling activities took place in August 1988.
 - ➔ It was determined that traces of K001 constituents remained in the subgrade and outer berms; therefore, the impoundments were closed as a landfill.
- Closure activities were completed by August 29, 1989 and are detailed in the document *Construction Documentation Surface Impoundment Closure Report* (Keystone Environmental Resources, November 1989).
- Beazer submitted a Permit Modification Request to the Groundwater Monitoring Program to the WDNR on April 19, 2002 (Blasland Bouck, & Lee).
 - ➔ Following a public comment period, the WDNR provided a Conditional Closure and Long-Term Care Plan Approval Modification in an October 29, 2002 letter to Beazer.
- In an email from WDNR dated May 5, 2021, Beazer received a Conditional Close-Out (CCO) Letter that requested, among other items, that Beazer submit a Long-Term Care License Renewal Application. Via email dated July 9, 2021, WDNR extended the recommended deadline for a response to the CCO by 90 days (i.e. November 1, 2021). On November 1, 2021, Beazer responded to the items discussed in the CCO. Also included in the November 1, 2021 Response to CCO is a Wisconsin Long-Term Care License Renewal Application. On May 10, 2022, Beazer received a Notice of Incompleteness Letter for the Long-Term Care License Renewal Application from WDNR. Via email dated June 28, 2022, WDNR extended the recommended deadline for a response to the Notice of Incompleteness Letter by 90 days (i.e. October 10, 2022). On October 10, 2022, Beazer submitted a response to the WDNR regarding the May 10, 2022 Notice of Incompleteness letter and also submitted the revised Long-Term Care License Renewal Application.

Design Management Zone

- The design management zone (DMZ) is the point of standards application for Wisconsin water quality standards.
- The closed impoundment system is subject to regulation under NR 664.0090 to 664.0100 and therefore the horizontal distance for the DMZ is zero feet.
 - ➔ The DMZ encompasses the vertical surface located along the southern boundary of the south lagoon, the western boundary of the south and north lagoons, the northern boundary of the north lagoon, and the eastern boundary of the north and south lagoons.

Monitoring Well Installation/Decommissioning

- During August 1988, 11 wells installed to monitor groundwater at the two impoundments were decommissioned to allow for capping of the impoundments.
 - ➔ The 11 decommissioned monitoring wells were L-1 S, L-2S, L-3S, L-3M, L-4S, L-4M, L-4D, L-5S, L-5M, L-5DR and L-17.
 - ➔ In accordance with the interim post closure monitoring plan, four monitoring wells (MW-1S, MW-4S, MW-4D, and MW-2S) were installed in November 1988 and 1989 to replace the decommissioned monitoring wells.
 - ➔ These four monitoring wells were subsequently re-designated (W-10B, W-12B, W-12C and W-6B, respectively) to provide a consistent nomenclature with 15 existing monitoring wells.
- In July and August of 1990, 26 new monitoring wells were installed at the Site as part of the Phase II RFI under the Site-wide RCRA corrective action program required by Federal Permit issued by the U.S. EPA September 30, 1988 pursuant to the Hazardous and Solid Waste Amendments (HSWA).
- W-04C was abandoned in 2002 and W-10AR was replaced with W-10AR2 in 2003, as noted below.
- In October 2004, the monitoring well network at the Site was reevaluated. A field inspection of all Site monitoring wells indicated that some wells had been damaged due to frost heave or normal Site activities. Each well was assessed based on its location, relevance to the current sampling plan, extent of damage (if any), and potential for future damage. Based on these assessments, 14 monitoring wells were abandoned, two monitoring wells (W-5C and W-20A) were replaced, and seven monitoring wells were repaired during the fall and winter of 2004. A summary of the completed well abandonment, repair, and replacement activities was submitted to WDNR on March 18, 2005.

- In October 2006, six new A-zone monitoring wells (W-35A through W-40A) were installed for supplemental monitoring purposes.
- On July 13, 2010, monitoring wells W-16A and W-17A were abandoned in preparation for the on-property Corrective Measures Implementation (CMI) activities.
- Monitoring well W-16A was replaced with W-16AR in April 2013.

Groundwater Monitoring Program

- In March 1991 Beazer submitted a Draft Existing Conditions Report to the WDNR to propose a revised RCRA quarterly post-closure compliance monitoring program for the closed RCRA impoundments.
 - ➔ The WDNR provided comments on the Draft Existing Conditions Report, and the 1991 and 1992 Annual RCRA Groundwater Monitoring Summary reports in a letter dated July 19, 1993.
 - ➔ Beazer responded to the WDNR's comments on the Draft Existing Conditions Report on September 1, 1993, and to their comments on the 1991 and 1992 Annual RCRA Groundwater Monitoring Summary reports on September 10, 1993.
 - ➔ The Plan Approval groundwater monitoring program was subsequently approved by the WDNR.
- The analytical program of the Plan Approval groundwater monitoring program was initiated in the fourth quarter 1993, even though new monitoring well installations, needed to satisfy the modified program, had yet to be completed.
- In January 1994 Beazer submitted the documents, *Monitoring Well Installation and Abandonment Project Work Plan (PWP)* and *Groundwater Monitoring Sampling and Analysis Plan (SAP)* to the WDNR to provide a description of the methods and materials to be used to revise the monitoring well network and to perform the modified quarterly sampling, analyses, and statistics.
 - ➔ The PWP and SAP were approved by the WDNR and were implemented in June 1995.
 - ➔ The scope of work for the PWP included the installation of six monitoring wells (W-6A, W-10A, W-12A, W-12CR, W-30A, and W-30C) and the abandonment of four monitoring wells (W-6B, W-10B, W-12C, and W-12B) and the abandonment of a damaged well, W-27A.
 - ➔ As indicated in the SAP and required by the state's regulations, following four quarters of monitoring, statistical evaluation of the data are required; with the reporting of second quarter 1996 data four quarters of data were available for statistical determinations

- In the August 5, 1996, correspondence to Fluor Daniel GTI, the WDNR deferred the statistical evaluation while an assessment of integrating the RCRA-Unit monitoring requirements into part of the Site-wide RCRA corrective action program was made.
- A Plan Approval Modification was issued by the WDNR on October 24, 1996 and represented a change in the lead status for the Site-wide RCRA Facility Investigation, from the U.S. EPA to the WDNR.
- Beazer submitted a new Groundwater Monitoring Sampling Analysis Plan to the WDNR on April 19, 2002 which included a semi-annual groundwater sampling plan, the use of bladder pumps for groundwater sampling, and the use of U.S. EPA Method 8270C (expanded list) to analyze groundwater samples for polycyclic aromatic hydrocarbons (PAHs), phenolics, and semi-volatile organic compounds (SVOCs)
 - With WDNR approval, the groundwater monitoring frequency was reduced from quarterly to semi-annual as of June 2002.
 - The WDNR conditionally approved new Groundwater Monitoring Sampling Analysis Plan in a letter (Plan Approval Modification) to Beazer dated October 29, 2002.
 - As directed by the WDNR, monitoring well W-04C was decommissioned on December 10, 2002.
 - Due to significant damage to the inner and outer casing, monitoring well W-10AR was sealed and replaced by well W-10AR2 on July 31, 2003.
 - As indicated above, 14 monitoring wells were abandoned, two monitoring wells (W-5C and W-20A) were replaced, and seven monitoring wells were repaired during the fall and winter of 2004.
 - Due to significant damage to the inner casing, monitoring well W-04AR was sealed and replaced by well W-04AR2 on July 24, 2017.

Site-Wide Corrective Action Monitoring Program

- As part of the October 24, 1996 Plan Approval Modification, the WDNR required the submittal of a proposal to begin a Site-wide corrective action monitoring program, to supplement the existing Plan Approval.
- A Site-wide corrective action monitoring program was proposed by Beazer via correspondence dated December 20, 1996 and included two minor modifications to the Plan Approval for the RCRA-Unit monitoring:
 - Eliminate arsenic from the list of parameters to be monitored, due to its lack of detection.

- Eliminate Method 8270 analyses from the annual list of parameters due to its duplication of analytical results with the other organic compound analytical methods.
- No response was received from the WDNR regarding the December 20, 1996 request, although relevant requested modifications were incorporated into the April 19, 2002 request and associated October 29, 2002 Plan Approval Modification.
- A natural attenuation remedy for groundwater was proposed in the July 2007 Focused Corrective Measures Study (CMS). Supplemental groundwater data were collected between 2004 and 2007 (as summarized in the January 24, 2006 *Groundwater Natural Attenuation Evaluation Report* and September 18, 2007 *Summary of Supplemental Groundwater Investigations*) to demonstrate the occurrence of natural attenuation and support WDNR's approval of the proposed groundwater natural attenuation remedy.
- A work plan for additional groundwater sampling to further support the natural attenuation remedy was submitted to the WDNR on October 12, 2012, and was approved by the WDNR on December 7, 2012. Sampling events associated with this work plan were completed in April 2013, July 2013, October 2013, and January 2014. The additional groundwater sampling was summarized in a *Groundwater Natural Attenuation Demonstration Summary Report*, submitted to the WDNR on June 12, 2014.
- On October 17, 2014, ARCADIS, on behalf of Beazer, submitted a Technical Assistance and Environmental Liability Clarification Request to WDNR, requesting approval of the natural attenuation remedy for groundwater. WDNR approved the groundwater natural attenuation remedy in a letter to Beazer dated November 18, 2014.

Phase II and III RCRA Facility Investigation Reports (Phase II and III RFI Reports)

- A Phase II RFI Report was submitted to the WDNR and U.S. EPA in June 1991.
- A Phase III RFI Work Plan was submitted to the WDNR and U.S. EPA in August 1993 and conditionally approved by the U.S. EPA.
 - A meeting was held on August 2, 1994, between Beazer, U.S. EPA, and WDNR, to discuss the Phase III comments.
 - As result of this meeting, the cone penetrometer portion of the Phase III RFI Work Plan was segregated and re-evaluated.
- A revised Cone Penetrometer Work Plan was submitted to the WDNR and U.S. EPA on August 25, 1994 and was conditionally approved on September 9, 1994.
 - The required conditions were addressed and the field work was performed during October 1994 and January 1995.

- The results of the Cone Penetrometer work and the proposed Phase III RFI groundwater investigation activities were reported to the WDNR and U.S. EPA in an Interim Letter Report (ILR) in July 1995.
- Concurrent with submittal of the ILR was the submittal of an Addendum Summary Sampling Plan for Dioxins/Furans and the Surface Water and Streambed Sediment Sampling and Analysis Plan to the WDNR and U.S. EPA.
 - The ILR and Summary Sampling Plan for Dioxins/Furans were approved by the WDNR in an October 24, 1996, Plan Approval Modification.
 - Surface water and sediment sampling were performed in June 1996, and the Report of Findings was submitted to the WDNR in March 1997.
 - The Phase III RFI soil and groundwater investigations were implemented from October through December 1996 and the RFI Report was submitted to the Agencies in June 1997.

Surface Water and Streambed Sediment Activities

- The WDNR submitted comments on the Preliminary Characterization Report Surface Water and Streambed Sediment (March 1997) to Beazer via letter dated February 10, 1998, (received by Beazer February 17, 1998).
 - In accordance with the February 10, 1998, letter, Beazer submitted the document, *Supplemental Investigation Work Plan, Surface Water and Streambed Sediment* to the WDNR on May 4, 1998.
 - WDNR provided comments in a letter dated January 29, 1999.
 - Beazer responded to the comments in correspondence dated March 19, 1999.
 - A meeting was held on May 4, 1999 at the WDNR offices in Superior to discuss the Supplemental Investigation Work Plan, the Crawford Creek Surface Water and Sediment Work Plan, and the RFI Report.
- In the fall of 1999, an off-site Surface Water and Sediment Characterization Investigation was undertaken.
 - A Supplemental Investigation Work Plan for off-site surface water and sediment characterization was submitted to the WDNR on February 11, 2000.
 - The investigation summary report entitled *Supplemental Surface Water and Streambed Sediment Investigation Report* was submitted to WDNR on July 14, 2000.
- As further described below, additional investigations along Crawford Creek and the Outfall 001 drainage ditch were conducted in February 2003, May 2003, April-December 2005, and August 2013 through January 2014 and were reported to the WDNR on June 26, 2003, October 2, 2003, February 21, 2006, and April 15, 2014, respectively.

- Beazer submitted a Human Health and Ecological Risk Assessment (HHERA) for the off-property portion of the Site to the WDNR on January 15, 2009; WDNR provided comments on the HHERA on August 10, 2011 and March 14, 2012.
- On August 22, 2014, Beazer submitted to WDNR a Focused Corrective Measures Study (FCMS) for the off-property portion of the Site. Responses to WDNR comments on the HHERA were submitted to WDNR as Appendix A to the FCMS. WDNR provided draft comments on the FCMS to Beazer on November 13, 2014.
- Since 2018, Beazer and USEPA have been working in conjunction with WDNR to develop a Focused Feasibility Study for the off-property portion of the Site, as part of a Great Lakes Legacy Act project. As part of those efforts, supplemental data gap investigations were completed along Crawford Creek and the Outfall 001 drainage ditch between May and September 2020. The investigation results were reported to WDNR on April 23, 2021. A draft Great Lakes Legacy Act Focused Feasibility Study was submitted to WDNR on September 30, 2022.

Soil Risk Evaluation Activities

- In a February 4, 1999 letter, the WDNR provided comments on the “Technical Memorandum on Soil Risk Procedures”.
 - ➔ Beazer provided responses to the comments on the “Technical Memorandum on Soil Risk Procedures” to the WDNR on April 5, 1999.
 - ➔ Following additional coordination with the WDNR and the Wisconsin Department of Health and Family Services, AMEC Earth and Environmental, Inc. (AMEC) provided a letter to the WDNR on August 29, 2001 summarizing the agreed-upon changes to the soil risk procedures.
 - ➔ The WDNR confirmed AMEC’s summary in a letter to Beazer dated October 17, 2001.
- A Post-Remediation Human Health Risk Assessment (HHRA) was submitted to the WDNR as an attachment to the March 2004 Focused CMS; the Post-Remediation HHRA was revised to reflect changes to Site conditions and additional sampling data, and was resubmitted with the revised Focused CMS in July 2007. Additional revisions were subsequently made to address WDNR comments, and an addendum to the July 2007 Post-Remediation HHRA was submitted to the WDNR on January 8, 2008. A revised HHRA Addendum was submitted in December 2009 to include additional soil sample data collected in 2008.
- In December 2009, Beazer submitted an On-Property CMI Design Report to the WDNR, which outlined the scope of work for implementing corrective measures to address impacted surface soils in the on-property portion of the Site and the on-property portion of the Outfall 001 drainage ditch. WDNR approved the CMI Design Report in May 2010. The corrective measures construction activities were initiated in the fall of 2010, following receipt of the necessary permits, and were completed in July 2011. A Construction Documentation Report was submitted to the WDNR in September 2011. As a required component of the on-property

corrective actions, Beazer submitted a *Notification of Continuing Obligations and Residual Contamination* to the property owner on June 16, 2014, and a GIS Registry Submittal to WDNR on August 5, 2015.

Bedrock Investigation Activities

- The WDNR provided comments on the RFI Report (June 1997) to Beazer in a letter dated February 15, 1999.
 - ➔ Beazer provided responses to the comments on the RFI Work Plan to the WDNR on March 26, 1999 and subsequently installed three additional wells to monitor the sandstone bedrock beneath the Site.
- An RFI Bedrock Monitoring Wells Report was submitted to WDNR on July 14, 2000.
 - ➔ Data related to sampling which was conducted at the three existing bedrock monitoring wells in the northern portion of the facility (W-18D, W-33D, and W-34D) were summarized in a letter to the WDNR dated September 21, 2001.
 - ➔ That letter proposed two additional rounds of sampling at the three existing bedrock monitoring wells and that additional off-site bedrock wells were not warranted.
 - ➔ On February 14, 2002, the WDNR issued a letter to Beazer providing comments on the *RFI Bedrock Monitoring Wells Report* and the September 21, 2001 letter.
- In a letter to the WDNR dated April 18, 2003, Beazer proposed the scope of continued short-term groundwater monitoring at the three existing bedrock wells.
- Additional bedrock groundwater sampling has been performed since 2003 in conjunction with the Site's semiannual groundwater monitoring program.

Additional Site Issues

- On May 23, 2000, Beazer submitted a Request for Modification of the Closure and Long-Term Care Plan Approval and Corrective Action Management Unit (CAMU) Demonstration (CAMU Demonstration Document) to the WDNR.
 - ➔ The WDNR provided a letter on November 1, 2000 stating that enough substantive information has been provided to confirm that the CAMU application is “substantially in the approval process”.
 - ➔ In a letter to Beazer dated January 23, 2002, the WDNR provided a Notice of Incompleteness related to the CAMU Demonstration Document.
 - ➔ In a letter to the WDNR dated April 15, 2002, Beazer responded to the WDNR’s January 23, 2002 comments on the CAMU Demonstration Document.

- ➔ In July, 2002, Beazer conducted wetland assessment/delineation activities at the Site to determine the presence and extent of regulated wetlands within the proposed CAMU location.
- ➔ In a letter to Beazer dated January 17, 2003, the WDNR suggested that Beazer review Wisconsin regulations to determine the requirements for potential offset distances.
- ➔ In a July 30, 2003 letter to the WDNR, Beazer summarized the basis for the WDNR-referenced offset distances.
- ➔ During the November 21, 2003 project meeting, the WDNR indicated that the offset requirements were not applicable to the proposed CAMU.
- In a letter dated July 25, 2001, Beazer provided a work plan to the WDNR related to for supplemental investigations at the facility and in off-property areas.
 - ➔ The proposed investigation included fire pond probing and sampling, and additional sampling at bedrock monitoring wells, test pit excavations in the Crawford Creek floodplain, and sediment/floodplain soil sampling in the Crawford Creek area.
 - ➔ The on-site portions of these investigations were completed in December 2001 and the associated results were provided to the WDNR in a letter from BBL dated April 12, 2002.
 - ➔ In a letter to Beazer dated April 11, 2002, the WDNR provided comments on the July 25, 2001 work plan letter.
 - ➔ Beazer provided responses to the WDNR's comments in a letter dated April 30, 2002.
 - ➔ On June 24, 2002, Beazer provided a letter to the WDNR to obtain the necessary wetland-related permits/approvals to conduct the Crawford Creek floodplain investigation.
 - ➔ On December 30, 2002, Beazer provided another letter to the WDNR proposing an alternate approach for performing the Crawford Creek floodplain investigations, whereby the work would be completed during frozen ground conditions, which would not require WDNR wetland-related permits/approvals.
 - ➔ Throughout 2002, ongoing negotiations were conducted with a nearby property owner to gain access to his property, which is necessary to conduct the Crawford Creek floodplain investigation.
 - ➔ The Crawford Creek investigation activities (including floodplain test pits and sediment/floodplain soil sampling) were performed in February 2003; a letter report summarizing the scope and findings of the Crawford Creek investigation activities was submitted to the WDNR on June 26, 2003.
- Additional investigations of the Outfall 001 drainage ditch (including visual characterization of manually recovered soil cores collected within and adjacent to

the ditch) were performed between May 19 and 22, 2003; a letter report summarizing the scope and findings of the investigation activities was submitted to the WDNR on October 2, 2003.

- Based on a letter from the WDNR dated January 22, 2004 and discussions during a conference call on February 26, 2004, additional investigations of the Outfall 001 drainage ditch and Crawford Creek were conducted between April and December 2005; the investigation results were reported to the WDNR on February 21, 2006.
- Based on discussions during a January 20, 2005 meeting/conference call and a letter from the WDNR dated January 25, 2005, additional on-property soil sampling was conducted in April and September 2005; the sampling results were reported to the WDNR on February 22, 2006.
- Additional on-property soil samples were collected in 2006 to support revisions to the HHRA.
- In a letter to Beazer dated April 11, 2002, the WDNR requested information regarding the potential presence of PAHs and dioxins/furans in Nemadji River fish.
 - ➔ In a letter dated July 10, 2002, Beazer provided the requested information to the WDNR.
 - ➔ In a memorandum to the WDNR dated January 17, 2003, the WDHFS requested additional information to support the conclusion that collecting and analyzing samples of fish in Crawford Creek and Nemadji River is not warranted.
 - ➔ The requested additional information was provided in a letter from AMEC to the WDNR dated June 1, 2003.
 - ➔ Revised dioxin/furan fish tissue concentration calculated based on data collected in May 2003 were provided to the WDNR in a letter from AMEC dated October 14, 2003.
- Additional off-property investigations (soil borings, soil sampling, temporary well installations, and groundwater sampling in the Crawford Creek floodplain area) were completed from August 2013 through January 2014 in accordance with a work plan submitted to the WDNR on June 28, 2013 and conditionally approved by the WDNR on July 3, 2013. The investigation results were reported to WDNR on April 15, 2014.
- Supplemental data gap investigations (soil borings, soil sampling, temporary well installations, groundwater sampling, slug testing, surface water sampling, sediment coring, and sediment sampling) were completed along Crawford Creek and the Outfall 001 drainage ditch between May and September 2020, in accordance with a work plan and QAPP dated September 17, 2019, and subsequent addendum dated July 22, 2020. The investigation results were reported to WDNR on April 23, 2021. These investigations were a component of the Focused Feasibility Study being prepared by Beazer and USEPA as part of the Great Lakes Legacy Act project.

APPENDIX B
Field Data and Notes

First Semi-Annual Event



LOW-FLOW GROUNDWATER WELL No.: W-04AR2

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-04AR2</u>
Project Name: <u>Superior 2023 1SA Sampling</u>	Date: <u>04/27/2023 0827</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Shane Lindquist</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>40s/cloudy</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>3.45</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>14.08</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>10.63</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>1.7</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>04/27/2023 0830</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>04/27/2023 0855</u>
Total Volume Removed (gals): <u>0.66</u>	

Field Equipment	Calibrated	Sampling Equipment	Dedicated
YSI Pro DSS 19J101164	Yes	QED Bladder Pump System - Controller 11483	No
Heron Water Level Meter 200' 4524-T	No		
Geotech Turbidity Meter 22114384	Yes		

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	0830	125	Constant 6.30	+- 0.10 7.54	+- 3.000 % 0.864	+- 10 20.1	+- 10 % 3.97	+- 10 % 9.87	4.20	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	0835	100	6.10	7.42	0.787	4.2	3.54	9.72	4.25	
2	0840	100	6.10	7.21	0.724	1.2	3.21	8.92	4.50	
3	0845	100	6.10	7.20	0.736	-3.1	3.34	8.91	4.75	
4	0850	100	6.10	7.23	0.741	-5.2	3.41	8.78	4.95	
5	0855	100	6.00	7.22	0.745	-6.3	3.31	8.81	5.10	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 1SA Sampling 001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 1SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	3	1 liter amber bottle	None	Superior 2023 1SA Sampling 001
TAKNOX	8290_Dioxins/Furans (Knoxville) (1L)	8290_Dioxins/Furans (Knoxville) (1L)	2	2	1 liter amber glass	None	Superior 2023 1SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-04AR2-042723
 Blind Duplicate :SUPE-W-99B-042723

Sample Start time: 04/27/2023 0855
 Sample Finish time: 04/27/2023 1055

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-06A

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-06A</u>
Project Name: <u>Superior 2023 1SA Sampling</u>	Date: <u>04/26/2023 1030</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Marie Ferrick</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>Sunny, 50s</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>3.22</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>13.21</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>9.99</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>1.6</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>04/26/2023 1036</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>04/26/2023 1101</u>
Total Volume Removed (gals): <u>0.42</u>	

Field Equipment	Calibrated	Sampling Equipment	Dedicated
Heron Dipper T2 Water Level Meter 200' 12FF2208114FR	No	QED Bladder Pump 165	No
Lamotte 2020we Turbidity Meter 5271-0515	Yes		
YSI Pro DSS 20L105357	Yes		

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1036	75	Constant 7.10	+- 0.10 6.94	+- 3.000 % 0.657	+- 10 89.2	+- 10 % 1.45	+- 10 % 9.82	3.42	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1041	75	6.90	6.92	0.638	76.1	1.31	7.34	3.65	
2	1046	60	7.00	6.93	0.625	70.5	1.28	7.59	3.72	
3	1051	60	7.00	6.94	0.621	53.8	1.25	5.78	3.89	
4	1056	60	7.20	6.94	0.621	52.1	1.34	5.93	4.22	
5	1101	60	7.30	6.94	0.622	48.7	1.24	5.48	4.45	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 1SA Sampling 001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 1SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	3	1 liter amber bottle	None	Superior 2023 1SA Sampling 001
TAKNOX	8290_Dioxins/Furans (Knoxville) (1L)	8290_Dioxins/Furans (Knoxville) (1L)	2	2	1 liter amber glass	None	Superior 2023 1SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample : SUPE-W-06A-042623

Sample Start time: 04/26/2023 1125

Sample Finish time: 04/26/2023 1336

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-06C

SAMPLE COLLECTION RECORD

UNREADABLE

Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-06C</u>
Project Name: <u>Superior 2023 1SA Sampling</u>	Date: <u>04/26/2023 1202</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Shane Lindquist</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>40s/Sunny</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>12.34</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>44.01</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>31.67</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>5.2</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>04/26/2023 1210</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>04/26/2023 1235</u>
Total Volume Removed (gals): <u>1.16</u>	

Field Equipment	Calibrated	Sampling Equipment	Dedicated
Heron Water Level Meter 200' 4524-T	No	QED Bladder Pump System - Controller 11483	No
Geotech Turbidity Meter 22114384	Yes		
YSI Pro DSS 19J101164	Yes		

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1210	175	Constant 7.90	+- 0.10 7.93	+- 3.000 % 0.581	+- 10 7.7	+- 10 % 8.50	+- 10 % 7.76	12.05	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1215	175	6.90	7.80	0.572	-37.7	8.06	5.82	12.20	
2	1220	175	6.90	7.77	0.572	-115.3	7.54	5.64	12.25	
3	1225	175	6.90	7.76	0.573	-132.6	7.05	5.62	12.30	
4	1230	175	6.90	7.77	0.572	-137.7	7.00	5.95	12.35	
5	1235	175	6.90	7.79	0.562	-138.6	7.09	5.83	12.35	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 1SA Sampling 001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 1SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	3	1 liter amber bottle	None	Superior 2023 1SA Sampling 001
TAKNOX	8290_Dioxins/Furans (Knoxville) (1L)	8290_Dioxins/Furans (Knoxville) (1L)	2	2	1 liter amber glass	None	Superior 2023 1SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-06C-042623

Sample Start time: 04/26/2023 1235

Sample Finish time: 04/26/2023 1301

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-10AR2

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-10AR2</u>
Project Name: <u>Superior 2023 1SA Sampling</u>	Date: <u>04/27/2023 1358</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Marie Ferrick</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>Cloudy, 50s</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>3.72</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>17.52</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>13.80</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>2.2</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>04/27/2023 1411</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>04/27/2023 1432</u>
Total Volume Removed (gals): <u>0.28</u>	

Field Equipment

Field Equipment	Calibrated
Lamotte 2020we Turbidity Meter 5271-0515	Yes
YSI Pro DSS 20L105357	Yes
Heron Dipper T2 Water Level Meter 200' 12FF2208114FR	No

Sampling Equipment

Sampling Equipment	Dedicated
QED Bladder Pump 165	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1411	50	11.30	6.95	0.882	-15.1	4.49	7.02	4.19	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
1	1416	50	11.50	6.76	0.908	-41.2	2.51	4.64	4.35	
2	1421	50	11.60	6.74	0.915	-48.8	1.74	3.87	4.42	
3	1426	50	11.70	6.73	0.920	-55.1	1.30	4.61	4.49	
4	1429	50	11.70	6.72	0.921	-57.6	1.28	4.43	4.50	
5	1432	50	11.70	6.72	0.923	-60.2	1.25	4.35	4.52	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 1SA Sampling 001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 1SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	3	1 liter amber bottle	None	Superior 2023 1SA Sampling 001
TAKNOX	8290_Dioxins/Furans (Knoxville) (1L)	8290_Dioxins/Furans (Knoxville) (1L)	2	2	1 liter amber glass	None	Superior 2023 1SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-10AR2-042723

Sample Start time: 04/27/2023 1433

Sample Finish time: 04/27/2023 1622

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-12A

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-12A</u>
Project Name: <u>Superior 2023 1SA Sampling</u>	Date: <u>04/27/2023 0815</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Marie Ferrick</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>Sunny, 50s</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>3.18</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>13.38</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>10.20</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>1.7</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>04/27/2023 0824</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>04/27/2023 0839</u>
Total Volume Removed (gals): <u>0.30</u>	

Field Equipment

Field Equipment	Calibrated
YSI Pro DSS 20L105357	Yes
Lamotte 2020we Turbidity Meter 5271-0515	Yes
Heron Dipper T2 Water Level Meter 200' 12FF2208114FR	No

Sampling Equipment

Sampling Equipment	Dedicated
QED Bladder Pump 165	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	0824	75	Constant 8.60	+- 0.10 7.43	+- 3.000 % 0.662	+- 10 99.7	+- 10 % 5.90	+- 10 % 9.84	3.22	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	0827	75	8.50	7.31	0.351	95.2	5.18	6.34	3.42	
2	0830	75	8.20	7.28	0.229	89.0	5.36	5.68	3.65	
3	0833	75	8.30	7.25	0.225	85.4	5.25	5.71	3.79	
4	0836	75	8.30	7.23	0.221	82.7	5.13	5.52	3.98	
5	0839	75	8.40	7.22	0.223	83.4	5.29	5.33	4.16	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 1SA Sampling 001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 1SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	3	1 liter amber bottle	None	Superior 2023 1SA Sampling 001
TAKNOX	8290_Dioxins/Furans (Knoxville) (1L)	8290_Dioxins/Furans (Knoxville) (1L)	2	2	1 liter amber glass	None	Superior 2023 1SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample : SUPE-W-12A-042723

Sample Start time: 04/27/2023 0844

Sample Finish time: 04/27/2023 1037

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-12CR

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-12CR</u>
Project Name: <u>Superior 2023 1SA Sampling</u>	Date: <u>04/26/2023 1437</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Marie Ferrick</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>Sunny, 60s</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>15.43</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>47.68</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>32.25</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>5.3</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>04/26/2023 1447</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>04/26/2023 1512</u>
Total Volume Removed (gals): <u>0.99</u>	

Field Equipment	Calibrated	Sampling Equipment	Dedicated
Lamotte 2020we Turbidity Meter 5271-0515	Yes	QED Bladder Pump 165	No
Heron Dipper T2 Water Level Meter 200' 12FF2208114FR	No		
YSI Pro DSS 20L105357	Yes		

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1447	150	Constant 10.10	+- 0.10 7.73	+- 3.000 % 0.999	+- 10 -69.6	+- 10 % 2.48	+- 10 % 7.19	15.45	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1452	150	8.40	7.52	1.003	-99.6	1.54	4.76	15.47	
2	1457	150	8.40	7.45	1.000	-113.6	1.21	3.97	15.47	
3	1502	150	8.30	7.41	1.002	-120.9	1.14	3.86	15.47	
4	1507	150	8.10	7.39	1.003	-124.7	1.10	4.24	15.47	
5	1512	150	8.10	7.37	1.002	-128.1	1.07	4.11	15.47	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 1SA Sampling 001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 1SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	3	1 liter amber bottle	None	Superior 2023 1SA Sampling 001
TAKNOX	8290_Dioxins/Furans (Knoxville) (1L)	8290_Dioxins/Furans (Knoxville) (1L)	2	2	1 liter amber glass	None	Superior 2023 1SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-12CR-042623
 Equipment Blank :SUPE-EB-01-042623

Sample Start time: 04/26/2023 1515
 Sample Finish time: 04/26/2023 1600

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-18D

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-18D</u>
Project Name: <u>Superior 2023 1SA Sampling</u>	Date: <u>04/26/2023 1538</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Shane Lindquist</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>50s/Sunny</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>46.02</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>201.80</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>155.78</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>101.7</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>04/26/2023 1550</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>04/26/2023 1615</u>
Total Volume Removed (gals): <u>0.86</u>	

Field Equipment

Field Equipment	Calibrated
Heron Water Level Meter 200' 4524-T	No
Geotech Turbidity Meter 22114384	Yes
YSI Pro DSS 19J101164	Yes

Sampling Equipment

Sampling Equipment	Dedicated
QED Bladder Pump System - Controller 11483	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1550	200	Constant 8.20	+- 0.10 10.90	+- 3.000 % 0.433	+- 10 -67.6	+- 10 % 4.51	+- 10 % 7.38	46.35	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1555	150	7.30	11.14	0.446	-98.1	1.64	5.97	46.75	
2	1600	125	7.80	11.16	0.457	-110.0	1.39	6.34	47.00	
3	1605	125	7.60	11.18	0.464	-114.6	1.10	6.21	47.25	
4	1610	125	7.40	11.20	0.470	-116.4	1.08	5.96	47.50	
5	1615	125	7.50	11.21	0.473	-118.0	1.07	5.91	47.80	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TACHI	8270D_SVOC+Naphth (Chicago) (250ml)	8270D_SVOC+naphtha (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 1SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	3	1 liter amber bottle	None	Superior 2023 1SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-18D-042623

Sample Start time: 04/26/2023 1615

Sample Finish time: 04/26/2023 1628

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-28C

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-28C</u>
Project Name: <u>Superior 2023 1SA Sampling</u>	Date: <u>04/26/2023 0959</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Shane Lindquist</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>40s/Sunny</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>14.10</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>45.40</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>31.30</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>5.1</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>04/26/2023 1013</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>04/26/2023 1038</u>
Total Volume Removed (gals): <u>1.16</u>	

Field Equipment	Calibrated	Sampling Equipment	Dedicated
Heron Water Level Meter 200' 4524-T	No	QED Bladder Pump System - Controller 11483	No
YSI Pro DSS 19J101164	Yes		
Geotech Turbidity Meter 22114384	Yes		

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1013	175	Constant 7.20	+- 0.10 7.60	+- 3.000 % 0.792	+- 10 30.1	+- 10 % 7.36	+- 10 % 17.40	14.10	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1018	175	6.90	7.49	0.816	19.2	4.35	5.52	14.20	
2	1023	175	7.00	7.51	0.817	-89.2	3.67	5.52	14.20	
3	1028	175	7.00	7.53	0.817	-128.4	3.67	4.90	14.22	
4	1033	175	6.90	7.54	0.818	-130.7	3.71	4.46	14.25	
5	1038	175	7.10	7.53	0.832	-137.4	3.42	4.42	14.25	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 1SA Sampling 001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 1SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	3	1 liter amber bottle	None	Superior 2023 1SA Sampling 001
TAKNOX	8290_Dioxins/Furans (Knoxville) (1L)	8290_Dioxins/Furans (Knoxville) (1L)	2	2	1 liter amber glass	None	Superior 2023 1SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-28C-042623
 Blind Duplicate :SUPE-W-99A-042623

Sample Start time: 04/26/2023 1038
 Sample Finish time: 04/26/2023 1116

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-30A

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-30A</u>
Project Name: <u>Superior 2023 1SA Sampling</u>	Date: <u>04/27/2023 1104</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Marie Ferrick</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>Cloudy, 50s</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>2.29</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>12.70</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>10.41</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>1.7</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>04/27/2023 1110</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>04/27/2023 1129</u>
Total Volume Removed (gals): <u>0.50</u>	

Field Equipment

Field Equipment	Calibrated
Lamotte 2020we Turbidity Meter 5271-0515	Yes
Heron Dipper T2 Water Level Meter 200' 12FF2208114FR	No
YSI Pro DSS 20L105357	Yes

Sampling Equipment

Sampling Equipment	Dedicated
QED Bladder Pump 165	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1110	100	Constant 7.60	+- 0.10 7.19	+- 3.000 % 0.974	+- 10 -34.2	+- 10 % 2.99	+- 10 % 10.59	2.98	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1115	100	7.40	6.88	0.969	-40.8	1.86	10.24	3.15	
2	1120	100	7.60	6.72	0.960	-40.8	1.40	9.84	3.42	
3	1123	100	7.80	6.69	0.954	-39.6	1.33	9.63	3.53	
4	1126	100	7.90	6.67	0.951	-37.6	1.27	9.75	3.62	
5	1129	100	8.00	6.65	0.946	-35.3	1.23	9.53	3.88	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 1SA Sampling 001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 1SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	3	1 liter amber bottle	None	Superior 2023 1SA Sampling 001
TAKNOX	8290_Dioxins/Furans (Knoxville) (1L)	8290_Dioxins/Furans (Knoxville) (1L)	2	2	1 liter amber glass	None	Superior 2023 1SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-30A-042723

Sample Start time: 04/27/2023 1129

Equipment Blank :SUPE-EB-02-042723

Sample Finish time: 04/27/2023 1330

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-30C

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-30C</u>
Project Name: <u>Superior 2023 1SA Sampling</u>	Date: <u>04/26/2023 1326</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Shane Lindquist</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>50s/Sunny</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>15.16</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>48.51</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>33.35</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>5.4</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>04/26/2023 1417</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>04/26/2023 1442</u>
Total Volume Removed (gals): <u>0.99</u>	

Field Equipment	Calibrated	Sampling Equipment	Dedicated
Heron Water Level Meter 200' 4524-T	No	QED Bladder Pump System - Controller 11483	No
YSI Pro DSS 19J101164	Yes		
Geotech Turbidity Meter 22114384	Yes		

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1417	150	Constant 8.10	+- 0.10 7.78	+- 3.000 % 0.604	+- 10 -25.9	+- 10 % 5.37	+- 10 % 21.80	14.70	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1422	150	7.30	7.71	0.659	-116.7	4.43	16.00	14.80	
2	1427	150	7.30	7.73	0.657	-130.7	4.80	15.10	14.90	
3	1432	150	7.10	7.74	0.654	-131.8	4.89	9.71	15.00	
4	1437	150	7.20	7.74	0.655	-131.9	4.86	9.62	15.10	
5	1442	150	7.10	7.75	0.655	-130.4	5.00	9.74	15.10	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 1SA Sampling 001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 1SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	3	1 liter amber bottle	None	Superior 2023 1SA Sampling 001
TAKNOX	8290_Dioxins/Furans (Knoxville) (1L)	8290_Dioxins/Furans (Knoxville) (1L)	2	2	1 liter amber glass	None	Superior 2023 1SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-30C-042623

Sample Start time: 04/26/2023 1442

Sample Finish time: 04/26/2023 1514

Comments: _____

Second Semi-Annual Event



LOW-FLOW GROUNDWATER WELL No.: W-04AR2

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-04AR2</u>
Project Name: <u>Superior 2023 2SA Sampling</u>	Date: <u>10/03/2023 1630</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Shane Lindquist</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>70s/Sunny</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>3.67</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>14.08</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>10.41</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>1.7</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>10/03/2023 1635</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>10/03/2023 1700</u>
Total Volume Removed (gals): <u>0.50</u>	

Field Equipment	Calibrated	Sampling Equipment	Dedicated
YSI Pro Quatro 21K103792	Yes	QED Bladder Pump System - Controller 11483	No
LaMotte 2020we Turbidity Meter 6110-4815	Yes	Geotech Bladder Pump System 161	No
Heron Water Level Meter 200' 2615-T	No		

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1635	75	Constant 18.00	+- 0.10 7.51	+- 3.000 % 1.085	+- 10 67.4	+- 10 % 1.55	+- 10 % 6.41	3.88	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1640	75	16.80	7.59	1.086	-26.3	0.57	6.24	3.98	
2	1645	75	16.20	7.60	1.080	-30.0	0.54	5.84	4.12	
3	1650	75	16.80	7.59	1.083	-28.8	0.47	5.21	4.18	
4	1655	75	16.80	7.60	1.081	-27.7	0.46	5.16	4.22	
5	1700	75	16.80	7.60	1.082	-26.9	0.45	5.09	4.26	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 2SA Sampling 001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 2SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	2	1 liter amber bottle	None	Superior 2023 2SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-04AR2-100323

Sample Start time: 10/03/2023 1700

Sample Finish time: 10/03/2023 1733

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-06A

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-06A</u>
Project Name: <u>Superior 2023 2SA Sampling</u>	Date: <u>10/03/2023 1304</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Dakota Vanryn</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>70's Sunny</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>5.53</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>13.19</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>7.66</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>1.2</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>10/03/2023 1319</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>10/03/2023 1344</u>
Total Volume Removed (gals): <u>0.26</u>	

Field Equipment	Calibrated	Sampling Equipment	Dedicated
Geotech Turbidity Meter 22114384	Yes	QED Bladder Pump System - Controller 11483	No
YSI Pro Quatro 21C103687	Yes	Geotech Bladder Pump 165	No
Heron 200' Water Level Meter FTS001759	No	Well Wizard 3020 21850	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1319	40	Constant 19.40	+- 0.10 6.86	+- 3.000 % 0.383	+- 10 64.0	+- 10 % 1.61	+- 10 % 35.70	5.80	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1324	40	20.60	6.83	0.378	58.3	1.20	26.30	5.89	
2	1329	40	20.80	6.84	0.380	57.6	1.25	13.40	5.94	
3	1334	40	20.80	6.84	0.381	55.7	1.30	8.74	6.00	
4	1339	40	20.90	6.84	0.382	54.1	1.27	7.69	6.04	
5	1344	40	20.10	6.82	0.382	52.7	1.21	8.53	6.09	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 2SA Sampling_001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 2SA Sampling_001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	2	1 liter amber bottle	None	Superior 2023 2SA Sampling_001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-06A-100323

Sample Start time: 10/03/2023 1347

Sample Finish time: 10/03/2023 1426

Comments: Downwind from active tie grinding area



SAMPLE COLLECTION RECORD

UNREADABLE

Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-06C</u>
Project Name: <u>Superior 2023 2SA Sampling</u>	Date: <u>10/03/2023 1441</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Dakota Vanryn</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>80's Sunny</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>12.57</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>44.02</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>31.45</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>5.1</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>10/03/2023 1452</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>10/03/2023 1517</u>
Total Volume Removed (gals): <u>0.17</u>	

Field Equipment	Calibrated	Sampling Equipment	Dedicated
Heron 200' Water Level Meter FTS001759	No	Well Wizard 3020 21850	No
Geotech Turbidity Meter 22114384	Yes	Geotech Bladder Pump 165	No
YSI Pro Quatro 21C103687	Yes	QED Bladder Pump System - Controller 11483	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1452	25	Constant 19.60	+ - 0.10 7.73	+ - 3.000 % 0.688	+ - 10 42.6	+ - 10 % 1.27	+ - 10 % 6.38	12.60	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+ - 0.10	+ - 3.000 %	+ - 10	+ - 10 %	+ - 10 %		
1	1457	25	19.90	7.74	0.703	34.3	0.59	3.03	12.60	
2	1502	25	20.00	7.73	0.713	30.1	0.51	3.55	12.60	
3	1507	25	20.20	7.72	0.719	28.2	0.45	1.96	12.60	
4	1512	25	20.30	7.72	0.722	26.6	0.48	2.04	12.60	
5	1517	25	20.40	7.72	0.721	25.8	0.44	1.65	12.60	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 2SA Sampling_001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 2SA Sampling_001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	2	1 liter amber bottle	None	Superior 2023 2SA Sampling_001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-06C-100323
 Equipment Blank :SUPE-EB-1-100323

Sample Start time: 10/03/2023 1520
 Sample Finish time: 10/03/2023 1552

Comments: Downwind from active tie grinding area



LOW-FLOW GROUNDWATER WELL No.: W-10AR2

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-10AR2</u>
Project Name: <u>Superior 2023 2SA Sampling</u>	Date: <u>10/04/2023 0858</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Dakota Vanryn</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>60's cloudy</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>6.34</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>17.52</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>11.18</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>1.8</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>10/04/2023 0914</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>10/04/2023 0939</u>
Total Volume Removed (gals): <u>0.40</u>	

Field Equipment

Field Equipment	Calibrated
YSI Pro Quatro 21C103687	Yes
Heron Dipper T2 Water Level Meter 200' 12FF2208114FR	No
Geotech Turbidity Meter 22114384	Yes

Sampling Equipment

Sampling Equipment	Dedicated
QED Bladder Pump System - Controller 11483	No
Well Wizard 3020 21850	No
Geotech Bladder Pump 165	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	0914	60	Constant 13.10	+- 0.10 6.83	+- 3.000 % 1.158	+- 10 -24.4	+- 10 % 3.63	+- 10 % 2.98	6.50	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	0919	60	12.50	6.89	1.143	-83.9	1.08	3.97	6.65	
2	0924	60	13.00	6.90	1.136	-93.3	1.02	2.53	6.74	
3	0929	60	13.20	6.90	1.134	-95.1	0.94	2.70	6.82	
4	0934	60	13.10	6.90	1.131	-95.5	0.91	3.15	6.90	
5	0939	60	13.20	6.90	1.130	-95.2	0.89	2.47	6.96	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 2SA Sampling 001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 2SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	2	1 liter amber bottle	None	Superior 2023 2SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-10AR2-100423

Equipment Blank :SUPE-EB-2-100423

Blind Duplicate :SUPE-M-99B-100423

Sample Start time: 10/04/2023 0944

Sample Finish time: 10/04/2023 1055

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-12A

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-12A</u>
Project Name: <u>Superior 2023 2SA Sampling</u>	Date: <u>10/03/2023 1611</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Dakota Vanryn</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>80's Sunny</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>3.23</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>13.38</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>10.15</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>1.7</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>10/03/2023 1627</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>10/03/2023 1652</u>
Total Volume Removed (gals): <u>0.33</u>	

Field Equipment	Calibrated	Sampling Equipment	Dedicated
Geotech Turbidity Meter 22114384	Yes	QED Bladder Pump System - Controller 11483	No
YSI Pro Quatro 21C103687	Yes	Geotech Bladder Pump 165	No
Heron 200' Water Level Meter FTS001759	No	Well Wizard 3020 21850	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1627	50	Constant 18.60	+- 0.10 7.24	+- 3.000 % 0.519	+- 10 40.9	+- 10 % 2.09	+- 10 % 3.84	3.58	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1632	50	17.30	7.24	0.520	41.0	1.84	3.41	3.80	
2	1637	50	17.10	7.26	0.508	38.9	1.95	2.39	4.18	
3	1642	50	17.00	7.26	0.504	38.4	1.92	2.37	4.56	
4	1647	50	17.00	7.25	0.504	40.0	1.89	2.14	4.71	
5	1652	50	16.80	7.25	0.500	41.1	1.91	1.95	4.83	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 2SA Sampling_001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 2SA Sampling_001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	2	1 liter amber bottle	None	Superior 2023 2SA Sampling_001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-12A-100323

Sample Start time: 10/03/2023 1656

Sample Finish time: 10/03/2023 1738

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-12CR

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-12CR</u>
Project Name: <u>Superior 2023 2SA Sampling</u>	Date: <u>10/03/2023 1304</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Shane Lindquist</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>70s/Sunny</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>15.70</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>47.67</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>31.97</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>5.2</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>10/03/2023 1307</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>10/03/2023 1332</u>
Total Volume Removed (gals): <u>0.66</u>	

Field Equipment

Field Equipment	Calibrated
LaMotte 2020we Turbidity Meter 6110-4815	Yes
YSI Pro Quatro 21K103792	Yes
Heron Water Level Meter 200' 2615-T	No

Sampling Equipment

Sampling Equipment	Dedicated
Geotech Bladder Pump System 161	No
N/a	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1307	100	Constant 13.90	+- 0.10 8.18	+- 3.000 % 1.176	+- 10 -88.5	+- 10 % 2.11	+- 10 % 4.21	15.75	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1312	100	10.70	8.19	1.176	-151.7	1.43	4.03	15.75	
2	1317	100	10.20	8.25	1.176	-155.8	0.95	3.89	15.76	
3	1322	100	10.10	8.32	1.178	-157.2	0.54	3.81	15.77	
4	1327	100	9.90	8.37	1.177	-159.1	0.51	3.76	15.77	
5	1332	100	10.00	8.36	1.177	-160.4	0.49	3.71	15.77	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 2SA Sampling_001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 2SA Sampling_001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	2	1 liter amber bottle	None	Superior 2023 2SA Sampling_001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-12CR-100323

Trip Blank :SUPE-TB-01-100323

Blind Duplicate :SUPE-M-99A-100323

Sample Start time: 10/03/2023 1332

Sample Finish time: 10/03/2023 1415

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-18D

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-18D</u>
Project Name: <u>Superior 2023 2SA Sampling</u>	Date: <u>10/03/2023 1114</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Shane Lindquist</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>70s/Sunny</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>46.46</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>201.80</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>155.34</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>101.4</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>10/03/2023 1118</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>10/03/2023 1143</u>
Total Volume Removed (gals): <u>0.66</u>	

Field Equipment

Field Equipment	Calibrated
Heron Water Level Meter 200' 2615-T	No
YSI Pro Quatro 21K103792	Yes
LaMotte 2020we Turbidity Meter 6110-4815	Yes

Sampling Equipment

Sampling Equipment	Dedicated
QED Bladder Pump System - Controller 11483	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1118	200	Constant 11.20	+- 0.10 11.04	+- 3.000 % 0.506	+- 10 -14.8	+- 10 % 3.50	+- 10 % 2.70	46.75	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1123	100	9.90	11.38	0.527	-91.3	1.32	2.67	47.23	
2	1128	100	11.20	11.41	0.530	-112.8	1.12	2.63	47.46	
3	1133	100	11.20	11.46	0.532	-120.9	0.93	2.61	47.70	
4	1138	100	11.20	11.47	0.532	-123.7	0.91	2.57	47.90	
5	1143	100	11.30	11.49	0.532	-125.9	0.87	2.55	47.95	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TACHI	8270D_SVOC+Naphth (Chicago) (250ml)	8270D_SVOC+naphtha (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 2SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	2	1 liter amber bottle	None	Superior 2023 2SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-18D-100323

Sample Start time: 10/03/2023 1143

Sample Finish time: 10/03/2023 1206

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-28C

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-28C</u>
Project Name: <u>Superior 2023 2SA Sampling</u>	Date: <u>10/03/2023 1006</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Shane Lindquist</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>70s/Sunny</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>14.30</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>45.40</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>31.10</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>5.1</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>10/03/2023 1008</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>10/03/2023 1033</u>
Total Volume Removed (gals): <u>0.99</u>	

Field Equipment	Calibrated	Sampling Equipment	Dedicated
LaMotte 2020we Turbidity Meter 6110-4815	Yes	QED Bladder Pump System - Controller 11483	No
YSI Pro Quatro 21K103792	Yes		
Heron Water Level Meter 200' 2615-T	No		

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1008	150	Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %	14.35	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (ma/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1013	150	10.30	8.01	0.914	-123.8	1.69	3.88	14.45	
2	1018	150	10.20	8.05	0.914	-158.7	1.19	3.35	14.45	
3	1023	150	10.40	8.08	0.912	-161.0	0.91	3.21	14.45	
4	1028	150	10.20	8.08	0.909	-160.1	0.89	3.18	14.45	
5	1033	150	10.20	8.10	0.912	-159.3	0.87	3.17	14.45	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 2SA Sampling_001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 2SA Sampling_001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	2	1 liter amber bottle	None	Superior 2023 2SA Sampling_001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-28C-100323

Sample Start time: 10/03/2023 1033

Sample Finish time: 10/03/2023 1046

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-30A

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-30A</u>
Project Name: <u>Superior 2023 2SA Sampling</u>	Date: <u>10/03/2023 1448</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Shane Lindquist</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>70s/Sunny</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>2.83</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>12.71</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>9.88</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>1.6</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>10/03/2023 1455</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>10/03/2023 1520</u>
Total Volume Removed (gals): <u>0.36</u>	

Field Equipment	Calibrated	Sampling Equipment	Dedicated
Heron Water Level Meter 200' 2615-T	No	N/a	No
LaMotte 2020we Turbidity Meter 6110-4815	Yes	Geotech Bladder Pump System 161	No
YSI Pro Quatro 21K103792	Yes		

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1455	75	Constant 17.50	+- 0.10 6.95	+- 3.000 % 0.976	+- 10 -64.7	+- 10 % 1.64	+- 10 % 8.72	3.25	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1500	75	17.00	7.02	0.844	-5.0	0.95	7.14	3.82	
2	1505	50	18.10	7.00	0.804	10.9	0.99	6.87	4.02	
3	1510	50	18.20	6.97	0.731	7.3	0.96	6.02	4.25	
4	1515	50	16.40	7.04	0.725	7.3	0.94	5.89	4.75	
5	1520	50	17.00	7.06	0.713	8.9	0.92	5.87	4.98	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 2SA Sampling_001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 2SA Sampling_001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	2	1 liter amber bottle	None	Superior 2023 2SA Sampling_001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-30A-100323

Sample Start time: 10/03/2023 1520

Sample Finish time: 10/03/2023 1558

Comments: _____



LOW-FLOW GROUNDWATER WELL No.: W-30C

SAMPLE COLLECTION RECORD



Client: <u>Beazer East, Inc.</u>	Well ID: <u>W-30C</u>
Project Name: <u>Superior 2023 2SA Sampling</u>	Date: <u>10/03/2023 0957</u>
Project Number: <u>OM-0556-23-091</u>	Technician: <u>Dakota Vanryn</u>
Location: <u>Superior, WI</u>	Weather Conditions: <u>70's Sunny</u>

WATER LEVEL DATA

a.) Depth To Groundwater: <u>15.40</u> (ft)	e.) Depth to LNAPL: <u>NP</u> (ft)
b.) Total Well Depth: <u>48.47</u> (ft)	f.) Depth to DNAPL: <u>NP</u> (ft)
c.) Length of Water Column: <u>33.07</u> (ft)	g.) LNAPL Thickness: <u>N/A</u> (ft)
d.) Well Volume: <u>5.4</u> (gal)	h.) DNAPL Thickness: <u>N/A</u> (ft)

WATER PURGE DATA

Purge Method: <u>Non-Dedicated Bladder Pump</u>	Purge Start: <u>10/03/2023 1121</u>
Conductivity Unit: <u>mS/cm</u>	Purge End: <u>10/03/2023 1151</u>
Total Volume Removed (gals): <u>0.59</u>	

Field Equipment

Field Equipment	Calibrated
Geotech Turbidity Meter 22114384	Yes
Heron 200' Water Level Meter FTS001759	No
YSI Pro Quatro 21C103687	Yes

Sampling Equipment

Sampling Equipment	Dedicated
Geotech Bladder Pump 165	No
QED Bladder Pump System - Controller 11483	No
Well Wizard 3020 21850	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
Initial	1121	75	Constant 16.00	+- 0.10 7.45	+- 3.000 % 0.633	+- 10 74.8	+- 10 % 8.05	+- 10 % 48.20	15.40	

PURGE VALUES

Reading #	Time	Purge Rate ml/minute	Temp (degrees C)	pH (s.u.)	Specific Conductivity (mS/cm)	Eh/ORP (mV)	Dissolved O2 (mg/l)	Turbidity (NTU)	Water Level (ft)	Notes
			Constant	+- 0.10	+- 3.000 %	+- 10	+- 10 %	+- 10 %		
1	1126	75	13.60	7.72	0.627	66.1	7.58	41.80	15.41	
2	1131	75	13.20	7.74	0.620	63.1	6.64	35.20	15.41	
3	1136	75	13.30	7.74	0.605	60.3	5.95	27.70	15.41	
4	1141	75	13.30	7.74	0.605	58.9	5.16	17.50	15.41	
5	1146	75	13.30	7.74	0.604	58.0	5.02	10.40	15.41	
6	1151	75	13.40	7.74	0.603	57.5	4.99	9.78	15.41	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle Qty		BottleType	Preservative	Program
			Req.	Collected			
TABUF	8260C_VOA+naphtha (Buffalo)	8260C_VOA+naphtha (Buffalo)	3	3	40 ml glass vial	HCL	Superior 2023 2SA Sampling 001
TACHI	8270D_SVOC (less naphtha) (Chicago) (250ml)	8270D_SVOC (less naphtha) (Chicago) (250ml)	2	2	250 ml amber bottle	None	Superior 2023 2SA Sampling 001
TABUF	8270D_LL_PCP (Buffalo) (1L)	8270D_LL_PCP (Buffalo) (1L)	2	2	1 liter amber bottle	None	Superior 2023 2SA Sampling 001

SAMPLE IDENTIFICATION(S)

Normal Sample :SUPE-W-30C-100323

Sample Start time: 10/03/2023 1154

Sample Finish time: 10/03/2023 1225

Comments: _____

APPENDIX C

Analytical Data

**First Semi-Annual Event and Second Semi-Annual Event
(.pdf files on CD)**

FTS, LLC

DATE: May 22, 2023

FROM: Kendra Chintella

SUBJECT: Superior Groundwater

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

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

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

LABORATORY: Eurofins Laboratories, Buffalo, Pittsburgh

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

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

Field Duplicate Precision:

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

NC – not calculated due to nondetect result

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



ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Superior, WI Semiannual Groundwater

JOB NUMBER

180-155743-1

Eurofins Pittsburgh

Job Notes

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

PA Lab ID: 02-00416

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

Authorization



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



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Case Narrative

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

Job ID: 180-155743-1

Job ID: 180-155743-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-155743-1

Receipt

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

GC/MS VOA

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

GC/MS Semi VOA

Method 8270E_LL: Received limited quantity, insufficient amount for MSD.(180-155743-G-1 MS)

Method 8270E_LL: The continuing calibration verification (CCV) associated with batch 180-434215 recovered above the upper control limit for 2,3,5,6-Tetrachlorophenol, 2-Nitroaniline and Bis(2-chloroethoxy)methane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 180-434215/3).

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

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

Definitions/Glossary

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

Job ID: 180-155743-1

Qualifiers

GC/MS Semi VOA

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

Glossary

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

Accreditation/Certification Summary

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

Job ID: 180-155743-1

Laboratory: Eurofins Pittsburgh

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

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

Laboratory: Eurofins Buffalo

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

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

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

Sample Summary

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

Job ID: 180-155743-1

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

- 1
- 2
- 3
- 4
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- 10
- 11
- 12
- 13

Method Summary

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

Job ID: 180-155743-1

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

Protocol References:

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

Laboratory References:

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

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

Lab Chronicle

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-1

Date Collected: 04/26/23 08:30

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	667627	05/01/23 14:02	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			1050 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 16:04	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			310 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 16:49	VVP	EET PIT
Instrument ID: CH71										

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

Lab Sample ID: 180-155743-2

Date Collected: 04/26/23 10:38

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	667627	05/01/23 14:25	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			1050 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 16:32	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			310 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 17:32	VVP	EET PIT
Instrument ID: CH71										

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

Lab Sample ID: 180-155743-3

Date Collected: 04/26/23 12:35

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	667627	05/01/23 14:47	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			1050 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 17:00	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			320 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 17:54	VVP	EET PIT
Instrument ID: CH71										

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

Lab Sample ID: 180-155743-4

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	667627	05/01/23 15:09	CDC	EET BUF
Instrument ID: HP5977K										

Lab Chronicle

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-4

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

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

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

Lab Sample ID: 180-155743-5

Date Collected: 04/26/23 16:15

Matrix: Water

Date Received: 04/28/23 09:10

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

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

Lab Sample ID: 180-155743-6

Date Collected: 04/26/23 11:25

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	667627	05/01/23 15:31	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			960 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 18:23	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			270 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 19:00	VVP	EET PIT
Instrument ID: CH71										

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

Lab Sample ID: 180-155743-7

Date Collected: 04/26/23 15:15

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	667627	05/01/23 15:54	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			950 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 18:51	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			290 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 19:22	VVP	EET PIT
Instrument ID: CH71										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-155743-1

Client Sample ID: SUPE-EB-01-042623

Lab Sample ID: 180-155743-8

Date Collected: 04/26/23 15:40

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	667627	05/01/23 16:16	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			1050 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 19:19	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			310 mL	250 uL	434029	05/02/23 12:33	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434215	05/04/23 19:43	VVP	EET PIT
Instrument ID: CH71										

Laboratory References:

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

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

Analyst References:

Lab: EET BUF

Batch Type: Prep

JMP = Jacob Pollock

Batch Type: Analysis

CDC = Charles Cwiklinski

JMM = Joseph Marshall

Lab: EET PIT

Batch Type: Prep

BJT = Bill Trout

Batch Type: Analysis

VVP = Vincent Piccolino

Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-1

Date Collected: 04/26/23 08:30

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/01/23 14:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 14:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 14:02	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 14:02	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 14:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 14:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 14:02	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 14:02	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 14:02	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 14:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 14:02	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 14:02	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 14:02	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 14:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					05/01/23 14:02	1
4-Bromofluorobenzene (Surr)	94		73 - 120					05/01/23 14:02	1
Dibromofluoromethane (Surr)	105		75 - 123					05/01/23 14:02	1
Toluene-d8 (Surr)	99		80 - 120					05/01/23 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		24 - 146				05/02/23 09:25	05/04/23 16:04	1
2-Fluorobiphenyl	97		37 - 120				05/02/23 09:25	05/04/23 16:04	1
2-Fluorophenol (Surr)	50		10 - 120				05/02/23 09:25	05/04/23 16:04	1
Nitrobenzene-d5 (Surr)	77		26 - 120				05/02/23 09:25	05/04/23 16:04	1
Phenol-d5 (Surr)	33		11 - 120				05/02/23 09:25	05/04/23 16:04	1
p-Terphenyl-d14	97		64 - 127				05/02/23 09:25	05/04/23 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.81	0.11	ug/L		05/02/23 12:33	05/04/23 16:49	1
1,2-Dichlorobenzene	ND		0.81	0.077	ug/L		05/02/23 12:33	05/04/23 16:49	1
1,3-Dichlorobenzene	ND		0.81	0.080	ug/L		05/02/23 12:33	05/04/23 16:49	1
1,4-Dichlorobenzene	ND		0.81	0.049	ug/L		05/02/23 12:33	05/04/23 16:49	1
1-Methylnaphthalene	ND		0.15	0.045	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,3,4,6-Tetrachlorophenol	ND		0.81	0.26	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,3,5,6-Tetrachlorophenol	ND		0.81	0.41	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,4,5-Trichlorophenol	ND		0.81	0.20	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,4,6-Trichlorophenol	ND		0.81	0.18	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,4-Dichlorophenol	ND		0.15	0.041	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,4-Dimethylphenol	ND		0.81	0.13	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,4-Dinitrophenol	ND		8.1	1.2	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,4-Dinitrotoluene	ND		0.81	0.28	ug/L		05/02/23 12:33	05/04/23 16:49	1
2,6-Dinitrotoluene	ND		0.81	0.14	ug/L		05/02/23 12:33	05/04/23 16:49	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-1

Date Collected: 04/26/23 08:30

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-1

Date Collected: 04/26/23 08:30

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

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

Lab Sample ID: 180-155743-2

Date Collected: 04/26/23 10:38

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/01/23 14:25	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 14:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 14:25	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 14:25	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 14:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 14:25	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 14:25	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 14:25	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 14:25	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 14:25	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 14:25	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 14:25	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 14:25	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 14:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 14:25	1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 16:32	1

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

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-2

Date Collected: 04/26/23 10:38

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-2

Date Collected: 04/26/23 10:38

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	1.2		0.81	0.60	ug/L		05/02/23 12:33	05/04/23 17:32	1
Di-n-octyl phthalate	ND		0.81	0.55	ug/L		05/02/23 12:33	05/04/23 17:32	1
Fluoranthene	ND		0.15	0.048	ug/L		05/02/23 12:33	05/04/23 17:32	1
Fluorene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 17:32	1
Hexachlorobenzene	ND		0.15	0.045	ug/L		05/02/23 12:33	05/04/23 17:32	1
Hexachlorobutadiene	ND		0.15	0.056	ug/L		05/02/23 12:33	05/04/23 17:32	1
Hexachlorocyclopentadiene	ND		0.81	0.40	ug/L		05/02/23 12:33	05/04/23 17:32	1
Hexachloroethane	ND		0.81	0.11	ug/L		05/02/23 12:33	05/04/23 17:32	1
Indeno[1,2,3-cd]pyrene	ND		0.15	0.069	ug/L		05/02/23 12:33	05/04/23 17:32	1
Isophorone	ND		0.81	0.15	ug/L		05/02/23 12:33	05/04/23 17:32	1
Methylphenol, 3 & 4	ND		0.81	0.30	ug/L		05/02/23 12:33	05/04/23 17:32	1
Nitrobenzene	ND		1.6	0.40	ug/L		05/02/23 12:33	05/04/23 17:32	1
N-Nitrosodi-n-propylamine	ND		0.15	0.057	ug/L		05/02/23 12:33	05/04/23 17:32	1
N-Nitrosodiphenylamine	ND		0.81	0.096	ug/L		05/02/23 12:33	05/04/23 17:32	1
Phenanthrene	0.073	J	0.15	0.044	ug/L		05/02/23 12:33	05/04/23 17:32	1
Phenol	ND		0.81	0.39	ug/L		05/02/23 12:33	05/04/23 17:32	1
Pyrene	ND		0.15	0.044	ug/L		05/02/23 12:33	05/04/23 17:32	1

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

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

Lab Sample ID: 180-155743-3

Date Collected: 04/26/23 12:35

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/01/23 14:47	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 14:47	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 14:47	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 14:47	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 14:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 14:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 14:47	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 14:47	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 14:47	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 14:47	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 14:47	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 14:47	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 14:47	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 14:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 14:47	1

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

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Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-3

Date Collected: 04/26/23 12:35

Matrix: Water

Date Received: 04/28/23 09:10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		73 - 120		05/01/23 14:47	1
Dibromofluoromethane (Surr)	97		75 - 123		05/01/23 14:47	1
Toluene-d8 (Surr)	98		80 - 120		05/01/23 14:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		24 - 146	05/02/23 09:25	05/04/23 17:00	1
2-Fluorobiphenyl	97		37 - 120	05/02/23 09:25	05/04/23 17:00	1
2-Fluorophenol (Surr)	50		10 - 120	05/02/23 09:25	05/04/23 17:00	1
Nitrobenzene-d5 (Surr)	75		26 - 120	05/02/23 09:25	05/04/23 17:00	1
Phenol-d5 (Surr)	33		11 - 120	05/02/23 09:25	05/04/23 17:00	1
p-Terphenyl-d14	80		64 - 127	05/02/23 09:25	05/04/23 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.78	0.10	ug/L		05/02/23 12:33	05/04/23 17:54	1
1,2-Dichlorobenzene	ND		0.78	0.074	ug/L		05/02/23 12:33	05/04/23 17:54	1
1,3-Dichlorobenzene	ND		0.78	0.077	ug/L		05/02/23 12:33	05/04/23 17:54	1
1,4-Dichlorobenzene	ND		0.78	0.048	ug/L		05/02/23 12:33	05/04/23 17:54	1
1-Methylnaphthalene	ND		0.15	0.044	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,3,4,6-Tetrachlorophenol	ND		0.78	0.25	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,3,5,6-Tetrachlorophenol	ND		0.78	0.40	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,4,5-Trichlorophenol	ND		0.78	0.20	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,4,6-Trichlorophenol	ND		0.78	0.18	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,4-Dichlorophenol	ND		0.15	0.040	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,4-Dimethylphenol	ND		0.78	0.13	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,4-Dinitrophenol	ND		7.8	1.2	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,4-Dinitrotoluene	ND		0.78	0.28	ug/L		05/02/23 12:33	05/04/23 17:54	1
2,6-Dinitrotoluene	ND		0.78	0.14	ug/L		05/02/23 12:33	05/04/23 17:54	1
2-Chloronaphthalene	ND		0.15	0.046	ug/L		05/02/23 12:33	05/04/23 17:54	1
2-Chlorophenol	ND		0.78	0.10	ug/L		05/02/23 12:33	05/04/23 17:54	1
2-Methylnaphthalene	ND		0.15	0.048	ug/L		05/02/23 12:33	05/04/23 17:54	1
2-Methylphenol	ND		0.78	0.23	ug/L		05/02/23 12:33	05/04/23 17:54	1
2-Nitroaniline	ND		3.9	0.43	ug/L		05/02/23 12:33	05/04/23 17:54	1
2-Nitrophenol	ND		0.78	0.15	ug/L		05/02/23 12:33	05/04/23 17:54	1
3,3'-Dichlorobenzidine	ND		0.78	0.46	ug/L		05/02/23 12:33	05/04/23 17:54	1
3-Nitroaniline	ND		3.9	0.34	ug/L		05/02/23 12:33	05/04/23 17:54	1
4,6-Dinitro-2-methylphenol	ND		3.9	1.1	ug/L		05/02/23 12:33	05/04/23 17:54	1
4-Bromophenyl phenyl ether	ND		0.78	0.25	ug/L		05/02/23 12:33	05/04/23 17:54	1
4-Chloro-3-methylphenol	ND		0.78	0.22	ug/L		05/02/23 12:33	05/04/23 17:54	1
4-Chloroaniline	ND		0.78	0.29	ug/L		05/02/23 12:33	05/04/23 17:54	1
4-Chlorophenyl phenyl ether	ND		0.78	0.17	ug/L		05/02/23 12:33	05/04/23 17:54	1
4-Nitroaniline	ND		3.9	0.28	ug/L		05/02/23 12:33	05/04/23 17:54	1
4-Nitrophenol	ND		3.9	0.73	ug/L		05/02/23 12:33	05/04/23 17:54	1
Acenaphthene	ND		0.15	0.051	ug/L		05/02/23 12:33	05/04/23 17:54	1
Acenaphthylene	ND		0.15	0.051	ug/L		05/02/23 12:33	05/04/23 17:54	1
Anthracene	ND		0.15	0.038	ug/L		05/02/23 12:33	05/04/23 17:54	1

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Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-3

Date Collected: 04/26/23 12:35

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

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

Lab Sample ID: 180-155743-4

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/01/23 15:09	1

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Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-4

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 15:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 15:09	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 15:09	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 15:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 15:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 15:09	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 15:09	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 15:09	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 15:09	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 15:09	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 15:09	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 15:09	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 15:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 15:09	1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		24 - 146	05/02/23 09:25	05/04/23 17:28	1
2-Fluorobiphenyl	112		37 - 120	05/02/23 09:25	05/04/23 17:28	1
2-Fluorophenol (Surr)	57		10 - 120	05/02/23 09:25	05/04/23 17:28	1
Nitrobenzene-d5 (Surr)	92		26 - 120	05/02/23 09:25	05/04/23 17:28	1
Phenol-d5 (Surr)	39		11 - 120	05/02/23 09:25	05/04/23 17:28	1
p-Terphenyl-d14	99		64 - 127	05/02/23 09:25	05/04/23 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.81	0.11	ug/L		05/02/23 12:33	05/04/23 18:16	1
1,2-Dichlorobenzene	ND		0.81	0.077	ug/L		05/02/23 12:33	05/04/23 18:16	1
1,3-Dichlorobenzene	ND		0.81	0.080	ug/L		05/02/23 12:33	05/04/23 18:16	1
1,4-Dichlorobenzene	ND		0.81	0.049	ug/L		05/02/23 12:33	05/04/23 18:16	1
1-Methylnaphthalene	ND		0.15	0.045	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,3,4,6-Tetrachlorophenol	ND		0.81	0.26	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,3,5,6-Tetrachlorophenol	ND		0.81	0.41	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,4,5-Trichlorophenol	ND		0.81	0.20	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,4,6-Trichlorophenol	ND		0.81	0.18	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,4-Dichlorophenol	ND		0.15	0.041	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,4-Dimethylphenol	ND		0.81	0.13	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,4-Dinitrophenol	ND		8.1	1.2	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,4-Dinitrotoluene	ND		0.81	0.28	ug/L		05/02/23 12:33	05/04/23 18:16	1
2,6-Dinitrotoluene	ND		0.81	0.14	ug/L		05/02/23 12:33	05/04/23 18:16	1
2-Chloronaphthalene	ND		0.15	0.048	ug/L		05/02/23 12:33	05/04/23 18:16	1

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Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-4

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-4

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

Lab Sample ID: 180-155743-5

Date Collected: 04/26/23 16:15

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		24 - 146				05/02/23 09:25	05/04/23 17:55	1
2-Fluorobiphenyl	99		37 - 120				05/02/23 09:25	05/04/23 17:55	1
2-Fluorophenol (Surr)	49		10 - 120				05/02/23 09:25	05/04/23 17:55	1
Nitrobenzene-d5 (Surr)	79		26 - 120				05/02/23 09:25	05/04/23 17:55	1
Phenol-d5 (Surr)	33		11 - 120				05/02/23 09:25	05/04/23 17:55	1
p-Terphenyl-d14	97		64 - 127				05/02/23 09:25	05/04/23 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.83	0.11	ug/L		05/02/23 12:33	05/04/23 18:38	1
1,2-Dichlorobenzene	ND		0.83	0.079	ug/L		05/02/23 12:33	05/04/23 18:38	1
1,3-Dichlorobenzene	ND		0.83	0.083	ug/L		05/02/23 12:33	05/04/23 18:38	1
1,4-Dichlorobenzene	ND		0.83	0.051	ug/L		05/02/23 12:33	05/04/23 18:38	1
1-Methylnaphthalene	ND		0.16	0.047	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,3,4,6-Tetrachlorophenol	ND		0.83	0.27	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,3,5,6-Tetrachlorophenol	ND		0.83	0.42	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,4,5-Trichlorophenol	ND		0.83	0.21	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,4,6-Trichlorophenol	ND		0.83	0.19	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,4-Dichlorophenol	ND		0.16	0.043	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,4-Dimethylphenol	ND		0.83	0.14	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,4-Dinitrophenol	ND		8.3	1.3	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,4-Dinitrotoluene	ND		0.83	0.29	ug/L		05/02/23 12:33	05/04/23 18:38	1
2,6-Dinitrotoluene	ND		0.83	0.14	ug/L		05/02/23 12:33	05/04/23 18:38	1
2-Chloronaphthalene	ND		0.16	0.049	ug/L		05/02/23 12:33	05/04/23 18:38	1
2-Chlorophenol	ND		0.83	0.11	ug/L		05/02/23 12:33	05/04/23 18:38	1
2-Methylnaphthalene	ND		0.16	0.052	ug/L		05/02/23 12:33	05/04/23 18:38	1
2-Methylphenol	ND		0.83	0.25	ug/L		05/02/23 12:33	05/04/23 18:38	1
2-Nitroaniline	ND		4.2	0.46	ug/L		05/02/23 12:33	05/04/23 18:38	1
2-Nitrophenol	ND		0.83	0.16	ug/L		05/02/23 12:33	05/04/23 18:38	1
3,3'-Dichlorobenzidine	ND		0.83	0.49	ug/L		05/02/23 12:33	05/04/23 18:38	1
3-Nitroaniline	ND		4.2	0.36	ug/L		05/02/23 12:33	05/04/23 18:38	1

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Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-5

Date Collected: 04/26/23 16:15

Matrix: Water

Date Received: 04/28/23 09:10

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

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		23 - 128	05/02/23 12:33	05/04/23 18:38	1
2-Fluorobiphenyl	103		20 - 105	05/02/23 12:33	05/04/23 18:38	1
2-Fluorophenol (Surr)	91		20 - 105	05/02/23 12:33	05/04/23 18:38	1

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Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-5

Date Collected: 04/26/23 16:15

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

Lab Sample ID: 180-155743-6

Date Collected: 04/26/23 11:25

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/01/23 15:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 15:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 15:31	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 15:31	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 15:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 15:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 15:31	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 15:31	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 15:31	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 15:31	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 15:31	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 15:31	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 15:31	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 15:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 15:31	1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.35	ug/L		05/02/23 09:25	05/04/23 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		24 - 146	05/02/23 09:25	05/04/23 18:23	1
2-Fluorobiphenyl	99		37 - 120	05/02/23 09:25	05/04/23 18:23	1
2-Fluorophenol (Surr)	49		10 - 120	05/02/23 09:25	05/04/23 18:23	1
Nitrobenzene-d5 (Surr)	79		26 - 120	05/02/23 09:25	05/04/23 18:23	1
Phenol-d5 (Surr)	34		11 - 120	05/02/23 09:25	05/04/23 18:23	1
p-Terphenyl-d14	104		64 - 127	05/02/23 09:25	05/04/23 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.93	0.12	ug/L		05/02/23 12:33	05/04/23 19:00	1
1,2-Dichlorobenzene	ND		0.93	0.088	ug/L		05/02/23 12:33	05/04/23 19:00	1
1,3-Dichlorobenzene	ND		0.93	0.092	ug/L		05/02/23 12:33	05/04/23 19:00	1
1,4-Dichlorobenzene	ND		0.93	0.056	ug/L		05/02/23 12:33	05/04/23 19:00	1

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Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-6

Date Collected: 04/26/23 11:25

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-6

Date Collected: 04/26/23 11:25

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

Lab Sample ID: 180-155743-7

Date Collected: 04/26/23 15:15

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/01/23 15:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 15:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 15:54	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 15:54	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 15:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 15:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 15:54	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 15:54	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 15:54	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 15:54	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 15:54	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 15:54	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 15:54	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 15:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					05/01/23 15:54	1
4-Bromofluorobenzene (Surr)	96		73 - 120					05/01/23 15:54	1
Dibromofluoromethane (Surr)	101		75 - 123					05/01/23 15:54	1
Toluene-d8 (Surr)	99		80 - 120					05/01/23 15:54	1

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Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-7

Date Collected: 04/26/23 15:15

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.1	0.36	ug/L		05/02/23 09:25	05/04/23 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		24 - 146				05/02/23 09:25	05/04/23 18:51	1
2-Fluorobiphenyl	96		37 - 120				05/02/23 09:25	05/04/23 18:51	1
2-Fluorophenol (Surr)	51		10 - 120				05/02/23 09:25	05/04/23 18:51	1
Nitrobenzene-d5 (Surr)	78		26 - 120				05/02/23 09:25	05/04/23 18:51	1
Phenol-d5 (Surr)	35		11 - 120				05/02/23 09:25	05/04/23 18:51	1
p-Terphenyl-d14	101		64 - 127				05/02/23 09:25	05/04/23 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.86	0.11	ug/L		05/02/23 12:33	05/04/23 19:22	1
1,2-Dichlorobenzene	ND		0.86	0.082	ug/L		05/02/23 12:33	05/04/23 19:22	1
1,3-Dichlorobenzene	ND		0.86	0.085	ug/L		05/02/23 12:33	05/04/23 19:22	1
1,4-Dichlorobenzene	ND		0.86	0.053	ug/L		05/02/23 12:33	05/04/23 19:22	1
1-Methylnaphthalene	ND		0.16	0.048	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,3,4,6-Tetrachlorophenol	ND		0.86	0.28	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,3,5,6-Tetrachlorophenol	ND		0.86	0.44	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,4,5-Trichlorophenol	ND		0.86	0.22	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,4,6-Trichlorophenol	ND		0.86	0.19	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,4-Dichlorophenol	ND		0.16	0.044	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,4-Dimethylphenol	ND		0.86	0.14	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,4-Dinitrophenol	ND		8.6	1.3	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,4-Dinitrotoluene	ND		0.86	0.30	ug/L		05/02/23 12:33	05/04/23 19:22	1
2,6-Dinitrotoluene	ND		0.86	0.15	ug/L		05/02/23 12:33	05/04/23 19:22	1
2-Chloronaphthalene	ND		0.16	0.051	ug/L		05/02/23 12:33	05/04/23 19:22	1
2-Chlorophenol	ND		0.86	0.11	ug/L		05/02/23 12:33	05/04/23 19:22	1
2-Methylnaphthalene	ND		0.16	0.053	ug/L		05/02/23 12:33	05/04/23 19:22	1
2-Methylphenol	ND		0.86	0.26	ug/L		05/02/23 12:33	05/04/23 19:22	1
2-Nitroaniline	ND		4.3	0.47	ug/L		05/02/23 12:33	05/04/23 19:22	1
2-Nitrophenol	ND		0.86	0.17	ug/L		05/02/23 12:33	05/04/23 19:22	1
3,3'-Dichlorobenzidine	ND		0.86	0.50	ug/L		05/02/23 12:33	05/04/23 19:22	1
3-Nitroaniline	ND		4.3	0.38	ug/L		05/02/23 12:33	05/04/23 19:22	1
4,6-Dinitro-2-methylphenol	ND		4.3	1.3	ug/L		05/02/23 12:33	05/04/23 19:22	1
4-Bromophenyl phenyl ether	ND		0.86	0.28	ug/L		05/02/23 12:33	05/04/23 19:22	1
4-Chloro-3-methylphenol	ND		0.86	0.24	ug/L		05/02/23 12:33	05/04/23 19:22	1
4-Chloroaniline	ND		0.86	0.32	ug/L		05/02/23 12:33	05/04/23 19:22	1
4-Chlorophenyl phenyl ether	ND		0.86	0.19	ug/L		05/02/23 12:33	05/04/23 19:22	1
4-Nitroaniline	ND		4.3	0.31	ug/L		05/02/23 12:33	05/04/23 19:22	1
4-Nitrophenol	ND		4.3	0.81	ug/L		05/02/23 12:33	05/04/23 19:22	1
Acenaphthene	ND		0.16	0.056	ug/L		05/02/23 12:33	05/04/23 19:22	1
Acenaphthylene	ND		0.16	0.056	ug/L		05/02/23 12:33	05/04/23 19:22	1
Anthracene	ND		0.16	0.042	ug/L		05/02/23 12:33	05/04/23 19:22	1
Benzo[a]anthracene	ND		0.16	0.065	ug/L		05/02/23 12:33	05/04/23 19:22	1
Benzo[a]pyrene	ND		0.16	0.046	ug/L		05/02/23 12:33	05/04/23 19:22	1
Benzo[b]fluoranthene	ND		0.16	0.084	ug/L		05/02/23 12:33	05/04/23 19:22	1
Benzo[g,h,i]perylene	ND		0.16	0.059	ug/L		05/02/23 12:33	05/04/23 19:22	1
Benzo[k]fluoranthene	ND		0.16	0.076	ug/L		05/02/23 12:33	05/04/23 19:22	1
Benzoic acid	2.7	J	4.3	0.80	ug/L		05/02/23 12:33	05/04/23 19:22	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-7

Date Collected: 04/26/23 15:15

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

Client Sample ID: SUPE-EB-01-042623

Lab Sample ID: 180-155743-8

Date Collected: 04/26/23 15:40

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/01/23 16:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 16:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 16:16	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 16:16	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 16:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 16:16	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 16:16	1

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Client Sample Results

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

Job ID: 180-155743-1

Client Sample ID: SUPE-EB-01-042623

Lab Sample ID: 180-155743-8

Date Collected: 04/26/23 15:40

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		24 - 146	05/02/23 09:25	05/04/23 19:19	1
2-Fluorobiphenyl	111		37 - 120	05/02/23 09:25	05/04/23 19:19	1
2-Fluorophenol (Surr)	57		10 - 120	05/02/23 09:25	05/04/23 19:19	1
Nitrobenzene-d5 (Surr)	91		26 - 120	05/02/23 09:25	05/04/23 19:19	1
Phenol-d5 (Surr)	38		11 - 120	05/02/23 09:25	05/04/23 19:19	1
p-Terphenyl-d14	120		64 - 127	05/02/23 09:25	05/04/23 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.81	0.11	ug/L		05/02/23 12:33	05/04/23 19:43	1
1,2-Dichlorobenzene	ND		0.81	0.077	ug/L		05/02/23 12:33	05/04/23 19:43	1
1,3-Dichlorobenzene	ND		0.81	0.080	ug/L		05/02/23 12:33	05/04/23 19:43	1
1,4-Dichlorobenzene	ND		0.81	0.049	ug/L		05/02/23 12:33	05/04/23 19:43	1
1-Methylnaphthalene	ND		0.15	0.045	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,3,4,6-Tetrachlorophenol	ND		0.81	0.26	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,3,5,6-Tetrachlorophenol	ND		0.81	0.41	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,4,5-Trichlorophenol	ND		0.81	0.20	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,4,6-Trichlorophenol	ND		0.81	0.18	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,4-Dichlorophenol	ND		0.15	0.041	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,4-Dimethylphenol	ND		0.81	0.13	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,4-Dinitrophenol	ND		8.1	1.2	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,4-Dinitrotoluene	ND		0.81	0.28	ug/L		05/02/23 12:33	05/04/23 19:43	1
2,6-Dinitrotoluene	ND		0.81	0.14	ug/L		05/02/23 12:33	05/04/23 19:43	1
2-Chloronaphthalene	ND		0.15	0.048	ug/L		05/02/23 12:33	05/04/23 19:43	1
2-Chlorophenol	ND		0.81	0.10	ug/L		05/02/23 12:33	05/04/23 19:43	1
2-Methylnaphthalene	ND		0.15	0.050	ug/L		05/02/23 12:33	05/04/23 19:43	1
2-Methylphenol	ND		0.81	0.24	ug/L		05/02/23 12:33	05/04/23 19:43	1
2-Nitroaniline	ND		4.0	0.44	ug/L		05/02/23 12:33	05/04/23 19:43	1
2-Nitrophenol	ND		0.81	0.16	ug/L		05/02/23 12:33	05/04/23 19:43	1
3,3'-Dichlorobenzidine	ND		0.81	0.47	ug/L		05/02/23 12:33	05/04/23 19:43	1

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Client Sample Results

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

Job ID: 180-155743-1

Client Sample ID: SUPE-EB-01-042623

Lab Sample ID: 180-155743-8

Date Collected: 04/26/23 15:40

Matrix: Water

Date Received: 04/28/23 09:10

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

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		23 - 128	05/02/23 12:33	05/04/23 19:43	1
2-Fluorobiphenyl	48		20 - 105	05/02/23 12:33	05/04/23 19:43	1
2-Fluorophenol (Surr)	57		20 - 105	05/02/23 12:33	05/04/23 19:43	1

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Client Sample Results

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

Job ID: 180-155743-1

Client Sample ID: SUPE-EB-01-042623

Lab Sample ID: 180-155743-8

Date Collected: 04/26/23 15:40

Matrix: Water

Date Received: 04/28/23 09:10

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

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

- 1
- 2
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QC Sample Results

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

Job ID: 180-155743-1

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

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

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/01/23 13:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 13:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 13:40	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 13:40	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 13:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 13:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 13:40	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 13:40	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 13:40	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 13:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 13:40	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 13:40	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 13:40	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 13:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 13:40	1

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

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

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

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

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

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QC Sample Results

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

Job ID: 180-155743-1

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

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

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

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

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

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

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

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

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

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

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

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

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

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QC Sample Results

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

Job ID: 180-155743-1

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

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

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

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

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

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

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

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

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QC Sample Results

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

Job ID: 180-155743-1

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

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

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

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

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

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

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

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

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QC Sample Results

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

Job ID: 180-155743-1

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

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

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

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

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QC Sample Results

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

Job ID: 180-155743-1

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

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

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

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

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

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

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

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

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QC Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-1 MS

Matrix: Water

Analysis Batch: 434215

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

Prep Type: Total/NA

Prep Batch: 434029

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

Eurofins Pittsburgh

QC Sample Results

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

Job ID: 180-155743-1

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

Lab Sample ID: 180-155743-1 MS

Matrix: Water

Analysis Batch: 434215

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

Prep Type: Total/NA

Prep Batch: 434029

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

QC Association Summary

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

Job ID: 180-155743-1

GC/MS VOA

Analysis Batch: 667627

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

GC/MS Semi VOA

Prep Batch: 434029

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

Analysis Batch: 434215

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

Prep Batch: 667743

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

Eurofins Pittsburgh

QC Association Summary

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

Job ID: 180-155743-1

GC/MS Semi VOA (Continued)

Prep Batch: 667743 (Continued)

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

Analysis Batch: 668191

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





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF # 502071



Project Name: Superior, WI - 2023 OM&M Program
 Project Number: OM-0556-23
 Laboratory: TACHI
 Shipment Method: FEDEX
 Program: Superior 2023 1SA Sampling_001

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

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

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



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





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502073



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TAKNOX
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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



Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502078



Project Name: Superior, WI - 2023 OM&M Program
 Project Number: OM-0556-23
 Laboratory: TACHI
 Shipment Method: FEDEX
 Program: Superior 2023 1SA Sampling_001

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

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

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

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



Ref 210211

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502080



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TAKNOX
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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



Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502072



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TABUF
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502079



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TABUF
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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



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

RT 198
FZ 197

04.26

1803/CAFE3.21

SUPERIOR, WI 54880
UNITED STATES US

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

PITTSBURGH PA 152382907

(412) 963-7068

REF:

INVT:

DEPT:

RMA

Uncorrected temp

Thermometer ID 33 17

CF 0 Initials JD

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

FedEx
Express

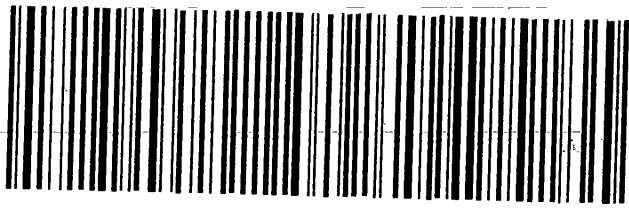


FedEx
TRK# 0221 6426 1927 2002

FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



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



N.O CHAIN

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

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

Part # 5496224 ARW/ESR30124

SUPERIOR, WI 54880
UNITED STATES US

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

PITTSBURGH PA 152382907

(412) 963-7058

REF:

PO:

DEPT:

RM Uncorrected temp
Thermometer ID 3.17

CF 0 Initials JD

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

FedEx
Express



AN 1890902020227

FedEx

TRK# 0221 6426 1927 2013

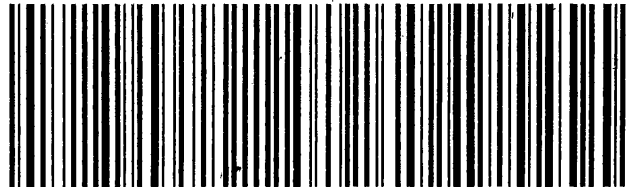
FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US

PI



W5115555 04/27 583J3/78CF/FE2D

15238-4630 PA22 EXP 08/22

ORIGIN ID: AGCA (412) 591-0409
SHIP DATE: 15 APR 23
SHIP DATE: 15 APR 23
STEVEN WILLIS
KOPPERS INC RAILROAD PRODUCTS & SER
3165 SOUTH COUNTRY ROAD A

ACTWGT: 30.00 LB MAN
CAD: 0551803/CAFE3621

POSTRIOR, WI 54880
UNITED STATES US

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

PITTSBURGH PA 152382907

(412) 963-7058

REF:

INV:

PO:

DEPT:

RMA: III III III

Uncorrected temp

Thermometer ID 38

17

CF 0

Initials JD

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

FedEx
Express



Alt. ID: 00002208272R
In: 1090902020022R

FedEx

TRK#
0221

6426 1927 1999

FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US

PI



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

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

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	
2. Were ambient air containers received intact?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Yes <input type="checkbox"/> NA	Custody Seals Intact Received at RT: 0.7 / CT: 0.5°C RT: 0.3 / CT: 0.1°C RT: 0.4 / CT: 0.2°C
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID : <u>SC75</u> Correction factor: <u>-0.2°C</u>	<input checked="" type="checkbox"/>			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	OH 5/21/23 3 Coolers Fra 6426 1927 7107 W PD
5. Were all of the sample containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC? ^{OH} 5/21/23	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/> Sampler Not Listed on COC	pH test strip lot number: _____
11. Is the client and project name/# identified?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____
17. Were VOA samples received without headspace?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____			<input checked="" type="checkbox"/>		
19. For 1613B water samples is pH<9?			<input checked="" type="checkbox"/>	<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Project missing info	
Project #: <u>180159116</u> PM Instructions: _____					

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

QA026R32.doc, 062719



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-485917.1					
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com	Page: Page 1 of 1					
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin	Job #: 180-155743-1					
Address: 5815 Middlebrook Pike, City: Knoxville		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 8290A/8290_P_Sep 17 Isomers + Totals <input checked="" type="checkbox"/> Total Number of Containers <input checked="" type="checkbox"/>	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)					
State, Zip: TN, 37921								
Phone: 865-291-3000(Tel) 865-584-4315(Fax)								
Email: WO #:								
Project Name: Superior, WI Semiannual Groundwater		Project #: 18015916	Special Instructions/Note: Refer to PT-PM-WI-006 for Wisconsin Protocol Refer to PT-PM-WI-006 for Wisconsin Protocol Refer to PT-PM-WI-006 for Wisconsin Protocol Refer to PT-PM-WI-006 for Wisconsin Protocol Refer to PT-PM-WI-006 for Wisconsin Protocol Refer to PT-PM-WI-006 for Wisconsin Protocol Refer to PT-PM-WI-006 for Wisconsin Protocol					
Site: SOW#:		SOW#:						
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Wastewater, Tissue, ASAL)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8290A/8290_P_Sep 17 Isomers + Totals
SUPE-W-99A-042623 (180-155743-1)	4/26/23	08:30 Central	Water	Water		X	X	
SUPE-W-28C-042623 (180-155743-2)	4/26/23	10:38 Central	Water	Water		X	X	
SUPE-W-06C-042623 (180-155743-3)	4/26/23	12:35 Central	Water	Water		X	X	
SUPE-W-30C-042623 (180-155743-4)	4/26/23	14:42 Central	Water	Water		X	X	
SUPE-W-06A-042623 (180-155743-6)	4/26/23	11:25 Central	Water	Water		X	X	
SUPE-W-12CR-042623 (180-155743-7)	4/26/23	15:15 Central	Water	Water		X	X	
SUPE-EB-01-042623 (180-155743-8)	4/26/23	15:40 Central	Water	Water		X	X	

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

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

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: 5/1/23
 Relinquished by: _____ Date: 17:00
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____

Custody Seals Intact: Yes No
 Custody Seal No.: _____

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

Special Instructions/QC Requirements:
 Received by: *Dawn Hick* Date/Time: 5/1/23 9:45
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Cooler Temperature(s) °C and °F: _____

Company: *ETA KUX*
 Company: _____
 Company: _____

180-155743 Chain of Custody
 Date: 06/08/2021



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

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

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

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Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-155743-1

Login Number: 155743

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

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



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-155743-1

Login Number: 155743

List Number: 2

Creator: Kolb, Chris M

List Source: Eurofins Buffalo

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

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6 2.8 2.1 3.0 1.9 1.7 ir gun #1 ice
COC is present.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



FTS, LLC

DATE: June 9, 2023

FROM: Emily Vargo

SUBJECT: Superior Groundwater

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

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

ANALYSES: Method 8290A (Dioxins and Furans)

LABORATORY: Eurofins Laboratories, Knoxville

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

- Data Completeness
Noncompliance: None
- Holding Times
Noncompliance: None
- Laboratory Blank Contamination
Noncompliance: Total TCDD (0.171 JI pg/L) was detected below the QL in the method blank and results in samples W-30C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,7,8-PeCDD (0.661 J pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-06A, and W-12CR were qualified not detected at the QL. Total PeCDD (0.661 J pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,4,7,8-HxCDD (1.55 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,6,7,8-HxCDD (0.362 J pg/L) was detected below the QL in the method blank and results in samples W-06C, W-30C, and W-06A were qualified not detected at the QL. Total HxCDD (2.36 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,4,6,7,8-HpCDD (2 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, and W-06A were qualified not detected at the QL. Total HpCDD (2 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. OCDD (3.23 J pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, and W-12CR were qualified not detected at the QL. 2,3,7,8-TCDF (0.255 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06A and W-12CR were qualified not detected at the QL. Total TCDF (3.72 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-06A, and W-12CR were qualified not detected at the QL. The TCDF result in sample W-30C was qualified "J+". 1,2,3,7,8-PeCDF (0.92 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, and W-12CR were qualified not detected at the QL. 2,3,4,7,8-PeCDF (1.13 J pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, and W-06A were qualified not detected at the QL. Total PeCDF (3.32 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C,

W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,4,6,7,8-HpCDF (0.866 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. 1,2,3,4,7,8,9-HpCDF (0.635 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. Total HpCDF (1.96 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL. OCDF (1.5 JI pg/L) was detected below the QL in the method blank and results in samples W-99A, W-28C, W-06C, W-30C, W-06A, and W-12CR were qualified not detected at the QL.

□ Field Blank Contamination

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

□ Field Duplicate Precision

Noncompliance: See attached page for details.

□ Surrogate Recoveries

Noncompliance: None

□ Laboratory Control Sample

Noncompliance: None

Field Duplicate Precision:

FIELD DUPLICATE PRECISION					
ANALYTE	W-28C	QUAL	W-99A	QUAL	RPD
1,2,3,4,6,7,8-HpCDD	4.8	JI	3.3	J	37.04*
1,2,3,4,6,7,8-HpCDF	4.8	JI	4.3	J	10.99
1,2,3,4,7,8,9-HpCDF	0.57	JI	0.69	J	19.05
1,2,3,4,7,8-HxCDD	1.4	J	1.4	JI	0.00
1,2,3,4,7,8-HxCDF	1.9	J	1.4	J	30.30*
1,2,3,6,7,8-HxCDF	1.1	J	1.1	JI	0.00
1,2,3,7,8,9-HxCDD	0.54	J	0.63	JI	15.38
1,2,3,7,8-PeCDD	0.7	JI	0.61	J	13.74
1,2,3,7,8-PeCDF	1.2	JI	0.87	J	31.88*
2,3,4,7,8-PeCDF	0.96	J	0.18	JI	136.84*
2,3,7,8-TCDF	0.45	JI	0.4	JI	11.76
OCDD	29	J	22	J	27.45
OCDF	11	J	10	J	9.52
Total HpCDD	17	JI	13	J	26.67
Total HpCDF	6.6	JI	5.9	JI	11.20
Total HxCDD	3.5	JI	2.4	JI	37.29*
Total HxCDF	4.6	JI	3.4	JI	30.00
Total PeCDD	0.7	JI	0.61	J	13.74
Total PeCDF	2.1	JI	2	JI	4.88
Total TCDF	1.6	JI	1.4	JI	13.33

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

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

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

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

JOB DESCRIPTION

Superior, WI Semiannual Groundwater

JOB NUMBER

180-155743-2

Eurofins Pittsburgh

Job Notes

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

PA Lab ID: 02-00416

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

Authorization



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6/8/2023 12:13:18 PM

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



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Case Narrative

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

Job ID: 180-155743-2

Job ID: 180-155743-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative
180-155743-2

Comments

No additional comments.

Receipt

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

Receipt Exceptions

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

Dioxin

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

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

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

Organic Prep

Methods 1668_Sep_2L, 3540C, 8290, Combined Prep, HRMS-Sepf, HRMS-Sox, HRMS-waste, Split: The following samples were through Gel-Permeation Cleanup procedure, based on EPA method 3640A: SUPE-W-99A-042623 (180-155743-1), SUPE-W-28C-042623 (180-155743-2), SUPE-W-06C-042623 (180-155743-3), SUPE-W-30C-042623 (180-155743-4), SUPE-W-06A-042623 (180-155743-6), SUPE-W-12CR-042623 (180-155743-7) and SUPE-EB-01-042623 (180-155743-8)

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

Definitions/Glossary

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

Job ID: 180-155743-2

Qualifiers

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

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

Job ID: 180-155743-2

Laboratory: Eurofins Knoxville

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

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

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

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

Sample Summary

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

Job ID: 180-155743-2

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

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

Method Summary

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

Job ID: 180-155743-2

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

Protocol References:

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

Laboratory References:

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



Lab Chronicle

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

Job ID: 180-155743-2

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

Lab Sample ID: 180-155743-1

Date Collected: 04/26/23 08:30

Matrix: Water

Date Received: 04/28/23 09:10

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

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

Lab Sample ID: 180-155743-2

Date Collected: 04/26/23 10:38

Matrix: Water

Date Received: 04/28/23 09:10

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

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

Lab Sample ID: 180-155743-3

Date Collected: 04/26/23 12:35

Matrix: Water

Date Received: 04/28/23 09:10

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

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

Lab Sample ID: 180-155743-4

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

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

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

Lab Sample ID: 180-155743-6

Date Collected: 04/26/23 11:25

Matrix: Water

Date Received: 04/28/23 09:10

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

Lab Chronicle

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

Job ID: 180-155743-2

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

Lab Sample ID: 180-155743-7

Date Collected: 04/26/23 15:15

Matrix: Water

Date Received: 04/28/23 09:10

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

Instrument ID: D4A

Client Sample ID: SUPE-EB-01-042623

Lab Sample ID: 180-155743-8

Date Collected: 04/26/23 15:40

Matrix: Water

Date Received: 04/28/23 09:10

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

Instrument ID: D4A

Laboratory References:

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

Analyst References:

Lab: EET KNX

Batch Type: Prep

DAC = Drew Costanzo

Batch Type: Analysis

BKK = Benjamin Knight

Client Sample Results

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

Job ID: 180-155743-2

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

Lab Sample ID: 180-155743-1

Date Collected: 04/26/23 08:30

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

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

Lab Sample ID: 180-155743-2

Date Collected: 04/26/23 10:38

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155743-2

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

Lab Sample ID: 180-155743-2

Date Collected: 04/26/23 10:38

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

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

Lab Sample ID: 180-155743-3

Date Collected: 04/26/23 12:35

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155743-2

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

Lab Sample ID: 180-155743-3

Date Collected: 04/26/23 12:35

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDD	0.43	J I B	48	0.27	pg/L		05/18/23 08:49	06/07/23 14:22	1
Total PeCDD	0.43	J I B	48	0.27	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,4,7,8-HxCDD	1.3	J I B	48	0.16	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,6,7,8-HxCDD	0.92	J I B	48	0.15	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,7,8,9-HxCDD	ND		48	0.15	pg/L		05/18/23 08:49	06/07/23 14:22	1
Total HxCDD	6.0	J I B	48	0.15	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,4,6,7,8-HpCDD	8.3	J B	48	0.98	pg/L		05/18/23 08:49	06/07/23 14:22	1
Total HpCDD	42	J B	48	0.98	pg/L		05/18/23 08:49	06/07/23 14:22	1
OCDD	85	J B	97	0.32	pg/L		05/18/23 08:49	06/07/23 14:22	1
2,3,7,8-TCDF	ND		9.7	0.13	pg/L		05/18/23 08:49	06/07/23 14:22	1
Total TCDF	1.0	J I B	9.7	0.13	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,7,8-PeCDF	1.1	J B	48	0.24	pg/L		05/18/23 08:49	06/07/23 14:22	1
2,3,4,7,8-PeCDF	0.77	J I B	48	0.22	pg/L		05/18/23 08:49	06/07/23 14:22	1
Total PeCDF	2.4	J I B	48	0.23	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,4,7,8-HxCDF	ND		48	0.31	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,6,7,8-HxCDF	1.1	J I	48	0.33	pg/L		05/18/23 08:49	06/07/23 14:22	1
2,3,4,6,7,8-HxCDF	0.96	J I	48	0.33	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,7,8,9-HxCDF	ND		48	0.42	pg/L		05/18/23 08:49	06/07/23 14:22	1
Total HxCDF	3.8	J I	48	0.35	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,4,6,7,8-HpCDF	1.4	J I B	48	0.16	pg/L		05/18/23 08:49	06/07/23 14:22	1
1,2,3,4,7,8,9-HpCDF	ND		48	0.22	pg/L		05/18/23 08:49	06/07/23 14:22	1
Total HpCDF	3.7	J I B	48	0.19	pg/L		05/18/23 08:49	06/07/23 14:22	1
OCDF	4.2	J B	97	0.32	pg/L		05/18/23 08:49	06/07/23 14:22	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	55		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,7,8-PeCDD	51		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,4,7,8-HxCDD	53		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,6,7,8-HxCDD	62		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,4,6,7,8-HpCDD	61		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-OCDD	62		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-2,3,7,8-TCDF	57		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,7,8-PeCDF	53		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-2,3,4,7,8-PeCDF	54		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,4,7,8-HxCDF	62		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,6,7,8-HxCDF	58		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-2,3,4,6,7,8-HxCDF	61		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,7,8,9-HxCDF	59		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,4,6,7,8-HpCDF	65		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-1,2,3,4,7,8,9-HpCDF	60		40 - 135				05/18/23 08:49	06/07/23 14:22	1
13C-OCDF	48		40 - 135				05/18/23 08:49	06/07/23 14:22	1

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

Lab Sample ID: 180-155743-4

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155743-2

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

Lab Sample ID: 180-155743-4

Date Collected: 04/26/23 14:42

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

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

Lab Sample ID: 180-155743-6

Date Collected: 04/26/23 11:25

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155743-2

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

Lab Sample ID: 180-155743-6

Date Collected: 04/26/23 11:25

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

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

Lab Sample ID: 180-155743-7

Date Collected: 04/26/23 15:15

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155743-2

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

Lab Sample ID: 180-155743-7

Date Collected: 04/26/23 15:15

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

Client Sample ID: SUPE-EB-01-042623

Lab Sample ID: 180-155743-8

Date Collected: 04/26/23 15:40

Matrix: Water

Date Received: 04/28/23 09:10

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

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

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-155743-2

Client Sample ID: SUPE-EB-01-042623

Lab Sample ID: 180-155743-8

Date Collected: 04/26/23 15:40

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

QC Sample Results

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

Job ID: 180-155743-2

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

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

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

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

QC Sample Results

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

Job ID: 180-155743-2

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

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

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

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

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

QC Association Summary

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

Job ID: 180-155743-2

Specialty Organics

Prep Batch: 73375

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

Analysis Batch: 74037

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

Analysis Batch: 74060

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



Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF # 502071



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TACHI
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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



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





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502073



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TAKNOX
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502078



Project Name: Superior, WI - 2023 OM&M Program
 Project Number: OM-0556-23
 Laboratory: TACHI
 Shipment Method: FEDEX
 Program: Superior 2023 1SA Sampling_001

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

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

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

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



Ref 210211

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502080



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TAKNOX
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502072



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TABUF
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502079



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TABUF
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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



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

RT 198
FZ 197

04.26

1803/CAFE3.21

SUPERIOR, WI 54880
UNITED STATES US

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

PITTSBURGH PA 152382907

(412) 963-7068

REF:

IND:

DEPT:

RMA

Uncorrected temp

Thermometer ID 33 17

CF 0 Initials JD

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

FedEx
Express



FedEx
TRK# 0221 6426 1927 2002

FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



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



N.O CHAIN

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

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

Part # 5496234 ARW/ESR30124

SUPERIOR, WI 54880
UNITED STATES US

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

PITTSBURGH PA 152382907

(412) 963-7058

REF:

PO:

DEPT:

RM Uncorrected temp
Thermometer ID 3.1

CF 0 Initials JD

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

FedEx
Express



AN 11890902020227

FedEx

TRK# 0221 6426 1927 2013

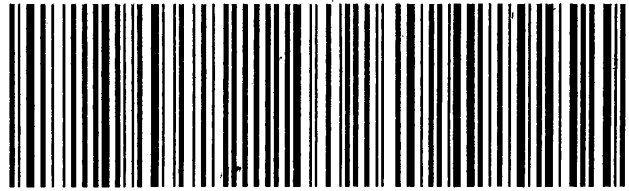
FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US

PI



W5115555 04/27 583J3/78CF/FE2D

15238-4011-PA2 EXP 08/22

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

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

POSTRIOR, WI 54880
UNITED STATES US

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

PITTSBURGH PA 152382907

(412) 963-7058

REF:

INV:

PO:

DEPT:

RMA: 

Uncorrected temp

Thermometer ID 38

17

CF 0

Initials JD

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

FedEx
Express



Alt. Item # 02210220227
In. 1090902020227

FedEx

TRK#

0221

6426 1927 1999

FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US

PI



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

Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-155743-2

Login Number: 155743

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

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

FTS, LLC

DATE: May 22, 2023

FROM: Kendra Chintella

SUBJECT: Superior Groundwater

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

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

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

LABORATORY: Eurofins Laboratories, Buffalo, Pittsburgh

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

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

Field Duplicate Precision:

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

NC – not calculated due to nondetect result

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

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

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

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

JOB DESCRIPTION

Superior, WI Semiannual Groundwater

JOB NUMBER

180-155744-1

Eurofins Pittsburgh

Job Notes

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

PA Lab ID: 02-00416

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

Authorization



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



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Case Narrative

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

Job ID: 180-155744-1

Job ID: 180-155744-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-155744-1

Receipt

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

GC/MS VOA

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

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

GC/MS Semi VOA

Method 8270E_LL: The continuing calibration verification (CCV) associated with batch 180-434343 recovered above the upper control limit for 2,3,5,6-Tetrachlorophenol, Bis(2-chloroethoxy)methane and Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 180-434343/3).

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

Method 8270E_LL: The continuing calibration verification (CCV) associated with batch 180-434450 recovered above the upper control limit for 2,3,5,6-Tetrachlorophenol, 2-Nitroaniline and Bis(2-chloroethoxy)methane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 180-434450/3).

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

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

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

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

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

Definitions/Glossary

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

Job ID: 180-155744-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

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

Job ID: 180-155744-1

Laboratory: Eurofins Pittsburgh

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

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

Laboratory: Eurofins Buffalo

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

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

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

Sample Summary

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

Job ID: 180-155744-1

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

1

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Method Summary

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

Job ID: 180-155744-1

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

Protocol References:

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

Laboratory References:

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

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

Lab Chronicle

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-1

Date Collected: 04/27/23 08:55

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	667627	05/01/23 16:38	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			1050 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	668191	05/04/23 19:47	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			300 mL	250 uL	434154	05/03/23 14:11	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434343	05/05/23 19:00	VVP	EET PIT
Instrument ID: CH71										

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

Lab Sample ID: 180-155744-2

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	667627	05/01/23 17:00	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			970 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 20:15	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			290 mL	250 uL	434154	05/03/23 14:11	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434343	05/05/23 19:22	VVP	EET PIT
Instrument ID: CH71										

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

Lab Sample ID: 180-155744-3

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	667627	05/01/23 17:22	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			970 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	668191	05/04/23 20:43	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			290 mL	250 uL	434154	05/03/23 14:11	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434450	05/06/23 19:42	VVP	EET PIT
Instrument ID: CH71										

Client Sample ID: SUPE-EB-02-042723

Lab Sample ID: 180-155744-4

Date Collected: 04/27/23 11:00

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	667627	05/01/23 17:45	CDC	EET BUF
Instrument ID: HP5977K										

Lab Chronicle

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

Job ID: 180-155744-1

Client Sample ID: SUPE-EB-02-042723

Lab Sample ID: 180-155744-4

Date Collected: 04/27/23 11:00

Matrix: Water

Date Received: 04/28/23 09:10

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

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

Lab Sample ID: 180-155744-5

Date Collected: 04/27/23 11:29

Matrix: Water

Date Received: 04/28/23 09:10

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

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

Lab Sample ID: 180-155744-6

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	667627	05/01/23 18:29	CDC	EET BUF
Instrument ID: HP5977K										
Total/NA	Prep	3510C			950 mL	1 mL	667743	05/02/23 09:25	JMP	EET BUF
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	668304	05/05/23 12:53	JMM	EET BUF
Instrument ID: HP5973W										
Total/NA	Prep	3520C			290 mL	250 uL	434154	05/03/23 14:11	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	434450	05/06/23 20:48	VVP	EET PIT
Instrument ID: CH71										
Total/NA	Prep	3520C	DL		290 mL	250 uL	434154	05/03/23 14:11	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL	DL	4	1 mL	1 mL	434715	05/10/23 09:51	VVP	EET PIT
Instrument ID: CH733										

Laboratory References:

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

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

Lab Chronicle

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

Job ID: 180-155744-1

Analyst References:

Lab: EET BUF

Batch Type: Prep

JMP = Jacob Pollock

Batch Type: Analysis

CDC = Charles Cwiklinski

JMM = Joseph Marshall

Lab: EET PIT

Batch Type: Prep

BJT = Bill Trout

Batch Type: Analysis

VVP = Vincent Piccolino

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Client Sample Results

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-1

Date Collected: 04/27/23 08:55

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/01/23 16:38	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 16:38	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 16:38	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 16:38	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 16:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 16:38	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 16:38	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 16:38	1
Naphthalene	0.72	J	1.0	0.43	ug/L			05/01/23 16:38	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 16:38	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 16:38	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 16:38	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 16:38	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 16:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120					05/01/23 16:38	1
4-Bromofluorobenzene (Surr)	94		73 - 120					05/01/23 16:38	1
Dibromofluoromethane (Surr)	98		75 - 123					05/01/23 16:38	1
Toluene-d8 (Surr)	100		80 - 120					05/01/23 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		4.8	1.6	ug/L		05/02/23 09:25	05/04/23 19:47	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		24 - 146				05/02/23 09:25	05/04/23 19:47	5
2-Fluorobiphenyl	91		37 - 120				05/02/23 09:25	05/04/23 19:47	5
2-Fluorophenol (Surr)	41		10 - 120				05/02/23 09:25	05/04/23 19:47	5
Nitrobenzene-d5 (Surr)	64		26 - 120				05/02/23 09:25	05/04/23 19:47	5
Phenol-d5 (Surr)	28		11 - 120				05/02/23 09:25	05/04/23 19:47	5
p-Terphenyl-d14	87		64 - 127				05/02/23 09:25	05/04/23 19:47	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.83	0.11	ug/L		05/03/23 14:11	05/05/23 19:00	1
1,2-Dichlorobenzene	ND		0.83	0.079	ug/L		05/03/23 14:11	05/05/23 19:00	1
1,3-Dichlorobenzene	ND		0.83	0.083	ug/L		05/03/23 14:11	05/05/23 19:00	1
1,4-Dichlorobenzene	ND		0.83	0.051	ug/L		05/03/23 14:11	05/05/23 19:00	1
1-Methylnaphthalene	0.059	J	0.16	0.047	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,3,4,6-Tetrachlorophenol	ND		0.83	0.27	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,3,5,6-Tetrachlorophenol	ND		0.83	0.42	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,4,5-Trichlorophenol	ND		0.83	0.21	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,4,6-Trichlorophenol	ND		0.83	0.19	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,4-Dichlorophenol	ND		0.16	0.043	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,4-Dimethylphenol	ND		0.83	0.14	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,4-Dinitrophenol	ND		8.3	1.3	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,4-Dinitrotoluene	ND		0.83	0.29	ug/L		05/03/23 14:11	05/05/23 19:00	1
2,6-Dinitrotoluene	ND		0.83	0.14	ug/L		05/03/23 14:11	05/05/23 19:00	1

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Client Sample Results

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-1

Date Collected: 04/27/23 08:55

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-1

Date Collected: 04/27/23 08:55

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

Lab Sample ID: 180-155744-2

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/01/23 17:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 17:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 17:00	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 17:00	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 17:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 17:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 17:00	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 17:00	1
Naphthalene	0.94	J	1.0	0.43	ug/L			05/01/23 17:00	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 17:00	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 17:00	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 17:00	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 17:00	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 17:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					05/01/23 17:00	1
4-Bromofluorobenzene (Surr)	93		73 - 120					05/01/23 17:00	1
Dibromofluoromethane (Surr)	98		75 - 123					05/01/23 17:00	1
Toluene-d8 (Surr)	99		80 - 120					05/01/23 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.35	ug/L		05/02/23 09:25	05/04/23 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	102		24 - 146				05/02/23 09:25	05/04/23 20:15	1
2-Fluorobiphenyl	104		37 - 120				05/02/23 09:25	05/04/23 20:15	1
2-Fluorophenol (Surr)	53		10 - 120				05/02/23 09:25	05/04/23 20:15	1
Nitrobenzene-d5 (Surr)	80		26 - 120				05/02/23 09:25	05/04/23 20:15	1
Phenol-d5 (Surr)	35		11 - 120				05/02/23 09:25	05/04/23 20:15	1
p-Terphenyl-d14	87		64 - 127				05/02/23 09:25	05/04/23 20:15	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-2

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-2

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

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

Lab Sample ID: 180-155744-3

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/01/23 17:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 17:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 17:22	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 17:22	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 17:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 17:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 17:22	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 17:22	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 17:22	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 17:22	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 17:22	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 17:22	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 17:22	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 17:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 17:22	1

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

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Client Sample Results

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-3

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.35	ug/L		05/02/23 09:25	05/04/23 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		24 - 146	05/02/23 09:25	05/04/23 20:43	1
2-Fluorobiphenyl	77		37 - 120	05/02/23 09:25	05/04/23 20:43	1
2-Fluorophenol (Surr)	39		10 - 120	05/02/23 09:25	05/04/23 20:43	1
Nitrobenzene-d5 (Surr)	57		26 - 120	05/02/23 09:25	05/04/23 20:43	1
Phenol-d5 (Surr)	28		11 - 120	05/02/23 09:25	05/04/23 20:43	1
p-Terphenyl-d14	85		64 - 127	05/02/23 09:25	05/04/23 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.86	0.11	ug/L		05/03/23 14:11	05/06/23 19:42	1
1,2-Dichlorobenzene	ND		0.86	0.082	ug/L		05/03/23 14:11	05/06/23 19:42	1
1,3-Dichlorobenzene	ND		0.86	0.085	ug/L		05/03/23 14:11	05/06/23 19:42	1
1,4-Dichlorobenzene	ND		0.86	0.053	ug/L		05/03/23 14:11	05/06/23 19:42	1
1-Methylnaphthalene	ND		0.16	0.048	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,3,4,6-Tetrachlorophenol	ND		0.86	0.28	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,3,5,6-Tetrachlorophenol	ND		0.86	0.44	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,4,5-Trichlorophenol	ND		0.86	0.22	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,4,6-Trichlorophenol	ND		0.86	0.19	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,4-Dichlorophenol	ND		0.16	0.044	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,4-Dimethylphenol	ND		0.86	0.14	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,4-Dinitrophenol	ND		8.6	1.3	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,4-Dinitrotoluene	ND		0.86	0.30	ug/L		05/03/23 14:11	05/06/23 19:42	1
2,6-Dinitrotoluene	ND		0.86	0.15	ug/L		05/03/23 14:11	05/06/23 19:42	1
2-Chloronaphthalene	ND		0.16	0.051	ug/L		05/03/23 14:11	05/06/23 19:42	1
2-Chlorophenol	ND		0.86	0.11	ug/L		05/03/23 14:11	05/06/23 19:42	1
2-Methylnaphthalene	ND		0.16	0.053	ug/L		05/03/23 14:11	05/06/23 19:42	1
2-Methylphenol	ND		0.86	0.26	ug/L		05/03/23 14:11	05/06/23 19:42	1
2-Nitroaniline	ND		4.3	0.47	ug/L		05/03/23 14:11	05/06/23 19:42	1
2-Nitrophenol	ND		0.86	0.17	ug/L		05/03/23 14:11	05/06/23 19:42	1
3,3'-Dichlorobenzidine	ND		0.86	0.50	ug/L		05/03/23 14:11	05/06/23 19:42	1
3-Nitroaniline	ND		4.3	0.38	ug/L		05/03/23 14:11	05/06/23 19:42	1
4,6-Dinitro-2-methylphenol	ND		4.3	1.3	ug/L		05/03/23 14:11	05/06/23 19:42	1
4-Bromophenyl phenyl ether	ND		0.86	0.28	ug/L		05/03/23 14:11	05/06/23 19:42	1
4-Chloro-3-methylphenol	ND		0.86	0.24	ug/L		05/03/23 14:11	05/06/23 19:42	1
4-Chloroaniline	ND		0.86	0.32	ug/L		05/03/23 14:11	05/06/23 19:42	1
4-Chlorophenyl phenyl ether	ND		0.86	0.19	ug/L		05/03/23 14:11	05/06/23 19:42	1
4-Nitroaniline	ND		4.3	0.31	ug/L		05/03/23 14:11	05/06/23 19:42	1
4-Nitrophenol	ND		4.3	0.81	ug/L		05/03/23 14:11	05/06/23 19:42	1
Acenaphthene	0.059	J	0.16	0.056	ug/L		05/03/23 14:11	05/06/23 19:42	1
Acenaphthylene	ND		0.16	0.056	ug/L		05/03/23 14:11	05/06/23 19:42	1
Anthracene	0.064	J	0.16	0.042	ug/L		05/03/23 14:11	05/06/23 19:42	1

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Client Sample Results

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-3

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

Client Sample ID: SUPE-EB-02-042723

Lab Sample ID: 180-155744-4

Date Collected: 04/27/23 11:00

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/01/23 17:45	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-155744-1

Client Sample ID: SUPE-EB-02-042723

Lab Sample ID: 180-155744-4

Date Collected: 04/27/23 11:00

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 17:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 17:45	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 17:45	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 17:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 17:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 17:45	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 17:45	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 17:45	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 17:45	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 17:45	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 17:45	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 17:45	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 17:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 17:45	1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		05/02/23 09:25	05/04/23 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		24 - 146	05/02/23 09:25	05/04/23 21:10	1
2-Fluorobiphenyl	68		37 - 120	05/02/23 09:25	05/04/23 21:10	1
2-Fluorophenol (Surr)	33		10 - 120	05/02/23 09:25	05/04/23 21:10	1
Nitrobenzene-d5 (Surr)	51		26 - 120	05/02/23 09:25	05/04/23 21:10	1
Phenol-d5 (Surr)	23		11 - 120	05/02/23 09:25	05/04/23 21:10	1
p-Terphenyl-d14	103		64 - 127	05/02/23 09:25	05/04/23 21:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.83	0.11	ug/L		05/03/23 14:11	05/06/23 20:04	1
1,2-Dichlorobenzene	ND		0.83	0.079	ug/L		05/03/23 14:11	05/06/23 20:04	1
1,3-Dichlorobenzene	ND		0.83	0.083	ug/L		05/03/23 14:11	05/06/23 20:04	1
1,4-Dichlorobenzene	ND		0.83	0.051	ug/L		05/03/23 14:11	05/06/23 20:04	1
1-Methylnaphthalene	ND		0.16	0.047	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,3,4,6-Tetrachlorophenol	ND		0.83	0.27	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,3,5,6-Tetrachlorophenol	ND		0.83	0.42	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,4,5-Trichlorophenol	ND		0.83	0.21	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,4,6-Trichlorophenol	ND		0.83	0.19	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,4-Dichlorophenol	ND		0.16	0.043	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,4-Dimethylphenol	ND		0.83	0.14	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,4-Dinitrophenol	ND		8.3	1.3	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,4-Dinitrotoluene	ND		0.83	0.29	ug/L		05/03/23 14:11	05/06/23 20:04	1
2,6-Dinitrotoluene	ND		0.83	0.14	ug/L		05/03/23 14:11	05/06/23 20:04	1
2-Chloronaphthalene	ND		0.16	0.049	ug/L		05/03/23 14:11	05/06/23 20:04	1

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Client Sample Results

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

Job ID: 180-155744-1

Client Sample ID: SUPE-EB-02-042723

Lab Sample ID: 180-155744-4

Date Collected: 04/27/23 11:00

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155744-1

Client Sample ID: SUPE-EB-02-042723

Lab Sample ID: 180-155744-4

Date Collected: 04/27/23 11:00

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

Lab Sample ID: 180-155744-5

Date Collected: 04/27/23 11:29

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

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

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Client Sample Results

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-5

Date Collected: 04/27/23 11:29

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-5

Date Collected: 04/27/23 11:29

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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

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

Lab Sample ID: 180-155744-6

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L		05/01/23 18:29	05/01/23 18:29	1
1,2,4-Trimethylbenzene	6.9		1.0	0.75	ug/L		05/01/23 18:29	05/01/23 18:29	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L		05/01/23 18:29	05/01/23 18:29	1
Benzene	15		1.0	0.41	ug/L		05/01/23 18:29	05/01/23 18:29	1
Chloromethane	ND		1.0	0.35	ug/L		05/01/23 18:29	05/01/23 18:29	1
Ethylbenzene	25		1.0	0.74	ug/L		05/01/23 18:29	05/01/23 18:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L		05/01/23 18:29	05/01/23 18:29	1
m-Xylene & p-Xylene	2.4		2.0	0.66	ug/L		05/01/23 18:29	05/01/23 18:29	1
Naphthalene	1.5		1.0	0.43	ug/L		05/01/23 18:29	05/01/23 18:29	1
n-Butylbenzene	ND		1.0	0.64	ug/L		05/01/23 18:29	05/01/23 18:29	1
N-Propylbenzene	ND		1.0	0.69	ug/L		05/01/23 18:29	05/01/23 18:29	1
o-Xylene	12		1.0	0.76	ug/L		05/01/23 18:29	05/01/23 18:29	1
Styrene	ND		1.0	0.73	ug/L		05/01/23 18:29	05/01/23 18:29	1
Toluene	1.7		1.0	0.51	ug/L		05/01/23 18:29	05/01/23 18:29	1
Xylenes, Total	14		2.0	0.66	ug/L		05/01/23 18:29	05/01/23 18:29	1

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

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Client Sample Results

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-6

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		73 - 120		05/01/23 18:29	1
Dibromofluoromethane (Surr)	102		75 - 123		05/01/23 18:29	1
Toluene-d8 (Surr)	99		80 - 120		05/01/23 18:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		5.3	1.8	ug/L		05/02/23 09:25	05/05/23 12:53	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		24 - 146	05/02/23 09:25	05/05/23 12:53	5
2-Fluorobiphenyl	73		37 - 120	05/02/23 09:25	05/05/23 12:53	5
2-Fluorophenol (Surr)	42		10 - 120	05/02/23 09:25	05/05/23 12:53	5
Nitrobenzene-d5 (Surr)	59		26 - 120	05/02/23 09:25	05/05/23 12:53	5
Phenol-d5 (Surr)	25		11 - 120	05/02/23 09:25	05/05/23 12:53	5
p-Terphenyl-d14	88		64 - 127	05/02/23 09:25	05/05/23 12:53	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.86	0.11	ug/L		05/03/23 14:11	05/06/23 20:48	1
1,2-Dichlorobenzene	ND		0.86	0.082	ug/L		05/03/23 14:11	05/06/23 20:48	1
1,3-Dichlorobenzene	ND		0.86	0.085	ug/L		05/03/23 14:11	05/06/23 20:48	1
1,4-Dichlorobenzene	ND		0.86	0.053	ug/L		05/03/23 14:11	05/06/23 20:48	1
1-Methylnaphthalene	7.3		0.16	0.048	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,3,4,6-Tetrachlorophenol	ND		0.86	0.28	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,3,5,6-Tetrachlorophenol	ND		0.86	0.44	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,4,5-Trichlorophenol	ND		0.86	0.22	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,4,6-Trichlorophenol	ND		0.86	0.19	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,4-Dichlorophenol	ND		0.16	0.044	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,4-Dimethylphenol	ND		0.86	0.14	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,4-Dinitrophenol	ND		8.6	1.3	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,4-Dinitrotoluene	ND		0.86	0.30	ug/L		05/03/23 14:11	05/06/23 20:48	1
2,6-Dinitrotoluene	ND		0.86	0.15	ug/L		05/03/23 14:11	05/06/23 20:48	1
2-Chloronaphthalene	ND		0.16	0.051	ug/L		05/03/23 14:11	05/06/23 20:48	1
2-Chlorophenol	ND		0.86	0.11	ug/L		05/03/23 14:11	05/06/23 20:48	1
2-Methylnaphthalene	ND		0.16	0.053	ug/L		05/03/23 14:11	05/06/23 20:48	1
2-Methylphenol	ND		0.86	0.26	ug/L		05/03/23 14:11	05/06/23 20:48	1
2-Nitroaniline	ND		4.3	0.47	ug/L		05/03/23 14:11	05/06/23 20:48	1
2-Nitrophenol	ND		0.86	0.17	ug/L		05/03/23 14:11	05/06/23 20:48	1
3,3'-Dichlorobenzidine	ND		0.86	0.50	ug/L		05/03/23 14:11	05/06/23 20:48	1
3-Nitroaniline	ND		4.3	0.38	ug/L		05/03/23 14:11	05/06/23 20:48	1
4,6-Dinitro-2-methylphenol	ND		4.3	1.3	ug/L		05/03/23 14:11	05/06/23 20:48	1
4-Bromophenyl phenyl ether	ND		0.86	0.28	ug/L		05/03/23 14:11	05/06/23 20:48	1
4-Chloro-3-methylphenol	ND		0.86	0.24	ug/L		05/03/23 14:11	05/06/23 20:48	1
4-Chloroaniline	ND		0.86	0.32	ug/L		05/03/23 14:11	05/06/23 20:48	1
4-Chlorophenyl phenyl ether	ND		0.86	0.19	ug/L		05/03/23 14:11	05/06/23 20:48	1
4-Nitroaniline	ND		4.3	0.31	ug/L		05/03/23 14:11	05/06/23 20:48	1
4-Nitrophenol	ND		4.3	0.81	ug/L		05/03/23 14:11	05/06/23 20:48	1
Acenaphthene	39 E		0.16	0.056	ug/L		05/03/23 14:11	05/06/23 20:48	1
Acenaphthylene	0.86		0.16	0.056	ug/L		05/03/23 14:11	05/06/23 20:48	1
Anthracene	0.32		0.16	0.042	ug/L		05/03/23 14:11	05/06/23 20:48	1

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Client Sample Results

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-6

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

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

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		23 - 128	05/03/23 14:11	05/06/23 20:48	1
2-Fluorobiphenyl	64		20 - 105	05/03/23 14:11	05/06/23 20:48	1
2-Fluorophenol (Surr)	72		20 - 105	05/03/23 14:11	05/06/23 20:48	1
Nitrobenzene-d5 (Surr)	72		20 - 107	05/03/23 14:11	05/06/23 20:48	1
Phenol-d5 (Surr)	68		20 - 106	05/03/23 14:11	05/06/23 20:48	1
Terphenyl-d14 (Surr)	79		22 - 120	05/03/23 14:11	05/06/23 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		3.4	0.45	ug/L		05/03/23 14:11	05/10/23 09:51	4
1,2-Dichlorobenzene	ND		3.4	0.33	ug/L		05/03/23 14:11	05/10/23 09:51	4
1,3-Dichlorobenzene	ND		3.4	0.34	ug/L		05/03/23 14:11	05/10/23 09:51	4
1,4-Dichlorobenzene	ND		3.4	0.21	ug/L		05/03/23 14:11	05/10/23 09:51	4
1-Methylnaphthalene	7.4		0.66	0.19	ug/L		05/03/23 14:11	05/10/23 09:51	4

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-6

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

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

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

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Client Sample Results

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

Job ID: 180-155744-1

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

Lab Sample ID: 180-155744-6

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

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

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

QC Sample Results

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

Job ID: 180-155744-1

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

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

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/01/23 13:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/01/23 13:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/01/23 13:40	1
Benzene	ND		1.0	0.41	ug/L			05/01/23 13:40	1
Chloromethane	ND		1.0	0.35	ug/L			05/01/23 13:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/01/23 13:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/01/23 13:40	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/01/23 13:40	1
Naphthalene	ND		1.0	0.43	ug/L			05/01/23 13:40	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/01/23 13:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/01/23 13:40	1
o-Xylene	ND		1.0	0.76	ug/L			05/01/23 13:40	1
Styrene	ND		1.0	0.73	ug/L			05/01/23 13:40	1
Toluene	ND		1.0	0.51	ug/L			05/01/23 13:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/01/23 13:40	1

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

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

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1-Trichloroethane	25.0	21.7		ug/L		87	73 - 126
1,2,4-Trimethylbenzene	25.0	21.7		ug/L		87	76 - 121
1,3,5-Trimethylbenzene	25.0	21.7		ug/L		87	77 - 121
Benzene	25.0	21.9		ug/L		88	71 - 124
Chloromethane	25.0	19.3		ug/L		77	68 - 124
Ethylbenzene	25.0	21.5		ug/L		86	77 - 123
Methyl tert-butyl ether	25.0	20.6		ug/L		83	77 - 120
m-Xylene & p-Xylene	25.0	22.3		ug/L		89	76 - 122
Naphthalene	25.0	21.7		ug/L		87	66 - 125
n-Butylbenzene	25.0	22.8		ug/L		91	71 - 128
N-Propylbenzene	25.0	21.8		ug/L		87	75 - 127
o-Xylene	25.0	22.5		ug/L		90	76 - 122
Styrene	25.0	22.1		ug/L		88	80 - 120
Toluene	25.0	21.6		ug/L		86	80 - 122
Xylenes, Total	50.0	44.8		ug/L		90	76 - 122

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

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QC Sample Results

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

Job ID: 180-155744-1

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

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

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

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

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

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

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

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

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

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

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

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QC Sample Results

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

Job ID: 180-155744-1

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

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

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

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

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QC Sample Results

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

Job ID: 180-155744-1

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

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

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

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

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

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

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

Eurofins Pittsburgh

QC Sample Results

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

Job ID: 180-155744-1

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

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

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

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

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

QC Association Summary

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

Job ID: 180-155744-1

GC/MS VOA

Analysis Batch: 667627

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

GC/MS Semi VOA

Prep Batch: 434154

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

Analysis Batch: 434343

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

Analysis Batch: 434450

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

Analysis Batch: 434715

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

Prep Batch: 667743

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

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QC Association Summary

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

Job ID: 180-155744-1

GC/MS Semi VOA

Analysis Batch: 668191

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

Analysis Batch: 668304

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



Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

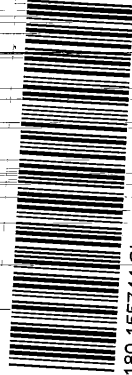
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Project Name: Superior, WI - 2023 OM&M Program Company: Field & Technical Services
 Project Number: OM-0556-23 Address: 200 Third Avenue
 Laboratory: TAKNOX Carnegle, PA 15106
 Shipment Method: FEDEX (412) 279-3363
 Program: Superior 2023 1SA Sampling_001

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

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



180-155744 Chain of Custody

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



CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TACHI
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	Notes
04/27/2023	0855	GW	SUPE-W-04AR2-042723	2	None	
04/27/2023	1030	GW	SUPE-W-99B-042723	2	None	
				Total Bottle Count		
				2		
				2		

Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>[Signature]</i> Printed Name: Shane Lindquist Firm: FTS Date/Time: 5/19/23 0810	Signature: <i>[Signature]</i> Printed Name: Henry... Firm: Firm Date/Time:	Rush: <input type="checkbox"/> Standard: <input checked="" type="checkbox"/>





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502076



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TAKNOX
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502074



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TACHI
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502082
[REDACTED]

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TABUF
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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

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

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



Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502075



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

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

Project Name: Superior, VI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TABUF
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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



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

SUPERIOR, WI 54880
UNITED STATES: US

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

PITTSBURGH PA 152382907

(412) 963-7068

REF:

DEPT:

RMA



Uncorrected temp

Thermometer ID 410-17

CF 0 Initials JD

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

FedEx Express



AN109090202822T

FedEx

TRK#
0221

6426 1927 1988

FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

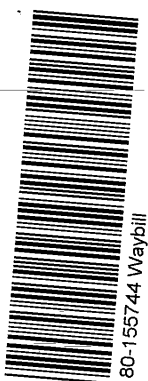
XN AGCA

15238

PA-US

PI

EXP 08/22



180-156744 Waybill

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

NO CHAIN

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


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

PITTSBURGH PA 152382907

(412) 963-7058

REF:

DEPT:

RMA: 

Uncorrected temp
Thermometer ID 2.1

CF 0 Initials JD

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

FedEx
Express



AT 109090220822Z

FedEx
TRK# 6426 1927 1977
0221

FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



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

NO CHAIN

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

ORIGIN ID: AGCA (21) T-04

STEVEN WILLIS
KOPPERS INC RAILI
3105 SOUTH COUNTR

03/CAFE362

SUPERIOR, WI 54880
UNITED STATES: US

RT 190
FZ 197

159453294 8094/ES981 ZL

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

PITTSBURGH PA 152382907

(412) 963-7058

REF:

DEPT:

RMA



Uncorrected temp

Thermometer ID 410

CF 0 Initials JD

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

FedEx
Express



AN109090202822T

FedEx

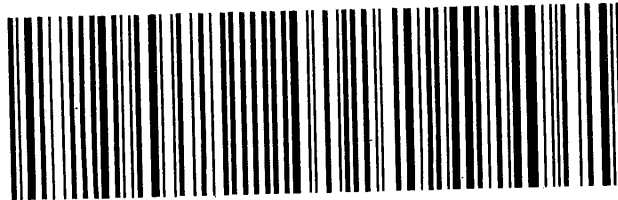
TRK# 6426 1927 1988
0221

FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

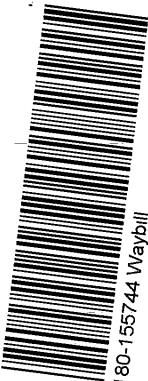
15238
PA-US PI

File EXP 08/22



W5115555 04/27 583J3/78CF/FE2D

NO CHAIN



180-155744 Waybill

STEVEN KOPPERS INC RAILROAD
3185 SOUTH COUNTRY ROAD A

SUPERIOR, WI 54880
UNITED STATES US


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

PITTSBURGH PA 152382907

(412) 963-7058

REF:

DEPT:

RMA: 

Uncorrected temp
Thermometer ID 2.1

CF 0 Initials JD

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

FedEx
Express



APR 28 2018 10:30A

FedEx

TRK#
0221

6426 1927 1977

FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US

PI

EXP 09/22



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

NO CHAIN

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

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

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



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

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

Sample Receiving Associate: Dean Hoch Date: 5/21/23 QA026R32.doc, 062719



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-155744-1

Login Number: 155744

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

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



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-155744-1

Login Number: 155744

List Number: 2

Creator: Kolb, Chris M

List Source: Eurofins Buffalo

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

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6 2.8 2.1 3.0 1.9 1.7 ir gun #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



FTS, LLC

DATE: June 12, 2023

FROM: Emily Vargo

SUBJECT: Superior Groundwater

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

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

ANALYSES: Method 8290A (Dioxins and Furans)

LABORATORY: Eurofins Laboratories, Knoxville

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

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

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

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

Field Duplicate Precision:

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

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

NC – not calculated due to non-detect result



ANALYTICAL REPORT

PREPARED FOR

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

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

JOB DESCRIPTION

Superior, WI Semiannual Groundwater

JOB NUMBER

180-155744-2

Eurofins Pittsburgh

Job Notes

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

PA Lab ID: 02-00416

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

Authorization



Authorized for release by
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(615)301-5031

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Revision 1



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Case Narrative

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

Job ID: 180-155744-2

Job ID: 180-155744-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-155744-2

Comments

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

Receipt

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

Receipt Exceptions

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

Dioxin

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

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

Organic Prep

Methods 1668_Sep_2L, 3540C, 8290, Combined Prep, HRMS-Sepf, HRMS-Sox, HRMS-waste, Split: The following samples went through Gel-Permeation Cleanup procedure, based on EPA method 3640A: .SUPE-W-04AR2-042723 (180-155744-1), SUPE-W-99B-042723 (180-155744-2), SUPE-W-12A-042723 (180-155744-3), SUPE-W-30A-042723 (180-155744-5) and SUPE-W-10AR2-042723 (180-155744-6)

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

Definitions/Glossary

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

Job ID: 180-155744-2

Qualifiers

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

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

Job ID: 180-155744-2

Laboratory: Eurofins Knoxville

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

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

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

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

Sample Summary

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

Job ID: 180-155744-2

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

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Method Summary

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

Job ID: 180-155744-2

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

Protocol References:

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

Laboratory References:

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



Lab Chronicle

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

Job ID: 180-155744-2

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

Lab Sample ID: 180-155744-1

Date Collected: 04/27/23 08:55

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1006.4 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74097	06/08/23 01:10	MSP	EET KNX
Instrument ID: D4A										

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

Lab Sample ID: 180-155744-2

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			986 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74097	06/08/23 02:10	MSP	EET KNX
Instrument ID: D4A										

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

Lab Sample ID: 180-155744-3

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			961.1 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74097	06/08/23 03:09	MSP	EET KNX
Instrument ID: D4A										

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

Lab Sample ID: 180-155744-5

Date Collected: 04/27/23 11:29

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			974.9 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74097	06/08/23 04:09	MSP	EET KNX
Instrument ID: D4A										

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

Lab Sample ID: 180-155744-6

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			928.6 mL	20 uL	73375	05/18/23 08:49	DAC	EET KNX
Total/NA	Analysis	8290A		1			74097	06/08/23 05:09	MSP	EET KNX
Instrument ID: D4A										

Laboratory References:

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

Lab Chronicle

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

Job ID: 180-155744-2

Analyst References:

Lab: EET KNX

Batch Type: Prep

DAC = Drew Costanzo

Batch Type: Analysis

MSP = Michael Patty

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

Client Sample Results

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

Job ID: 180-155744-2

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

Lab Sample ID: 180-155744-1

Date Collected: 04/27/23 08:55

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.9	0.18	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total TCDD	ND		9.9	0.18	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,7,8-PeCDD	ND		50	0.15	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total PeCDD	ND		50	0.15	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,4,7,8-HxCDD	1.0	J I B	50	0.19	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,6,7,8-HxCDD	0.53	J B	50	0.17	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,7,8,9-HxCDD	1.0	J I	50	0.17	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total HxCDD	10	J I B	50	0.18	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,4,6,7,8-HpCDD	12	J I B	50	1.2	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total HpCDD	86	I B	50	1.2	pg/L		05/18/23 08:49	06/08/23 01:10	1
OCDD	130	B	99	0.061	pg/L		05/18/23 08:49	06/08/23 01:10	1
2,3,7,8-TCDF	ND		9.9	0.15	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total TCDF	1.8	J I B	9.9	0.15	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,7,8-PeCDF	0.52	J B	50	0.23	pg/L		05/18/23 08:49	06/08/23 01:10	1
2,3,4,7,8-PeCDF	0.80	J I B	50	0.22	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total PeCDF	4.1	J I B	50	0.23	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,4,7,8-HxCDF	0.55	J	50	0.20	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,6,7,8-HxCDF	ND		50	0.21	pg/L		05/18/23 08:49	06/08/23 01:10	1
2,3,4,6,7,8-HxCDF	0.66	J I	50	0.23	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,7,8,9-HxCDF	ND		50	0.27	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total HxCDF	8.1	J I	50	0.23	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,4,6,7,8-HpCDF	2.0	J I B	50	0.13	pg/L		05/18/23 08:49	06/08/23 01:10	1
1,2,3,4,7,8,9-HpCDF	0.78	J I B	50	0.18	pg/L		05/18/23 08:49	06/08/23 01:10	1
Total HpCDF	6.7	J I B	50	0.16	pg/L		05/18/23 08:49	06/08/23 01:10	1
OCDF	5.6	J I B	99	0.49	pg/L		05/18/23 08:49	06/08/23 01:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	69		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,7,8-PeCDD	63		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,4,7,8-HxCDD	64		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,6,7,8-HxCDD	82		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,4,6,7,8-HpCDD	73		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-OCDD	71		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-2,3,7,8-TCDF	73		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,7,8-PeCDF	68		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-2,3,4,7,8-PeCDF	66		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,4,7,8-HxCDF	77		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,6,7,8-HxCDF	75		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-2,3,4,6,7,8-HxCDF	75		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,7,8,9-HxCDF	74		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,4,6,7,8-HpCDF	76		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-1,2,3,4,7,8,9-HpCDF	70		40 - 135	05/18/23 08:49	06/08/23 01:10	1
13C-OCDF	70		40 - 135	05/18/23 08:49	06/08/23 01:10	1

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

Lab Sample ID: 180-155744-2

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.27	pg/L		05/18/23 08:49	06/08/23 02:10	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-155744-2

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

Lab Sample ID: 180-155744-2

Date Collected: 04/27/23 10:30

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TCDD	1.1	J I B	10	0.27	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,7,8-PeCDD	0.58	J I B	51	0.24	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total PeCDD	0.91	J I B	51	0.24	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,4,7,8-HxCDD	1.5	J I B	51	0.14	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,6,7,8-HxCDD	1.5	J B	51	0.13	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,7,8,9-HxCDD	2.1	J	51	0.13	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total HxCDD	33	J I B	51	0.13	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,4,6,7,8-HpCDD	54	B	51	1.5	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total HpCDD	460	B	51	1.5	pg/L		05/18/23 08:49	06/08/23 02:10	1
OCDD	540	B	100	0.35	pg/L		05/18/23 08:49	06/08/23 02:10	1
2,3,7,8-TCDF	0.13	J I B	10	0.11	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total TCDF	7.2	J I B	10	0.11	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,7,8-PeCDF	0.69	J I B	51	0.15	pg/L		05/18/23 08:49	06/08/23 02:10	1
2,3,4,7,8-PeCDF	0.44	J I B	51	0.13	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total PeCDF	12	J I B	51	0.14	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,4,7,8-HxCDF	1.3	J I	51	0.20	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,6,7,8-HxCDF	1.7	J I	51	0.22	pg/L		05/18/23 08:49	06/08/23 02:10	1
2,3,4,6,7,8-HxCDF	ND		51	0.24	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,7,8,9-HxCDF	ND		51	0.29	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total HxCDF	21	J I	51	0.24	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,4,6,7,8-HpCDF	4.7	J I B	51	0.17	pg/L		05/18/23 08:49	06/08/23 02:10	1
1,2,3,4,7,8,9-HpCDF	1.2	J B	51	0.22	pg/L		05/18/23 08:49	06/08/23 02:10	1
Total HpCDF	15	J I B	51	0.20	pg/L		05/18/23 08:49	06/08/23 02:10	1
OCDF	19	J B	100	0.11	pg/L		05/18/23 08:49	06/08/23 02:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	71		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,7,8-PeCDD	66		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,4,7,8-HxCDD	65		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,6,7,8-HxCDD	76		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,4,6,7,8-HpCDD	73		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-OCDD	73		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-2,3,7,8-TCDF	73		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,7,8-PeCDF	72		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-2,3,4,7,8-PeCDF	71		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,4,7,8-HxCDF	76		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,6,7,8-HxCDF	72		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-2,3,4,6,7,8-HxCDF	75		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,7,8,9-HxCDF	72		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,4,6,7,8-HpCDF	76		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-1,2,3,4,7,8,9-HpCDF	73		40 - 135	05/18/23 08:49	06/08/23 02:10	1
13C-OCDF	69		40 - 135	05/18/23 08:49	06/08/23 02:10	1

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

Lab Sample ID: 180-155744-3

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.095	pg/L		05/18/23 08:49	06/08/23 03:09	1
Total TCDD	1.3	J I B	10	0.095	pg/L		05/18/23 08:49	06/08/23 03:09	1

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Client Sample Results

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

Job ID: 180-155744-2

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

Lab Sample ID: 180-155744-3

Date Collected: 04/27/23 08:44

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDD	0.40	J I B	52	0.26	pg/L		05/18/23 08:49	06/08/23 03:09	1
Total PeCDD	0.40	J I B	52	0.26	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,4,7,8-HxCDD	2.1	J I B	52	0.26	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,6,7,8-HxCDD	3.5	J B	52	0.23	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,7,8,9-HxCDD	1.7	J I	52	0.23	pg/L		05/18/23 08:49	06/08/23 03:09	1
Total HxCDD	18	J I B	52	0.24	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,4,6,7,8-HpCDD	69	B	52	1.5	pg/L		05/18/23 08:49	06/08/23 03:09	1
Total HpCDD	130	B	52	1.5	pg/L		05/18/23 08:49	06/08/23 03:09	1
OCDD	570	B	100	0.31	pg/L		05/18/23 08:49	06/08/23 03:09	1
2,3,7,8-TCDF	0.66	J I B	10	0.10	pg/L		05/18/23 08:49	06/08/23 03:09	1
Total TCDF	24	I B	10	0.10	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,7,8-PeCDF	0.84	J B	52	0.22	pg/L		05/18/23 08:49	06/08/23 03:09	1
2,3,4,7,8-PeCDF	0.92	J B	52	0.20	pg/L		05/18/23 08:49	06/08/23 03:09	1
Total PeCDF	52	I B	52	0.21	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,4,7,8-HxCDF	5.1	J	52	0.74	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,6,7,8-HxCDF	6.4	J I	52	0.80	pg/L		05/18/23 08:49	06/08/23 03:09	1
2,3,4,6,7,8-HxCDF	1.2	J I	52	0.82	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,7,8,9-HxCDF	ND		52	1.0	pg/L		05/18/23 08:49	06/08/23 03:09	1
Total HxCDF	68	I	52	0.84	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,4,6,7,8-HpCDF	19	J I B	52	0.59	pg/L		05/18/23 08:49	06/08/23 03:09	1
1,2,3,4,7,8,9-HpCDF	2.3	J B	52	0.78	pg/L		05/18/23 08:49	06/08/23 03:09	1
Total HpCDF	63	I B	52	0.69	pg/L		05/18/23 08:49	06/08/23 03:09	1
OCDF	51	J B	100	0.11	pg/L		05/18/23 08:49	06/08/23 03:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	75		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,7,8-PeCDD	77		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,4,7,8-HxCDD	72		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,6,7,8-HxCDD	86		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,4,6,7,8-HpCDD	80		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-OCDD	82		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-2,3,7,8-TCDF	79		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,7,8-PeCDF	80		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-2,3,4,7,8-PeCDF	79		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,4,7,8-HxCDF	83		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,6,7,8-HxCDF	79		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-2,3,4,6,7,8-HxCDF	77		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,7,8,9-HxCDF	80		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,4,6,7,8-HpCDF	84		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-1,2,3,4,7,8,9-HpCDF	80		40 - 135	05/18/23 08:49	06/08/23 03:09	1
13C-OCDF	76		40 - 135	05/18/23 08:49	06/08/23 03:09	1

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

Lab Sample ID: 180-155744-5

Date Collected: 04/27/23 11:29

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.19	pg/L		05/18/23 08:49	06/08/23 04:09	1
Total TCDD	0.40	J I B	10	0.19	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,7,8-PeCDD	ND		51	0.35	pg/L		05/18/23 08:49	06/08/23 04:09	1

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Client Sample Results

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

Job ID: 180-155744-2

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

Lab Sample ID: 180-155744-5

Date Collected: 04/27/23 11:29

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PeCDD	ND		51	0.35	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,4,7,8-HxCDD	1.4	J B	51	0.35	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,6,7,8-HxCDD	7.1	J B	51	0.32	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,7,8,9-HxCDD	2.4	J	51	0.32	pg/L		05/18/23 08:49	06/08/23 04:09	1
Total HxCDD	28	J I B	51	0.33	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,4,6,7,8-HpCDD	130	B	51	0.98	pg/L		05/18/23 08:49	06/08/23 04:09	1
Total HpCDD	290	B	51	0.98	pg/L		05/18/23 08:49	06/08/23 04:09	1
OCDD	1600	B	100	0.22	pg/L		05/18/23 08:49	06/08/23 04:09	1
2,3,7,8-TCDF	ND		10	0.12	pg/L		05/18/23 08:49	06/08/23 04:09	1
Total TCDF	33	I B	10	0.12	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,7,8-PeCDF	ND		51	0.68	pg/L		05/18/23 08:49	06/08/23 04:09	1
2,3,4,7,8-PeCDF	2.0	J I B	51	0.57	pg/L		05/18/23 08:49	06/08/23 04:09	1
Total PeCDF	170	I B	51	0.63	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,4,7,8-HxCDF	7.8	J	51	0.90	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,6,7,8-HxCDF	15	J	51	0.96	pg/L		05/18/23 08:49	06/08/23 04:09	1
2,3,4,6,7,8-HxCDF	2.2	J I	51	1.0	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,7,8,9-HxCDF	ND		51	1.2	pg/L		05/18/23 08:49	06/08/23 04:09	1
Total HxCDF	170	I	51	1.0	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,4,6,7,8-HpCDF	39	J B	51	0.73	pg/L		05/18/23 08:49	06/08/23 04:09	1
1,2,3,4,7,8,9-HpCDF	4.6	J B	51	0.98	pg/L		05/18/23 08:49	06/08/23 04:09	1
Total HpCDF	150	B	51	0.85	pg/L		05/18/23 08:49	06/08/23 04:09	1
OCDF	110	B	100	0.14	pg/L		05/18/23 08:49	06/08/23 04:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	68		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,7,8-PeCDD	65		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,4,7,8-HxCDD	67		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,6,7,8-HxCDD	80		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,4,6,7,8-HpCDD	78		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-OCDD	80		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-2,3,7,8-TCDF	72		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,7,8-PeCDF	68		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-2,3,4,7,8-PeCDF	69		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,4,7,8-HxCDF	76		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,6,7,8-HxCDF	74		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-2,3,4,6,7,8-HxCDF	74		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,7,8,9-HxCDF	75		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,4,6,7,8-HpCDF	81		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-1,2,3,4,7,8,9-HpCDF	76		40 - 135	05/18/23 08:49	06/08/23 04:09	1
13C-OCDF	75		40 - 135	05/18/23 08:49	06/08/23 04:09	1

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

Lab Sample ID: 180-155744-6

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		11	0.11	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total TCDD	ND		11	0.11	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,7,8-PeCDD	ND		54	0.18	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total PeCDD	0.36	J B	54	0.18	pg/L		05/18/23 08:49	06/08/23 05:09	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-155744-2

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

Lab Sample ID: 180-155744-6

Date Collected: 04/27/23 14:33

Matrix: Water

Date Received: 04/28/23 09:10

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDD	0.93	J I B	54	0.14	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,6,7,8-HxCDD	0.65	J B	54	0.13	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,7,8,9-HxCDD	0.53	J I	54	0.13	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total HxCDD	6.5	J I B	54	0.13	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,4,6,7,8-HpCDD	19	J B	54	0.66	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total HpCDD	51	J B	54	0.66	pg/L		05/18/23 08:49	06/08/23 05:09	1
OCDD	210	B	110	0.30	pg/L		05/18/23 08:49	06/08/23 05:09	1
2,3,7,8-TCDF	ND		11	0.092	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total TCDF	8.7	J I B	11	0.092	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,7,8-PeCDF	0.30	J I B	54	0.13	pg/L		05/18/23 08:49	06/08/23 05:09	1
2,3,4,7,8-PeCDF	0.39	J I B	54	0.12	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total PeCDF	13	J I B	54	0.12	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,4,7,8-HxCDF	1.1	J I	54	0.26	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,6,7,8-HxCDF	1.7	J I	54	0.27	pg/L		05/18/23 08:49	06/08/23 05:09	1
2,3,4,6,7,8-HxCDF	0.86	J I	54	0.30	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,7,8,9-HxCDF	ND		54	0.36	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total HxCDF	28	J I	54	0.30	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,4,6,7,8-HpCDF	4.2	J I B	54	0.27	pg/L		05/18/23 08:49	06/08/23 05:09	1
1,2,3,4,7,8,9-HpCDF	0.88	J I B	54	0.37	pg/L		05/18/23 08:49	06/08/23 05:09	1
Total HpCDF	14	J I B	54	0.32	pg/L		05/18/23 08:49	06/08/23 05:09	1
OCDF	12	J B	110	0.15	pg/L		05/18/23 08:49	06/08/23 05:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	65		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,7,8-PeCDD	62		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,4,7,8-HxCDD	66		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,6,7,8-HxCDD	81		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,4,6,7,8-HpCDD	75		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-OCDD	75		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-2,3,7,8-TCDF	66		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,7,8-PeCDF	65		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-2,3,4,7,8-PeCDF	65		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,4,7,8-HxCDF	75		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,6,7,8-HxCDF	75		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-2,3,4,6,7,8-HxCDF	74		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,7,8,9-HxCDF	74		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,4,6,7,8-HpCDF	80		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-1,2,3,4,7,8,9-HpCDF	75		40 - 135				05/18/23 08:49	06/08/23 05:09	1
13C-OCDF	73		40 - 135				05/18/23 08:49	06/08/23 05:09	1

QC Sample Results

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

Job ID: 180-155744-2

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

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

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

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

QC Sample Results

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

Job ID: 180-155744-2

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

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

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

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

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

QC Association Summary

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

Job ID: 180-155744-2

Specialty Organics

Prep Batch: 73375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155744-1	SUPE-W-04AR2-042723	Total/NA	Water	8290	
180-155744-2	SUPE-W-99B-042723	Total/NA	Water	8290	
180-155744-3	SUPE-W-12A-042723	Total/NA	Water	8290	
180-155744-5	SUPE-W-30A-042723	Total/NA	Water	8290	
180-155744-6	SUPE-W-10AR2-042723	Total/NA	Water	8290	
MB 140-73375/19-A	Method Blank	Total/NA	Water	8290	
LCS 140-73375/18-A	Lab Control Sample	Total/NA	Water	8290	

Analysis Batch: 74037

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

Analysis Batch: 74097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155744-1	SUPE-W-04AR2-042723	Total/NA	Water	8290A	73375
180-155744-2	SUPE-W-99B-042723	Total/NA	Water	8290A	73375
180-155744-3	SUPE-W-12A-042723	Total/NA	Water	8290A	73375
180-155744-5	SUPE-W-30A-042723	Total/NA	Water	8290A	73375
180-155744-6	SUPE-W-10AR2-042723	Total/NA	Water	8290A	73375



Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

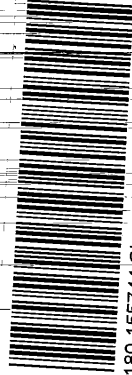
REF.# 502083



Project Name: Superior, WI - 2023 OM&M Program Company: Field & Technical Services
 Project Number: OM-0556-23 Address: 200 Third Avenue
 Laboratory: TAKNOX Carnegle, PA 15106
 Shipment Method: FEDEX (412) 279-3363
 Program: Superior 2023 1SA Sampling_001

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

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



180-155744 Chain of Custody

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



REF.# 502081

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TACHI
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	Notes
04/27/2023	0855	GW	SUPE-W-04AR2-042723	8270D_SVOC (less naphtha) (Chicago)	None	
04/27/2023	1030	GW	SUPE-W-99B-042723			
				Total Bottle Count		
				2		
				2		

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Shane Lindquist</i>	Signature: <i>Shane Lindquist</i>	Signature:	Signature:	<input type="checkbox"/> Rush
Printed Name: Shane Lindquist	Printed Name: Shane Lindquist	Printed Name:	Printed Name:	<input checked="" type="checkbox"/> Standard
Firm: FTS	Firm: FTS	Firm:	Firm:	
Date/Time: 04/27/23 0810	Date/Time: 04/27/23 1010	Date/Time:	Date/Time:	





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502076



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TAKNOX
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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

REF.# 502074

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM



Ref 210311

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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TACHI
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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





Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502082



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

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

Project Name: Superior, WI - 2023 OM&M Program
Project Number: OM-0556-23
Laboratory: TABUF
Shipment Method: FEDEX
Program: Superior 2023 1SA Sampling_001

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

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



Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502075



Project Name: Superior, VI - 2023 OM&M Program
 Project Number: OM-0556-23
 Laboratory: TABUF
 Shipment Method: FEDEX
 Program: Superior 2023 1SA Sampling_001

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

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

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

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



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

SUPERIOR, WI 54880
UNITED STATES: US

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

PITTSBURGH PA 152382907

(412) 963-7068

REF:

DEPT:

RMA



Uncorrected temp

Thermometer ID 410-17

CF 0 Initials JD

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

FedEx
Express



AN109090202822T

FedEx

TRK#
0221

6426 1927 1988

FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PI

EXP 08/22



180-156744 Waybill

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

NO CHAIN

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


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

PITTSBURGH PA 152382907

(412) 963-7058

REF:

DEPT:

RMA: 

Uncorrected temp
Thermometer ID 2.1

CF  Initials 

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

FedEx
Express



At 109090220822Z

FedEx
TRK# 6426 1927 1977
0221

FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



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

NO CHAIN

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- 13

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

RT 190
 FZ 197

03/CAFE363

159632929/RTW/ES981/ZL

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

PITTSBURGH PA 152382907

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

RMA



Uncorrected temp

Thermometer ID 410

CF 0 Initials JD

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

FedEx
 Express



AN109090202822R

FedEx
 TRK# 6426 1927 1988
 0221

FRI - 28 APR 10:30A
 PRIORITY OVERNIGHT

XN AGCA

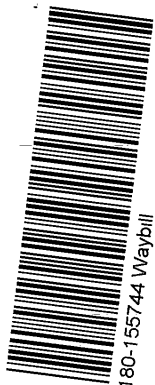
15238
 PA-US PI

297-4-4-8
 EXP 08/22



W5115555 04/27 583J3/78CF/FE2D

NO CHAIN



180-155744 Waybill

STEVEN KOPPERS INC RAILROAD
3185 SOUTH COUNTRY ROAD A

SUPERIOR, WI 54880
UNITED STATES US


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

PITTSBURGH PA 152382907

(412) 963-7058

REF:

DEPT:

RMA: 

Uncorrected temp
Thermometer ID 2.1

CF 0 Initials JD

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

FedEx
Express



APR 28 2023 10:30A

FedEx

TRK# 6426 1927 1977

0221

FRI - 28 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



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

NO CHAIN

Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-155744-2

Login Number: 155744

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

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

FTS, LLC

DATE: October 19, 2023

FROM: Emily Vargo

SUBJECT: Superior Groundwater

SAMPLE DELIVERY GROUP (SDG): 180-163450-1

SAMPLES: SUPE-W-30C-100323, SUPE-W-06A-100323, SUPE-W-06C-100323, SUPE-EB-1-100323, SUPE-W-12A-100323, SUPE-W-28C-100323, SUPE-W-18D-100323, SUPE-M-99A-100323 (W-12CR), SUPE-TB-01-100323, SUPE-W-12CR-100323, SUPE-W-30A-100323, SUPE-W-04AR2-100323, SUPE-W-10AR2-100423, SUPE-EB-2-100423, SUPE-M-99B-100423 (W-10AR2)

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

LABORATORY: Eurofins Laboratories, Buffalo, Pittsburgh

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

- Data Completeness
Noncompliance: None
- Holding Times
Noncompliance: None
- Laboratory Blank Contamination
Noncompliance: None
- Field Blank Contamination
Noncompliance: 1-Methylnaphthalene (0.22 J ug/l) was detected below the QL in equipment blank, SUPE-EB-1-100323, and the result in sample M-99A was qualified not detected at the QL. 2-Methylnaphthalene (0.41 ug/l) was detected above the QL in equipment blank, SUPE-EB-1-100323, and the results in samples W-06C, W-28C, W-18D, M-99A, and W-30A were qualified not detected at the QL. Acenaphthene (0.31 ug/l) was detected above the QL in the equipment blank, SUPE-EB-1-100323, and the results in samples W-06A, W-18D, M-99A, and W-04AR2 were qualified not detected at the QL. The acenaphthene result in sample W-06C was qualified not detected. Di-n-butyl phthalate (7.6 ug/l) was detected above the QL in equipment blank, SUPE-EB-1-100323, and the results in samples W-30C, W-06A, W-06C, W-12A, W-28C, W-18D, M-99A, W-12CR, and W-30A were qualified not detected. The di-n-butyl phthalate result in sample W-04AR2 was qualified not detected at the QL. Phenanthrene (0.11 J ug/l) was detected below the QL in equipment blank, EB-01, and the results in samples W-30C, W-12A, W-18D, M-99A, W-12CR, W-30A, and W-04AR2 were qualified not detected at the QL. The phenanthrene results in samples W-06A and W-06C were qualified "J+". Di-n-butyl phthalate (1.8 ug/l) was detected above the QL in equipment blank, SUPE-EB-2-100323, and the result in sample W-10AR2 was qualified not detected at the QL. The di-n-butyl phthalate result in sample M-99B was qualified not detected. Phenanthrene (0.097 J ug/l) was detected below the QL in equipment blank, SUPE-EB-2-100323, and the results in samples W-10AR2 and M-99B were qualified not detected at the QL.
- Field Duplicate Precision
Noncompliance: See attached page for details.
- Surrogate Recoveries
Noncompliance: None

- Laboratory Control Sample
Noncompliance: None
- Matrix Spike/Matrix Spike Duplicate Sample
Noncompliance: The MS recoveries of several SVOCs fell below the recovery limits and no action was taken on this basis.

Field Duplicate Precision:

FIELD DUPLICATE PRECISION					
ANALYTE	W-12CR	QUAL	M-99A	QUAL	RPD
1-Methylnaphthalene	0.064	U	0.084	J	NC
2-Methylnaphthalene	0.07	U	0.22	J	NC
Acenaphthene	0.074	U	0.13	J	NC
Anthracene	0.056	U	0.075	J	NC
Bis(2-ethylhexyl)phthalate	7.1	U	11	J	NC
Butyl benzyl phthalate	0.53	U	0.6	J	NC
Di-n-butyl phthalate	1.5		5.1		109.09*
Fluoranthene	0.068	U	0.12	J	NC
Fluorene	0.078	U	0.09	J	NC
Phenanthrene	0.092	J	0.18	J	64.71*
Pyrene	0.061	U	0.076	J	NC
FIELD DUPLICATE PRECISION					
ANALYTE	W-10AR2	QUAL	M-99B	QUAL	RPD
1,2,4-Trimethylbenzene	10		11		9.52
1-Methylnaphthalene	0.99		2.3		79.64*
Acenaphthene	11		27		84.21*
Acenaphthylene	0.46		0.87		61.65*
Anthracene	0.081	J	0.3		114.96*
Benzene	22		20		9.52
Benzo(a)anthracene	0.06	U	0.061	J	NC
Chrysene	0.065	U	0.088	J	NC
Dibenzofuran	1.4		3.2		78.26*
Di-n-butyl phthalate	0.62	J	1.4		77.23*
Ethylbenzene	45		45		0.00
Fluoranthene	0.4		0.91		77.86*
Fluorene	2.2		5.3		82.67*
m&p-Xylenes	3		3		0.00
Naphthalene	1.6		1.5		6.45
o-Xylene	16		15		6.45
Phenanthrene	0.054	J	0.092	J	52.05*
Phenol	0.39	U	0.59	J	NC
Pyrene	0.28		0.48		52.63*
Toluene	2.2		2.1		4.65

NC – not calculated due to nondetect result

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



ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/23/2023 10:45:28 AM Revision 1

JOB DESCRIPTION

Superior, WI Semiannual Groundwater

JOB NUMBER

180-163450-1

Eurofins Pittsburgh

Job Notes

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

PA Lab ID: 02-00416

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

Authorization



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

Generated
10/23/2023 10:45:28 AM
Revision 1



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Case Narrative

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

Job ID: 180-163450-1

Job ID: 180-163450-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-163450-1

102323 Revised report to remove pentachlorophenol from 8270E at client request. This report replaces the report previously issued on 101823.

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

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

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

Receipt

The samples were received on 10/5/2023 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 480-686979 was outside the method criteria for the following analyte: Naphthalene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. The associated sample is impacted: SUPE-M-99B-100423 (180-163450-15).

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

GC/MS Semi VOA

Method 8270E_LL: Received limited quantity, insufficient amount for MSD. (180-163450-D-10 MS)

Method 8270E_LL: The matrix spike (MS) recoveries for preparation batch 180-448704 and analytical batch 180-449286 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270E_LL: The continuing calibration verification (CCV) associated with batch 180-449281 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 180-449281/3).

Method 8270D_LL: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-686639.

Method 8270D_LL: The continuing calibration verification (CCV) associated with batch 480-686733 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

Definitions/Glossary

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

Job ID: 180-163450-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

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

Job ID: 180-163450-1

Laboratory: Eurofins Pittsburgh

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

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

Laboratory: Eurofins Buffalo

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

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

- 1
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- 11
- 12
- 13

Sample Summary

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

Job ID: 180-163450-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-163450-1	SUPE-W-30C-100323	Water	10/03/23 11:54	10/05/23 09:10
180-163450-2	SUPE-W-06A-100323	Water	10/03/23 13:47	10/05/23 09:10
180-163450-3	SUPE-W-06C-100323	Water	10/03/23 15:20	10/05/23 09:10
180-163450-4	SUPE-EB-1-100323	Water	10/03/23 15:45	10/05/23 09:10
180-163450-5	SUPE-W-12A-100323	Water	10/03/23 16:56	10/05/23 09:10
180-163450-6	SUPE-W-28C-100323	Water	10/03/23 10:33	10/05/23 09:10
180-163450-7	SUPE-W-18D-100323	Water	10/03/23 11:43	10/05/23 09:10
180-163450-8	SUPE-M-99A-100323	Water	10/03/23 12:00	10/05/23 09:10
180-163450-9	SUPE-TB-01-100323	Water	10/03/23 12:00	10/05/23 09:10
180-163450-10	SUPE-W-12CR-100323	Water	10/03/23 13:32	10/05/23 09:10
180-163450-11	SUPE-W-30A-100323	Water	10/03/23 15:20	10/05/23 09:10
180-163450-12	SUPE-W-04AR2-100323	Water	10/03/23 17:00	10/05/23 09:10
180-163450-13	SUPE-W-10AR2-100423	Water	10/04/23 09:44	10/05/23 09:10
180-163450-14	SUPE-EB-2-100423	Water	10/04/23 09:54	10/05/23 09:10
180-163450-15	SUPE-M-99B-100423	Water	10/04/23 10:39	10/05/23 09:10



Method Summary

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

Job ID: 180-163450-1

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

Protocol References:

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

Laboratory References:

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

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



Lab Chronicle

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

Job ID: 180-163450-1

Client Sample ID: SUPE-W-30C-100323

Lab Sample ID: 180-163450-1

Date Collected: 10/03/23 11:54

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686612	10/09/23 16:37	ZN	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3510C			1050 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686733	10/11/23 09:13	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			200 mL	250 uL	448702	10/09/23 14:29	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449026	10/12/23 17:39	VVP	EET PIT
Instrument ID: CH731										

Client Sample ID: SUPE-W-06A-100323

Lab Sample ID: 180-163450-2

Date Collected: 10/03/23 13:47

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686612	10/09/23 17:02	ZN	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3510C			1050 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686733	10/11/23 09:39	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			220 mL	250 uL	448702	10/09/23 14:29	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449026	10/12/23 18:01	VVP	EET PIT
Instrument ID: CH731										

Client Sample ID: SUPE-W-06C-100323

Lab Sample ID: 180-163450-3

Date Collected: 10/03/23 15:20

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686612	10/09/23 17:26	ZN	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3510C			1050 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686733	10/11/23 10:06	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			200 mL	250 uL	448702	10/09/23 14:29	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449026	10/12/23 18:22	VVP	EET PIT
Instrument ID: CH731										

Client Sample ID: SUPE-EB-1-100323

Lab Sample ID: 180-163450-4

Date Collected: 10/03/23 15:45

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686612	10/09/23 17:50	ZN	EET BUF
Instrument ID: HP5977L										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-163450-1

Client Sample ID: SUPE-EB-1-100323

Lab Sample ID: 180-163450-4

Date Collected: 10/03/23 15:45

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1050 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686733	10/11/23 10:33	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			210 mL	250 uL	448702	10/09/23 14:29	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449026	10/12/23 18:43	VVP	EET PIT
Instrument ID: CH731										

Client Sample ID: SUPE-W-12A-100323

Lab Sample ID: 180-163450-5

Date Collected: 10/03/23 16:56

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686612	10/09/23 18:15	ZN	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3510C			1050 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686733	10/11/23 11:00	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			200 mL	250 uL	448702	10/09/23 14:29	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449026	10/12/23 19:05	VVP	EET PIT
Instrument ID: CH731										

Client Sample ID: SUPE-W-28C-100323

Lab Sample ID: 180-163450-6

Date Collected: 10/03/23 10:33

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686612	10/09/23 18:40	ZN	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3510C			1050 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686733	10/11/23 11:27	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			210 mL	250 uL	448702	10/09/23 14:29	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449026	10/12/23 19:26	VVP	EET PIT
Instrument ID: CH731										

Client Sample ID: SUPE-W-18D-100323

Lab Sample ID: 180-163450-7

Date Collected: 10/03/23 11:43

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1050 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686733	10/11/23 11:54	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			210 mL	250 uL	448702	10/09/23 14:29	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449026	10/12/23 19:47	VVP	EET PIT
Instrument ID: CH731										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-163450-1

Client Sample ID: SUPE-M-99A-100323

Lab Sample ID: 180-163450-8

Date Collected: 10/03/23 12:00

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686612	10/09/23 19:04	ZN	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3510C			1050 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686733	10/11/23 12:21	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			210 mL	250 uL	448702	10/09/23 14:29	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449026	10/12/23 20:09	VVP	EET PIT
Instrument ID: CH731										

Client Sample ID: SUPE-TB-01-100323

Lab Sample ID: 180-163450-9

Date Collected: 10/03/23 12:00

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686612	10/09/23 19:28	ZN	EET BUF
Instrument ID: HP5977L										

Client Sample ID: SUPE-W-12CR-100323

Lab Sample ID: 180-163450-10

Date Collected: 10/03/23 13:32

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686612	10/09/23 19:53	ZN	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3510C			1040 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686733	10/11/23 12:47	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			220 mL	250 uL	448704	10/09/23 14:41	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449286	10/16/23 14:05	VVP	EET PIT
Instrument ID: CH732										

Client Sample ID: SUPE-W-30A-100323

Lab Sample ID: 180-163450-11

Date Collected: 10/03/23 15:20

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686612	10/09/23 20:18	ZN	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3510C			1050 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686733	10/11/23 13:14	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			210 mL	250 uL	448704	10/09/23 14:41	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449286	10/16/23 14:49	VVP	EET PIT
Instrument ID: CH732										

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Lab Chronicle

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

Job ID: 180-163450-1

Client Sample ID: SUPE-W-04AR2-100323

Lab Sample ID: 180-163450-12

Date Collected: 10/03/23 17:00

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686612	10/09/23 20:42	ZN	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3510C			1040 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686733	10/11/23 13:41	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			220 mL	250 uL	448704	10/09/23 14:41	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449286	10/16/23 15:11	VVP	EET PIT
Instrument ID: CH732										

Client Sample ID: SUPE-W-10AR2-100423

Lab Sample ID: 180-163450-13

Date Collected: 10/04/23 09:44

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686612	10/09/23 21:06	ZN	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3510C			1050 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686737	10/11/23 18:16	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			310 mL	250 uL	448788	10/10/23 11:14	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449298	10/16/23 21:20	VVP	EET PIT
Instrument ID: CHMSD7										

Client Sample ID: SUPE-EB-2-100423

Lab Sample ID: 180-163450-14

Date Collected: 10/04/23 09:54

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686612	10/09/23 21:31	ZN	EET BUF
Instrument ID: HP5977L										
Total/NA	Prep	3510C			1050 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686737	10/11/23 18:43	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			190 mL	250 uL	448788	10/10/23 11:14	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449286	10/16/23 18:29	VVP	EET PIT
Instrument ID: CH732										

Client Sample ID: SUPE-M-99B-100423

Lab Sample ID: 180-163450-15

Date Collected: 10/04/23 10:39

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	686979	10/12/23 08:11	LCH	EET BUF
Instrument ID: HP5977K										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-163450-1

Client Sample ID: SUPE-M-99B-100423

Lab Sample ID: 180-163450-15

Date Collected: 10/04/23 10:39

Matrix: Water

Date Received: 10/05/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1050 mL	1 mL	686639	10/09/23 14:28	LSC	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	686737	10/11/23 19:09	JMM	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			310 mL	250 uL	448788	10/10/23 11:14	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	449281	10/16/23 17:54	VVP	EET PIT
Instrument ID: CH731										

Laboratory References:

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

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

Analyst References:

Lab: EET BUF

Batch Type: Prep

LSC = Lane Capelli

Batch Type: Analysis

JMM = Joseph Marshall

LCH = Leah Hill

ZN = Zachary Nyhart

Lab: EET PIT

Batch Type: Prep

BJT = Bill Trout

Batch Type: Analysis

VVP = Vincent Piccolino

Client Sample Results

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

Job ID: 180-163450-1

Client Sample ID: SUPE-W-30C-100323

Lab Sample ID: 180-163450-1

Date Collected: 10/03/23 11:54

Matrix: Water

Date Received: 10/05/23 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 16:37	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/09/23 16:37	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/09/23 16:37	1
Benzene	ND		1.0	0.41	ug/L			10/09/23 16:37	1
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 16:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/09/23 16:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 16:37	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/09/23 16:37	1
Naphthalene	ND		1.0	0.43	ug/L			10/09/23 16:37	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/09/23 16:37	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/09/23 16:37	1
o-Xylene	ND		1.0	0.76	ug/L			10/09/23 16:37	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 16:37	1
Toluene	ND		1.0	0.51	ug/L			10/09/23 16:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/09/23 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120					10/09/23 16:37	1
4-Bromofluorobenzene (Surr)	96		73 - 120					10/09/23 16:37	1
Dibromofluoromethane (Surr)	107		75 - 123					10/09/23 16:37	1
Toluene-d8 (Surr)	98		80 - 120					10/09/23 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		10/09/23 14:28	10/11/23 09:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		24 - 146				10/09/23 14:28	10/11/23 09:13	1
2-Fluorobiphenyl	103		37 - 120				10/09/23 14:28	10/11/23 09:13	1
2-Fluorophenol (Surr)	48		10 - 120				10/09/23 14:28	10/11/23 09:13	1
Nitrobenzene-d5 (Surr)	83		26 - 120				10/09/23 14:28	10/11/23 09:13	1
Phenol-d5 (Surr)	33		11 - 120				10/09/23 14:28	10/11/23 09:13	1
p-Terphenyl-d14	94		64 - 127				10/09/23 14:28	10/11/23 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.3	0.16	ug/L		10/09/23 14:29	10/12/23 17:39	1
1,2-Dichlorobenzene	ND		1.3	0.12	ug/L		10/09/23 14:29	10/12/23 17:39	1
1,3-Dichlorobenzene	ND		1.3	0.12	ug/L		10/09/23 14:29	10/12/23 17:39	1
1,4-Dichlorobenzene	ND		1.3	0.076	ug/L		10/09/23 14:29	10/12/23 17:39	1
1-Methylnaphthalene	ND		0.24	0.070	ug/L		10/09/23 14:29	10/12/23 17:39	1
2,3,4,6-Tetrachlorophenol	ND		1.3	0.41	ug/L		10/09/23 14:29	10/12/23 17:39	1
2,3,5,6-Tetrachlorophenol	ND		1.3	0.63	ug/L		10/09/23 14:29	10/12/23 17:39	1
2,4,5-Trichlorophenol	ND		1.3	0.32	ug/L		10/09/23 14:29	10/12/23 17:39	1
2,4,6-Trichlorophenol	ND		1.3	0.28	ug/L		10/09/23 14:29	10/12/23 17:39	1
2,4-Dichlorophenol	ND		0.24	0.064	ug/L		10/09/23 14:29	10/12/23 17:39	1
2,4-Dimethylphenol	ND		1.3	0.21	ug/L		10/09/23 14:29	10/12/23 17:39	1
2,4-Dinitrophenol	ND		13	1.9	ug/L		10/09/23 14:29	10/12/23 17:39	1
2,4-Dinitrotoluene	ND		1.3	0.44	ug/L		10/09/23 14:29	10/12/23 17:39	1
2,6-Dinitrotoluene	ND		1.3	0.22	ug/L		10/09/23 14:29	10/12/23 17:39	1

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Client Sample Results

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

Job ID: 180-163450-1

Client Sample ID: SUPE-W-30C-100323

Lab Sample ID: 180-163450-1

Date Collected: 10/03/23 11:54

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		0.24	0.074	ug/L		10/09/23 14:29	10/12/23 17:39	1
2-Chlorophenol	ND		1.3	0.16	ug/L		10/09/23 14:29	10/12/23 17:39	1
2-Methylnaphthalene	ND		0.24	0.078	ug/L		10/09/23 14:29	10/12/23 17:39	1
2-Methylphenol	ND		1.3	0.38	ug/L		10/09/23 14:29	10/12/23 17:39	1
2-Nitroaniline	ND		6.3	0.69	ug/L		10/09/23 14:29	10/12/23 17:39	1
2-Nitrophenol	ND		1.3	0.24	ug/L		10/09/23 14:29	10/12/23 17:39	1
3,3'-Dichlorobenzidine	ND		1.3	0.73	ug/L		10/09/23 14:29	10/12/23 17:39	1
3-Nitroaniline	ND		6.3	0.55	ug/L		10/09/23 14:29	10/12/23 17:39	1
4,6-Dinitro-2-methylphenol	ND		6.3	1.8	ug/L		10/09/23 14:29	10/12/23 17:39	1
4-Bromophenyl phenyl ether	ND		1.3	0.40	ug/L		10/09/23 14:29	10/12/23 17:39	1
4-Chloro-3-methylphenol	ND		1.3	0.35	ug/L		10/09/23 14:29	10/12/23 17:39	1
4-Chloroaniline	ND		1.3	0.47	ug/L		10/09/23 14:29	10/12/23 17:39	1
4-Chlorophenyl phenyl ether	ND		1.3	0.28	ug/L		10/09/23 14:29	10/12/23 17:39	1
4-Nitroaniline	ND		6.3	0.45	ug/L		10/09/23 14:29	10/12/23 17:39	1
4-Nitrophenol	ND		6.3	1.2	ug/L		10/09/23 14:29	10/12/23 17:39	1
Acenaphthene	ND		0.24	0.081	ug/L		10/09/23 14:29	10/12/23 17:39	1
Acenaphthylene	ND		0.24	0.081	ug/L		10/09/23 14:29	10/12/23 17:39	1
Anthracene	0.22	J	0.24	0.061	ug/L		10/09/23 14:29	10/12/23 17:39	1
Benzo[a]anthracene	ND		0.24	0.094	ug/L		10/09/23 14:29	10/12/23 17:39	1
Benzo[a]pyrene	ND		0.24	0.066	ug/L		10/09/23 14:29	10/12/23 17:39	1
Benzo[b]fluoranthene	ND		0.24	0.12	ug/L		10/09/23 14:29	10/12/23 17:39	1
Benzo[g,h,i]perylene	ND		0.24	0.086	ug/L		10/09/23 14:29	10/12/23 17:39	1
Benzo[k]fluoranthene	ND		0.24	0.11	ug/L		10/09/23 14:29	10/12/23 17:39	1
Benzoic acid	ND		6.3	1.2	ug/L		10/09/23 14:29	10/12/23 17:39	1
Benzyl alcohol	ND		1.3	0.20	ug/L		10/09/23 14:29	10/12/23 17:39	1
Bis(2-chloroethoxy)methane	ND		1.3	0.19	ug/L		10/09/23 14:29	10/12/23 17:39	1
Bis(2-chloroethyl)ether	ND		0.24	0.050	ug/L		10/09/23 14:29	10/12/23 17:39	1
Bis(2-ethylhexyl) phthalate	ND		13	7.8	ug/L		10/09/23 14:29	10/12/23 17:39	1
bis(chloroisopropyl) ether	ND		0.24	0.073	ug/L		10/09/23 14:29	10/12/23 17:39	1
Butyl benzyl phthalate	ND		1.3	0.58	ug/L		10/09/23 14:29	10/12/23 17:39	1
Chrysene	ND		0.24	0.10	ug/L		10/09/23 14:29	10/12/23 17:39	1
Dibenz(a,h)anthracene	ND		0.24	0.090	ug/L		10/09/23 14:29	10/12/23 17:39	1
Dibenzofuran	ND		1.3	0.24	ug/L		10/09/23 14:29	10/12/23 17:39	1
Diethyl phthalate	ND		1.3	0.71	ug/L		10/09/23 14:29	10/12/23 17:39	1
Dimethyl phthalate	ND		1.3	0.25	ug/L		10/09/23 14:29	10/12/23 17:39	1
Di-n-butyl phthalate	5.3		1.3	0.93	ug/L		10/09/23 14:29	10/12/23 17:39	1
Di-n-octyl phthalate	ND		1.3	0.86	ug/L		10/09/23 14:29	10/12/23 17:39	1
Fluoranthene	ND		0.24	0.075	ug/L		10/09/23 14:29	10/12/23 17:39	1
Fluorene	ND		0.24	0.086	ug/L		10/09/23 14:29	10/12/23 17:39	1
Hexachlorobenzene	ND		0.24	0.070	ug/L		10/09/23 14:29	10/12/23 17:39	1
Hexachlorobutadiene	ND		0.24	0.086	ug/L		10/09/23 14:29	10/12/23 17:39	1
Hexachlorocyclopentadiene	ND		1.3	0.62	ug/L		10/09/23 14:29	10/12/23 17:39	1
Hexachloroethane	ND		1.3	0.17	ug/L		10/09/23 14:29	10/12/23 17:39	1
Indeno[1,2,3-cd]pyrene	ND		0.24	0.11	ug/L		10/09/23 14:29	10/12/23 17:39	1
Isophorone	ND		1.3	0.24	ug/L		10/09/23 14:29	10/12/23 17:39	1
Methylphenol, 3 & 4	ND		1.3	0.47	ug/L		10/09/23 14:29	10/12/23 17:39	1
Nitrobenzene	ND		2.5	0.63	ug/L		10/09/23 14:29	10/12/23 17:39	1
N-Nitrosodi-n-propylamine	ND		0.24	0.089	ug/L		10/09/23 14:29	10/12/23 17:39	1
N-Nitrosodiphenylamine	ND		1.3	0.15	ug/L		10/09/23 14:29	10/12/23 17:39	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-30C-100323

Lab Sample ID: 180-163450-1

Date Collected: 10/03/23 11:54

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.10	J	0.24	0.069	ug/L		10/09/23 14:29	10/12/23 17:39	1
Phenol	ND		1.3	0.61	ug/L		10/09/23 14:29	10/12/23 17:39	1
Pyrene	ND		0.24	0.068	ug/L		10/09/23 14:29	10/12/23 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		23 - 128	10/09/23 14:29	10/12/23 17:39	1
2-Fluorobiphenyl	72		20 - 105	10/09/23 14:29	10/12/23 17:39	1
2-Fluorophenol (Surr)	66		20 - 105	10/09/23 14:29	10/12/23 17:39	1
Nitrobenzene-d5 (Surr)	73		20 - 107	10/09/23 14:29	10/12/23 17:39	1
Phenol-d5 (Surr)	68		20 - 106	10/09/23 14:29	10/12/23 17:39	1
Terphenyl-d14 (Surr)	69		22 - 120	10/09/23 14:29	10/12/23 17:39	1

Client Sample ID: SUPE-W-06A-100323

Lab Sample ID: 180-163450-2

Date Collected: 10/03/23 13:47

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 17:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/09/23 17:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/09/23 17:02	1
Benzene	ND		1.0	0.41	ug/L			10/09/23 17:02	1
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 17:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/09/23 17:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 17:02	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/09/23 17:02	1
Naphthalene	ND		1.0	0.43	ug/L			10/09/23 17:02	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/09/23 17:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/09/23 17:02	1
o-Xylene	ND		1.0	0.76	ug/L			10/09/23 17:02	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 17:02	1
Toluene	ND		1.0	0.51	ug/L			10/09/23 17:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/09/23 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		10/09/23 17:02	1
4-Bromofluorobenzene (Surr)	95		73 - 120		10/09/23 17:02	1
Dibromofluoromethane (Surr)	108		75 - 123		10/09/23 17:02	1
Toluene-d8 (Surr)	95		80 - 120		10/09/23 17:02	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		10/09/23 14:28	10/11/23 09:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	110		24 - 146	10/09/23 14:28	10/11/23 09:39	1
2-Fluorobiphenyl	100		37 - 120	10/09/23 14:28	10/11/23 09:39	1
2-Fluorophenol (Surr)	53		10 - 120	10/09/23 14:28	10/11/23 09:39	1
Nitrobenzene-d5 (Surr)	84		26 - 120	10/09/23 14:28	10/11/23 09:39	1
Phenol-d5 (Surr)	35		11 - 120	10/09/23 14:28	10/11/23 09:39	1
p-Terphenyl-d14	97		64 - 127	10/09/23 14:28	10/11/23 09:39	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-06A-100323

Lab Sample ID: 180-163450-2

Date Collected: 10/03/23 13:47

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.1	0.15	ug/L		10/09/23 14:29	10/12/23 18:01	1
1,2-Dichlorobenzene	ND		1.1	0.11	ug/L		10/09/23 14:29	10/12/23 18:01	1
1,3-Dichlorobenzene	ND		1.1	0.11	ug/L		10/09/23 14:29	10/12/23 18:01	1
1,4-Dichlorobenzene	ND		1.1	0.069	ug/L		10/09/23 14:29	10/12/23 18:01	1
1-Methylnaphthalene	ND		0.22	0.064	ug/L		10/09/23 14:29	10/12/23 18:01	1
2,3,4,6-Tetrachlorophenol	ND		1.1	0.37	ug/L		10/09/23 14:29	10/12/23 18:01	1
2,3,5,6-Tetrachlorophenol	ND		1.1	0.58	ug/L		10/09/23 14:29	10/12/23 18:01	1
2,4,5-Trichlorophenol	ND		1.1	0.29	ug/L		10/09/23 14:29	10/12/23 18:01	1
2,4,6-Trichlorophenol	ND		1.1	0.25	ug/L		10/09/23 14:29	10/12/23 18:01	1
2,4-Dichlorophenol	ND		0.22	0.058	ug/L		10/09/23 14:29	10/12/23 18:01	1
2,4-Dimethylphenol	ND		1.1	0.19	ug/L		10/09/23 14:29	10/12/23 18:01	1
2,4-Dinitrophenol	ND		11	1.7	ug/L		10/09/23 14:29	10/12/23 18:01	1
2,4-Dinitrotoluene	ND		1.1	0.40	ug/L		10/09/23 14:29	10/12/23 18:01	1
2,6-Dinitrotoluene	ND		1.1	0.20	ug/L		10/09/23 14:29	10/12/23 18:01	1
2-Chloronaphthalene	ND		0.22	0.067	ug/L		10/09/23 14:29	10/12/23 18:01	1
2-Chlorophenol	ND		1.1	0.15	ug/L		10/09/23 14:29	10/12/23 18:01	1
2-Methylnaphthalene	ND		0.22	0.070	ug/L		10/09/23 14:29	10/12/23 18:01	1
2-Methylphenol	ND		1.1	0.34	ug/L		10/09/23 14:29	10/12/23 18:01	1
2-Nitroaniline	ND		5.7	0.62	ug/L		10/09/23 14:29	10/12/23 18:01	1
2-Nitrophenol	ND		1.1	0.22	ug/L		10/09/23 14:29	10/12/23 18:01	1
3,3'-Dichlorobenzidine	ND		1.1	0.66	ug/L		10/09/23 14:29	10/12/23 18:01	1
3-Nitroaniline	ND		5.7	0.50	ug/L		10/09/23 14:29	10/12/23 18:01	1
4,6-Dinitro-2-methylphenol	ND		5.7	1.7	ug/L		10/09/23 14:29	10/12/23 18:01	1
4-Bromophenyl phenyl ether	ND		1.1	0.36	ug/L		10/09/23 14:29	10/12/23 18:01	1
4-Chloro-3-methylphenol	ND		1.1	0.32	ug/L		10/09/23 14:29	10/12/23 18:01	1
4-Chloroaniline	ND		1.1	0.43	ug/L		10/09/23 14:29	10/12/23 18:01	1
4-Chlorophenyl phenyl ether	ND		1.1	0.25	ug/L		10/09/23 14:29	10/12/23 18:01	1
4-Nitroaniline	ND		5.7	0.41	ug/L		10/09/23 14:29	10/12/23 18:01	1
4-Nitrophenol	ND		5.7	1.1	ug/L		10/09/23 14:29	10/12/23 18:01	1
Acenaphthene	0.091	J	0.22	0.074	ug/L		10/09/23 14:29	10/12/23 18:01	1
Acenaphthylene	ND		0.22	0.074	ug/L		10/09/23 14:29	10/12/23 18:01	1
Anthracene	0.12	J	0.22	0.056	ug/L		10/09/23 14:29	10/12/23 18:01	1
Benzo[a]anthracene	ND		0.22	0.085	ug/L		10/09/23 14:29	10/12/23 18:01	1
Benzo[a]pyrene	ND		0.22	0.060	ug/L		10/09/23 14:29	10/12/23 18:01	1
Benzo[b]fluoranthene	ND		0.22	0.11	ug/L		10/09/23 14:29	10/12/23 18:01	1
Benzo[g,h,i]perylene	ND		0.22	0.078	ug/L		10/09/23 14:29	10/12/23 18:01	1
Benzo[k]fluoranthene	ND		0.22	0.10	ug/L		10/09/23 14:29	10/12/23 18:01	1
Benzoic acid	ND		5.7	1.0	ug/L		10/09/23 14:29	10/12/23 18:01	1
Benzyl alcohol	ND		1.1	0.19	ug/L		10/09/23 14:29	10/12/23 18:01	1
Bis(2-chloroethoxy)methane	ND		1.1	0.17	ug/L		10/09/23 14:29	10/12/23 18:01	1
Bis(2-chloroethyl)ether	ND		0.22	0.045	ug/L		10/09/23 14:29	10/12/23 18:01	1
Bis(2-ethylhexyl) phthalate	ND		11	7.1	ug/L		10/09/23 14:29	10/12/23 18:01	1
bis(chloroisopropyl) ether	ND		0.22	0.066	ug/L		10/09/23 14:29	10/12/23 18:01	1
Butyl benzyl phthalate	ND		1.1	0.53	ug/L		10/09/23 14:29	10/12/23 18:01	1
Chrysene	ND		0.22	0.092	ug/L		10/09/23 14:29	10/12/23 18:01	1
Dibenz(a,h)anthracene	ND		0.22	0.082	ug/L		10/09/23 14:29	10/12/23 18:01	1
Dibenzofuran	ND		1.1	0.22	ug/L		10/09/23 14:29	10/12/23 18:01	1
Diethyl phthalate	ND		1.1	0.64	ug/L		10/09/23 14:29	10/12/23 18:01	1
Dimethyl phthalate	ND		1.1	0.23	ug/L		10/09/23 14:29	10/12/23 18:01	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-06A-100323

Lab Sample ID: 180-163450-2

Date Collected: 10/03/23 13:47

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	2.9		1.1	0.84	ug/L		10/09/23 14:29	10/12/23 18:01	1
Di-n-octyl phthalate	ND		1.1	0.78	ug/L		10/09/23 14:29	10/12/23 18:01	1
Fluoranthene	0.18	J	0.22	0.068	ug/L		10/09/23 14:29	10/12/23 18:01	1
Fluorene	ND		0.22	0.078	ug/L		10/09/23 14:29	10/12/23 18:01	1
Hexachlorobenzene	ND		0.22	0.064	ug/L		10/09/23 14:29	10/12/23 18:01	1
Hexachlorobutadiene	ND		0.22	0.078	ug/L		10/09/23 14:29	10/12/23 18:01	1
Hexachlorocyclopentadiene	ND		1.1	0.56	ug/L		10/09/23 14:29	10/12/23 18:01	1
Hexachloroethane	ND		1.1	0.15	ug/L		10/09/23 14:29	10/12/23 18:01	1
Indeno[1,2,3-cd]pyrene	ND		0.22	0.097	ug/L		10/09/23 14:29	10/12/23 18:01	1
Isophorone	ND		1.1	0.21	ug/L		10/09/23 14:29	10/12/23 18:01	1
Methylphenol, 3 & 4	ND		1.1	0.42	ug/L		10/09/23 14:29	10/12/23 18:01	1
Nitrobenzene	ND		2.3	0.57	ug/L		10/09/23 14:29	10/12/23 18:01	1
N-Nitrosodi-n-propylamine	ND		0.22	0.081	ug/L		10/09/23 14:29	10/12/23 18:01	1
N-Nitrosodiphenylamine	ND		1.1	0.14	ug/L		10/09/23 14:29	10/12/23 18:01	1
Phenanthrene	0.24		0.22	0.063	ug/L		10/09/23 14:29	10/12/23 18:01	1
Phenol	ND		1.1	0.55	ug/L		10/09/23 14:29	10/12/23 18:01	1
Pyrene	0.096	J	0.22	0.061	ug/L		10/09/23 14:29	10/12/23 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		23 - 128	10/09/23 14:29	10/12/23 18:01	1
2-Fluorobiphenyl	65		20 - 105	10/09/23 14:29	10/12/23 18:01	1
2-Fluorophenol (Surr)	66		20 - 105	10/09/23 14:29	10/12/23 18:01	1
Nitrobenzene-d5 (Surr)	71		20 - 107	10/09/23 14:29	10/12/23 18:01	1
Phenol-d5 (Surr)	65		20 - 106	10/09/23 14:29	10/12/23 18:01	1
Terphenyl-d14 (Surr)	64		22 - 120	10/09/23 14:29	10/12/23 18:01	1

Client Sample ID: SUPE-W-06C-100323

Lab Sample ID: 180-163450-3

Date Collected: 10/03/23 15:20

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 17:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/09/23 17:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/09/23 17:26	1
Benzene	ND		1.0	0.41	ug/L			10/09/23 17:26	1
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 17:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/09/23 17:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 17:26	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/09/23 17:26	1
Naphthalene	ND		1.0	0.43	ug/L			10/09/23 17:26	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/09/23 17:26	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/09/23 17:26	1
o-Xylene	ND		1.0	0.76	ug/L			10/09/23 17:26	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 17:26	1
Toluene	ND		1.0	0.51	ug/L			10/09/23 17:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/09/23 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		10/09/23 17:26	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-06C-100323

Lab Sample ID: 180-163450-3

Date Collected: 10/03/23 15:20

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		73 - 120		10/09/23 17:26	1
Dibromofluoromethane (Surr)	110		75 - 123		10/09/23 17:26	1
Toluene-d8 (Surr)	96		80 - 120		10/09/23 17:26	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		10/09/23 14:28	10/11/23 10:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		24 - 146	10/09/23 14:28	10/11/23 10:06	1
2-Fluorobiphenyl	100		37 - 120	10/09/23 14:28	10/11/23 10:06	1
2-Fluorophenol (Surr)	52		10 - 120	10/09/23 14:28	10/11/23 10:06	1
Nitrobenzene-d5 (Surr)	85		26 - 120	10/09/23 14:28	10/11/23 10:06	1
Phenol-d5 (Surr)	35		11 - 120	10/09/23 14:28	10/11/23 10:06	1
p-Terphenyl-d14	99		64 - 127	10/09/23 14:28	10/11/23 10:06	1

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.3	0.16	ug/L		10/09/23 14:29	10/12/23 18:22	1
1,2-Dichlorobenzene	ND		1.3	0.12	ug/L		10/09/23 14:29	10/12/23 18:22	1
1,3-Dichlorobenzene	ND		1.3	0.12	ug/L		10/09/23 14:29	10/12/23 18:22	1
1,4-Dichlorobenzene	ND		1.3	0.076	ug/L		10/09/23 14:29	10/12/23 18:22	1
1-Methylnaphthalene	ND		0.24	0.070	ug/L		10/09/23 14:29	10/12/23 18:22	1
2,3,4,6-Tetrachlorophenol	ND		1.3	0.41	ug/L		10/09/23 14:29	10/12/23 18:22	1
2,3,5,6-Tetrachlorophenol	ND		1.3	0.63	ug/L		10/09/23 14:29	10/12/23 18:22	1
2,4,5-Trichlorophenol	ND		1.3	0.32	ug/L		10/09/23 14:29	10/12/23 18:22	1
2,4,6-Trichlorophenol	ND		1.3	0.28	ug/L		10/09/23 14:29	10/12/23 18:22	1
2,4-Dichlorophenol	ND		0.24	0.064	ug/L		10/09/23 14:29	10/12/23 18:22	1
2,4-Dimethylphenol	ND		1.3	0.21	ug/L		10/09/23 14:29	10/12/23 18:22	1
2,4-Dinitrophenol	ND		13	1.9	ug/L		10/09/23 14:29	10/12/23 18:22	1
2,4-Dinitrotoluene	ND		1.3	0.44	ug/L		10/09/23 14:29	10/12/23 18:22	1
2,6-Dinitrotoluene	ND		1.3	0.22	ug/L		10/09/23 14:29	10/12/23 18:22	1
2-Chloronaphthalene	ND		0.24	0.074	ug/L		10/09/23 14:29	10/12/23 18:22	1
2-Chlorophenol	ND		1.3	0.16	ug/L		10/09/23 14:29	10/12/23 18:22	1
2-Methylnaphthalene	0.13	J	0.24	0.078	ug/L		10/09/23 14:29	10/12/23 18:22	1
2-Methylphenol	ND		1.3	0.38	ug/L		10/09/23 14:29	10/12/23 18:22	1
2-Nitroaniline	ND		6.3	0.69	ug/L		10/09/23 14:29	10/12/23 18:22	1
2-Nitrophenol	ND		1.3	0.24	ug/L		10/09/23 14:29	10/12/23 18:22	1
3,3'-Dichlorobenzidine	ND		1.3	0.73	ug/L		10/09/23 14:29	10/12/23 18:22	1
3-Nitroaniline	ND		6.3	0.55	ug/L		10/09/23 14:29	10/12/23 18:22	1
4,6-Dinitro-2-methylphenol	ND		6.3	1.8	ug/L		10/09/23 14:29	10/12/23 18:22	1
4-Bromophenyl phenyl ether	ND		1.3	0.40	ug/L		10/09/23 14:29	10/12/23 18:22	1
4-Chloro-3-methylphenol	ND		1.3	0.35	ug/L		10/09/23 14:29	10/12/23 18:22	1
4-Chloroaniline	ND		1.3	0.47	ug/L		10/09/23 14:29	10/12/23 18:22	1
4-Chlorophenyl phenyl ether	ND		1.3	0.28	ug/L		10/09/23 14:29	10/12/23 18:22	1
4-Nitroaniline	ND		6.3	0.45	ug/L		10/09/23 14:29	10/12/23 18:22	1
4-Nitrophenol	ND		6.3	1.2	ug/L		10/09/23 14:29	10/12/23 18:22	1
Acenaphthene	0.24		0.24	0.081	ug/L		10/09/23 14:29	10/12/23 18:22	1
Acenaphthylene	ND		0.24	0.081	ug/L		10/09/23 14:29	10/12/23 18:22	1
Anthracene	0.17	J	0.24	0.061	ug/L		10/09/23 14:29	10/12/23 18:22	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-06C-100323

Lab Sample ID: 180-163450-3

Date Collected: 10/03/23 15:20

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.28		0.24	0.094	ug/L		10/09/23 14:29	10/12/23 18:22	1
Benzo[a]pyrene	0.11	J	0.24	0.066	ug/L		10/09/23 14:29	10/12/23 18:22	1
Benzo[b]fluoranthene	0.17	J	0.24	0.12	ug/L		10/09/23 14:29	10/12/23 18:22	1
Benzo[g,h,i]perylene	ND		0.24	0.086	ug/L		10/09/23 14:29	10/12/23 18:22	1
Benzo[k]fluoranthene	ND		0.24	0.11	ug/L		10/09/23 14:29	10/12/23 18:22	1
Benzoic acid	ND		6.3	1.2	ug/L		10/09/23 14:29	10/12/23 18:22	1
Benzyl alcohol	ND		1.3	0.20	ug/L		10/09/23 14:29	10/12/23 18:22	1
Bis(2-chloroethoxy)methane	ND		1.3	0.19	ug/L		10/09/23 14:29	10/12/23 18:22	1
Bis(2-chloroethyl)ether	ND		0.24	0.050	ug/L		10/09/23 14:29	10/12/23 18:22	1
Bis(2-ethylhexyl) phthalate	ND		13	7.8	ug/L		10/09/23 14:29	10/12/23 18:22	1
bis(chloroisopropyl) ether	ND		0.24	0.073	ug/L		10/09/23 14:29	10/12/23 18:22	1
Butyl benzyl phthalate	ND		1.3	0.58	ug/L		10/09/23 14:29	10/12/23 18:22	1
Chrysene	0.38		0.24	0.10	ug/L		10/09/23 14:29	10/12/23 18:22	1
Dibenz(a,h)anthracene	ND		0.24	0.090	ug/L		10/09/23 14:29	10/12/23 18:22	1
Dibenzofuran	ND		1.3	0.24	ug/L		10/09/23 14:29	10/12/23 18:22	1
Diethyl phthalate	ND		1.3	0.71	ug/L		10/09/23 14:29	10/12/23 18:22	1
Dimethyl phthalate	ND		1.3	0.25	ug/L		10/09/23 14:29	10/12/23 18:22	1
Di-n-butyl phthalate	5.8		1.3	0.93	ug/L		10/09/23 14:29	10/12/23 18:22	1
Di-n-octyl phthalate	ND		1.3	0.86	ug/L		10/09/23 14:29	10/12/23 18:22	1
Fluoranthene	1.4		0.24	0.075	ug/L		10/09/23 14:29	10/12/23 18:22	1
Fluorene	ND		0.24	0.086	ug/L		10/09/23 14:29	10/12/23 18:22	1
Hexachlorobenzene	ND		0.24	0.070	ug/L		10/09/23 14:29	10/12/23 18:22	1
Hexachlorobutadiene	ND		0.24	0.086	ug/L		10/09/23 14:29	10/12/23 18:22	1
Hexachlorocyclopentadiene	ND		1.3	0.62	ug/L		10/09/23 14:29	10/12/23 18:22	1
Hexachloroethane	ND		1.3	0.17	ug/L		10/09/23 14:29	10/12/23 18:22	1
Indeno[1,2,3-cd]pyrene	ND		0.24	0.11	ug/L		10/09/23 14:29	10/12/23 18:22	1
Isophorone	ND		1.3	0.24	ug/L		10/09/23 14:29	10/12/23 18:22	1
Methylphenol, 3 & 4	ND		1.3	0.47	ug/L		10/09/23 14:29	10/12/23 18:22	1
Nitrobenzene	ND		2.5	0.63	ug/L		10/09/23 14:29	10/12/23 18:22	1
N-Nitrosodi-n-propylamine	ND		0.24	0.089	ug/L		10/09/23 14:29	10/12/23 18:22	1
N-Nitrosodiphenylamine	ND		1.3	0.15	ug/L		10/09/23 14:29	10/12/23 18:22	1
Phenanthrene	0.38		0.24	0.069	ug/L		10/09/23 14:29	10/12/23 18:22	1
Phenol	ND		1.3	0.61	ug/L		10/09/23 14:29	10/12/23 18:22	1
Pyrene	0.96		0.24	0.068	ug/L		10/09/23 14:29	10/12/23 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		23 - 128	10/09/23 14:29	10/12/23 18:22	1
2-Fluorobiphenyl	58		20 - 105	10/09/23 14:29	10/12/23 18:22	1
2-Fluorophenol (Surr)	49		20 - 105	10/09/23 14:29	10/12/23 18:22	1
Nitrobenzene-d5 (Surr)	57		20 - 107	10/09/23 14:29	10/12/23 18:22	1
Phenol-d5 (Surr)	52		20 - 106	10/09/23 14:29	10/12/23 18:22	1
Terphenyl-d14 (Surr)	60		22 - 120	10/09/23 14:29	10/12/23 18:22	1

Client Sample ID: SUPE-EB-1-100323

Lab Sample ID: 180-163450-4

Date Collected: 10/03/23 15:45

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 17:50	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-EB-1-100323

Lab Sample ID: 180-163450-4

Date Collected: 10/03/23 15:45

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/09/23 17:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/09/23 17:50	1
Benzene	ND		1.0	0.41	ug/L			10/09/23 17:50	1
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 17:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/09/23 17:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 17:50	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/09/23 17:50	1
Naphthalene	ND		1.0	0.43	ug/L			10/09/23 17:50	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/09/23 17:50	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/09/23 17:50	1
o-Xylene	ND		1.0	0.76	ug/L			10/09/23 17:50	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 17:50	1
Toluene	ND		1.0	0.51	ug/L			10/09/23 17:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/09/23 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		10/09/23 17:50	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/09/23 17:50	1
Dibromofluoromethane (Surr)	108		75 - 123		10/09/23 17:50	1
Toluene-d8 (Surr)	96		80 - 120		10/09/23 17:50	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		10/09/23 14:28	10/11/23 10:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		24 - 146	10/09/23 14:28	10/11/23 10:33	1
2-Fluorobiphenyl	103		37 - 120	10/09/23 14:28	10/11/23 10:33	1
2-Fluorophenol (Surr)	54		10 - 120	10/09/23 14:28	10/11/23 10:33	1
Nitrobenzene-d5 (Surr)	90		26 - 120	10/09/23 14:28	10/11/23 10:33	1
Phenol-d5 (Surr)	35		11 - 120	10/09/23 14:28	10/11/23 10:33	1
p-Terphenyl-d14	109		64 - 127	10/09/23 14:28	10/11/23 10:33	1

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.2	0.16	ug/L		10/09/23 14:29	10/12/23 18:43	1
1,2-Dichlorobenzene	ND		1.2	0.11	ug/L		10/09/23 14:29	10/12/23 18:43	1
1,3-Dichlorobenzene	ND		1.2	0.12	ug/L		10/09/23 14:29	10/12/23 18:43	1
1,4-Dichlorobenzene	ND		1.2	0.073	ug/L		10/09/23 14:29	10/12/23 18:43	1
1-Methylnaphthalene	0.22	J	0.23	0.067	ug/L		10/09/23 14:29	10/12/23 18:43	1
2,3,4,6-Tetrachlorophenol	ND		1.2	0.39	ug/L		10/09/23 14:29	10/12/23 18:43	1
2,3,5,6-Tetrachlorophenol	ND		1.2	0.60	ug/L		10/09/23 14:29	10/12/23 18:43	1
2,4,5-Trichlorophenol	ND		1.2	0.30	ug/L		10/09/23 14:29	10/12/23 18:43	1
2,4,6-Trichlorophenol	ND		1.2	0.27	ug/L		10/09/23 14:29	10/12/23 18:43	1
2,4-Dichlorophenol	ND		0.23	0.061	ug/L		10/09/23 14:29	10/12/23 18:43	1
2,4-Dimethylphenol	ND		1.2	0.20	ug/L		10/09/23 14:29	10/12/23 18:43	1
2,4-Dinitrophenol	ND		12	1.8	ug/L		10/09/23 14:29	10/12/23 18:43	1
2,4-Dinitrotoluene	ND		1.2	0.42	ug/L		10/09/23 14:29	10/12/23 18:43	1
2,6-Dinitrotoluene	ND		1.2	0.21	ug/L		10/09/23 14:29	10/12/23 18:43	1
2-Chloronaphthalene	ND		0.23	0.070	ug/L		10/09/23 14:29	10/12/23 18:43	1

Eurofins Pittsburgh

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-EB-1-100323

Lab Sample ID: 180-163450-4

Date Collected: 10/03/23 15:45

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		1.2	0.15	ug/L		10/09/23 14:29	10/12/23 18:43	1
2-Methylnaphthalene	0.41		0.23	0.074	ug/L		10/09/23 14:29	10/12/23 18:43	1
2-Methylphenol	ND		1.2	0.36	ug/L		10/09/23 14:29	10/12/23 18:43	1
2-Nitroaniline	ND		6.0	0.65	ug/L		10/09/23 14:29	10/12/23 18:43	1
2-Nitrophenol	ND		1.2	0.23	ug/L		10/09/23 14:29	10/12/23 18:43	1
3,3'-Dichlorobenzidine	ND		1.2	0.69	ug/L		10/09/23 14:29	10/12/23 18:43	1
3-Nitroaniline	ND		6.0	0.52	ug/L		10/09/23 14:29	10/12/23 18:43	1
4,6-Dinitro-2-methylphenol	ND		6.0	1.8	ug/L		10/09/23 14:29	10/12/23 18:43	1
4-Bromophenyl phenyl ether	ND		1.2	0.38	ug/L		10/09/23 14:29	10/12/23 18:43	1
4-Chloro-3-methylphenol	ND		1.2	0.33	ug/L		10/09/23 14:29	10/12/23 18:43	1
4-Chloroaniline	ND		1.2	0.45	ug/L		10/09/23 14:29	10/12/23 18:43	1
4-Chlorophenyl phenyl ether	ND		1.2	0.26	ug/L		10/09/23 14:29	10/12/23 18:43	1
4-Nitroaniline	ND		6.0	0.43	ug/L		10/09/23 14:29	10/12/23 18:43	1
4-Nitrophenol	ND		6.0	1.1	ug/L		10/09/23 14:29	10/12/23 18:43	1
Acenaphthene	0.31		0.23	0.077	ug/L		10/09/23 14:29	10/12/23 18:43	1
Acenaphthylene	ND		0.23	0.077	ug/L		10/09/23 14:29	10/12/23 18:43	1
Anthracene	ND		0.23	0.058	ug/L		10/09/23 14:29	10/12/23 18:43	1
Benzo[a]anthracene	ND		0.23	0.089	ug/L		10/09/23 14:29	10/12/23 18:43	1
Benzo[a]pyrene	ND		0.23	0.063	ug/L		10/09/23 14:29	10/12/23 18:43	1
Benzo[b]fluoranthene	ND		0.23	0.12	ug/L		10/09/23 14:29	10/12/23 18:43	1
Benzo[g,h,i]perylene	ND		0.23	0.082	ug/L		10/09/23 14:29	10/12/23 18:43	1
Benzo[k]fluoranthene	ND		0.23	0.10	ug/L		10/09/23 14:29	10/12/23 18:43	1
Benzoic acid	ND		6.0	1.1	ug/L		10/09/23 14:29	10/12/23 18:43	1
Benzyl alcohol	ND		1.2	0.19	ug/L		10/09/23 14:29	10/12/23 18:43	1
Bis(2-chloroethoxy)methane	ND		1.2	0.18	ug/L		10/09/23 14:29	10/12/23 18:43	1
Bis(2-chloroethyl)ether	ND		0.23	0.048	ug/L		10/09/23 14:29	10/12/23 18:43	1
Bis(2-ethylhexyl) phthalate	ND		12	7.4	ug/L		10/09/23 14:29	10/12/23 18:43	1
bis(chloroisopropyl) ether	ND		0.23	0.069	ug/L		10/09/23 14:29	10/12/23 18:43	1
Butyl benzyl phthalate	ND		1.2	0.55	ug/L		10/09/23 14:29	10/12/23 18:43	1
Chrysene	ND		0.23	0.096	ug/L		10/09/23 14:29	10/12/23 18:43	1
Dibenz(a,h)anthracene	ND		0.23	0.086	ug/L		10/09/23 14:29	10/12/23 18:43	1
Dibenzofuran	ND		1.2	0.23	ug/L		10/09/23 14:29	10/12/23 18:43	1
Diethyl phthalate	ND		1.2	0.68	ug/L		10/09/23 14:29	10/12/23 18:43	1
Dimethyl phthalate	ND		1.2	0.24	ug/L		10/09/23 14:29	10/12/23 18:43	1
Di-n-butyl phthalate	7.6		1.2	0.88	ug/L		10/09/23 14:29	10/12/23 18:43	1
Di-n-octyl phthalate	ND		1.2	0.82	ug/L		10/09/23 14:29	10/12/23 18:43	1
Fluoranthene	ND		0.23	0.071	ug/L		10/09/23 14:29	10/12/23 18:43	1
Fluorene	ND		0.23	0.082	ug/L		10/09/23 14:29	10/12/23 18:43	1
Hexachlorobenzene	ND		0.23	0.067	ug/L		10/09/23 14:29	10/12/23 18:43	1
Hexachlorobutadiene	ND		0.23	0.082	ug/L		10/09/23 14:29	10/12/23 18:43	1
Hexachlorocyclopentadiene	ND		1.2	0.59	ug/L		10/09/23 14:29	10/12/23 18:43	1
Hexachloroethane	ND		1.2	0.16	ug/L		10/09/23 14:29	10/12/23 18:43	1
Indeno[1,2,3-cd]pyrene	ND		0.23	0.10	ug/L		10/09/23 14:29	10/12/23 18:43	1
Isophorone	ND		1.2	0.22	ug/L		10/09/23 14:29	10/12/23 18:43	1
Methylphenol, 3 & 4	ND		1.2	0.44	ug/L		10/09/23 14:29	10/12/23 18:43	1
Nitrobenzene	ND		2.4	0.60	ug/L		10/09/23 14:29	10/12/23 18:43	1
N-Nitrosodi-n-propylamine	ND		0.23	0.085	ug/L		10/09/23 14:29	10/12/23 18:43	1
N-Nitrosodiphenylamine	ND		1.2	0.14	ug/L		10/09/23 14:29	10/12/23 18:43	1
Phenanthrene	0.11 J		0.23	0.065	ug/L		10/09/23 14:29	10/12/23 18:43	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-EB-1-100323

Lab Sample ID: 180-163450-4

Date Collected: 10/03/23 15:45

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.2	0.58	ug/L		10/09/23 14:29	10/12/23 18:43	1
Pyrene	ND		0.23	0.064	ug/L		10/09/23 14:29	10/12/23 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		23 - 128				10/09/23 14:29	10/12/23 18:43	1
2-Fluorobiphenyl	74		20 - 105				10/09/23 14:29	10/12/23 18:43	1
2-Fluorophenol (Surr)	68		20 - 105				10/09/23 14:29	10/12/23 18:43	1
Nitrobenzene-d5 (Surr)	75		20 - 107				10/09/23 14:29	10/12/23 18:43	1
Phenol-d5 (Surr)	66		20 - 106				10/09/23 14:29	10/12/23 18:43	1
Terphenyl-d14 (Surr)	70		22 - 120				10/09/23 14:29	10/12/23 18:43	1

Client Sample ID: SUPE-W-12A-100323

Lab Sample ID: 180-163450-5

Date Collected: 10/03/23 16:56

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 18:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/09/23 18:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/09/23 18:15	1
Benzene	ND		1.0	0.41	ug/L			10/09/23 18:15	1
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 18:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/09/23 18:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 18:15	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/09/23 18:15	1
Naphthalene	ND		1.0	0.43	ug/L			10/09/23 18:15	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/09/23 18:15	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/09/23 18:15	1
o-Xylene	ND		1.0	0.76	ug/L			10/09/23 18:15	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 18:15	1
Toluene	ND		1.0	0.51	ug/L			10/09/23 18:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/09/23 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					10/09/23 18:15	1
4-Bromofluorobenzene (Surr)	94		73 - 120					10/09/23 18:15	1
Dibromofluoromethane (Surr)	104		75 - 123					10/09/23 18:15	1
Toluene-d8 (Surr)	91		80 - 120					10/09/23 18:15	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		10/09/23 14:28	10/11/23 11:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	106		24 - 146				10/09/23 14:28	10/11/23 11:00	1
2-Fluorobiphenyl	107		37 - 120				10/09/23 14:28	10/11/23 11:00	1
2-Fluorophenol (Surr)	55		10 - 120				10/09/23 14:28	10/11/23 11:00	1
Nitrobenzene-d5 (Surr)	88		26 - 120				10/09/23 14:28	10/11/23 11:00	1
Phenol-d5 (Surr)	37		11 - 120				10/09/23 14:28	10/11/23 11:00	1
p-Terphenyl-d14	106		64 - 127				10/09/23 14:28	10/11/23 11:00	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-12A-100323

Lab Sample ID: 180-163450-5

Date Collected: 10/03/23 16:56

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.3	0.16	ug/L		10/09/23 14:29	10/12/23 19:05	1
1,2-Dichlorobenzene	ND		1.3	0.12	ug/L		10/09/23 14:29	10/12/23 19:05	1
1,3-Dichlorobenzene	ND		1.3	0.12	ug/L		10/09/23 14:29	10/12/23 19:05	1
1,4-Dichlorobenzene	ND		1.3	0.076	ug/L		10/09/23 14:29	10/12/23 19:05	1
1-Methylnaphthalene	ND		0.24	0.070	ug/L		10/09/23 14:29	10/12/23 19:05	1
2,3,4,6-Tetrachlorophenol	ND		1.3	0.41	ug/L		10/09/23 14:29	10/12/23 19:05	1
2,3,5,6-Tetrachlorophenol	ND		1.3	0.63	ug/L		10/09/23 14:29	10/12/23 19:05	1
2,4,5-Trichlorophenol	ND		1.3	0.32	ug/L		10/09/23 14:29	10/12/23 19:05	1
2,4,6-Trichlorophenol	ND		1.3	0.28	ug/L		10/09/23 14:29	10/12/23 19:05	1
2,4-Dichlorophenol	ND		0.24	0.064	ug/L		10/09/23 14:29	10/12/23 19:05	1
2,4-Dimethylphenol	ND		1.3	0.21	ug/L		10/09/23 14:29	10/12/23 19:05	1
2,4-Dinitrophenol	ND		13	1.9	ug/L		10/09/23 14:29	10/12/23 19:05	1
2,4-Dinitrotoluene	ND		1.3	0.44	ug/L		10/09/23 14:29	10/12/23 19:05	1
2,6-Dinitrotoluene	ND		1.3	0.22	ug/L		10/09/23 14:29	10/12/23 19:05	1
2-Chloronaphthalene	ND		0.24	0.074	ug/L		10/09/23 14:29	10/12/23 19:05	1
2-Chlorophenol	ND		1.3	0.16	ug/L		10/09/23 14:29	10/12/23 19:05	1
2-Methylnaphthalene	ND		0.24	0.078	ug/L		10/09/23 14:29	10/12/23 19:05	1
2-Methylphenol	ND		1.3	0.38	ug/L		10/09/23 14:29	10/12/23 19:05	1
2-Nitroaniline	ND		6.3	0.69	ug/L		10/09/23 14:29	10/12/23 19:05	1
2-Nitrophenol	ND		1.3	0.24	ug/L		10/09/23 14:29	10/12/23 19:05	1
3,3'-Dichlorobenzidine	ND		1.3	0.73	ug/L		10/09/23 14:29	10/12/23 19:05	1
3-Nitroaniline	ND		6.3	0.55	ug/L		10/09/23 14:29	10/12/23 19:05	1
4,6-Dinitro-2-methylphenol	ND		6.3	1.8	ug/L		10/09/23 14:29	10/12/23 19:05	1
4-Bromophenyl phenyl ether	ND		1.3	0.40	ug/L		10/09/23 14:29	10/12/23 19:05	1
4-Chloro-3-methylphenol	ND		1.3	0.35	ug/L		10/09/23 14:29	10/12/23 19:05	1
4-Chloroaniline	ND		1.3	0.47	ug/L		10/09/23 14:29	10/12/23 19:05	1
4-Chlorophenyl phenyl ether	ND		1.3	0.28	ug/L		10/09/23 14:29	10/12/23 19:05	1
4-Nitroaniline	ND		6.3	0.45	ug/L		10/09/23 14:29	10/12/23 19:05	1
4-Nitrophenol	ND		6.3	1.2	ug/L		10/09/23 14:29	10/12/23 19:05	1
Acenaphthene	ND		0.24	0.081	ug/L		10/09/23 14:29	10/12/23 19:05	1
Acenaphthylene	ND		0.24	0.081	ug/L		10/09/23 14:29	10/12/23 19:05	1
Anthracene	0.11	J	0.24	0.061	ug/L		10/09/23 14:29	10/12/23 19:05	1
Benzo[a]anthracene	ND		0.24	0.094	ug/L		10/09/23 14:29	10/12/23 19:05	1
Benzo[a]pyrene	ND		0.24	0.066	ug/L		10/09/23 14:29	10/12/23 19:05	1
Benzo[b]fluoranthene	ND		0.24	0.12	ug/L		10/09/23 14:29	10/12/23 19:05	1
Benzo[g,h,i]perylene	ND		0.24	0.086	ug/L		10/09/23 14:29	10/12/23 19:05	1
Benzo[k]fluoranthene	ND		0.24	0.11	ug/L		10/09/23 14:29	10/12/23 19:05	1
Benzoic acid	ND		6.3	1.2	ug/L		10/09/23 14:29	10/12/23 19:05	1
Benzyl alcohol	ND		1.3	0.20	ug/L		10/09/23 14:29	10/12/23 19:05	1
Bis(2-chloroethoxy)methane	ND		1.3	0.19	ug/L		10/09/23 14:29	10/12/23 19:05	1
Bis(2-chloroethyl)ether	ND		0.24	0.050	ug/L		10/09/23 14:29	10/12/23 19:05	1
Bis(2-ethylhexyl) phthalate	8.0	J	13	7.8	ug/L		10/09/23 14:29	10/12/23 19:05	1
bis(chloroisopropyl) ether	ND		0.24	0.073	ug/L		10/09/23 14:29	10/12/23 19:05	1
Butyl benzyl phthalate	ND		1.3	0.58	ug/L		10/09/23 14:29	10/12/23 19:05	1
Chrysene	ND		0.24	0.10	ug/L		10/09/23 14:29	10/12/23 19:05	1
Dibenz(a,h)anthracene	ND		0.24	0.090	ug/L		10/09/23 14:29	10/12/23 19:05	1
Dibenzofuran	ND		1.3	0.24	ug/L		10/09/23 14:29	10/12/23 19:05	1
Diethyl phthalate	ND		1.3	0.71	ug/L		10/09/23 14:29	10/12/23 19:05	1
Dimethyl phthalate	ND		1.3	0.25	ug/L		10/09/23 14:29	10/12/23 19:05	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-12A-100323

Lab Sample ID: 180-163450-5

Date Collected: 10/03/23 16:56

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	5.1		1.3	0.93	ug/L		10/09/23 14:29	10/12/23 19:05	1
Di-n-octyl phthalate	ND		1.3	0.86	ug/L		10/09/23 14:29	10/12/23 19:05	1
Fluoranthene	0.14	J	0.24	0.075	ug/L		10/09/23 14:29	10/12/23 19:05	1
Fluorene	ND		0.24	0.086	ug/L		10/09/23 14:29	10/12/23 19:05	1
Hexachlorobenzene	ND		0.24	0.070	ug/L		10/09/23 14:29	10/12/23 19:05	1
Hexachlorobutadiene	ND		0.24	0.086	ug/L		10/09/23 14:29	10/12/23 19:05	1
Hexachlorocyclopentadiene	ND		1.3	0.62	ug/L		10/09/23 14:29	10/12/23 19:05	1
Hexachloroethane	ND		1.3	0.17	ug/L		10/09/23 14:29	10/12/23 19:05	1
Indeno[1,2,3-cd]pyrene	ND		0.24	0.11	ug/L		10/09/23 14:29	10/12/23 19:05	1
Isophorone	ND		1.3	0.24	ug/L		10/09/23 14:29	10/12/23 19:05	1
Methylphenol, 3 & 4	ND		1.3	0.47	ug/L		10/09/23 14:29	10/12/23 19:05	1
Nitrobenzene	ND		2.5	0.63	ug/L		10/09/23 14:29	10/12/23 19:05	1
N-Nitrosodi-n-propylamine	ND		0.24	0.089	ug/L		10/09/23 14:29	10/12/23 19:05	1
N-Nitrosodiphenylamine	ND		1.3	0.15	ug/L		10/09/23 14:29	10/12/23 19:05	1
Phenanthrene	0.22	J	0.24	0.069	ug/L		10/09/23 14:29	10/12/23 19:05	1
Phenol	ND		1.3	0.61	ug/L		10/09/23 14:29	10/12/23 19:05	1
Pyrene	0.075	J	0.24	0.068	ug/L		10/09/23 14:29	10/12/23 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		23 - 128	10/09/23 14:29	10/12/23 19:05	1
2-Fluorobiphenyl	62		20 - 105	10/09/23 14:29	10/12/23 19:05	1
2-Fluorophenol (Surr)	54		20 - 105	10/09/23 14:29	10/12/23 19:05	1
Nitrobenzene-d5 (Surr)	63		20 - 107	10/09/23 14:29	10/12/23 19:05	1
Phenol-d5 (Surr)	55		20 - 106	10/09/23 14:29	10/12/23 19:05	1
Terphenyl-d14 (Surr)	58		22 - 120	10/09/23 14:29	10/12/23 19:05	1

Client Sample ID: SUPE-W-28C-100323

Lab Sample ID: 180-163450-6

Date Collected: 10/03/23 10:33

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L		10/09/23 18:40	10/09/23 18:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L		10/09/23 18:40	10/09/23 18:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L		10/09/23 18:40	10/09/23 18:40	1
Benzene	ND		1.0	0.41	ug/L		10/09/23 18:40	10/09/23 18:40	1
Chloromethane	ND		1.0	0.35	ug/L		10/09/23 18:40	10/09/23 18:40	1
Ethylbenzene	ND		1.0	0.74	ug/L		10/09/23 18:40	10/09/23 18:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L		10/09/23 18:40	10/09/23 18:40	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L		10/09/23 18:40	10/09/23 18:40	1
Naphthalene	ND		1.0	0.43	ug/L		10/09/23 18:40	10/09/23 18:40	1
n-Butylbenzene	ND		1.0	0.64	ug/L		10/09/23 18:40	10/09/23 18:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L		10/09/23 18:40	10/09/23 18:40	1
o-Xylene	ND		1.0	0.76	ug/L		10/09/23 18:40	10/09/23 18:40	1
Styrene	ND		1.0	0.73	ug/L		10/09/23 18:40	10/09/23 18:40	1
Toluene	ND		1.0	0.51	ug/L		10/09/23 18:40	10/09/23 18:40	1
Xylenes, Total	ND		2.0	0.66	ug/L		10/09/23 18:40	10/09/23 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120	10/09/23 18:40	10/09/23 18:40	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-28C-100323

Lab Sample ID: 180-163450-6

Date Collected: 10/03/23 10:33

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		73 - 120		10/09/23 18:40	1
Dibromofluoromethane (Surr)	103		75 - 123		10/09/23 18:40	1
Toluene-d8 (Surr)	91		80 - 120		10/09/23 18:40	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		10/09/23 14:28	10/11/23 11:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		24 - 146	10/09/23 14:28	10/11/23 11:27	1
2-Fluorobiphenyl	97		37 - 120	10/09/23 14:28	10/11/23 11:27	1
2-Fluorophenol (Surr)	52		10 - 120	10/09/23 14:28	10/11/23 11:27	1
Nitrobenzene-d5 (Surr)	84		26 - 120	10/09/23 14:28	10/11/23 11:27	1
Phenol-d5 (Surr)	35		11 - 120	10/09/23 14:28	10/11/23 11:27	1
p-Terphenyl-d14	95		64 - 127	10/09/23 14:28	10/11/23 11:27	1

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.2	0.16	ug/L		10/09/23 14:29	10/12/23 19:26	1
1,2-Dichlorobenzene	ND		1.2	0.11	ug/L		10/09/23 14:29	10/12/23 19:26	1
1,3-Dichlorobenzene	ND		1.2	0.12	ug/L		10/09/23 14:29	10/12/23 19:26	1
1,4-Dichlorobenzene	ND		1.2	0.073	ug/L		10/09/23 14:29	10/12/23 19:26	1
1-Methylnaphthalene	ND		0.23	0.067	ug/L		10/09/23 14:29	10/12/23 19:26	1
2,3,4,6-Tetrachlorophenol	ND		1.2	0.39	ug/L		10/09/23 14:29	10/12/23 19:26	1
2,3,5,6-Tetrachlorophenol	ND		1.2	0.60	ug/L		10/09/23 14:29	10/12/23 19:26	1
2,4,5-Trichlorophenol	ND		1.2	0.30	ug/L		10/09/23 14:29	10/12/23 19:26	1
2,4,6-Trichlorophenol	ND		1.2	0.27	ug/L		10/09/23 14:29	10/12/23 19:26	1
2,4-Dichlorophenol	ND		0.23	0.061	ug/L		10/09/23 14:29	10/12/23 19:26	1
2,4-Dimethylphenol	ND		1.2	0.20	ug/L		10/09/23 14:29	10/12/23 19:26	1
2,4-Dinitrophenol	ND		12	1.8	ug/L		10/09/23 14:29	10/12/23 19:26	1
2,4-Dinitrotoluene	ND		1.2	0.42	ug/L		10/09/23 14:29	10/12/23 19:26	1
2,6-Dinitrotoluene	ND		1.2	0.21	ug/L		10/09/23 14:29	10/12/23 19:26	1
2-Chloronaphthalene	ND		0.23	0.070	ug/L		10/09/23 14:29	10/12/23 19:26	1
2-Chlorophenol	ND		1.2	0.15	ug/L		10/09/23 14:29	10/12/23 19:26	1
2-Methylnaphthalene	0.098	J	0.23	0.074	ug/L		10/09/23 14:29	10/12/23 19:26	1
2-Methylphenol	ND		1.2	0.36	ug/L		10/09/23 14:29	10/12/23 19:26	1
2-Nitroaniline	ND		6.0	0.65	ug/L		10/09/23 14:29	10/12/23 19:26	1
2-Nitrophenol	ND		1.2	0.23	ug/L		10/09/23 14:29	10/12/23 19:26	1
3,3'-Dichlorobenzidine	ND		1.2	0.69	ug/L		10/09/23 14:29	10/12/23 19:26	1
3-Nitroaniline	ND		6.0	0.52	ug/L		10/09/23 14:29	10/12/23 19:26	1
4,6-Dinitro-2-methylphenol	ND		6.0	1.8	ug/L		10/09/23 14:29	10/12/23 19:26	1
4-Bromophenyl phenyl ether	ND		1.2	0.38	ug/L		10/09/23 14:29	10/12/23 19:26	1
4-Chloro-3-methylphenol	ND		1.2	0.33	ug/L		10/09/23 14:29	10/12/23 19:26	1
4-Chloroaniline	ND		1.2	0.45	ug/L		10/09/23 14:29	10/12/23 19:26	1
4-Chlorophenyl phenyl ether	ND		1.2	0.26	ug/L		10/09/23 14:29	10/12/23 19:26	1
4-Nitroaniline	ND		6.0	0.43	ug/L		10/09/23 14:29	10/12/23 19:26	1
4-Nitrophenol	ND		6.0	1.1	ug/L		10/09/23 14:29	10/12/23 19:26	1
Acenaphthene	ND		0.23	0.077	ug/L		10/09/23 14:29	10/12/23 19:26	1
Acenaphthylene	ND		0.23	0.077	ug/L		10/09/23 14:29	10/12/23 19:26	1
Anthracene	ND		0.23	0.058	ug/L		10/09/23 14:29	10/12/23 19:26	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-28C-100323

Lab Sample ID: 180-163450-6

Date Collected: 10/03/23 10:33

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.23	0.089	ug/L		10/09/23 14:29	10/12/23 19:26	1
Benzo[a]pyrene	ND		0.23	0.063	ug/L		10/09/23 14:29	10/12/23 19:26	1
Benzo[b]fluoranthene	ND		0.23	0.12	ug/L		10/09/23 14:29	10/12/23 19:26	1
Benzo[g,h,i]perylene	ND		0.23	0.082	ug/L		10/09/23 14:29	10/12/23 19:26	1
Benzo[k]fluoranthene	ND		0.23	0.10	ug/L		10/09/23 14:29	10/12/23 19:26	1
Benzoic acid	ND		6.0	1.1	ug/L		10/09/23 14:29	10/12/23 19:26	1
Benzyl alcohol	ND		1.2	0.19	ug/L		10/09/23 14:29	10/12/23 19:26	1
Bis(2-chloroethoxy)methane	ND		1.2	0.18	ug/L		10/09/23 14:29	10/12/23 19:26	1
Bis(2-chloroethyl)ether	ND		0.23	0.048	ug/L		10/09/23 14:29	10/12/23 19:26	1
Bis(2-ethylhexyl) phthalate	ND		12	7.4	ug/L		10/09/23 14:29	10/12/23 19:26	1
bis(chloroisopropyl) ether	ND		0.23	0.069	ug/L		10/09/23 14:29	10/12/23 19:26	1
Butyl benzyl phthalate	ND		1.2	0.55	ug/L		10/09/23 14:29	10/12/23 19:26	1
Chrysene	ND		0.23	0.096	ug/L		10/09/23 14:29	10/12/23 19:26	1
Dibenz(a,h)anthracene	ND		0.23	0.086	ug/L		10/09/23 14:29	10/12/23 19:26	1
Dibenzofuran	ND		1.2	0.23	ug/L		10/09/23 14:29	10/12/23 19:26	1
Diethyl phthalate	ND		1.2	0.68	ug/L		10/09/23 14:29	10/12/23 19:26	1
Dimethyl phthalate	ND		1.2	0.24	ug/L		10/09/23 14:29	10/12/23 19:26	1
Di-n-butyl phthalate	6.0		1.2	0.88	ug/L		10/09/23 14:29	10/12/23 19:26	1
Di-n-octyl phthalate	ND		1.2	0.82	ug/L		10/09/23 14:29	10/12/23 19:26	1
Fluoranthene	ND		0.23	0.071	ug/L		10/09/23 14:29	10/12/23 19:26	1
Fluorene	ND		0.23	0.082	ug/L		10/09/23 14:29	10/12/23 19:26	1
Hexachlorobenzene	ND		0.23	0.067	ug/L		10/09/23 14:29	10/12/23 19:26	1
Hexachlorobutadiene	ND		0.23	0.082	ug/L		10/09/23 14:29	10/12/23 19:26	1
Hexachlorocyclopentadiene	ND		1.2	0.59	ug/L		10/09/23 14:29	10/12/23 19:26	1
Hexachloroethane	ND		1.2	0.16	ug/L		10/09/23 14:29	10/12/23 19:26	1
Indeno[1,2,3-cd]pyrene	ND		0.23	0.10	ug/L		10/09/23 14:29	10/12/23 19:26	1
Isophorone	ND		1.2	0.22	ug/L		10/09/23 14:29	10/12/23 19:26	1
Methylphenol, 3 & 4	ND		1.2	0.44	ug/L		10/09/23 14:29	10/12/23 19:26	1
Nitrobenzene	ND		2.4	0.60	ug/L		10/09/23 14:29	10/12/23 19:26	1
N-Nitrosodi-n-propylamine	ND		0.23	0.085	ug/L		10/09/23 14:29	10/12/23 19:26	1
N-Nitrosodiphenylamine	ND		1.2	0.14	ug/L		10/09/23 14:29	10/12/23 19:26	1
Phenanthrene	ND		0.23	0.065	ug/L		10/09/23 14:29	10/12/23 19:26	1
Phenol	ND		1.2	0.58	ug/L		10/09/23 14:29	10/12/23 19:26	1
Pyrene	ND		0.23	0.064	ug/L		10/09/23 14:29	10/12/23 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		23 - 128	10/09/23 14:29	10/12/23 19:26	1
2-Fluorobiphenyl	69		20 - 105	10/09/23 14:29	10/12/23 19:26	1
2-Fluorophenol (Surr)	51		20 - 105	10/09/23 14:29	10/12/23 19:26	1
Nitrobenzene-d5 (Surr)	72		20 - 107	10/09/23 14:29	10/12/23 19:26	1
Phenol-d5 (Surr)	60		20 - 106	10/09/23 14:29	10/12/23 19:26	1
Terphenyl-d14 (Surr)	69		22 - 120	10/09/23 14:29	10/12/23 19:26	1

Client Sample ID: SUPE-W-18D-100323

Lab Sample ID: 180-163450-7

Date Collected: 10/03/23 11:43

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		10/09/23 14:28	10/11/23 11:54	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-18D-100323

Lab Sample ID: 180-163450-7

Date Collected: 10/03/23 11:43

Matrix: Water

Date Received: 10/05/23 09:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	124		24 - 146	10/09/23 14:28	10/11/23 11:54	1
2-Fluorobiphenyl	105		37 - 120	10/09/23 14:28	10/11/23 11:54	1
2-Fluorophenol (Surr)	55		10 - 120	10/09/23 14:28	10/11/23 11:54	1
Nitrobenzene-d5 (Surr)	86		26 - 120	10/09/23 14:28	10/11/23 11:54	1
Phenol-d5 (Surr)	36		11 - 120	10/09/23 14:28	10/11/23 11:54	1
p-Terphenyl-d14	99		64 - 127	10/09/23 14:28	10/11/23 11:54	1

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.2	0.16	ug/L		10/09/23 14:29	10/12/23 19:47	1
1,2-Dichlorobenzene	ND		1.2	0.11	ug/L		10/09/23 14:29	10/12/23 19:47	1
1,3-Dichlorobenzene	ND		1.2	0.12	ug/L		10/09/23 14:29	10/12/23 19:47	1
1,4-Dichlorobenzene	ND		1.2	0.073	ug/L		10/09/23 14:29	10/12/23 19:47	1
1-Methylnaphthalene	ND		0.23	0.067	ug/L		10/09/23 14:29	10/12/23 19:47	1
2,3,4,6-Tetrachlorophenol	ND		1.2	0.39	ug/L		10/09/23 14:29	10/12/23 19:47	1
2,3,5,6-Tetrachlorophenol	ND		1.2	0.60	ug/L		10/09/23 14:29	10/12/23 19:47	1
2,4,5-Trichlorophenol	ND		1.2	0.30	ug/L		10/09/23 14:29	10/12/23 19:47	1
2,4,6-Trichlorophenol	ND		1.2	0.27	ug/L		10/09/23 14:29	10/12/23 19:47	1
2,4-Dichlorophenol	ND		0.23	0.061	ug/L		10/09/23 14:29	10/12/23 19:47	1
2,4-Dimethylphenol	ND		1.2	0.20	ug/L		10/09/23 14:29	10/12/23 19:47	1
2,4-Dinitrophenol	ND		12	1.8	ug/L		10/09/23 14:29	10/12/23 19:47	1
2,4-Dinitrotoluene	ND		1.2	0.42	ug/L		10/09/23 14:29	10/12/23 19:47	1
2,6-Dinitrotoluene	ND		1.2	0.21	ug/L		10/09/23 14:29	10/12/23 19:47	1
2-Chloronaphthalene	ND		0.23	0.070	ug/L		10/09/23 14:29	10/12/23 19:47	1
2-Chlorophenol	ND		1.2	0.15	ug/L		10/09/23 14:29	10/12/23 19:47	1
2-Methylnaphthalene	0.12	J	0.23	0.074	ug/L		10/09/23 14:29	10/12/23 19:47	1
2-Methylphenol	ND		1.2	0.36	ug/L		10/09/23 14:29	10/12/23 19:47	1
2-Nitroaniline	ND		6.0	0.65	ug/L		10/09/23 14:29	10/12/23 19:47	1
2-Nitrophenol	ND		1.2	0.23	ug/L		10/09/23 14:29	10/12/23 19:47	1
3,3'-Dichlorobenzidine	ND		1.2	0.69	ug/L		10/09/23 14:29	10/12/23 19:47	1
3-Nitroaniline	ND		6.0	0.52	ug/L		10/09/23 14:29	10/12/23 19:47	1
4,6-Dinitro-2-methylphenol	ND		6.0	1.8	ug/L		10/09/23 14:29	10/12/23 19:47	1
4-Bromophenyl phenyl ether	ND		1.2	0.38	ug/L		10/09/23 14:29	10/12/23 19:47	1
4-Chloro-3-methylphenol	ND		1.2	0.33	ug/L		10/09/23 14:29	10/12/23 19:47	1
4-Chloroaniline	ND		1.2	0.45	ug/L		10/09/23 14:29	10/12/23 19:47	1
4-Chlorophenyl phenyl ether	ND		1.2	0.26	ug/L		10/09/23 14:29	10/12/23 19:47	1
4-Nitroaniline	ND		6.0	0.43	ug/L		10/09/23 14:29	10/12/23 19:47	1
4-Nitrophenol	ND		6.0	1.1	ug/L		10/09/23 14:29	10/12/23 19:47	1
Acenaphthene	0.077	J	0.23	0.077	ug/L		10/09/23 14:29	10/12/23 19:47	1
Acenaphthylene	ND		0.23	0.077	ug/L		10/09/23 14:29	10/12/23 19:47	1
Anthracene	ND		0.23	0.058	ug/L		10/09/23 14:29	10/12/23 19:47	1
Benzo[a]anthracene	ND		0.23	0.089	ug/L		10/09/23 14:29	10/12/23 19:47	1
Benzo[a]pyrene	ND		0.23	0.063	ug/L		10/09/23 14:29	10/12/23 19:47	1
Benzo[b]fluoranthene	ND		0.23	0.12	ug/L		10/09/23 14:29	10/12/23 19:47	1
Benzo[g,h,i]perylene	ND		0.23	0.082	ug/L		10/09/23 14:29	10/12/23 19:47	1
Benzo[k]fluoranthene	ND		0.23	0.10	ug/L		10/09/23 14:29	10/12/23 19:47	1
Benzoic acid	ND		6.0	1.1	ug/L		10/09/23 14:29	10/12/23 19:47	1
Benzyl alcohol	ND		1.2	0.19	ug/L		10/09/23 14:29	10/12/23 19:47	1
Bis(2-chloroethoxy)methane	ND		1.2	0.18	ug/L		10/09/23 14:29	10/12/23 19:47	1
Bis(2-chloroethyl)ether	ND		0.23	0.048	ug/L		10/09/23 14:29	10/12/23 19:47	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-18D-100323

Lab Sample ID: 180-163450-7

Date Collected: 10/03/23 11:43

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	12		12	7.4	ug/L		10/09/23 14:29	10/12/23 19:47	1
bis(chloroisopropyl) ether	ND		0.23	0.069	ug/L		10/09/23 14:29	10/12/23 19:47	1
Butyl benzyl phthalate	ND		1.2	0.55	ug/L		10/09/23 14:29	10/12/23 19:47	1
Chrysene	ND		0.23	0.096	ug/L		10/09/23 14:29	10/12/23 19:47	1
Dibenz(a,h)anthracene	ND		0.23	0.086	ug/L		10/09/23 14:29	10/12/23 19:47	1
Dibenzofuran	ND		1.2	0.23	ug/L		10/09/23 14:29	10/12/23 19:47	1
Diethyl phthalate	ND		1.2	0.68	ug/L		10/09/23 14:29	10/12/23 19:47	1
Dimethyl phthalate	ND		1.2	0.24	ug/L		10/09/23 14:29	10/12/23 19:47	1
Di-n-butyl phthalate	5.8		1.2	0.88	ug/L		10/09/23 14:29	10/12/23 19:47	1
Di-n-octyl phthalate	ND		1.2	0.82	ug/L		10/09/23 14:29	10/12/23 19:47	1
Fluoranthene	ND		0.23	0.071	ug/L		10/09/23 14:29	10/12/23 19:47	1
Fluorene	ND		0.23	0.082	ug/L		10/09/23 14:29	10/12/23 19:47	1
Hexachlorobenzene	ND		0.23	0.067	ug/L		10/09/23 14:29	10/12/23 19:47	1
Hexachlorobutadiene	ND		0.23	0.082	ug/L		10/09/23 14:29	10/12/23 19:47	1
Hexachlorocyclopentadiene	ND		1.2	0.59	ug/L		10/09/23 14:29	10/12/23 19:47	1
Hexachloroethane	ND		1.2	0.16	ug/L		10/09/23 14:29	10/12/23 19:47	1
Indeno[1,2,3-cd]pyrene	ND		0.23	0.10	ug/L		10/09/23 14:29	10/12/23 19:47	1
Isophorone	ND		1.2	0.22	ug/L		10/09/23 14:29	10/12/23 19:47	1
Methylphenol, 3 & 4	ND		1.2	0.44	ug/L		10/09/23 14:29	10/12/23 19:47	1
Naphthalene	0.37		0.23	0.070	ug/L		10/09/23 14:29	10/12/23 19:47	1
Nitrobenzene	ND		2.4	0.60	ug/L		10/09/23 14:29	10/12/23 19:47	1
N-Nitrosodi-n-propylamine	ND		0.23	0.085	ug/L		10/09/23 14:29	10/12/23 19:47	1
N-Nitrosodiphenylamine	ND		1.2	0.14	ug/L		10/09/23 14:29	10/12/23 19:47	1
Phenanthrene	0.10 J		0.23	0.065	ug/L		10/09/23 14:29	10/12/23 19:47	1
Phenol	ND		1.2	0.58	ug/L		10/09/23 14:29	10/12/23 19:47	1
Pyrene	ND		0.23	0.064	ug/L		10/09/23 14:29	10/12/23 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		23 - 128	10/09/23 14:29	10/12/23 19:47	1
2-Fluorobiphenyl	67		20 - 105	10/09/23 14:29	10/12/23 19:47	1
2-Fluorophenol (Surr)	62		20 - 105	10/09/23 14:29	10/12/23 19:47	1
Nitrobenzene-d5 (Surr)	71		20 - 107	10/09/23 14:29	10/12/23 19:47	1
Phenol-d5 (Surr)	63		20 - 106	10/09/23 14:29	10/12/23 19:47	1
Terphenyl-d14 (Surr)	67		22 - 120	10/09/23 14:29	10/12/23 19:47	1

Client Sample ID: SUPE-M-99A-100323

Lab Sample ID: 180-163450-8

Date Collected: 10/03/23 12:00

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 19:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/09/23 19:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/09/23 19:04	1
Benzene	ND		1.0	0.41	ug/L			10/09/23 19:04	1
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 19:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/09/23 19:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 19:04	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/09/23 19:04	1
Naphthalene	ND		1.0	0.43	ug/L			10/09/23 19:04	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-M-99A-100323

Lab Sample ID: 180-163450-8

Date Collected: 10/03/23 12:00

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0	0.64	ug/L			10/09/23 19:04	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/09/23 19:04	1
o-Xylene	ND		1.0	0.76	ug/L			10/09/23 19:04	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 19:04	1
Toluene	ND		1.0	0.51	ug/L			10/09/23 19:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/09/23 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		10/09/23 19:04	1
4-Bromofluorobenzene (Surr)	100		73 - 120		10/09/23 19:04	1
Dibromofluoromethane (Surr)	105		75 - 123		10/09/23 19:04	1
Toluene-d8 (Surr)	94		80 - 120		10/09/23 19:04	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		10/09/23 14:28	10/11/23 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	119		24 - 146	10/09/23 14:28	10/11/23 12:21	1
2-Fluorobiphenyl	105		37 - 120	10/09/23 14:28	10/11/23 12:21	1
2-Fluorophenol (Surr)	56		10 - 120	10/09/23 14:28	10/11/23 12:21	1
Nitrobenzene-d5 (Surr)	89		26 - 120	10/09/23 14:28	10/11/23 12:21	1
Phenol-d5 (Surr)	38		11 - 120	10/09/23 14:28	10/11/23 12:21	1
p-Terphenyl-d14	108		64 - 127	10/09/23 14:28	10/11/23 12:21	1

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.2	0.16	ug/L		10/09/23 14:29	10/12/23 20:09	1
1,2-Dichlorobenzene	ND		1.2	0.11	ug/L		10/09/23 14:29	10/12/23 20:09	1
1,3-Dichlorobenzene	ND		1.2	0.12	ug/L		10/09/23 14:29	10/12/23 20:09	1
1,4-Dichlorobenzene	ND		1.2	0.073	ug/L		10/09/23 14:29	10/12/23 20:09	1
1-Methylnaphthalene	0.084	J	0.23	0.067	ug/L		10/09/23 14:29	10/12/23 20:09	1
2,3,4,6-Tetrachlorophenol	ND		1.2	0.39	ug/L		10/09/23 14:29	10/12/23 20:09	1
2,3,5,6-Tetrachlorophenol	ND		1.2	0.60	ug/L		10/09/23 14:29	10/12/23 20:09	1
2,4,5-Trichlorophenol	ND		1.2	0.30	ug/L		10/09/23 14:29	10/12/23 20:09	1
2,4,6-Trichlorophenol	ND		1.2	0.27	ug/L		10/09/23 14:29	10/12/23 20:09	1
2,4-Dichlorophenol	ND		0.23	0.061	ug/L		10/09/23 14:29	10/12/23 20:09	1
2,4-Dimethylphenol	ND		1.2	0.20	ug/L		10/09/23 14:29	10/12/23 20:09	1
2,4-Dinitrophenol	ND		12	1.8	ug/L		10/09/23 14:29	10/12/23 20:09	1
2,4-Dinitrotoluene	ND		1.2	0.42	ug/L		10/09/23 14:29	10/12/23 20:09	1
2,6-Dinitrotoluene	ND		1.2	0.21	ug/L		10/09/23 14:29	10/12/23 20:09	1
2-Chloronaphthalene	ND		0.23	0.070	ug/L		10/09/23 14:29	10/12/23 20:09	1
2-Chlorophenol	ND		1.2	0.15	ug/L		10/09/23 14:29	10/12/23 20:09	1
2-Methylnaphthalene	0.22	J	0.23	0.074	ug/L		10/09/23 14:29	10/12/23 20:09	1
2-Methylphenol	ND		1.2	0.36	ug/L		10/09/23 14:29	10/12/23 20:09	1
2-Nitroaniline	ND		6.0	0.65	ug/L		10/09/23 14:29	10/12/23 20:09	1
2-Nitrophenol	ND		1.2	0.23	ug/L		10/09/23 14:29	10/12/23 20:09	1
3,3'-Dichlorobenzidine	ND		1.2	0.69	ug/L		10/09/23 14:29	10/12/23 20:09	1
3-Nitroaniline	ND		6.0	0.52	ug/L		10/09/23 14:29	10/12/23 20:09	1
4,6-Dinitro-2-methylphenol	ND		6.0	1.8	ug/L		10/09/23 14:29	10/12/23 20:09	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-M-99A-100323

Lab Sample ID: 180-163450-8

Date Collected: 10/03/23 12:00

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		1.2	0.38	ug/L		10/09/23 14:29	10/12/23 20:09	1
4-Chloro-3-methylphenol	ND		1.2	0.33	ug/L		10/09/23 14:29	10/12/23 20:09	1
4-Chloroaniline	ND		1.2	0.45	ug/L		10/09/23 14:29	10/12/23 20:09	1
4-Chlorophenyl phenyl ether	ND		1.2	0.26	ug/L		10/09/23 14:29	10/12/23 20:09	1
4-Nitroaniline	ND		6.0	0.43	ug/L		10/09/23 14:29	10/12/23 20:09	1
4-Nitrophenol	ND		6.0	1.1	ug/L		10/09/23 14:29	10/12/23 20:09	1
Acenaphthene	0.13	J	0.23	0.077	ug/L		10/09/23 14:29	10/12/23 20:09	1
Acenaphthylene	ND		0.23	0.077	ug/L		10/09/23 14:29	10/12/23 20:09	1
Anthracene	0.075	J	0.23	0.058	ug/L		10/09/23 14:29	10/12/23 20:09	1
Benzo[a]anthracene	ND		0.23	0.089	ug/L		10/09/23 14:29	10/12/23 20:09	1
Benzo[a]pyrene	ND		0.23	0.063	ug/L		10/09/23 14:29	10/12/23 20:09	1
Benzo[b]fluoranthene	ND		0.23	0.12	ug/L		10/09/23 14:29	10/12/23 20:09	1
Benzo[g,h,i]perylene	ND		0.23	0.082	ug/L		10/09/23 14:29	10/12/23 20:09	1
Benzo[k]fluoranthene	ND		0.23	0.10	ug/L		10/09/23 14:29	10/12/23 20:09	1
Benzoic acid	ND		6.0	1.1	ug/L		10/09/23 14:29	10/12/23 20:09	1
Benzyl alcohol	ND		1.2	0.19	ug/L		10/09/23 14:29	10/12/23 20:09	1
Bis(2-chloroethoxy)methane	ND		1.2	0.18	ug/L		10/09/23 14:29	10/12/23 20:09	1
Bis(2-chloroethyl)ether	ND		0.23	0.048	ug/L		10/09/23 14:29	10/12/23 20:09	1
Bis(2-ethylhexyl) phthalate	11	J	12	7.4	ug/L		10/09/23 14:29	10/12/23 20:09	1
bis(chloroisopropyl) ether	ND		0.23	0.069	ug/L		10/09/23 14:29	10/12/23 20:09	1
Butyl benzyl phthalate	0.60	J	1.2	0.55	ug/L		10/09/23 14:29	10/12/23 20:09	1
Chrysene	ND		0.23	0.096	ug/L		10/09/23 14:29	10/12/23 20:09	1
Dibenz(a,h)anthracene	ND		0.23	0.086	ug/L		10/09/23 14:29	10/12/23 20:09	1
Dibenzofuran	ND		1.2	0.23	ug/L		10/09/23 14:29	10/12/23 20:09	1
Diethyl phthalate	ND		1.2	0.68	ug/L		10/09/23 14:29	10/12/23 20:09	1
Dimethyl phthalate	ND		1.2	0.24	ug/L		10/09/23 14:29	10/12/23 20:09	1
Di-n-butyl phthalate	5.1		1.2	0.88	ug/L		10/09/23 14:29	10/12/23 20:09	1
Di-n-octyl phthalate	ND		1.2	0.82	ug/L		10/09/23 14:29	10/12/23 20:09	1
Fluoranthene	0.12	J	0.23	0.071	ug/L		10/09/23 14:29	10/12/23 20:09	1
Fluorene	0.090	J	0.23	0.082	ug/L		10/09/23 14:29	10/12/23 20:09	1
Hexachlorobenzene	ND		0.23	0.067	ug/L		10/09/23 14:29	10/12/23 20:09	1
Hexachlorobutadiene	ND		0.23	0.082	ug/L		10/09/23 14:29	10/12/23 20:09	1
Hexachlorocyclopentadiene	ND		1.2	0.59	ug/L		10/09/23 14:29	10/12/23 20:09	1
Hexachloroethane	ND		1.2	0.16	ug/L		10/09/23 14:29	10/12/23 20:09	1
Indeno[1,2,3-cd]pyrene	ND		0.23	0.10	ug/L		10/09/23 14:29	10/12/23 20:09	1
Isophorone	ND		1.2	0.22	ug/L		10/09/23 14:29	10/12/23 20:09	1
Methylphenol, 3 & 4	ND		1.2	0.44	ug/L		10/09/23 14:29	10/12/23 20:09	1
Nitrobenzene	ND		2.4	0.60	ug/L		10/09/23 14:29	10/12/23 20:09	1
N-Nitrosodi-n-propylamine	ND		0.23	0.085	ug/L		10/09/23 14:29	10/12/23 20:09	1
N-Nitrosodiphenylamine	ND		1.2	0.14	ug/L		10/09/23 14:29	10/12/23 20:09	1
Phenanthrene	0.18	J	0.23	0.065	ug/L		10/09/23 14:29	10/12/23 20:09	1
Phenol	ND		1.2	0.58	ug/L		10/09/23 14:29	10/12/23 20:09	1
Pyrene	0.076	J	0.23	0.064	ug/L		10/09/23 14:29	10/12/23 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		23 - 128	10/09/23 14:29	10/12/23 20:09	1
2-Fluorobiphenyl	73		20 - 105	10/09/23 14:29	10/12/23 20:09	1
2-Fluorophenol (Surr)	61		20 - 105	10/09/23 14:29	10/12/23 20:09	1
Nitrobenzene-d5 (Surr)	75		20 - 107	10/09/23 14:29	10/12/23 20:09	1
Phenol-d5 (Surr)	65		20 - 106	10/09/23 14:29	10/12/23 20:09	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-M-99A-100323

Lab Sample ID: 180-163450-8

Date Collected: 10/03/23 12:00

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	64		22 - 120	10/09/23 14:29	10/12/23 20:09	1

Client Sample ID: SUPE-TB-01-100323

Lab Sample ID: 180-163450-9

Date Collected: 10/03/23 12:00

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 19:28	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/09/23 19:28	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/09/23 19:28	1
Benzene	ND		1.0	0.41	ug/L			10/09/23 19:28	1
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 19:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/09/23 19:28	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 19:28	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/09/23 19:28	1
Naphthalene	ND		1.0	0.43	ug/L			10/09/23 19:28	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/09/23 19:28	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/09/23 19:28	1
o-Xylene	ND		1.0	0.76	ug/L			10/09/23 19:28	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 19:28	1
Toluene	ND		1.0	0.51	ug/L			10/09/23 19:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/09/23 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		10/09/23 19:28	1
4-Bromofluorobenzene (Surr)	93		73 - 120		10/09/23 19:28	1
Dibromofluoromethane (Surr)	105		75 - 123		10/09/23 19:28	1
Toluene-d8 (Surr)	92		80 - 120		10/09/23 19:28	1

Client Sample ID: SUPE-W-12CR-100323

Lab Sample ID: 180-163450-10

Date Collected: 10/03/23 13:32

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 19:53	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/09/23 19:53	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/09/23 19:53	1
Benzene	ND		1.0	0.41	ug/L			10/09/23 19:53	1
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 19:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/09/23 19:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 19:53	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/09/23 19:53	1
Naphthalene	ND		1.0	0.43	ug/L			10/09/23 19:53	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/09/23 19:53	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/09/23 19:53	1
o-Xylene	ND		1.0	0.76	ug/L			10/09/23 19:53	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 19:53	1
Toluene	ND		1.0	0.51	ug/L			10/09/23 19:53	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-12CR-100323

Lab Sample ID: 180-163450-10

Date Collected: 10/03/23 13:32

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 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			10/09/23 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120				10/09/23 19:53	10/09/23 19:53	1
4-Bromofluorobenzene (Surr)	92		73 - 120				10/09/23 19:53	10/09/23 19:53	1
Dibromofluoromethane (Surr)	103		75 - 123				10/09/23 19:53	10/09/23 19:53	1
Toluene-d8 (Surr)	92		80 - 120				10/09/23 19:53	10/09/23 19:53	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.96	0.33	ug/L		10/09/23 14:28	10/11/23 12:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	122		24 - 146				10/09/23 14:28	10/11/23 12:47	1
2-Fluorobiphenyl	102		37 - 120				10/09/23 14:28	10/11/23 12:47	1
2-Fluorophenol (Surr)	57		10 - 120				10/09/23 14:28	10/11/23 12:47	1
Nitrobenzene-d5 (Surr)	93		26 - 120				10/09/23 14:28	10/11/23 12:47	1
Phenol-d5 (Surr)	39		11 - 120				10/09/23 14:28	10/11/23 12:47	1
p-Terphenyl-d14	108		64 - 127				10/09/23 14:28	10/11/23 12:47	1

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	F1	1.1	0.15	ug/L		10/09/23 14:41	10/16/23 14:05	1
1,2-Dichlorobenzene	ND	F1	1.1	0.11	ug/L		10/09/23 14:41	10/16/23 14:05	1
1,3-Dichlorobenzene	ND	F1	1.1	0.11	ug/L		10/09/23 14:41	10/16/23 14:05	1
1,4-Dichlorobenzene	ND	F1	1.1	0.069	ug/L		10/09/23 14:41	10/16/23 14:05	1
1-Methylnaphthalene	ND	F1	0.22	0.064	ug/L		10/09/23 14:41	10/16/23 14:05	1
2,3,4,6-Tetrachlorophenol	ND	F1	1.1	0.37	ug/L		10/09/23 14:41	10/16/23 14:05	1
2,3,5,6-Tetrachlorophenol	ND		1.1	0.58	ug/L		10/09/23 14:41	10/16/23 14:05	1
2,4,5-Trichlorophenol	ND	F1	1.1	0.29	ug/L		10/09/23 14:41	10/16/23 14:05	1
2,4,6-Trichlorophenol	ND	F1	1.1	0.25	ug/L		10/09/23 14:41	10/16/23 14:05	1
2,4-Dichlorophenol	ND	F1	0.22	0.058	ug/L		10/09/23 14:41	10/16/23 14:05	1
2,4-Dimethylphenol	ND	F1	1.1	0.19	ug/L		10/09/23 14:41	10/16/23 14:05	1
2,4-Dinitrophenol	ND	F1	11	1.7	ug/L		10/09/23 14:41	10/16/23 14:05	1
2,4-Dinitrotoluene	ND	F1	1.1	0.40	ug/L		10/09/23 14:41	10/16/23 14:05	1
2,6-Dinitrotoluene	ND	F1	1.1	0.20	ug/L		10/09/23 14:41	10/16/23 14:05	1
2-Chloronaphthalene	ND	F1	0.22	0.067	ug/L		10/09/23 14:41	10/16/23 14:05	1
2-Chlorophenol	ND	F1	1.1	0.15	ug/L		10/09/23 14:41	10/16/23 14:05	1
2-Methylnaphthalene	ND	F1	0.22	0.070	ug/L		10/09/23 14:41	10/16/23 14:05	1
2-Methylphenol	ND	F1	1.1	0.34	ug/L		10/09/23 14:41	10/16/23 14:05	1
2-Nitroaniline	ND	F1	5.7	0.62	ug/L		10/09/23 14:41	10/16/23 14:05	1
2-Nitrophenol	ND	F1	1.1	0.22	ug/L		10/09/23 14:41	10/16/23 14:05	1
3,3'-Dichlorobenzidine	ND	F1	1.1	0.66	ug/L		10/09/23 14:41	10/16/23 14:05	1
3-Nitroaniline	ND	F1	5.7	0.50	ug/L		10/09/23 14:41	10/16/23 14:05	1
4,6-Dinitro-2-methylphenol	ND		5.7	1.7	ug/L		10/09/23 14:41	10/16/23 14:05	1
4-Bromophenyl phenyl ether	ND	F1	1.1	0.36	ug/L		10/09/23 14:41	10/16/23 14:05	1
4-Chloro-3-methylphenol	ND	F1	1.1	0.32	ug/L		10/09/23 14:41	10/16/23 14:05	1
4-Chloroaniline	ND	F1	1.1	0.43	ug/L		10/09/23 14:41	10/16/23 14:05	1
4-Chlorophenyl phenyl ether	ND	F1	1.1	0.25	ug/L		10/09/23 14:41	10/16/23 14:05	1
4-Nitroaniline	ND	F1	5.7	0.41	ug/L		10/09/23 14:41	10/16/23 14:05	1

Eurofins Pittsburgh

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-12CR-100323

Lab Sample ID: 180-163450-10

Date Collected: 10/03/23 13:32

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		5.7	1.1	ug/L		10/09/23 14:41	10/16/23 14:05	1
Acenaphthene	ND	F1	0.22	0.074	ug/L		10/09/23 14:41	10/16/23 14:05	1
Acenaphthylene	ND	F1	0.22	0.074	ug/L		10/09/23 14:41	10/16/23 14:05	1
Anthracene	ND	F1	0.22	0.056	ug/L		10/09/23 14:41	10/16/23 14:05	1
Benzo[a]anthracene	ND	F1	0.22	0.085	ug/L		10/09/23 14:41	10/16/23 14:05	1
Benzo[a]pyrene	ND	F1	0.22	0.060	ug/L		10/09/23 14:41	10/16/23 14:05	1
Benzo[b]fluoranthene	ND	F1	0.22	0.11	ug/L		10/09/23 14:41	10/16/23 14:05	1
Benzo[g,h,i]perylene	ND	F1	0.22	0.078	ug/L		10/09/23 14:41	10/16/23 14:05	1
Benzo[k]fluoranthene	ND	F1	0.22	0.10	ug/L		10/09/23 14:41	10/16/23 14:05	1
Benzoic acid	ND		5.7	1.0	ug/L		10/09/23 14:41	10/16/23 14:05	1
Benzyl alcohol	ND		1.1	0.19	ug/L		10/09/23 14:41	10/16/23 14:05	1
Bis(2-chloroethoxy)methane	ND	F1	1.1	0.17	ug/L		10/09/23 14:41	10/16/23 14:05	1
Bis(2-chloroethyl)ether	ND	F1	0.22	0.045	ug/L		10/09/23 14:41	10/16/23 14:05	1
Bis(2-ethylhexyl) phthalate	ND		11	7.1	ug/L		10/09/23 14:41	10/16/23 14:05	1
bis(chloroisopropyl) ether	ND		0.22	0.066	ug/L		10/09/23 14:41	10/16/23 14:05	1
Butyl benzyl phthalate	ND	F1	1.1	0.53	ug/L		10/09/23 14:41	10/16/23 14:05	1
Chrysene	ND	F1	0.22	0.092	ug/L		10/09/23 14:41	10/16/23 14:05	1
Dibenz(a,h)anthracene	ND	F1	0.22	0.082	ug/L		10/09/23 14:41	10/16/23 14:05	1
Dibenzofuran	ND	F1	1.1	0.22	ug/L		10/09/23 14:41	10/16/23 14:05	1
Diethyl phthalate	ND	F1	1.1	0.64	ug/L		10/09/23 14:41	10/16/23 14:05	1
Dimethyl phthalate	ND	F1	1.1	0.23	ug/L		10/09/23 14:41	10/16/23 14:05	1
Di-n-butyl phthalate	1.5	F1	1.1	0.84	ug/L		10/09/23 14:41	10/16/23 14:05	1
Di-n-octyl phthalate	ND	F1	1.1	0.78	ug/L		10/09/23 14:41	10/16/23 14:05	1
Fluoranthene	ND	F1	0.22	0.068	ug/L		10/09/23 14:41	10/16/23 14:05	1
Fluorene	ND	F1	0.22	0.078	ug/L		10/09/23 14:41	10/16/23 14:05	1
Hexachlorobenzene	ND	F1	0.22	0.064	ug/L		10/09/23 14:41	10/16/23 14:05	1
Hexachlorobutadiene	ND	F1	0.22	0.078	ug/L		10/09/23 14:41	10/16/23 14:05	1
Hexachlorocyclopentadiene	ND	F1	1.1	0.56	ug/L		10/09/23 14:41	10/16/23 14:05	1
Hexachloroethane	ND	F1	1.1	0.15	ug/L		10/09/23 14:41	10/16/23 14:05	1
Indeno[1,2,3-cd]pyrene	ND	F1	0.22	0.097	ug/L		10/09/23 14:41	10/16/23 14:05	1
Isophorone	ND	F1	1.1	0.21	ug/L		10/09/23 14:41	10/16/23 14:05	1
Methylphenol, 3 & 4	ND	F1	1.1	0.42	ug/L		10/09/23 14:41	10/16/23 14:05	1
Nitrobenzene	ND	F1	2.3	0.57	ug/L		10/09/23 14:41	10/16/23 14:05	1
N-Nitrosodi-n-propylamine	ND	F1	0.22	0.081	ug/L		10/09/23 14:41	10/16/23 14:05	1
N-Nitrosodiphenylamine	ND	F1	1.1	0.14	ug/L		10/09/23 14:41	10/16/23 14:05	1
Phenanthrene	0.092	J F1	0.22	0.063	ug/L		10/09/23 14:41	10/16/23 14:05	1
Phenol	ND	F1	1.1	0.55	ug/L		10/09/23 14:41	10/16/23 14:05	1
Pyrene	ND	F1	0.22	0.061	ug/L		10/09/23 14:41	10/16/23 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		23 - 128	10/09/23 14:41	10/16/23 14:05	1
2-Fluorobiphenyl	62		20 - 105	10/09/23 14:41	10/16/23 14:05	1
2-Fluorophenol (Surr)	49		20 - 105	10/09/23 14:41	10/16/23 14:05	1
Nitrobenzene-d5 (Surr)	58		20 - 107	10/09/23 14:41	10/16/23 14:05	1
Phenol-d5 (Surr)	55		20 - 106	10/09/23 14:41	10/16/23 14:05	1
Terphenyl-d14 (Surr)	58		22 - 120	10/09/23 14:41	10/16/23 14:05	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-30A-100323

Lab Sample ID: 180-163450-11

Date Collected: 10/03/23 15:20

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 20:18	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/09/23 20:18	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/09/23 20:18	1
Benzene	ND		1.0	0.41	ug/L			10/09/23 20:18	1
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 20:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/09/23 20:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 20:18	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/09/23 20:18	1
Naphthalene	0.91	J	1.0	0.43	ug/L			10/09/23 20:18	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/09/23 20:18	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/09/23 20:18	1
o-Xylene	ND		1.0	0.76	ug/L			10/09/23 20:18	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 20:18	1
Toluene	ND		1.0	0.51	ug/L			10/09/23 20:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/09/23 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		10/09/23 20:18	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/09/23 20:18	1
Dibromofluoromethane (Surr)	110		75 - 123		10/09/23 20:18	1
Toluene-d8 (Surr)	96		80 - 120		10/09/23 20:18	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		10/09/23 14:28	10/11/23 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	102		24 - 146	10/09/23 14:28	10/11/23 13:14	1
2-Fluorobiphenyl	85		37 - 120	10/09/23 14:28	10/11/23 13:14	1
2-Fluorophenol (Surr)	45		10 - 120	10/09/23 14:28	10/11/23 13:14	1
Nitrobenzene-d5 (Surr)	72		26 - 120	10/09/23 14:28	10/11/23 13:14	1
Phenol-d5 (Surr)	30		11 - 120	10/09/23 14:28	10/11/23 13:14	1
p-Terphenyl-d14	89		64 - 127	10/09/23 14:28	10/11/23 13:14	1

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.2	0.16	ug/L		10/09/23 14:41	10/16/23 14:49	1
1,2-Dichlorobenzene	ND		1.2	0.11	ug/L		10/09/23 14:41	10/16/23 14:49	1
1,3-Dichlorobenzene	ND		1.2	0.12	ug/L		10/09/23 14:41	10/16/23 14:49	1
1,4-Dichlorobenzene	ND		1.2	0.073	ug/L		10/09/23 14:41	10/16/23 14:49	1
1-Methylnaphthalene	ND		0.23	0.067	ug/L		10/09/23 14:41	10/16/23 14:49	1
2,3,4,6-Tetrachlorophenol	ND		1.2	0.39	ug/L		10/09/23 14:41	10/16/23 14:49	1
2,3,5,6-Tetrachlorophenol	ND		1.2	0.60	ug/L		10/09/23 14:41	10/16/23 14:49	1
2,4,5-Trichlorophenol	ND		1.2	0.30	ug/L		10/09/23 14:41	10/16/23 14:49	1
2,4,6-Trichlorophenol	ND		1.2	0.27	ug/L		10/09/23 14:41	10/16/23 14:49	1
2,4-Dichlorophenol	ND		0.23	0.061	ug/L		10/09/23 14:41	10/16/23 14:49	1
2,4-Dimethylphenol	ND		1.2	0.20	ug/L		10/09/23 14:41	10/16/23 14:49	1
2,4-Dinitrophenol	ND		12	1.8	ug/L		10/09/23 14:41	10/16/23 14:49	1
2,4-Dinitrotoluene	ND		1.2	0.42	ug/L		10/09/23 14:41	10/16/23 14:49	1
2,6-Dinitrotoluene	ND		1.2	0.21	ug/L		10/09/23 14:41	10/16/23 14:49	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-30A-100323

Lab Sample ID: 180-163450-11

Date Collected: 10/03/23 15:20

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		0.23	0.070	ug/L		10/09/23 14:41	10/16/23 14:49	1
2-Chlorophenol	ND		1.2	0.15	ug/L		10/09/23 14:41	10/16/23 14:49	1
2-Methylnaphthalene	0.074	J	0.23	0.074	ug/L		10/09/23 14:41	10/16/23 14:49	1
2-Methylphenol	ND		1.2	0.36	ug/L		10/09/23 14:41	10/16/23 14:49	1
2-Nitroaniline	ND		6.0	0.65	ug/L		10/09/23 14:41	10/16/23 14:49	1
2-Nitrophenol	ND		1.2	0.23	ug/L		10/09/23 14:41	10/16/23 14:49	1
3,3'-Dichlorobenzidine	ND		1.2	0.69	ug/L		10/09/23 14:41	10/16/23 14:49	1
3-Nitroaniline	ND		6.0	0.52	ug/L		10/09/23 14:41	10/16/23 14:49	1
4,6-Dinitro-2-methylphenol	ND		6.0	1.8	ug/L		10/09/23 14:41	10/16/23 14:49	1
4-Bromophenyl phenyl ether	ND		1.2	0.38	ug/L		10/09/23 14:41	10/16/23 14:49	1
4-Chloro-3-methylphenol	ND		1.2	0.33	ug/L		10/09/23 14:41	10/16/23 14:49	1
4-Chloroaniline	ND		1.2	0.45	ug/L		10/09/23 14:41	10/16/23 14:49	1
4-Chlorophenyl phenyl ether	ND		1.2	0.26	ug/L		10/09/23 14:41	10/16/23 14:49	1
4-Nitroaniline	ND		6.0	0.43	ug/L		10/09/23 14:41	10/16/23 14:49	1
4-Nitrophenol	ND		6.0	1.1	ug/L		10/09/23 14:41	10/16/23 14:49	1
Acenaphthene	ND		0.23	0.077	ug/L		10/09/23 14:41	10/16/23 14:49	1
Acenaphthylene	ND		0.23	0.077	ug/L		10/09/23 14:41	10/16/23 14:49	1
Anthracene	0.57		0.23	0.058	ug/L		10/09/23 14:41	10/16/23 14:49	1
Benzo[a]anthracene	ND		0.23	0.089	ug/L		10/09/23 14:41	10/16/23 14:49	1
Benzo[a]pyrene	ND		0.23	0.063	ug/L		10/09/23 14:41	10/16/23 14:49	1
Benzo[b]fluoranthene	ND		0.23	0.12	ug/L		10/09/23 14:41	10/16/23 14:49	1
Benzo[g,h,i]perylene	ND		0.23	0.082	ug/L		10/09/23 14:41	10/16/23 14:49	1
Benzo[k]fluoranthene	ND		0.23	0.10	ug/L		10/09/23 14:41	10/16/23 14:49	1
Benzoic acid	ND		6.0	1.1	ug/L		10/09/23 14:41	10/16/23 14:49	1
Benzyl alcohol	ND		1.2	0.19	ug/L		10/09/23 14:41	10/16/23 14:49	1
Bis(2-chloroethoxy)methane	ND		1.2	0.18	ug/L		10/09/23 14:41	10/16/23 14:49	1
Bis(2-chloroethyl)ether	ND		0.23	0.048	ug/L		10/09/23 14:41	10/16/23 14:49	1
Bis(2-ethylhexyl) phthalate	ND		12	7.4	ug/L		10/09/23 14:41	10/16/23 14:49	1
bis(chloroisopropyl) ether	ND		0.23	0.069	ug/L		10/09/23 14:41	10/16/23 14:49	1
Butyl benzyl phthalate	ND		1.2	0.55	ug/L		10/09/23 14:41	10/16/23 14:49	1
Chrysene	ND		0.23	0.096	ug/L		10/09/23 14:41	10/16/23 14:49	1
Dibenz(a,h)anthracene	ND		0.23	0.086	ug/L		10/09/23 14:41	10/16/23 14:49	1
Dibenzofuran	ND		1.2	0.23	ug/L		10/09/23 14:41	10/16/23 14:49	1
Diethyl phthalate	ND		1.2	0.68	ug/L		10/09/23 14:41	10/16/23 14:49	1
Dimethyl phthalate	ND		1.2	0.24	ug/L		10/09/23 14:41	10/16/23 14:49	1
Di-n-butyl phthalate	1.3		1.2	0.88	ug/L		10/09/23 14:41	10/16/23 14:49	1
Di-n-octyl phthalate	ND		1.2	0.82	ug/L		10/09/23 14:41	10/16/23 14:49	1
Fluoranthene	ND		0.23	0.071	ug/L		10/09/23 14:41	10/16/23 14:49	1
Fluorene	ND		0.23	0.082	ug/L		10/09/23 14:41	10/16/23 14:49	1
Hexachlorobenzene	ND		0.23	0.067	ug/L		10/09/23 14:41	10/16/23 14:49	1
Hexachlorobutadiene	ND		0.23	0.082	ug/L		10/09/23 14:41	10/16/23 14:49	1
Hexachlorocyclopentadiene	ND		1.2	0.59	ug/L		10/09/23 14:41	10/16/23 14:49	1
Hexachloroethane	ND		1.2	0.16	ug/L		10/09/23 14:41	10/16/23 14:49	1
Indeno[1,2,3-cd]pyrene	ND		0.23	0.10	ug/L		10/09/23 14:41	10/16/23 14:49	1
Isophorone	ND		1.2	0.22	ug/L		10/09/23 14:41	10/16/23 14:49	1
Methylphenol, 3 & 4	ND		1.2	0.44	ug/L		10/09/23 14:41	10/16/23 14:49	1
Nitrobenzene	ND		2.4	0.60	ug/L		10/09/23 14:41	10/16/23 14:49	1
N-Nitrosodi-n-propylamine	ND		0.23	0.085	ug/L		10/09/23 14:41	10/16/23 14:49	1
N-Nitrosodiphenylamine	ND		1.2	0.14	ug/L		10/09/23 14:41	10/16/23 14:49	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-30A-100323

Lab Sample ID: 180-163450-11

Date Collected: 10/03/23 15:20

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.093	J	0.23	0.065	ug/L		10/09/23 14:41	10/16/23 14:49	1
Phenol	ND		1.2	0.58	ug/L		10/09/23 14:41	10/16/23 14:49	1
Pyrene	ND		0.23	0.064	ug/L		10/09/23 14:41	10/16/23 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		23 - 128	10/09/23 14:41	10/16/23 14:49	1
2-Fluorobiphenyl	52		20 - 105	10/09/23 14:41	10/16/23 14:49	1
2-Fluorophenol (Surr)	42		20 - 105	10/09/23 14:41	10/16/23 14:49	1
Nitrobenzene-d5 (Surr)	50		20 - 107	10/09/23 14:41	10/16/23 14:49	1
Phenol-d5 (Surr)	47		20 - 106	10/09/23 14:41	10/16/23 14:49	1
Terphenyl-d14 (Surr)	46		22 - 120	10/09/23 14:41	10/16/23 14:49	1

Client Sample ID: SUPE-W-04AR2-100323

Lab Sample ID: 180-163450-12

Date Collected: 10/03/23 17:00

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 20:42	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/09/23 20:42	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/09/23 20:42	1
Benzene	ND		1.0	0.41	ug/L			10/09/23 20:42	1
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 20:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/09/23 20:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 20:42	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/09/23 20:42	1
Naphthalene	ND		1.0	0.43	ug/L			10/09/23 20:42	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/09/23 20:42	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/09/23 20:42	1
o-Xylene	ND		1.0	0.76	ug/L			10/09/23 20:42	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 20:42	1
Toluene	ND		1.0	0.51	ug/L			10/09/23 20:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/09/23 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		10/09/23 20:42	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/09/23 20:42	1
Dibromofluoromethane (Surr)	106		75 - 123		10/09/23 20:42	1
Toluene-d8 (Surr)	94		80 - 120		10/09/23 20:42	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.96	0.33	ug/L		10/09/23 14:28	10/11/23 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	106		24 - 146	10/09/23 14:28	10/11/23 13:41	1
2-Fluorobiphenyl	95		37 - 120	10/09/23 14:28	10/11/23 13:41	1
2-Fluorophenol (Surr)	48		10 - 120	10/09/23 14:28	10/11/23 13:41	1
Nitrobenzene-d5 (Surr)	75		26 - 120	10/09/23 14:28	10/11/23 13:41	1
Phenol-d5 (Surr)	34		11 - 120	10/09/23 14:28	10/11/23 13:41	1
p-Terphenyl-d14	97		64 - 127	10/09/23 14:28	10/11/23 13:41	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-04AR2-100323

Lab Sample ID: 180-163450-12

Date Collected: 10/03/23 17:00

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.1	0.15	ug/L		10/09/23 14:41	10/16/23 15:11	1
1,2-Dichlorobenzene	ND		1.1	0.11	ug/L		10/09/23 14:41	10/16/23 15:11	1
1,3-Dichlorobenzene	ND		1.1	0.11	ug/L		10/09/23 14:41	10/16/23 15:11	1
1,4-Dichlorobenzene	ND		1.1	0.069	ug/L		10/09/23 14:41	10/16/23 15:11	1
1-Methylnaphthalene	ND		0.22	0.064	ug/L		10/09/23 14:41	10/16/23 15:11	1
2,3,4,6-Tetrachlorophenol	ND		1.1	0.37	ug/L		10/09/23 14:41	10/16/23 15:11	1
2,3,5,6-Tetrachlorophenol	ND		1.1	0.58	ug/L		10/09/23 14:41	10/16/23 15:11	1
2,4,5-Trichlorophenol	ND		1.1	0.29	ug/L		10/09/23 14:41	10/16/23 15:11	1
2,4,6-Trichlorophenol	ND		1.1	0.25	ug/L		10/09/23 14:41	10/16/23 15:11	1
2,4-Dichlorophenol	ND		0.22	0.058	ug/L		10/09/23 14:41	10/16/23 15:11	1
2,4-Dimethylphenol	ND		1.1	0.19	ug/L		10/09/23 14:41	10/16/23 15:11	1
2,4-Dinitrophenol	ND		11	1.7	ug/L		10/09/23 14:41	10/16/23 15:11	1
2,4-Dinitrotoluene	ND		1.1	0.40	ug/L		10/09/23 14:41	10/16/23 15:11	1
2,6-Dinitrotoluene	ND		1.1	0.20	ug/L		10/09/23 14:41	10/16/23 15:11	1
2-Chloronaphthalene	ND		0.22	0.067	ug/L		10/09/23 14:41	10/16/23 15:11	1
2-Chlorophenol	ND		1.1	0.15	ug/L		10/09/23 14:41	10/16/23 15:11	1
2-Methylnaphthalene	ND		0.22	0.070	ug/L		10/09/23 14:41	10/16/23 15:11	1
2-Methylphenol	ND		1.1	0.34	ug/L		10/09/23 14:41	10/16/23 15:11	1
2-Nitroaniline	ND		5.7	0.62	ug/L		10/09/23 14:41	10/16/23 15:11	1
2-Nitrophenol	ND		1.1	0.22	ug/L		10/09/23 14:41	10/16/23 15:11	1
3,3'-Dichlorobenzidine	ND		1.1	0.66	ug/L		10/09/23 14:41	10/16/23 15:11	1
3-Nitroaniline	ND		5.7	0.50	ug/L		10/09/23 14:41	10/16/23 15:11	1
4,6-Dinitro-2-methylphenol	ND		5.7	1.7	ug/L		10/09/23 14:41	10/16/23 15:11	1
4-Bromophenyl phenyl ether	ND		1.1	0.36	ug/L		10/09/23 14:41	10/16/23 15:11	1
4-Chloro-3-methylphenol	ND		1.1	0.32	ug/L		10/09/23 14:41	10/16/23 15:11	1
4-Chloroaniline	ND		1.1	0.43	ug/L		10/09/23 14:41	10/16/23 15:11	1
4-Chlorophenyl phenyl ether	ND		1.1	0.25	ug/L		10/09/23 14:41	10/16/23 15:11	1
4-Nitroaniline	ND		5.7	0.41	ug/L		10/09/23 14:41	10/16/23 15:11	1
4-Nitrophenol	ND		5.7	1.1	ug/L		10/09/23 14:41	10/16/23 15:11	1
Acenaphthene	0.092	J	0.22	0.074	ug/L		10/09/23 14:41	10/16/23 15:11	1
Acenaphthylene	ND		0.22	0.074	ug/L		10/09/23 14:41	10/16/23 15:11	1
Anthracene	1.1		0.22	0.056	ug/L		10/09/23 14:41	10/16/23 15:11	1
Benzo[a]anthracene	ND		0.22	0.085	ug/L		10/09/23 14:41	10/16/23 15:11	1
Benzo[a]pyrene	ND		0.22	0.060	ug/L		10/09/23 14:41	10/16/23 15:11	1
Benzo[b]fluoranthene	ND		0.22	0.11	ug/L		10/09/23 14:41	10/16/23 15:11	1
Benzo[g,h,i]perylene	ND		0.22	0.078	ug/L		10/09/23 14:41	10/16/23 15:11	1
Benzo[k]fluoranthene	ND		0.22	0.10	ug/L		10/09/23 14:41	10/16/23 15:11	1
Benzoic acid	ND		5.7	1.0	ug/L		10/09/23 14:41	10/16/23 15:11	1
Benzyl alcohol	ND		1.1	0.19	ug/L		10/09/23 14:41	10/16/23 15:11	1
Bis(2-chloroethoxy)methane	ND		1.1	0.17	ug/L		10/09/23 14:41	10/16/23 15:11	1
Bis(2-chloroethyl)ether	ND		0.22	0.045	ug/L		10/09/23 14:41	10/16/23 15:11	1
Bis(2-ethylhexyl) phthalate	ND		11	7.1	ug/L		10/09/23 14:41	10/16/23 15:11	1
bis(chloroisopropyl) ether	ND		0.22	0.066	ug/L		10/09/23 14:41	10/16/23 15:11	1
Butyl benzyl phthalate	ND		1.1	0.53	ug/L		10/09/23 14:41	10/16/23 15:11	1
Chrysene	0.10	J	0.22	0.092	ug/L		10/09/23 14:41	10/16/23 15:11	1
Dibenz(a,h)anthracene	ND		0.22	0.082	ug/L		10/09/23 14:41	10/16/23 15:11	1
Dibenzofuran	ND		1.1	0.22	ug/L		10/09/23 14:41	10/16/23 15:11	1
Diethyl phthalate	ND		1.1	0.64	ug/L		10/09/23 14:41	10/16/23 15:11	1
Dimethyl phthalate	ND		1.1	0.23	ug/L		10/09/23 14:41	10/16/23 15:11	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-04AR2-100323

Lab Sample ID: 180-163450-12

Date Collected: 10/03/23 17:00

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	0.91	J	1.1	0.84	ug/L		10/09/23 14:41	10/16/23 15:11	1
Di-n-octyl phthalate	ND		1.1	0.78	ug/L		10/09/23 14:41	10/16/23 15:11	1
Fluoranthene	0.15	J	0.22	0.068	ug/L		10/09/23 14:41	10/16/23 15:11	1
Fluorene	0.088	J	0.22	0.078	ug/L		10/09/23 14:41	10/16/23 15:11	1
Hexachlorobenzene	ND		0.22	0.064	ug/L		10/09/23 14:41	10/16/23 15:11	1
Hexachlorobutadiene	ND		0.22	0.078	ug/L		10/09/23 14:41	10/16/23 15:11	1
Hexachlorocyclopentadiene	ND		1.1	0.56	ug/L		10/09/23 14:41	10/16/23 15:11	1
Hexachloroethane	ND		1.1	0.15	ug/L		10/09/23 14:41	10/16/23 15:11	1
Indeno[1,2,3-cd]pyrene	ND		0.22	0.097	ug/L		10/09/23 14:41	10/16/23 15:11	1
Isophorone	ND		1.1	0.21	ug/L		10/09/23 14:41	10/16/23 15:11	1
Methylphenol, 3 & 4	ND		1.1	0.42	ug/L		10/09/23 14:41	10/16/23 15:11	1
Nitrobenzene	ND		2.3	0.57	ug/L		10/09/23 14:41	10/16/23 15:11	1
N-Nitrosodi-n-propylamine	ND		0.22	0.081	ug/L		10/09/23 14:41	10/16/23 15:11	1
N-Nitrosodiphenylamine	ND		1.1	0.14	ug/L		10/09/23 14:41	10/16/23 15:11	1
Phenanthrene	0.17	J	0.22	0.063	ug/L		10/09/23 14:41	10/16/23 15:11	1
Phenol	ND		1.1	0.55	ug/L		10/09/23 14:41	10/16/23 15:11	1
Pyrene	0.079	J	0.22	0.061	ug/L		10/09/23 14:41	10/16/23 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		23 - 128	10/09/23 14:41	10/16/23 15:11	1
2-Fluorobiphenyl	54		20 - 105	10/09/23 14:41	10/16/23 15:11	1
2-Fluorophenol (Surr)	44		20 - 105	10/09/23 14:41	10/16/23 15:11	1
Nitrobenzene-d5 (Surr)	50		20 - 107	10/09/23 14:41	10/16/23 15:11	1
Phenol-d5 (Surr)	48		20 - 106	10/09/23 14:41	10/16/23 15:11	1
Terphenyl-d14 (Surr)	47		22 - 120	10/09/23 14:41	10/16/23 15:11	1

Client Sample ID: SUPE-W-10AR2-100423

Lab Sample ID: 180-163450-13

Date Collected: 10/04/23 09:44

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 21:06	1
1,2,4-Trimethylbenzene	10		1.0	0.75	ug/L			10/09/23 21:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/09/23 21:06	1
Benzene	22		1.0	0.41	ug/L			10/09/23 21:06	1
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 21:06	1
Ethylbenzene	45		1.0	0.74	ug/L			10/09/23 21:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 21:06	1
m-Xylene & p-Xylene	3.0		2.0	0.66	ug/L			10/09/23 21:06	1
Naphthalene	1.6		1.0	0.43	ug/L			10/09/23 21:06	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/09/23 21:06	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/09/23 21:06	1
o-Xylene	16		1.0	0.76	ug/L			10/09/23 21:06	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 21:06	1
Toluene	2.2		1.0	0.51	ug/L			10/09/23 21:06	1
Xylenes, Total	19		2.0	0.66	ug/L			10/09/23 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		10/09/23 21:06	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-10AR2-100423

Lab Sample ID: 180-163450-13

Date Collected: 10/04/23 09:44

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		73 - 120		10/09/23 21:06	1
Dibromofluoromethane (Surr)	105		75 - 123		10/09/23 21:06	1
Toluene-d8 (Surr)	93		80 - 120		10/09/23 21:06	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		10/09/23 14:28	10/11/23 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	114		24 - 146	10/09/23 14:28	10/11/23 18:16	1
2-Fluorobiphenyl	88		37 - 120	10/09/23 14:28	10/11/23 18:16	1
2-Fluorophenol (Surr)	40		10 - 120	10/09/23 14:28	10/11/23 18:16	1
Nitrobenzene-d5 (Surr)	70		26 - 120	10/09/23 14:28	10/11/23 18:16	1
Phenol-d5 (Surr)	31		11 - 120	10/09/23 14:28	10/11/23 18:16	1
p-Terphenyl-d14	88		64 - 127	10/09/23 14:28	10/11/23 18:16	1

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.81	0.11	ug/L		10/10/23 11:14	10/16/23 21:20	1
1,2-Dichlorobenzene	ND		0.81	0.077	ug/L		10/10/23 11:14	10/16/23 21:20	1
1,3-Dichlorobenzene	ND		0.81	0.080	ug/L		10/10/23 11:14	10/16/23 21:20	1
1,4-Dichlorobenzene	ND		0.81	0.049	ug/L		10/10/23 11:14	10/16/23 21:20	1
1-Methylnaphthalene	0.99		0.15	0.045	ug/L		10/10/23 11:14	10/16/23 21:20	1
2,3,4,6-Tetrachlorophenol	ND		0.81	0.26	ug/L		10/10/23 11:14	10/16/23 21:20	1
2,3,5,6-Tetrachlorophenol	ND		0.81	0.41	ug/L		10/10/23 11:14	10/16/23 21:20	1
2,4,5-Trichlorophenol	ND		0.81	0.20	ug/L		10/10/23 11:14	10/16/23 21:20	1
2,4,6-Trichlorophenol	ND		0.81	0.18	ug/L		10/10/23 11:14	10/16/23 21:20	1
2,4-Dichlorophenol	ND		0.15	0.041	ug/L		10/10/23 11:14	10/16/23 21:20	1
2,4-Dimethylphenol	ND		0.81	0.13	ug/L		10/10/23 11:14	10/16/23 21:20	1
2,4-Dinitrophenol	ND		8.1	1.2	ug/L		10/10/23 11:14	10/16/23 21:20	1
2,4-Dinitrotoluene	ND		0.81	0.28	ug/L		10/10/23 11:14	10/16/23 21:20	1
2,6-Dinitrotoluene	ND		0.81	0.14	ug/L		10/10/23 11:14	10/16/23 21:20	1
2-Chloronaphthalene	ND		0.15	0.048	ug/L		10/10/23 11:14	10/16/23 21:20	1
2-Chlorophenol	ND		0.81	0.10	ug/L		10/10/23 11:14	10/16/23 21:20	1
2-Methylnaphthalene	ND		0.15	0.050	ug/L		10/10/23 11:14	10/16/23 21:20	1
2-Methylphenol	ND		0.81	0.24	ug/L		10/10/23 11:14	10/16/23 21:20	1
2-Nitroaniline	ND		4.0	0.44	ug/L		10/10/23 11:14	10/16/23 21:20	1
2-Nitrophenol	ND		0.81	0.16	ug/L		10/10/23 11:14	10/16/23 21:20	1
3,3'-Dichlorobenzidine	ND		0.81	0.47	ug/L		10/10/23 11:14	10/16/23 21:20	1
3-Nitroaniline	ND		4.0	0.35	ug/L		10/10/23 11:14	10/16/23 21:20	1
4,6-Dinitro-2-methylphenol	ND		4.0	1.2	ug/L		10/10/23 11:14	10/16/23 21:20	1
4-Bromophenyl phenyl ether	ND		0.81	0.26	ug/L		10/10/23 11:14	10/16/23 21:20	1
4-Chloro-3-methylphenol	ND		0.81	0.22	ug/L		10/10/23 11:14	10/16/23 21:20	1
4-Chloroaniline	ND		0.81	0.30	ug/L		10/10/23 11:14	10/16/23 21:20	1
4-Chlorophenyl phenyl ether	ND		0.81	0.18	ug/L		10/10/23 11:14	10/16/23 21:20	1
4-Nitroaniline	ND		4.0	0.29	ug/L		10/10/23 11:14	10/16/23 21:20	1
4-Nitrophenol	ND		4.0	0.76	ug/L		10/10/23 11:14	10/16/23 21:20	1
Acenaphthene	11		0.15	0.052	ug/L		10/10/23 11:14	10/16/23 21:20	1
Acenaphthylene	0.46		0.15	0.052	ug/L		10/10/23 11:14	10/16/23 21:20	1
Anthracene	0.081 J		0.15	0.040	ug/L		10/10/23 11:14	10/16/23 21:20	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-W-10AR2-100423

Lab Sample ID: 180-163450-13

Date Collected: 10/04/23 09:44

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.15	0.060	ug/L		10/10/23 11:14	10/16/23 21:20	1
Benzo[a]pyrene	ND		0.15	0.043	ug/L		10/10/23 11:14	10/16/23 21:20	1
Benzo[b]fluoranthene	ND		0.15	0.078	ug/L		10/10/23 11:14	10/16/23 21:20	1
Benzo[g,h,i]perylene	ND		0.15	0.056	ug/L		10/10/23 11:14	10/16/23 21:20	1
Benzo[k]fluoranthene	ND		0.15	0.071	ug/L		10/10/23 11:14	10/16/23 21:20	1
Benzoic acid	ND		4.0	0.74	ug/L		10/10/23 11:14	10/16/23 21:20	1
Benzyl alcohol	ND		0.81	0.13	ug/L		10/10/23 11:14	10/16/23 21:20	1
Bis(2-chloroethoxy)methane	ND		0.81	0.12	ug/L		10/10/23 11:14	10/16/23 21:20	1
Bis(2-chloroethyl)ether	ND		0.15	0.032	ug/L		10/10/23 11:14	10/16/23 21:20	1
Bis(2-ethylhexyl) phthalate	ND		8.1	5.0	ug/L		10/10/23 11:14	10/16/23 21:20	1
bis(chloroisopropyl) ether	ND		0.15	0.047	ug/L		10/10/23 11:14	10/16/23 21:20	1
Butyl benzyl phthalate	ND		0.81	0.37	ug/L		10/10/23 11:14	10/16/23 21:20	1
Chrysene	ND		0.15	0.065	ug/L		10/10/23 11:14	10/16/23 21:20	1
Dibenz(a,h)anthracene	ND		0.15	0.058	ug/L		10/10/23 11:14	10/16/23 21:20	1
Dibenzofuran	1.4		0.81	0.15	ug/L		10/10/23 11:14	10/16/23 21:20	1
Diethyl phthalate	ND		0.81	0.46	ug/L		10/10/23 11:14	10/16/23 21:20	1
Dimethyl phthalate	ND		0.81	0.16	ug/L		10/10/23 11:14	10/16/23 21:20	1
Di-n-butyl phthalate	0.62	J	0.81	0.60	ug/L		10/10/23 11:14	10/16/23 21:20	1
Di-n-octyl phthalate	ND		0.81	0.55	ug/L		10/10/23 11:14	10/16/23 21:20	1
Fluoranthene	0.40		0.15	0.048	ug/L		10/10/23 11:14	10/16/23 21:20	1
Fluorene	2.2		0.15	0.056	ug/L		10/10/23 11:14	10/16/23 21:20	1
Hexachlorobenzene	ND		0.15	0.045	ug/L		10/10/23 11:14	10/16/23 21:20	1
Hexachlorobutadiene	ND		0.15	0.056	ug/L		10/10/23 11:14	10/16/23 21:20	1
Hexachlorocyclopentadiene	ND		0.81	0.40	ug/L		10/10/23 11:14	10/16/23 21:20	1
Hexachloroethane	ND		0.81	0.11	ug/L		10/10/23 11:14	10/16/23 21:20	1
Indeno[1,2,3-cd]pyrene	ND		0.15	0.069	ug/L		10/10/23 11:14	10/16/23 21:20	1
Isophorone	ND		0.81	0.15	ug/L		10/10/23 11:14	10/16/23 21:20	1
Methylphenol, 3 & 4	ND		0.81	0.30	ug/L		10/10/23 11:14	10/16/23 21:20	1
Nitrobenzene	ND		1.6	0.40	ug/L		10/10/23 11:14	10/16/23 21:20	1
N-Nitrosodi-n-propylamine	ND		0.15	0.057	ug/L		10/10/23 11:14	10/16/23 21:20	1
N-Nitrosodiphenylamine	ND		0.81	0.096	ug/L		10/10/23 11:14	10/16/23 21:20	1
Phenanthrene	0.054	J	0.15	0.044	ug/L		10/10/23 11:14	10/16/23 21:20	1
Phenol	ND		0.81	0.39	ug/L		10/10/23 11:14	10/16/23 21:20	1
Pyrene	0.28		0.15	0.044	ug/L		10/10/23 11:14	10/16/23 21:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	29		23 - 128	10/10/23 11:14	10/16/23 21:20	1
2-Fluorobiphenyl	34		20 - 105	10/10/23 11:14	10/16/23 21:20	1
2-Fluorophenol (Surr)	29		20 - 105	10/10/23 11:14	10/16/23 21:20	1
Nitrobenzene-d5 (Surr)	30		20 - 107	10/10/23 11:14	10/16/23 21:20	1
Phenol-d5 (Surr)	28		20 - 106	10/10/23 11:14	10/16/23 21:20	1
Terphenyl-d14 (Surr)	31		22 - 120	10/10/23 11:14	10/16/23 21:20	1

Client Sample ID: SUPE-EB-2-100423

Lab Sample ID: 180-163450-14

Date Collected: 10/04/23 09:54

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 21:31	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-EB-2-100423

Lab Sample ID: 180-163450-14

Date Collected: 10/04/23 09:54

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/09/23 21:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/09/23 21:31	1
Benzene	ND		1.0	0.41	ug/L			10/09/23 21:31	1
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 21:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/09/23 21:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 21:31	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/09/23 21:31	1
Naphthalene	ND		1.0	0.43	ug/L			10/09/23 21:31	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/09/23 21:31	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/09/23 21:31	1
o-Xylene	ND		1.0	0.76	ug/L			10/09/23 21:31	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 21:31	1
Toluene	ND		1.0	0.51	ug/L			10/09/23 21:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/09/23 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		10/09/23 21:31	1
4-Bromofluorobenzene (Surr)	96		73 - 120		10/09/23 21:31	1
Dibromofluoromethane (Surr)	102		75 - 123		10/09/23 21:31	1
Toluene-d8 (Surr)	90		80 - 120		10/09/23 21:31	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		10/09/23 14:28	10/11/23 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		24 - 146	10/09/23 14:28	10/11/23 18:43	1
2-Fluorobiphenyl	94		37 - 120	10/09/23 14:28	10/11/23 18:43	1
2-Fluorophenol (Surr)	47		10 - 120	10/09/23 14:28	10/11/23 18:43	1
Nitrobenzene-d5 (Surr)	78		26 - 120	10/09/23 14:28	10/11/23 18:43	1
Phenol-d5 (Surr)	34		11 - 120	10/09/23 14:28	10/11/23 18:43	1
p-Terphenyl-d14	101		64 - 127	10/09/23 14:28	10/11/23 18:43	1

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.3	0.17	ug/L		10/10/23 11:14	10/16/23 18:29	1
1,2-Dichlorobenzene	ND		1.3	0.13	ug/L		10/10/23 11:14	10/16/23 18:29	1
1,3-Dichlorobenzene	ND		1.3	0.13	ug/L		10/10/23 11:14	10/16/23 18:29	1
1,4-Dichlorobenzene	ND		1.3	0.080	ug/L		10/10/23 11:14	10/16/23 18:29	1
1-Methylnaphthalene	ND		0.25	0.074	ug/L		10/10/23 11:14	10/16/23 18:29	1
2,3,4,6-Tetrachlorophenol	ND		1.3	0.43	ug/L		10/10/23 11:14	10/16/23 18:29	1
2,3,5,6-Tetrachlorophenol	ND		1.3	0.67	ug/L		10/10/23 11:14	10/16/23 18:29	1
2,4,5-Trichlorophenol	ND		1.3	0.33	ug/L		10/10/23 11:14	10/16/23 18:29	1
2,4,6-Trichlorophenol	ND		1.3	0.29	ug/L		10/10/23 11:14	10/16/23 18:29	1
2,4-Dichlorophenol	ND		0.25	0.067	ug/L		10/10/23 11:14	10/16/23 18:29	1
2,4-Dimethylphenol	ND		1.3	0.22	ug/L		10/10/23 11:14	10/16/23 18:29	1
2,4-Dinitrophenol	ND		13	2.0	ug/L		10/10/23 11:14	10/16/23 18:29	1
2,4-Dinitrotoluene	ND		1.3	0.46	ug/L		10/10/23 11:14	10/16/23 18:29	1
2,6-Dinitrotoluene	ND		1.3	0.23	ug/L		10/10/23 11:14	10/16/23 18:29	1
2-Chloronaphthalene	ND		0.25	0.078	ug/L		10/10/23 11:14	10/16/23 18:29	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-EB-2-100423

Lab Sample ID: 180-163450-14

Date Collected: 10/04/23 09:54

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		1.3	0.17	ug/L		10/10/23 11:14	10/16/23 18:29	1
2-Methylnaphthalene	ND		0.25	0.082	ug/L		10/10/23 11:14	10/16/23 18:29	1
2-Methylphenol	ND		1.3	0.39	ug/L		10/10/23 11:14	10/16/23 18:29	1
2-Nitroaniline	ND		6.6	0.72	ug/L		10/10/23 11:14	10/16/23 18:29	1
2-Nitrophenol	ND		1.3	0.25	ug/L		10/10/23 11:14	10/16/23 18:29	1
3,3'-Dichlorobenzidine	ND		1.3	0.77	ug/L		10/10/23 11:14	10/16/23 18:29	1
3-Nitroaniline	ND		6.6	0.58	ug/L		10/10/23 11:14	10/16/23 18:29	1
4,6-Dinitro-2-methylphenol	ND		6.6	1.9	ug/L		10/10/23 11:14	10/16/23 18:29	1
4-Bromophenyl phenyl ether	ND		1.3	0.42	ug/L		10/10/23 11:14	10/16/23 18:29	1
4-Chloro-3-methylphenol	ND		1.3	0.37	ug/L		10/10/23 11:14	10/16/23 18:29	1
4-Chloroaniline	ND		1.3	0.49	ug/L		10/10/23 11:14	10/16/23 18:29	1
4-Chlorophenyl phenyl ether	ND		1.3	0.29	ug/L		10/10/23 11:14	10/16/23 18:29	1
4-Nitroaniline	ND		6.6	0.48	ug/L		10/10/23 11:14	10/16/23 18:29	1
4-Nitrophenol	ND		6.6	1.2	ug/L		10/10/23 11:14	10/16/23 18:29	1
Acenaphthene	ND		0.25	0.086	ug/L		10/10/23 11:14	10/16/23 18:29	1
Acenaphthylene	ND		0.25	0.086	ug/L		10/10/23 11:14	10/16/23 18:29	1
Anthracene	ND		0.25	0.064	ug/L		10/10/23 11:14	10/16/23 18:29	1
Benzo[a]anthracene	ND		0.25	0.099	ug/L		10/10/23 11:14	10/16/23 18:29	1
Benzo[a]pyrene	ND		0.25	0.070	ug/L		10/10/23 11:14	10/16/23 18:29	1
Benzo[b]fluoranthene	ND		0.25	0.13	ug/L		10/10/23 11:14	10/16/23 18:29	1
Benzo[g,h,i]perylene	ND		0.25	0.091	ug/L		10/10/23 11:14	10/16/23 18:29	1
Benzo[k]fluoranthene	ND		0.25	0.12	ug/L		10/10/23 11:14	10/16/23 18:29	1
Benzoic acid	ND		6.6	1.2	ug/L		10/10/23 11:14	10/16/23 18:29	1
Benzyl alcohol	ND		1.3	0.21	ug/L		10/10/23 11:14	10/16/23 18:29	1
Bis(2-chloroethoxy)methane	ND		1.3	0.20	ug/L		10/10/23 11:14	10/16/23 18:29	1
Bis(2-chloroethyl)ether	ND		0.25	0.053	ug/L		10/10/23 11:14	10/16/23 18:29	1
Bis(2-ethylhexyl) phthalate	ND		13	8.2	ug/L		10/10/23 11:14	10/16/23 18:29	1
bis(chloroisopropyl) ether	ND		0.25	0.076	ug/L		10/10/23 11:14	10/16/23 18:29	1
Butyl benzyl phthalate	ND		1.3	0.61	ug/L		10/10/23 11:14	10/16/23 18:29	1
Chrysene	ND		0.25	0.11	ug/L		10/10/23 11:14	10/16/23 18:29	1
Dibenz(a,h)anthracene	ND		0.25	0.095	ug/L		10/10/23 11:14	10/16/23 18:29	1
Dibenzofuran	ND		1.3	0.25	ug/L		10/10/23 11:14	10/16/23 18:29	1
Diethyl phthalate	ND		1.3	0.75	ug/L		10/10/23 11:14	10/16/23 18:29	1
Dimethyl phthalate	ND		1.3	0.26	ug/L		10/10/23 11:14	10/16/23 18:29	1
Di-n-butyl phthalate	1.8		1.3	0.98	ug/L		10/10/23 11:14	10/16/23 18:29	1
Di-n-octyl phthalate	ND		1.3	0.90	ug/L		10/10/23 11:14	10/16/23 18:29	1
Fluoranthene	ND		0.25	0.079	ug/L		10/10/23 11:14	10/16/23 18:29	1
Fluorene	ND		0.25	0.091	ug/L		10/10/23 11:14	10/16/23 18:29	1
Hexachlorobenzene	ND		0.25	0.074	ug/L		10/10/23 11:14	10/16/23 18:29	1
Hexachlorobutadiene	ND		0.25	0.091	ug/L		10/10/23 11:14	10/16/23 18:29	1
Hexachlorocyclopentadiene	ND		1.3	0.65	ug/L		10/10/23 11:14	10/16/23 18:29	1
Hexachloroethane	ND		1.3	0.18	ug/L		10/10/23 11:14	10/16/23 18:29	1
Indeno[1,2,3-cd]pyrene	ND		0.25	0.11	ug/L		10/10/23 11:14	10/16/23 18:29	1
Isophorone	ND		1.3	0.25	ug/L		10/10/23 11:14	10/16/23 18:29	1
Methylphenol, 3 & 4	ND		1.3	0.49	ug/L		10/10/23 11:14	10/16/23 18:29	1
Nitrobenzene	ND		2.6	0.66	ug/L		10/10/23 11:14	10/16/23 18:29	1
N-Nitrosodi-n-propylamine	ND		0.25	0.093	ug/L		10/10/23 11:14	10/16/23 18:29	1
N-Nitrosodiphenylamine	ND		1.3	0.16	ug/L		10/10/23 11:14	10/16/23 18:29	1
Phenanthrene	0.097	J	0.25	0.072	ug/L		10/10/23 11:14	10/16/23 18:29	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-EB-2-100423

Lab Sample ID: 180-163450-14

Date Collected: 10/04/23 09:54

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.3	0.64	ug/L		10/10/23 11:14	10/16/23 18:29	1
Pyrene	ND		0.25	0.071	ug/L		10/10/23 11:14	10/16/23 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		23 - 128				10/10/23 11:14	10/16/23 18:29	1
2-Fluorobiphenyl	47		20 - 105				10/10/23 11:14	10/16/23 18:29	1
2-Fluorophenol (Surr)	21		20 - 105				10/10/23 11:14	10/16/23 18:29	1
Nitrobenzene-d5 (Surr)	25		20 - 107				10/10/23 11:14	10/16/23 18:29	1
Phenol-d5 (Surr)	29		20 - 106				10/10/23 11:14	10/16/23 18:29	1
Terphenyl-d14 (Surr)	57		22 - 120				10/10/23 11:14	10/16/23 18:29	1

Client Sample ID: SUPE-M-99B-100423

Lab Sample ID: 180-163450-15

Date Collected: 10/04/23 10:39

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/12/23 08:11	1
1,2,4-Trimethylbenzene	11		1.0	0.75	ug/L			10/12/23 08:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/12/23 08:11	1
Benzene	20		1.0	0.41	ug/L			10/12/23 08:11	1
Chloromethane	ND		1.0	0.35	ug/L			10/12/23 08:11	1
Ethylbenzene	45		1.0	0.74	ug/L			10/12/23 08:11	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/12/23 08:11	1
m-Xylene & p-Xylene	3.0		2.0	0.66	ug/L			10/12/23 08:11	1
Naphthalene	1.5		1.0	0.43	ug/L			10/12/23 08:11	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/12/23 08:11	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/12/23 08:11	1
o-Xylene	15		1.0	0.76	ug/L			10/12/23 08:11	1
Styrene	ND		1.0	0.73	ug/L			10/12/23 08:11	1
Toluene	2.1		1.0	0.51	ug/L			10/12/23 08:11	1
Xylenes, Total	18		2.0	0.66	ug/L			10/12/23 08:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120					10/12/23 08:11	1
4-Bromofluorobenzene (Surr)	97		73 - 120					10/12/23 08:11	1
Dibromofluoromethane (Surr)	97		75 - 123					10/12/23 08:11	1
Toluene-d8 (Surr)	98		80 - 120					10/12/23 08:11	1

Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.95	0.32	ug/L		10/09/23 14:28	10/11/23 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	107		24 - 146				10/09/23 14:28	10/11/23 19:09	1
2-Fluorobiphenyl	82		37 - 120				10/09/23 14:28	10/11/23 19:09	1
2-Fluorophenol (Surr)	40		10 - 120				10/09/23 14:28	10/11/23 19:09	1
Nitrobenzene-d5 (Surr)	66		26 - 120				10/09/23 14:28	10/11/23 19:09	1
Phenol-d5 (Surr)	31		11 - 120				10/09/23 14:28	10/11/23 19:09	1
p-Terphenyl-d14	83		64 - 127				10/09/23 14:28	10/11/23 19:09	1

Eurofins Pittsburgh

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-M-99B-100423

Lab Sample ID: 180-163450-15

Date Collected: 10/04/23 10:39

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.81	0.11	ug/L		10/10/23 11:14	10/16/23 17:54	1
1,2-Dichlorobenzene	ND		0.81	0.077	ug/L		10/10/23 11:14	10/16/23 17:54	1
1,3-Dichlorobenzene	ND		0.81	0.080	ug/L		10/10/23 11:14	10/16/23 17:54	1
1,4-Dichlorobenzene	ND		0.81	0.049	ug/L		10/10/23 11:14	10/16/23 17:54	1
1-Methylnaphthalene	2.3		0.15	0.045	ug/L		10/10/23 11:14	10/16/23 17:54	1
2,3,4,6-Tetrachlorophenol	ND		0.81	0.26	ug/L		10/10/23 11:14	10/16/23 17:54	1
2,3,5,6-Tetrachlorophenol	ND		0.81	0.41	ug/L		10/10/23 11:14	10/16/23 17:54	1
2,4,5-Trichlorophenol	ND		0.81	0.20	ug/L		10/10/23 11:14	10/16/23 17:54	1
2,4,6-Trichlorophenol	ND		0.81	0.18	ug/L		10/10/23 11:14	10/16/23 17:54	1
2,4-Dichlorophenol	ND		0.15	0.041	ug/L		10/10/23 11:14	10/16/23 17:54	1
2,4-Dimethylphenol	ND		0.81	0.13	ug/L		10/10/23 11:14	10/16/23 17:54	1
2,4-Dinitrophenol	ND		8.1	1.2	ug/L		10/10/23 11:14	10/16/23 17:54	1
2,4-Dinitrotoluene	ND		0.81	0.28	ug/L		10/10/23 11:14	10/16/23 17:54	1
2,6-Dinitrotoluene	ND		0.81	0.14	ug/L		10/10/23 11:14	10/16/23 17:54	1
2-Chloronaphthalene	ND		0.15	0.048	ug/L		10/10/23 11:14	10/16/23 17:54	1
2-Chlorophenol	ND		0.81	0.10	ug/L		10/10/23 11:14	10/16/23 17:54	1
2-Methylnaphthalene	ND		0.15	0.050	ug/L		10/10/23 11:14	10/16/23 17:54	1
2-Methylphenol	ND		0.81	0.24	ug/L		10/10/23 11:14	10/16/23 17:54	1
2-Nitroaniline	ND		4.0	0.44	ug/L		10/10/23 11:14	10/16/23 17:54	1
2-Nitrophenol	ND		0.81	0.16	ug/L		10/10/23 11:14	10/16/23 17:54	1
3,3'-Dichlorobenzidine	ND		0.81	0.47	ug/L		10/10/23 11:14	10/16/23 17:54	1
3-Nitroaniline	ND		4.0	0.35	ug/L		10/10/23 11:14	10/16/23 17:54	1
4,6-Dinitro-2-methylphenol	ND		4.0	1.2	ug/L		10/10/23 11:14	10/16/23 17:54	1
4-Bromophenyl phenyl ether	ND		0.81	0.26	ug/L		10/10/23 11:14	10/16/23 17:54	1
4-Chloro-3-methylphenol	ND		0.81	0.22	ug/L		10/10/23 11:14	10/16/23 17:54	1
4-Chloroaniline	ND		0.81	0.30	ug/L		10/10/23 11:14	10/16/23 17:54	1
4-Chlorophenyl phenyl ether	ND		0.81	0.18	ug/L		10/10/23 11:14	10/16/23 17:54	1
4-Nitroaniline	ND		4.0	0.29	ug/L		10/10/23 11:14	10/16/23 17:54	1
4-Nitrophenol	ND		4.0	0.76	ug/L		10/10/23 11:14	10/16/23 17:54	1
Acenaphthene	27		0.15	0.052	ug/L		10/10/23 11:14	10/16/23 17:54	1
Acenaphthylene	0.87		0.15	0.052	ug/L		10/10/23 11:14	10/16/23 17:54	1
Anthracene	0.30		0.15	0.040	ug/L		10/10/23 11:14	10/16/23 17:54	1
Benzo[a]anthracene	0.061 J		0.15	0.060	ug/L		10/10/23 11:14	10/16/23 17:54	1
Benzo[a]pyrene	ND		0.15	0.043	ug/L		10/10/23 11:14	10/16/23 17:54	1
Benzo[b]fluoranthene	ND		0.15	0.078	ug/L		10/10/23 11:14	10/16/23 17:54	1
Benzo[g,h,i]perylene	ND		0.15	0.056	ug/L		10/10/23 11:14	10/16/23 17:54	1
Benzo[k]fluoranthene	ND		0.15	0.071	ug/L		10/10/23 11:14	10/16/23 17:54	1
Benzoic acid	ND		4.0	0.74	ug/L		10/10/23 11:14	10/16/23 17:54	1
Benzyl alcohol	ND		0.81	0.13	ug/L		10/10/23 11:14	10/16/23 17:54	1
Bis(2-chloroethoxy)methane	ND		0.81	0.12	ug/L		10/10/23 11:14	10/16/23 17:54	1
Bis(2-chloroethyl)ether	ND		0.15	0.032	ug/L		10/10/23 11:14	10/16/23 17:54	1
Bis(2-ethylhexyl) phthalate	ND		8.1	5.0	ug/L		10/10/23 11:14	10/16/23 17:54	1
bis(chloroisopropyl) ether	ND		0.15	0.047	ug/L		10/10/23 11:14	10/16/23 17:54	1
Butyl benzyl phthalate	ND		0.81	0.37	ug/L		10/10/23 11:14	10/16/23 17:54	1
Chrysene	0.088 J		0.15	0.065	ug/L		10/10/23 11:14	10/16/23 17:54	1
Dibenz(a,h)anthracene	ND		0.15	0.058	ug/L		10/10/23 11:14	10/16/23 17:54	1
Dibenzofuran	3.2		0.81	0.15	ug/L		10/10/23 11:14	10/16/23 17:54	1
Diethyl phthalate	ND		0.81	0.46	ug/L		10/10/23 11:14	10/16/23 17:54	1
Dimethyl phthalate	ND		0.81	0.16	ug/L		10/10/23 11:14	10/16/23 17:54	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Client Sample ID: SUPE-M-99B-100423

Lab Sample ID: 180-163450-15

Date Collected: 10/04/23 10:39

Matrix: Water

Date Received: 10/05/23 09:10

Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	1.4		0.81	0.60	ug/L		10/10/23 11:14	10/16/23 17:54	1
Di-n-octyl phthalate	ND		0.81	0.55	ug/L		10/10/23 11:14	10/16/23 17:54	1
Fluoranthene	0.91		0.15	0.048	ug/L		10/10/23 11:14	10/16/23 17:54	1
Fluorene	5.3		0.15	0.056	ug/L		10/10/23 11:14	10/16/23 17:54	1
Hexachlorobenzene	ND		0.15	0.045	ug/L		10/10/23 11:14	10/16/23 17:54	1
Hexachlorobutadiene	ND		0.15	0.056	ug/L		10/10/23 11:14	10/16/23 17:54	1
Hexachlorocyclopentadiene	ND		0.81	0.40	ug/L		10/10/23 11:14	10/16/23 17:54	1
Hexachloroethane	ND		0.81	0.11	ug/L		10/10/23 11:14	10/16/23 17:54	1
Indeno[1,2,3-cd]pyrene	ND		0.15	0.069	ug/L		10/10/23 11:14	10/16/23 17:54	1
Isophorone	ND		0.81	0.15	ug/L		10/10/23 11:14	10/16/23 17:54	1
Methylphenol, 3 & 4	ND		0.81	0.30	ug/L		10/10/23 11:14	10/16/23 17:54	1
Nitrobenzene	ND		1.6	0.40	ug/L		10/10/23 11:14	10/16/23 17:54	1
N-Nitrosodi-n-propylamine	ND		0.15	0.057	ug/L		10/10/23 11:14	10/16/23 17:54	1
N-Nitrosodiphenylamine	ND		0.81	0.096	ug/L		10/10/23 11:14	10/16/23 17:54	1
Phenanthrene	0.092	J	0.15	0.044	ug/L		10/10/23 11:14	10/16/23 17:54	1
Phenol	0.59	J	0.81	0.39	ug/L		10/10/23 11:14	10/16/23 17:54	1
Pyrene	0.48		0.15	0.044	ug/L		10/10/23 11:14	10/16/23 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		23 - 128	10/10/23 11:14	10/16/23 17:54	1
2-Fluorobiphenyl	58		20 - 105	10/10/23 11:14	10/16/23 17:54	1
2-Fluorophenol (Surr)	50		20 - 105	10/10/23 11:14	10/16/23 17:54	1
Nitrobenzene-d5 (Surr)	65		20 - 107	10/10/23 11:14	10/16/23 17:54	1
Phenol-d5 (Surr)	48		20 - 106	10/10/23 11:14	10/16/23 17:54	1
Terphenyl-d14 (Surr)	59		22 - 120	10/10/23 11:14	10/16/23 17:54	1

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-686612/8
Matrix: Water
Analysis Batch: 686612

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/09/23 15:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/09/23 15:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/09/23 15:51	1
Benzene	ND		1.0	0.41	ug/L			10/09/23 15:51	1
Chloromethane	ND		1.0	0.35	ug/L			10/09/23 15:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/09/23 15:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/09/23 15:51	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/09/23 15:51	1
Naphthalene	ND		1.0	0.43	ug/L			10/09/23 15:51	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/09/23 15:51	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/09/23 15:51	1
o-Xylene	ND		1.0	0.76	ug/L			10/09/23 15:51	1
Styrene	ND		1.0	0.73	ug/L			10/09/23 15:51	1
Toluene	ND		1.0	0.51	ug/L			10/09/23 15:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/09/23 15:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		10/09/23 15:51	1
4-Bromofluorobenzene (Surr)	100		73 - 120		10/09/23 15:51	1
Dibromofluoromethane (Surr)	102		75 - 123		10/09/23 15:51	1
Toluene-d8 (Surr)	94		80 - 120		10/09/23 15:51	1

Lab Sample ID: LCS 480-686612/6
Matrix: Water
Analysis Batch: 686612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	76 - 121
1,3,5-Trimethylbenzene	25.0	27.0		ug/L		108	77 - 121
Benzene	25.0	25.3		ug/L		101	71 - 124
Chloromethane	25.0	24.7		ug/L		99	68 - 124
Ethylbenzene	25.0	24.7		ug/L		99	77 - 123
Methyl tert-butyl ether	25.0	26.8		ug/L		107	77 - 120
m-Xylene & p-Xylene	25.0	25.0		ug/L		100	76 - 122
Naphthalene	25.0	26.8		ug/L		107	66 - 125
n-Butylbenzene	25.0	26.6		ug/L		106	71 - 128
N-Propylbenzene	25.0	25.9		ug/L		104	75 - 127
o-Xylene	25.0	24.8		ug/L		99	76 - 122
Styrene	25.0	24.8		ug/L		99	80 - 120
Toluene	25.0	24.3		ug/L		97	80 - 122
Xylenes, Total	50.0	49.8		ug/L		100	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	109		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123
Toluene-d8 (Surr)	95		80 - 120

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-686979/8
Matrix: Water
Analysis Batch: 686979

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/12/23 00:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/12/23 00:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/12/23 00:43	1
Benzene	ND		1.0	0.41	ug/L			10/12/23 00:43	1
Chloromethane	ND		1.0	0.35	ug/L			10/12/23 00:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/12/23 00:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/12/23 00:43	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/12/23 00:43	1
Naphthalene	ND		1.0	0.43	ug/L			10/12/23 00:43	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/12/23 00:43	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/12/23 00:43	1
o-Xylene	ND		1.0	0.76	ug/L			10/12/23 00:43	1
Styrene	ND		1.0	0.73	ug/L			10/12/23 00:43	1
Toluene	ND		1.0	0.51	ug/L			10/12/23 00:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/12/23 00:43	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		10/12/23 00:43	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/12/23 00:43	1
Dibromofluoromethane (Surr)	95		75 - 123		10/12/23 00:43	1
Toluene-d8 (Surr)	100		80 - 120		10/12/23 00:43	1

Lab Sample ID: LCS 480-686979/6
Matrix: Water
Analysis Batch: 686979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	25.0	27.0		ug/L		108	76 - 121
1,3,5-Trimethylbenzene	25.0	27.0		ug/L		108	77 - 121
Benzene	25.0	24.6		ug/L		98	71 - 124
Chloromethane	25.0	26.3		ug/L		105	68 - 124
Ethylbenzene	25.0	25.7		ug/L		103	77 - 123
Methyl tert-butyl ether	25.0	24.0		ug/L		96	77 - 120
m-Xylene & p-Xylene	25.0	24.9		ug/L		100	76 - 122
Naphthalene	25.0	20.6		ug/L		82	66 - 125
n-Butylbenzene	25.0	28.2		ug/L		113	71 - 128
N-Propylbenzene	25.0	27.2		ug/L		109	75 - 127
o-Xylene	25.0	24.6		ug/L		98	76 - 122
Styrene	25.0	25.3		ug/L		101	80 - 120
Toluene	25.0	24.4		ug/L		98	80 - 122
Xylenes, Total	50.0	49.5		ug/L		99	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	105		75 - 123
Toluene-d8 (Surr)	97		80 - 120

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 480-686639/1-A
Matrix: Water
Analysis Batch: 686733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/09/23 14:28	10/11/23 07:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		24 - 146				10/09/23 14:28	10/11/23 07:52	1
2-Fluorobiphenyl	109		37 - 120				10/09/23 14:28	10/11/23 07:52	1
2-Fluorophenol (Surr)	58		10 - 120				10/09/23 14:28	10/11/23 07:52	1
Nitrobenzene-d5 (Surr)	91		26 - 120				10/09/23 14:28	10/11/23 07:52	1
Phenol-d5 (Surr)	40		11 - 120				10/09/23 14:28	10/11/23 07:52	1
p-Terphenyl-d14	115		64 - 127				10/09/23 14:28	10/11/23 07:52	1

Lab Sample ID: LCS 480-686639/2-A
Matrix: Water
Analysis Batch: 686733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachlorophenol	16.0	15.7		ug/L		98	10 - 131
Surrogate	%Recovery	Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	117		24 - 146				
2-Fluorobiphenyl	106		37 - 120				
2-Fluorophenol (Surr)	61		10 - 120				
Nitrobenzene-d5 (Surr)	100		26 - 120				
Phenol-d5 (Surr)	44		11 - 120				
p-Terphenyl-d14	112		64 - 127				

Lab Sample ID: LCSD 480-686639/3-A
Matrix: Water
Analysis Batch: 686733

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 686639

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pentachlorophenol	16.0	15.1		ug/L		95	10 - 131	3	171
Surrogate	%Recovery	Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	120		24 - 146						
2-Fluorobiphenyl	107		37 - 120						
2-Fluorophenol (Surr)	60		10 - 120						
Nitrobenzene-d5 (Surr)	99		26 - 120						
Phenol-d5 (Surr)	44		11 - 120						
p-Terphenyl-d14	108		64 - 127						

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-448702/1-A
Matrix: Water
Analysis Batch: 449026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L		10/09/23 14:29	10/12/23 09:07	1

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-448702/1-A
Matrix: Water
Analysis Batch: 449026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448702

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichlorobenzene	ND		1.0	0.095	ug/L		10/09/23 14:29	10/12/23 09:07	1
1,3-Dichlorobenzene	ND		1.0	0.099	ug/L		10/09/23 14:29	10/12/23 09:07	1
1,4-Dichlorobenzene	ND		1.0	0.061	ug/L		10/09/23 14:29	10/12/23 09:07	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		10/09/23 14:29	10/12/23 09:07	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		10/09/23 14:29	10/12/23 09:07	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		10/09/23 14:29	10/12/23 09:07	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		10/09/23 14:29	10/12/23 09:07	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		10/09/23 14:29	10/12/23 09:07	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		10/09/23 14:29	10/12/23 09:07	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		10/09/23 14:29	10/12/23 09:07	1
2,4-Dinitrophenol	ND		10	1.5	ug/L		10/09/23 14:29	10/12/23 09:07	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		10/09/23 14:29	10/12/23 09:07	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		10/09/23 14:29	10/12/23 09:07	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		10/09/23 14:29	10/12/23 09:07	1
2-Chlorophenol	ND		1.0	0.13	ug/L		10/09/23 14:29	10/12/23 09:07	1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		10/09/23 14:29	10/12/23 09:07	1
2-Methylphenol	ND		1.0	0.30	ug/L		10/09/23 14:29	10/12/23 09:07	1
2-Nitroaniline	ND		5.0	0.55	ug/L		10/09/23 14:29	10/12/23 09:07	1
2-Nitrophenol	ND		1.0	0.19	ug/L		10/09/23 14:29	10/12/23 09:07	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		10/09/23 14:29	10/12/23 09:07	1
3-Nitroaniline	ND		5.0	0.44	ug/L		10/09/23 14:29	10/12/23 09:07	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		10/09/23 14:29	10/12/23 09:07	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		10/09/23 14:29	10/12/23 09:07	1
4-Chloro-3-methylphenol	ND		1.0	0.28	ug/L		10/09/23 14:29	10/12/23 09:07	1
4-Chloroaniline	ND		1.0	0.38	ug/L		10/09/23 14:29	10/12/23 09:07	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		10/09/23 14:29	10/12/23 09:07	1
4-Nitroaniline	ND		5.0	0.36	ug/L		10/09/23 14:29	10/12/23 09:07	1
4-Nitrophenol	ND		5.0	0.94	ug/L		10/09/23 14:29	10/12/23 09:07	1
Acenaphthene	ND		0.19	0.065	ug/L		10/09/23 14:29	10/12/23 09:07	1
Acenaphthylene	ND		0.19	0.065	ug/L		10/09/23 14:29	10/12/23 09:07	1
Anthracene	ND		0.19	0.049	ug/L		10/09/23 14:29	10/12/23 09:07	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		10/09/23 14:29	10/12/23 09:07	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		10/09/23 14:29	10/12/23 09:07	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		10/09/23 14:29	10/12/23 09:07	1
Benzo[g,h,i]perylene	ND		0.19	0.069	ug/L		10/09/23 14:29	10/12/23 09:07	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		10/09/23 14:29	10/12/23 09:07	1
Benzoic acid	ND		5.0	0.92	ug/L		10/09/23 14:29	10/12/23 09:07	1
Benzyl alcohol	ND		1.0	0.16	ug/L		10/09/23 14:29	10/12/23 09:07	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		10/09/23 14:29	10/12/23 09:07	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		10/09/23 14:29	10/12/23 09:07	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		10/09/23 14:29	10/12/23 09:07	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		10/09/23 14:29	10/12/23 09:07	1
Butyl benzyl phthalate	ND		1.0	0.46	ug/L		10/09/23 14:29	10/12/23 09:07	1
Chrysene	ND		0.19	0.081	ug/L		10/09/23 14:29	10/12/23 09:07	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		10/09/23 14:29	10/12/23 09:07	1
Dibenzofuran	ND		1.0	0.19	ug/L		10/09/23 14:29	10/12/23 09:07	1
Diethyl phthalate	ND		1.0	0.57	ug/L		10/09/23 14:29	10/12/23 09:07	1
Dimethyl phthalate	ND		1.0	0.20	ug/L		10/09/23 14:29	10/12/23 09:07	1
Di-n-butyl phthalate	ND		1.0	0.74	ug/L		10/09/23 14:29	10/12/23 09:07	1

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-448702/1-A
Matrix: Water
Analysis Batch: 449026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		10/09/23 14:29	10/12/23 09:07	1
Fluoranthene	ND		0.19	0.060	ug/L		10/09/23 14:29	10/12/23 09:07	1
Fluorene	ND		0.19	0.069	ug/L		10/09/23 14:29	10/12/23 09:07	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		10/09/23 14:29	10/12/23 09:07	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		10/09/23 14:29	10/12/23 09:07	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		10/09/23 14:29	10/12/23 09:07	1
Hexachloroethane	ND		1.0	0.13	ug/L		10/09/23 14:29	10/12/23 09:07	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		10/09/23 14:29	10/12/23 09:07	1
Isophorone	ND		1.0	0.19	ug/L		10/09/23 14:29	10/12/23 09:07	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		10/09/23 14:29	10/12/23 09:07	1
Naphthalene	ND		0.19	0.059	ug/L		10/09/23 14:29	10/12/23 09:07	1
Nitrobenzene	ND		2.0	0.50	ug/L		10/09/23 14:29	10/12/23 09:07	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		10/09/23 14:29	10/12/23 09:07	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		10/09/23 14:29	10/12/23 09:07	1
Phenanthrene	ND		0.19	0.055	ug/L		10/09/23 14:29	10/12/23 09:07	1
Phenol	ND		1.0	0.49	ug/L		10/09/23 14:29	10/12/23 09:07	1
Pyrene	ND		0.19	0.054	ug/L		10/09/23 14:29	10/12/23 09:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		23 - 128	10/09/23 14:29	10/12/23 09:07	1
2-Fluorobiphenyl	88		20 - 105	10/09/23 14:29	10/12/23 09:07	1
2-Fluorophenol (Surr)	91		20 - 105	10/09/23 14:29	10/12/23 09:07	1
Nitrobenzene-d5 (Surr)	94		20 - 107	10/09/23 14:29	10/12/23 09:07	1
Phenol-d5 (Surr)	86		20 - 106	10/09/23 14:29	10/12/23 09:07	1
Terphenyl-d14 (Surr)	84		22 - 120	10/09/23 14:29	10/12/23 09:07	1

Lab Sample ID: LCS 180-448702/2-A
Matrix: Water
Analysis Batch: 449026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	20.0	14.2		ug/L		71	51 - 100
1,2-Dichlorobenzene	20.0	14.0		ug/L		70	51 - 100
1,3-Dichlorobenzene	20.0	14.3		ug/L		72	51 - 100
1,4-Dichlorobenzene	20.0	14.0		ug/L		70	52 - 100
1-Methylnaphthalene	20.0	13.7		ug/L		68	53 - 100
2,3,4,6-Tetrachlorophenol	20.0	12.9		ug/L		65	50 - 100
2,4,5-Trichlorophenol	20.0	15.2		ug/L		76	55 - 100
2,4,6-Trichlorophenol	20.0	16.0		ug/L		80	54 - 100
2,4-Dichlorophenol	20.0	14.0		ug/L		70	55 - 100
2,4-Dimethylphenol	20.0	10.8		ug/L		54	51 - 100
2,4-Dinitrophenol	40.0	28.4		ug/L		71	32 - 100
2,4-Dinitrotoluene	20.0	13.5		ug/L		68	56 - 100
2,6-Dinitrotoluene	20.0	12.9		ug/L		65	56 - 101
2-Chloronaphthalene	20.0	14.9		ug/L		74	52 - 100
2-Chlorophenol	20.0	14.5		ug/L		73	53 - 100
2-Methylnaphthalene	20.0	14.4		ug/L		72	53 - 100
2-Methylphenol	20.0	12.6		ug/L		63	51 - 100

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-448702/2-A
Matrix: Water
Analysis Batch: 449026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Nitroaniline	20.0	14.9		ug/L		75	47 - 104
2-Nitrophenol	20.0	15.2		ug/L		76	56 - 100
3,3'-Dichlorobenzidine	20.0	15.1		ug/L		76	42 - 100
3-Nitroaniline	20.0	13.2		ug/L		66	54 - 100
4,6-Dinitro-2-methylphenol	40.0	31.7		ug/L		79	48 - 100
4-Bromophenyl phenyl ether	20.0	15.5		ug/L		78	50 - 100
4-Chloro-3-methylphenol	20.0	14.0		ug/L		70	47 - 105
4-Chloroaniline	20.0	13.1		ug/L		66	48 - 100
4-Chlorophenyl phenyl ether	20.0	14.5		ug/L		73	52 - 100
4-Nitroaniline	20.0	13.2		ug/L		66	54 - 100
4-Nitrophenol	40.0	29.6		ug/L		74	37 - 120
Acenaphthene	20.0	13.9		ug/L		69	51 - 100
Acenaphthylene	20.0	14.6		ug/L		73	54 - 100
Anthracene	20.0	14.4		ug/L		72	54 - 100
Benzo[a]anthracene	20.0	14.6		ug/L		73	52 - 100
Benzo[a]pyrene	20.0	15.4		ug/L		77	52 - 100
Benzo[b]fluoranthene	20.0	13.9		ug/L		69	50 - 100
Benzo[g,h,i]perylene	20.0	13.4		ug/L		67	53 - 100
Benzo[k]fluoranthene	20.0	13.5		ug/L		68	49 - 100
Benzoic acid	20.0	17.1		ug/L		86	31 - 122
Benzyl alcohol	20.0	13.2		ug/L		66	33 - 107
Bis(2-chloroethoxy)methane	20.0	12.6		ug/L		63	49 - 100
Bis(2-chloroethyl)ether	20.0	12.1		ug/L		60	46 - 100
Bis(2-ethylhexyl) phthalate	20.0	16.4		ug/L		82	52 - 101
bis(chloroisopropyl) ether	20.0	14.2		ug/L		71	29 - 102
Butyl benzyl phthalate	20.0	16.1		ug/L		81	52 - 100
Chrysene	20.0	13.8		ug/L		69	51 - 100
Dibenz(a,h)anthracene	20.0	15.4		ug/L		77	52 - 101
Dibenzofuran	20.0	13.1		ug/L		65	53 - 100
Diethyl phthalate	20.0	13.7		ug/L		68	52 - 100
Dimethyl phthalate	20.0	14.1		ug/L		70	55 - 100
Di-n-butyl phthalate	20.0	15.1		ug/L		75	57 - 100
Di-n-octyl phthalate	20.0	14.9		ug/L		75	41 - 100
Fluoranthene	20.0	14.0		ug/L		70	56 - 100
Fluorene	20.0	14.0		ug/L		70	53 - 100
Hexachlorobenzene	20.0	16.1		ug/L		81	46 - 100
Hexachlorobutadiene	20.0	15.3		ug/L		76	42 - 101
Hexachlorocyclopentadiene	20.0	11.6		ug/L		58	38 - 102
Hexachloroethane	20.0	13.7		ug/L		68	46 - 100
Indeno[1,2,3-cd]pyrene	20.0	14.7		ug/L		74	54 - 100
Isophorone	20.0	14.8		ug/L		74	50 - 100
Methylphenol, 3 & 4	20.0	12.8		ug/L		64	51 - 100
Naphthalene	20.0	14.7		ug/L		74	53 - 100
Nitrobenzene	20.0	15.6		ug/L		78	47 - 100
N-Nitrosodi-n-propylamine	20.0	13.4		ug/L		67	43 - 103
N-Nitrosodiphenylamine	20.0	16.6		ug/L		83	53 - 100
Phenanthrene	20.0	14.3		ug/L		72	53 - 100
Phenol	20.0	13.4		ug/L		67	49 - 100
Pyrene	20.0	15.5		ug/L		77	53 - 100

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	77		23 - 128
2-Fluorobiphenyl	75		20 - 105
2-Fluorophenol (Surr)	70		20 - 105
Nitrobenzene-d5 (Surr)	77		20 - 107
Phenol-d5 (Surr)	67		20 - 106
Terphenyl-d14 (Surr)	71		22 - 120

Lab Sample ID: MB 180-448704/1-A
Matrix: Water
Analysis Batch: 449286

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448704

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L		10/09/23 14:41	10/16/23 07:51	1
1,2-Dichlorobenzene	ND		1.0	0.095	ug/L		10/09/23 14:41	10/16/23 07:51	1
1,3-Dichlorobenzene	ND		1.0	0.099	ug/L		10/09/23 14:41	10/16/23 07:51	1
1,4-Dichlorobenzene	ND		1.0	0.061	ug/L		10/09/23 14:41	10/16/23 07:51	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		10/09/23 14:41	10/16/23 07:51	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		10/09/23 14:41	10/16/23 07:51	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		10/09/23 14:41	10/16/23 07:51	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		10/09/23 14:41	10/16/23 07:51	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		10/09/23 14:41	10/16/23 07:51	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		10/09/23 14:41	10/16/23 07:51	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		10/09/23 14:41	10/16/23 07:51	1
2,4-Dinitrophenol	ND		10	1.5	ug/L		10/09/23 14:41	10/16/23 07:51	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		10/09/23 14:41	10/16/23 07:51	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		10/09/23 14:41	10/16/23 07:51	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		10/09/23 14:41	10/16/23 07:51	1
2-Chlorophenol	ND		1.0	0.13	ug/L		10/09/23 14:41	10/16/23 07:51	1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		10/09/23 14:41	10/16/23 07:51	1
2-Methylphenol	ND		1.0	0.30	ug/L		10/09/23 14:41	10/16/23 07:51	1
2-Nitroaniline	ND		5.0	0.55	ug/L		10/09/23 14:41	10/16/23 07:51	1
2-Nitrophenol	ND		1.0	0.19	ug/L		10/09/23 14:41	10/16/23 07:51	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		10/09/23 14:41	10/16/23 07:51	1
3-Nitroaniline	ND		5.0	0.44	ug/L		10/09/23 14:41	10/16/23 07:51	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		10/09/23 14:41	10/16/23 07:51	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		10/09/23 14:41	10/16/23 07:51	1
4-Chloro-3-methylphenol	ND		1.0	0.28	ug/L		10/09/23 14:41	10/16/23 07:51	1
4-Chloroaniline	ND		1.0	0.38	ug/L		10/09/23 14:41	10/16/23 07:51	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		10/09/23 14:41	10/16/23 07:51	1
4-Nitroaniline	ND		5.0	0.36	ug/L		10/09/23 14:41	10/16/23 07:51	1
4-Nitrophenol	ND		5.0	0.94	ug/L		10/09/23 14:41	10/16/23 07:51	1
Acenaphthene	ND		0.19	0.065	ug/L		10/09/23 14:41	10/16/23 07:51	1
Acenaphthylene	ND		0.19	0.065	ug/L		10/09/23 14:41	10/16/23 07:51	1
Anthracene	ND		0.19	0.049	ug/L		10/09/23 14:41	10/16/23 07:51	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		10/09/23 14:41	10/16/23 07:51	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		10/09/23 14:41	10/16/23 07:51	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		10/09/23 14:41	10/16/23 07:51	1
Benzo[g,h,i]perylene	ND		0.19	0.069	ug/L		10/09/23 14:41	10/16/23 07:51	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		10/09/23 14:41	10/16/23 07:51	1
Benzoic acid	ND		5.0	0.92	ug/L		10/09/23 14:41	10/16/23 07:51	1
Benzyl alcohol	ND		1.0	0.16	ug/L		10/09/23 14:41	10/16/23 07:51	1

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-448704/1-A
Matrix: Water
Analysis Batch: 449286

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		10/09/23 14:41	10/16/23 07:51	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		10/09/23 14:41	10/16/23 07:51	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		10/09/23 14:41	10/16/23 07:51	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		10/09/23 14:41	10/16/23 07:51	1
Butyl benzyl phthalate	ND		1.0	0.46	ug/L		10/09/23 14:41	10/16/23 07:51	1
Chrysene	ND		0.19	0.081	ug/L		10/09/23 14:41	10/16/23 07:51	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		10/09/23 14:41	10/16/23 07:51	1
Dibenzofuran	ND		1.0	0.19	ug/L		10/09/23 14:41	10/16/23 07:51	1
Diethyl phthalate	ND		1.0	0.57	ug/L		10/09/23 14:41	10/16/23 07:51	1
Dimethyl phthalate	ND		1.0	0.20	ug/L		10/09/23 14:41	10/16/23 07:51	1
Di-n-butyl phthalate	ND		1.0	0.74	ug/L		10/09/23 14:41	10/16/23 07:51	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		10/09/23 14:41	10/16/23 07:51	1
Fluoranthene	ND		0.19	0.060	ug/L		10/09/23 14:41	10/16/23 07:51	1
Fluorene	ND		0.19	0.069	ug/L		10/09/23 14:41	10/16/23 07:51	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		10/09/23 14:41	10/16/23 07:51	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		10/09/23 14:41	10/16/23 07:51	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		10/09/23 14:41	10/16/23 07:51	1
Hexachloroethane	ND		1.0	0.13	ug/L		10/09/23 14:41	10/16/23 07:51	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		10/09/23 14:41	10/16/23 07:51	1
Isophorone	ND		1.0	0.19	ug/L		10/09/23 14:41	10/16/23 07:51	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		10/09/23 14:41	10/16/23 07:51	1
Naphthalene	ND		0.19	0.059	ug/L		10/09/23 14:41	10/16/23 07:51	1
Nitrobenzene	ND		2.0	0.50	ug/L		10/09/23 14:41	10/16/23 07:51	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		10/09/23 14:41	10/16/23 07:51	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		10/09/23 14:41	10/16/23 07:51	1
Phenanthrene	ND		0.19	0.055	ug/L		10/09/23 14:41	10/16/23 07:51	1
Phenol	ND		1.0	0.49	ug/L		10/09/23 14:41	10/16/23 07:51	1
Pyrene	ND		0.19	0.054	ug/L		10/09/23 14:41	10/16/23 07:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		23 - 128	10/09/23 14:41	10/16/23 07:51	1
2-Fluorobiphenyl	68		20 - 105	10/09/23 14:41	10/16/23 07:51	1
2-Fluorophenol (Surr)	58		20 - 105	10/09/23 14:41	10/16/23 07:51	1
Nitrobenzene-d5 (Surr)	63		20 - 107	10/09/23 14:41	10/16/23 07:51	1
Phenol-d5 (Surr)	60		20 - 106	10/09/23 14:41	10/16/23 07:51	1
Terphenyl-d14 (Surr)	59		22 - 120	10/09/23 14:41	10/16/23 07:51	1

Lab Sample ID: LCS 180-448704/2-A
Matrix: Water
Analysis Batch: 449286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	20.0	15.7		ug/L		78	51 - 100
1,2-Dichlorobenzene	20.0	14.9		ug/L		75	51 - 100
1,3-Dichlorobenzene	20.0	14.8		ug/L		74	51 - 100
1,4-Dichlorobenzene	20.0	15.0		ug/L		75	52 - 100
1-Methylnaphthalene	20.0	15.9		ug/L		80	53 - 100
2,3,4,6-Tetrachlorophenol	20.0	17.2		ug/L		86	50 - 100

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-448704/2-A
Matrix: Water
Analysis Batch: 449286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	20.0	15.1		ug/L		76	55 - 100
2,4,6-Trichlorophenol	20.0	15.8		ug/L		79	54 - 100
2,4-Dichlorophenol	20.0	16.6		ug/L		83	55 - 100
2,4-Dimethylphenol	20.0	11.6		ug/L		58	51 - 100
2,4-Dinitrophenol	40.0	35.0		ug/L		87	32 - 100
2,4-Dinitrotoluene	20.0	17.2		ug/L		86	56 - 100
2,6-Dinitrotoluene	20.0	15.5		ug/L		77	56 - 101
2-Chloronaphthalene	20.0	13.5		ug/L		68	52 - 100
2-Chlorophenol	20.0	15.3		ug/L		77	53 - 100
2-Methylnaphthalene	20.0	16.6		ug/L		83	53 - 100
2-Methylphenol	20.0	14.2		ug/L		71	51 - 100
2-Nitroaniline	20.0	13.7		ug/L		69	47 - 104
2-Nitrophenol	20.0	16.7		ug/L		84	56 - 100
3,3'-Dichlorobenzidine	20.0	16.7		ug/L		84	42 - 100
3-Nitroaniline	20.0	14.5		ug/L		73	54 - 100
4,6-Dinitro-2-methylphenol	40.0	33.7		ug/L		84	48 - 100
4-Bromophenyl phenyl ether	20.0	15.6		ug/L		78	50 - 100
4-Chloro-3-methylphenol	20.0	16.2		ug/L		81	47 - 105
4-Chloroaniline	20.0	12.8		ug/L		64	48 - 100
4-Chlorophenyl phenyl ether	20.0	15.6		ug/L		78	52 - 100
4-Nitroaniline	20.0	15.9		ug/L		80	54 - 100
4-Nitrophenol	40.0	27.2		ug/L		68	37 - 120
Acenaphthene	20.0	14.8		ug/L		74	51 - 100
Acenaphthylene	20.0	15.2		ug/L		76	54 - 100
Anthracene	20.0	14.5		ug/L		73	54 - 100
Benzo[a]anthracene	20.0	14.5		ug/L		73	52 - 100
Benzo[a]pyrene	20.0	15.6		ug/L		78	52 - 100
Benzo[b]fluoranthene	20.0	13.1		ug/L		66	50 - 100
Benzo[g,h,i]perylene	20.0	15.3		ug/L		76	53 - 100
Benzo[k]fluoranthene	20.0	13.7		ug/L		68	49 - 100
Benzoic acid	20.0	17.5		ug/L		88	31 - 122
Benzyl alcohol	20.0	14.5		ug/L		73	33 - 107
Bis(2-chloroethoxy)methane	20.0	14.2		ug/L		71	49 - 100
Bis(2-chloroethyl)ether	20.0	13.8		ug/L		69	46 - 100
Bis(2-ethylhexyl) phthalate	20.0	13.6		ug/L		68	52 - 101
bis(chloroisopropyl) ether	20.0	13.7		ug/L		68	29 - 102
Butyl benzyl phthalate	20.0	14.2		ug/L		71	52 - 100
Chrysene	20.0	14.8		ug/L		74	51 - 100
Dibenz(a,h)anthracene	20.0	15.5		ug/L		77	52 - 101
Dibenzofuran	20.0	14.8		ug/L		74	53 - 100
Diethyl phthalate	20.0	15.4		ug/L		77	52 - 100
Dimethyl phthalate	20.0	14.9		ug/L		74	55 - 100
Di-n-butyl phthalate	20.0	14.7		ug/L		73	57 - 100
Di-n-octyl phthalate	20.0	11.2		ug/L		56	41 - 100
Fluoranthene	20.0	15.6		ug/L		78	56 - 100
Fluorene	20.0	14.9		ug/L		74	53 - 100
Hexachlorobenzene	20.0	16.5		ug/L		82	46 - 100
Hexachlorobutadiene	20.0	16.8		ug/L		84	42 - 101
Hexachlorocyclopentadiene	20.0	10.9		ug/L		55	38 - 102

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-448704/2-A
Matrix: Water
Analysis Batch: 449286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachloroethane	20.0	14.7		ug/L		74	46 - 100
Indeno[1,2,3-cd]pyrene	20.0	15.7		ug/L		78	54 - 100
Isophorone	20.0	14.8		ug/L		74	50 - 100
Methylphenol, 3 & 4	20.0	15.0		ug/L		75	51 - 100
Naphthalene	20.0	15.0		ug/L		75	53 - 100
Nitrobenzene	20.0	13.7		ug/L		68	47 - 100
N-Nitrosodi-n-propylamine	20.0	14.9		ug/L		75	43 - 103
N-Nitrosodiphenylamine	20.0	13.6		ug/L		68	53 - 100
Phenanthrene	20.0	13.9		ug/L		69	53 - 100
Phenol	20.0	14.1		ug/L		71	49 - 100
Pyrene	20.0	13.7		ug/L		69	53 - 100

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		23 - 128
2-Fluorobiphenyl	69		20 - 105
2-Fluorophenol (Surr)	78		20 - 105
Nitrobenzene-d5 (Surr)	70		20 - 107
Phenol-d5 (Surr)	73		20 - 106
Terphenyl-d14 (Surr)	69		22 - 120

Lab Sample ID: 180-163450-10 MS
Matrix: Water
Analysis Batch: 449286

Client Sample ID: SUPE-W-12CR-100323
Prep Type: Total/NA
Prep Batch: 448704

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	ND	F1	23.8	7.08	F1	ug/L		30	51 - 100
1,2-Dichlorobenzene	ND	F1	23.8	5.81	F1	ug/L		24	51 - 100
1,3-Dichlorobenzene	ND	F1	23.8	5.39	F1	ug/L		23	51 - 100
1,4-Dichlorobenzene	ND	F1	23.8	5.62	F1	ug/L		24	52 - 100
1-Methylnaphthalene	ND	F1	23.8	8.70	F1	ug/L		37	53 - 100
2,3,4,6-Tetrachlorophenol	ND	F1	23.8	10.4	F1	ug/L		43	50 - 100
2,4,5-Trichlorophenol	ND	F1	23.8	9.51	F1	ug/L		40	55 - 100
2,4,6-Trichlorophenol	ND	F1	23.8	9.56	F1	ug/L		40	54 - 100
2,4-Dichlorophenol	ND	F1	23.8	9.65	F1	ug/L		41	55 - 100
2,4-Dimethylphenol	ND	F1	23.8	3.42	F1	ug/L		14	51 - 100
2,4-Dinitrophenol	ND	F1	47.6	ND	F1	ug/L		0	32 - 100
2,4-Dinitrotoluene	ND	F1	23.8	11.0	F1	ug/L		46	56 - 100
2,6-Dinitrotoluene	ND	F1	23.8	10.2	F1	ug/L		43	56 - 101
2-Chloronaphthalene	ND	F1	23.8	8.18	F1	ug/L		34	52 - 100
2-Chlorophenol	ND	F1	23.8	8.32	F1	ug/L		35	53 - 100
2-Methylnaphthalene	ND	F1	23.8	8.89	F1	ug/L		37	53 - 100
2-Methylphenol	ND	F1	23.8	7.81	F1	ug/L		33	51 - 100
2-Nitroaniline	ND	F1	23.8	8.58	F1	ug/L		36	47 - 104
2-Nitrophenol	ND	F1	23.8	8.68	F1	ug/L		36	56 - 100
3,3'-Dichlorobenzidine	ND	F1	23.8	5.91	F1	ug/L		25	42 - 100
3-Nitroaniline	ND	F1	23.8	9.49	F1	ug/L		40	54 - 100
4,6-Dinitro-2-methylphenol	ND		47.6	22.8		ug/L		48	48 - 100
4-Bromophenyl phenyl ether	ND	F1	23.8	10.3	F1	ug/L		43	50 - 100

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-163450-10 MS

Matrix: Water

Analysis Batch: 449286

Client Sample ID: SUPE-W-12CR-100323

Prep Type: Total/NA

Prep Batch: 448704

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
4-Chloro-3-methylphenol	ND	F1	23.8	9.56	F1	ug/L		40	47 - 105
4-Chloroaniline	ND	F1	23.8	6.74	F1	ug/L		28	48 - 100
4-Chlorophenyl phenyl ether	ND	F1	23.8	9.80	F1	ug/L		41	52 - 100
4-Nitroaniline	ND	F1	23.8	9.98	F1	ug/L		42	54 - 100
4-Nitrophenol	ND		47.6	18.3		ug/L		38	37 - 120
Acenaphthene	ND	F1	23.8	9.03	F1	ug/L		38	51 - 100
Acenaphthylene	ND	F1	23.8	8.96	F1	ug/L		38	54 - 100
Anthracene	ND	F1	23.8	9.88	F1	ug/L		41	54 - 100
Benzo[a]anthracene	ND	F1	23.8	10.4	F1	ug/L		44	52 - 100
Benzo[a]pyrene	ND	F1	23.8	10.3	F1	ug/L		43	52 - 100
Benzo[b]fluoranthene	ND	F1	23.8	9.42	F1	ug/L		40	50 - 100
Benzo[g,h,i]perylene	ND	F1	23.8	10.7	F1	ug/L		45	53 - 100
Benzo[k]fluoranthene	ND	F1	23.8	9.89	F1	ug/L		42	49 - 100
Benzoic acid	ND		23.8	7.42		ug/L		31	31 - 122
Benzyl alcohol	ND		23.8	8.30		ug/L		35	33 - 107
Bis(2-chloroethoxy)methane	ND	F1	23.8	8.10	F1	ug/L		34	49 - 100
Bis(2-chloroethyl)ether	ND	F1	23.8	6.84	F1	ug/L		29	46 - 100
Bis(2-ethylhexyl) phthalate	ND		23.8	13.7		ug/L		57	52 - 101
bis(chloroisopropyl) ether	ND		23.8	7.53		ug/L		32	29 - 102
Butyl benzyl phthalate	ND	F1	23.8	9.68	F1	ug/L		41	52 - 100
Chrysene	ND	F1	23.8	10.5	F1	ug/L		44	51 - 100
Dibenz(a,h)anthracene	ND	F1	23.8	11.0	F1	ug/L		46	52 - 101
Dibenzofuran	ND	F1	23.8	9.42	F1	ug/L		40	53 - 100
Diethyl phthalate	ND	F1	23.8	10.4	F1	ug/L		43	52 - 100
Dimethyl phthalate	ND	F1	23.8	9.82	F1	ug/L		41	55 - 100
Di-n-butyl phthalate	1.5	F1	23.8	12.0	F1	ug/L		44	57 - 100
Di-n-octyl phthalate	ND	F1	23.8	7.90	F1	ug/L		33	41 - 100
Fluoranthene	ND	F1	23.8	11.0	F1	ug/L		46	56 - 100
Fluorene	ND	F1	23.8	9.83	F1	ug/L		41	53 - 100
Hexachlorobenzene	ND	F1	23.8	10.7	F1	ug/L		45	46 - 100
Hexachlorobutadiene	ND	F1	23.8	6.67	F1	ug/L		28	42 - 101
Hexachlorocyclopentadiene	ND	F1	23.8	1.43	F1	ug/L		6	38 - 102
Hexachloroethane	ND	F1	23.8	5.15	F1	ug/L		22	46 - 100
Indeno[1,2,3-cd]pyrene	ND	F1	23.8	10.7	F1	ug/L		45	54 - 100
Isophorone	ND	F1	23.8	8.16	F1	ug/L		34	50 - 100
Methylphenol, 3 & 4	ND	F1	23.8	8.47	F1	ug/L		36	51 - 100
Naphthalene	ND	F1	23.8	7.35	F1	ug/L		31	53 - 100
Nitrobenzene	ND	F1	23.8	7.66	F1	ug/L		32	47 - 100
N-Nitrosodi-n-propylamine	ND	F1	23.8	7.25	F1	ug/L		30	43 - 103
N-Nitrosodiphenylamine	ND	F1	23.8	6.84	F1	ug/L		29	53 - 100
Phenanthrene	0.092	J F1	23.8	9.98	F1	ug/L		42	53 - 100
Phenol	ND	F1	23.8	7.97	F1	ug/L		33	49 - 100
Pyrene	ND	F1	23.8	9.78	F1	ug/L		41	53 - 100

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	64		23 - 128
2-Fluorobiphenyl	44		20 - 105
2-Fluorophenol (Surr)	46		20 - 105

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-163450-10 MS
Matrix: Water
Analysis Batch: 449286

Client Sample ID: SUPE-W-12CR-100323
Prep Type: Total/NA
Prep Batch: 448704

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
<i>Nitrobenzene-d5 (Surr)</i>	49		20 - 107
<i>Phenol-d5 (Surr)</i>	50		20 - 106
<i>Terphenyl-d14 (Surr)</i>	52		22 - 120

Lab Sample ID: MB 180-448788/1-A
Matrix: Water
Analysis Batch: 449298

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L		10/10/23 11:14	10/16/23 11:15	1
1,2-Dichlorobenzene	ND		1.0	0.095	ug/L		10/10/23 11:14	10/16/23 11:15	1
1,3-Dichlorobenzene	ND		1.0	0.099	ug/L		10/10/23 11:14	10/16/23 11:15	1
1,4-Dichlorobenzene	ND		1.0	0.061	ug/L		10/10/23 11:14	10/16/23 11:15	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		10/10/23 11:14	10/16/23 11:15	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		10/10/23 11:14	10/16/23 11:15	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		10/10/23 11:14	10/16/23 11:15	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		10/10/23 11:14	10/16/23 11:15	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		10/10/23 11:14	10/16/23 11:15	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		10/10/23 11:14	10/16/23 11:15	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		10/10/23 11:14	10/16/23 11:15	1
2,4-Dinitrophenol	ND		10	1.5	ug/L		10/10/23 11:14	10/16/23 11:15	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		10/10/23 11:14	10/16/23 11:15	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		10/10/23 11:14	10/16/23 11:15	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		10/10/23 11:14	10/16/23 11:15	1
2-Chlorophenol	ND		1.0	0.13	ug/L		10/10/23 11:14	10/16/23 11:15	1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		10/10/23 11:14	10/16/23 11:15	1
2-Methylphenol	ND		1.0	0.30	ug/L		10/10/23 11:14	10/16/23 11:15	1
2-Nitroaniline	ND		5.0	0.55	ug/L		10/10/23 11:14	10/16/23 11:15	1
2-Nitrophenol	ND		1.0	0.19	ug/L		10/10/23 11:14	10/16/23 11:15	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		10/10/23 11:14	10/16/23 11:15	1
3-Nitroaniline	ND		5.0	0.44	ug/L		10/10/23 11:14	10/16/23 11:15	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		10/10/23 11:14	10/16/23 11:15	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		10/10/23 11:14	10/16/23 11:15	1
4-Chloro-3-methylphenol	ND		1.0	0.28	ug/L		10/10/23 11:14	10/16/23 11:15	1
4-Chloroaniline	ND		1.0	0.38	ug/L		10/10/23 11:14	10/16/23 11:15	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		10/10/23 11:14	10/16/23 11:15	1
4-Nitroaniline	ND		5.0	0.36	ug/L		10/10/23 11:14	10/16/23 11:15	1
4-Nitrophenol	ND		5.0	0.94	ug/L		10/10/23 11:14	10/16/23 11:15	1
Acenaphthene	ND		0.19	0.065	ug/L		10/10/23 11:14	10/16/23 11:15	1
Acenaphthylene	ND		0.19	0.065	ug/L		10/10/23 11:14	10/16/23 11:15	1
Anthracene	ND		0.19	0.049	ug/L		10/10/23 11:14	10/16/23 11:15	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		10/10/23 11:14	10/16/23 11:15	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		10/10/23 11:14	10/16/23 11:15	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		10/10/23 11:14	10/16/23 11:15	1
Benzo[g,h,i]perylene	ND		0.19	0.069	ug/L		10/10/23 11:14	10/16/23 11:15	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		10/10/23 11:14	10/16/23 11:15	1
Benzoic acid	ND		5.0	0.92	ug/L		10/10/23 11:14	10/16/23 11:15	1
Benzyl alcohol	ND		1.0	0.16	ug/L		10/10/23 11:14	10/16/23 11:15	1

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-448788/1-A
Matrix: Water
Analysis Batch: 449298

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		10/10/23 11:14	10/16/23 11:15	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		10/10/23 11:14	10/16/23 11:15	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		10/10/23 11:14	10/16/23 11:15	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		10/10/23 11:14	10/16/23 11:15	1
Butyl benzyl phthalate	ND		1.0	0.46	ug/L		10/10/23 11:14	10/16/23 11:15	1
Chrysene	ND		0.19	0.081	ug/L		10/10/23 11:14	10/16/23 11:15	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		10/10/23 11:14	10/16/23 11:15	1
Dibenzofuran	ND		1.0	0.19	ug/L		10/10/23 11:14	10/16/23 11:15	1
Diethyl phthalate	ND		1.0	0.57	ug/L		10/10/23 11:14	10/16/23 11:15	1
Dimethyl phthalate	ND		1.0	0.20	ug/L		10/10/23 11:14	10/16/23 11:15	1
Di-n-butyl phthalate	ND		1.0	0.74	ug/L		10/10/23 11:14	10/16/23 11:15	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		10/10/23 11:14	10/16/23 11:15	1
Fluoranthene	ND		0.19	0.060	ug/L		10/10/23 11:14	10/16/23 11:15	1
Fluorene	ND		0.19	0.069	ug/L		10/10/23 11:14	10/16/23 11:15	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		10/10/23 11:14	10/16/23 11:15	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		10/10/23 11:14	10/16/23 11:15	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		10/10/23 11:14	10/16/23 11:15	1
Hexachloroethane	ND		1.0	0.13	ug/L		10/10/23 11:14	10/16/23 11:15	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		10/10/23 11:14	10/16/23 11:15	1
Isophorone	ND		1.0	0.19	ug/L		10/10/23 11:14	10/16/23 11:15	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		10/10/23 11:14	10/16/23 11:15	1
Naphthalene	ND		0.19	0.059	ug/L		10/10/23 11:14	10/16/23 11:15	1
Nitrobenzene	ND		2.0	0.50	ug/L		10/10/23 11:14	10/16/23 11:15	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		10/10/23 11:14	10/16/23 11:15	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		10/10/23 11:14	10/16/23 11:15	1
Phenanthrene	ND		0.19	0.055	ug/L		10/10/23 11:14	10/16/23 11:15	1
Phenol	ND		1.0	0.49	ug/L		10/10/23 11:14	10/16/23 11:15	1
Pyrene	ND		0.19	0.054	ug/L		10/10/23 11:14	10/16/23 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		23 - 128	10/10/23 11:14	10/16/23 11:15	1
2-Fluorobiphenyl	67		20 - 105	10/10/23 11:14	10/16/23 11:15	1
2-Fluorophenol (Surr)	73		20 - 105	10/10/23 11:14	10/16/23 11:15	1
Nitrobenzene-d5 (Surr)	73		20 - 107	10/10/23 11:14	10/16/23 11:15	1
Phenol-d5 (Surr)	77		20 - 106	10/10/23 11:14	10/16/23 11:15	1
Terphenyl-d14 (Surr)	71		22 - 120	10/10/23 11:14	10/16/23 11:15	1

Lab Sample ID: LCS 180-448788/2-A
Matrix: Water
Analysis Batch: 449298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	20.0	14.1		ug/L		70	51 - 100
1,2-Dichlorobenzene	20.0	14.9		ug/L		75	51 - 100
1,3-Dichlorobenzene	20.0	14.9		ug/L		74	51 - 100
1,4-Dichlorobenzene	20.0	14.4		ug/L		72	52 - 100
1-Methylnaphthalene	20.0	15.4		ug/L		77	53 - 100
2,3,4,6-Tetrachlorophenol	20.0	14.7		ug/L		74	50 - 100

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-448788/2-A
Matrix: Water
Analysis Batch: 449298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	20.0	15.1		ug/L		76	55 - 100
2,4,6-Trichlorophenol	20.0	15.2		ug/L		76	54 - 100
2,4-Dichlorophenol	20.0	15.0		ug/L		75	55 - 100
2,4-Dimethylphenol	20.0	11.7		ug/L		59	51 - 100
2,4-Dinitrophenol	40.0	32.0		ug/L		80	32 - 100
2,4-Dinitrotoluene	20.0	16.7		ug/L		83	56 - 100
2,6-Dinitrotoluene	20.0	15.8		ug/L		79	56 - 101
2-Chloronaphthalene	20.0	13.9		ug/L		70	52 - 100
2-Chlorophenol	20.0	15.7		ug/L		79	53 - 100
2-Methylnaphthalene	20.0	15.9		ug/L		80	53 - 100
2-Methylphenol	20.0	16.3		ug/L		81	51 - 100
2-Nitroaniline	20.0	16.3		ug/L		81	47 - 104
2-Nitrophenol	20.0	15.6		ug/L		78	56 - 100
3,3'-Dichlorobenzidine	20.0	16.8		ug/L		84	42 - 100
3-Nitroaniline	20.0	17.0		ug/L		85	54 - 100
4,6-Dinitro-2-methylphenol	40.0	30.2		ug/L		76	48 - 100
4-Bromophenyl phenyl ether	20.0	13.7		ug/L		69	50 - 100
4-Chloro-3-methylphenol	20.0	16.5		ug/L		82	47 - 105
4-Chloroaniline	20.0	15.1		ug/L		76	48 - 100
4-Chlorophenyl phenyl ether	20.0	14.4		ug/L		72	52 - 100
4-Nitroaniline	20.0	17.5		ug/L		87	54 - 100
4-Nitrophenol	40.0	32.0		ug/L		80	37 - 120
Acenaphthene	20.0	14.5		ug/L		72	51 - 100
Acenaphthylene	20.0	16.2		ug/L		81	54 - 100
Anthracene	20.0	15.5		ug/L		78	54 - 100
Benzo[a]anthracene	20.0	15.3		ug/L		76	52 - 100
Benzo[a]pyrene	20.0	15.8		ug/L		79	52 - 100
Benzo[b]fluoranthene	20.0	14.3		ug/L		72	50 - 100
Benzo[g,h,i]perylene	20.0	14.1		ug/L		71	53 - 100
Benzo[k]fluoranthene	20.0	13.8		ug/L		69	49 - 100
Benzoic acid	20.0	18.5		ug/L		92	31 - 122
Benzyl alcohol	20.0	16.7		ug/L		83	33 - 107
Bis(2-chloroethoxy)methane	20.0	14.0		ug/L		70	49 - 100
Bis(2-chloroethyl)ether	20.0	13.4		ug/L		67	46 - 100
Bis(2-ethylhexyl) phthalate	20.0	17.5		ug/L		87	52 - 101
bis(chloroisopropyl) ether	20.0	16.4		ug/L		82	29 - 102
Butyl benzyl phthalate	20.0	17.6		ug/L		88	52 - 100
Chrysene	20.0	15.1		ug/L		75	51 - 100
Dibenz(a,h)anthracene	20.0	14.7		ug/L		74	52 - 101
Dibenzofuran	20.0	14.6		ug/L		73	53 - 100
Diethyl phthalate	20.0	15.3		ug/L		77	52 - 100
Dimethyl phthalate	20.0	14.6		ug/L		73	55 - 100
Di-n-butyl phthalate	20.0	16.9		ug/L		84	57 - 100
Di-n-octyl phthalate	20.0	16.6		ug/L		83	41 - 100
Fluoranthene	20.0	15.2		ug/L		76	56 - 100
Fluorene	20.0	15.1		ug/L		75	53 - 100
Hexachlorobenzene	20.0	13.5		ug/L		67	46 - 100
Hexachlorobutadiene	20.0	13.5		ug/L		68	42 - 101
Hexachlorocyclopentadiene	20.0	9.51		ug/L		48	38 - 102

Eurofins Pittsburgh

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-448788/2-A
Matrix: Water
Analysis Batch: 449298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachloroethane	20.0	14.9		ug/L		74	46 - 100
Indeno[1,2,3-cd]pyrene	20.0	14.7		ug/L		74	54 - 100
Isophorone	20.0	16.0		ug/L		80	50 - 100
Methylphenol, 3 & 4	20.0	16.4		ug/L		82	51 - 100
Naphthalene	20.0	15.3		ug/L		76	53 - 100
Nitrobenzene	20.0	15.0		ug/L		75	47 - 100
N-Nitrosodi-n-propylamine	20.0	16.8		ug/L		84	43 - 103
N-Nitrosodiphenylamine	20.0	14.7		ug/L		73	53 - 100
Phenanthrene	20.0	15.0		ug/L		75	53 - 100
Phenol	20.0	15.2		ug/L		76	49 - 100
Pyrene	20.0	14.8		ug/L		74	53 - 100

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>2,4,6-Tribromophenol (Surr)</i>	67		23 - 128
<i>2-Fluorobiphenyl</i>	68		20 - 105
<i>2-Fluorophenol (Surr)</i>	74		20 - 105
<i>Nitrobenzene-d5 (Surr)</i>	73		20 - 107
<i>Phenol-d5 (Surr)</i>	78		20 - 106
<i>Terphenyl-d14 (Surr)</i>	69		22 - 120

QC Association Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

GC/MS VOA

Analysis Batch: 686612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163450-1	SUPE-W-30C-100323	Total/NA	Water	8260C	
180-163450-2	SUPE-W-06A-100323	Total/NA	Water	8260C	
180-163450-3	SUPE-W-06C-100323	Total/NA	Water	8260C	
180-163450-4	SUPE-EB-1-100323	Total/NA	Water	8260C	
180-163450-5	SUPE-W-12A-100323	Total/NA	Water	8260C	
180-163450-6	SUPE-W-28C-100323	Total/NA	Water	8260C	
180-163450-8	SUPE-M-99A-100323	Total/NA	Water	8260C	
180-163450-9	SUPE-TB-01-100323	Total/NA	Water	8260C	
180-163450-10	SUPE-W-12CR-100323	Total/NA	Water	8260C	
180-163450-11	SUPE-W-30A-100323	Total/NA	Water	8260C	
180-163450-12	SUPE-W-04AR2-100323	Total/NA	Water	8260C	
180-163450-13	SUPE-W-10AR2-100423	Total/NA	Water	8260C	
180-163450-14	SUPE-EB-2-100423	Total/NA	Water	8260C	
MB 480-686612/8	Method Blank	Total/NA	Water	8260C	
LCS 480-686612/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 686979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163450-15	SUPE-M-99B-100423	Total/NA	Water	8260C	
MB 480-686979/8	Method Blank	Total/NA	Water	8260C	
LCS 480-686979/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 448702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163450-1	SUPE-W-30C-100323	Total/NA	Water	3520C	
180-163450-2	SUPE-W-06A-100323	Total/NA	Water	3520C	
180-163450-3	SUPE-W-06C-100323	Total/NA	Water	3520C	
180-163450-4	SUPE-EB-1-100323	Total/NA	Water	3520C	
180-163450-5	SUPE-W-12A-100323	Total/NA	Water	3520C	
180-163450-6	SUPE-W-28C-100323	Total/NA	Water	3520C	
180-163450-7	SUPE-W-18D-100323	Total/NA	Water	3520C	
180-163450-8	SUPE-M-99A-100323	Total/NA	Water	3520C	
MB 180-448702/1-A	Method Blank	Total/NA	Water	3520C	
LCS 180-448702/2-A	Lab Control Sample	Total/NA	Water	3520C	

Prep Batch: 448704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163450-10	SUPE-W-12CR-100323	Total/NA	Water	3520C	
180-163450-11	SUPE-W-30A-100323	Total/NA	Water	3520C	
180-163450-12	SUPE-W-04AR2-100323	Total/NA	Water	3520C	
MB 180-448704/1-A	Method Blank	Total/NA	Water	3520C	
LCS 180-448704/2-A	Lab Control Sample	Total/NA	Water	3520C	
180-163450-10 MS	SUPE-W-12CR-100323	Total/NA	Water	3520C	

Prep Batch: 448788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163450-13	SUPE-W-10AR2-100423	Total/NA	Water	3520C	
180-163450-14	SUPE-EB-2-100423	Total/NA	Water	3520C	
180-163450-15	SUPE-M-99B-100423	Total/NA	Water	3520C	

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QC Association Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

GC/MS Semi VOA (Continued)

Prep Batch: 448788 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-448788/1-A	Method Blank	Total/NA	Water	3520C	
LCS 180-448788/2-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 449026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163450-1	SUPE-W-30C-100323	Total/NA	Water	EPA 8270E LL	448702
180-163450-2	SUPE-W-06A-100323	Total/NA	Water	EPA 8270E LL	448702
180-163450-3	SUPE-W-06C-100323	Total/NA	Water	EPA 8270E LL	448702
180-163450-4	SUPE-EB-1-100323	Total/NA	Water	EPA 8270E LL	448702
180-163450-5	SUPE-W-12A-100323	Total/NA	Water	EPA 8270E LL	448702
180-163450-6	SUPE-W-28C-100323	Total/NA	Water	EPA 8270E LL	448702
180-163450-7	SUPE-W-18D-100323	Total/NA	Water	EPA 8270E LL	448702
180-163450-8	SUPE-M-99A-100323	Total/NA	Water	EPA 8270E LL	448702
MB 180-448702/1-A	Method Blank	Total/NA	Water	EPA 8270E LL	448702
LCS 180-448702/2-A	Lab Control Sample	Total/NA	Water	EPA 8270E LL	448702

Analysis Batch: 449281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163450-15	SUPE-M-99B-100423	Total/NA	Water	EPA 8270E LL	448788

Analysis Batch: 449286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163450-10	SUPE-W-12CR-100323	Total/NA	Water	EPA 8270E LL	448704
180-163450-11	SUPE-W-30A-100323	Total/NA	Water	EPA 8270E LL	448704
180-163450-12	SUPE-W-04AR2-100323	Total/NA	Water	EPA 8270E LL	448704
180-163450-14	SUPE-EB-2-100423	Total/NA	Water	EPA 8270E LL	448788
MB 180-448704/1-A	Method Blank	Total/NA	Water	EPA 8270E LL	448704
LCS 180-448704/2-A	Lab Control Sample	Total/NA	Water	EPA 8270E LL	448704
180-163450-10 MS	SUPE-W-12CR-100323	Total/NA	Water	EPA 8270E LL	448704

Analysis Batch: 449298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163450-13	SUPE-W-10AR2-100423	Total/NA	Water	EPA 8270E LL	448788
MB 180-448788/1-A	Method Blank	Total/NA	Water	EPA 8270E LL	448788
LCS 180-448788/2-A	Lab Control Sample	Total/NA	Water	EPA 8270E LL	448788

Prep Batch: 686639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163450-1	SUPE-W-30C-100323	Total/NA	Water	3510C	
180-163450-2	SUPE-W-06A-100323	Total/NA	Water	3510C	
180-163450-3	SUPE-W-06C-100323	Total/NA	Water	3510C	
180-163450-4	SUPE-EB-1-100323	Total/NA	Water	3510C	
180-163450-5	SUPE-W-12A-100323	Total/NA	Water	3510C	
180-163450-6	SUPE-W-28C-100323	Total/NA	Water	3510C	
180-163450-7	SUPE-W-18D-100323	Total/NA	Water	3510C	
180-163450-8	SUPE-M-99A-100323	Total/NA	Water	3510C	
180-163450-10	SUPE-W-12CR-100323	Total/NA	Water	3510C	
180-163450-11	SUPE-W-30A-100323	Total/NA	Water	3510C	
180-163450-12	SUPE-W-04AR2-100323	Total/NA	Water	3510C	
180-163450-13	SUPE-W-10AR2-100423	Total/NA	Water	3510C	
180-163450-14	SUPE-EB-2-100423	Total/NA	Water	3510C	

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QC Association Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 180-163450-1

GC/MS Semi VOA (Continued)

Prep Batch: 686639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163450-15	SUPE-M-99B-100423	Total/NA	Water	3510C	
MB 480-686639/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-686639/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-686639/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 686733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163450-1	SUPE-W-30C-100323	Total/NA	Water	8270D LL	686639
180-163450-2	SUPE-W-06A-100323	Total/NA	Water	8270D LL	686639
180-163450-3	SUPE-W-06C-100323	Total/NA	Water	8270D LL	686639
180-163450-4	SUPE-EB-1-100323	Total/NA	Water	8270D LL	686639
180-163450-5	SUPE-W-12A-100323	Total/NA	Water	8270D LL	686639
180-163450-6	SUPE-W-28C-100323	Total/NA	Water	8270D LL	686639
180-163450-7	SUPE-W-18D-100323	Total/NA	Water	8270D LL	686639
180-163450-8	SUPE-M-99A-100323	Total/NA	Water	8270D LL	686639
180-163450-10	SUPE-W-12CR-100323	Total/NA	Water	8270D LL	686639
180-163450-11	SUPE-W-30A-100323	Total/NA	Water	8270D LL	686639
180-163450-12	SUPE-W-04AR2-100323	Total/NA	Water	8270D LL	686639
MB 480-686639/1-A	Method Blank	Total/NA	Water	8270D LL	686639
LCS 480-686639/2-A	Lab Control Sample	Total/NA	Water	8270D LL	686639
LCSD 480-686639/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	686639

Analysis Batch: 686737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-163450-13	SUPE-W-10AR2-100423	Total/NA	Water	8270D LL	686639
180-163450-14	SUPE-EB-2-100423	Total/NA	Water	8270D LL	686639
180-163450-15	SUPE-M-99B-100423	Total/NA	Water	8270D LL	686639



Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502080



Project Name: Superior, WI - 2023 OM&M Program
 Project Number: OM-0556-23
 Laboratory: TABUF
 Shipment Method: FEDEX
 Program: Superior 2023 2SA Sampling_001

Company: Field & Technical Services
 Address: 200 Third Avenue
 Carnegie, PA 15106
 (412) 279-3363

Client: Beazer East, Inc.
 Contact: dvanryn.2006@f-ts.com

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative																		Notes:
					8260C_VOA+naphtha (Buffalo)	8270D_LL_PCP (Buffalo) (1L)																	
					HCL	None																	
				Total Bottle Count																			
10/04/2023	0944	GW	SUPE-W-10AR2-100423	5	3	2																	
10/04/2023	0954	GW	SUPE-EB-2-100423	5	3	2																	
10/04/2023	1039	GW	SUPE-M-99B-100423	5	3	2																	



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Dakota Vanryn	Printed Name: Heeryn Rucka	Printed Name:	Printed Name:	
Firm: FTS	Firm: Eli FTS	Firm:	Firm:	
Date/Time: 10/04/2023 1158	Date/Time: 10-5-23 0910	Date/Time:	Date/Time:	

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Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502081

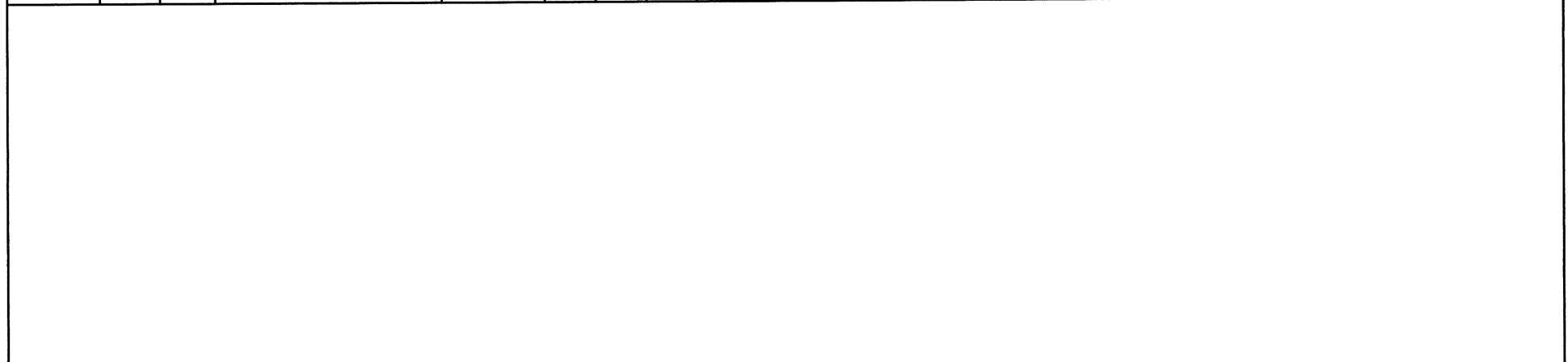


Project Name: Superior, WI - 2023 OM&M Program
 Project Number: OM-0556-23
 Laboratory: TACHI
 Shipment Method: FEDEX
 Program: Superior 2023 2SA Sampling_001

Company: Field & Technical Services
 Address: 200 Third Avenue
 Carnegie, PA 15106
 (412) 279-3363

Client: Beazer East, Inc.
 Contact: dvanryn.2006@f-ts.com

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8270D_SVOC (less naphthalene) (Chicago)															Notes:
						Preservative	Total Bottle Count													
10/04/2023	0944	GW	SUPE-W-10AR2-100423	2	2															
10/04/2023	0954	GW	SUPE-EB-2-100423	2	2															
10/04/2023	1039	GW	SUPE-M-99B-100423	2	2															



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
	Signature:	Signature:	Signature:	<input type="checkbox"/> Rush <input checked="" type="checkbox"/> Standard
Printed Name: Dakota Vanryn	Printed Name: Keenya Rusk	Printed Name:	Printed Name:	
Firm: FTS	Firm: E.I. DuPont	Firm:	Firm:	
Date/Time: 10/04/2023 1158	Date/Time: 10-5-23 0910	Date/Time:	Date/Time:	

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10/23/2023 (Rev. 1)



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-163450-1

Login Number: 163450

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-163450-1

Login Number: 163450

List Number: 2

Creator: Kolb, Chris M

List Source: Eurofins Buffalo

List Creation: 10/06/23 05:05 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8 2.1 2.4 ir gun #1 ice
COC is present.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



APPENDIX D
Data Summary Tables

First Semi-Annual Event

Table D1
Summary of Detected Constituents
First Semi-Annual 2023 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
8270D LL / 8270E LL				
W-30A	1,2-Dichlorobenzene	0.11 J	60	600
W-04AR2	1-Methylnaphthalene	0.059 J	NA	NA
W-04AR2 DUP	1-Methylnaphthalene	0.072 J	NA	NA
W-10AR2	1-Methylnaphthalene	7.3	NA	NA
W-28C	1-Methylnaphthalene	0.088 J	NA	NA
W-04AR2	2-Methylnaphthalene	0.099 J	NA	NA
W-04AR2 DUP	2-Methylnaphthalene	0.12 J	NA	NA
W-28C	2-Methylnaphthalene	0.091 J	NA	NA
W-04AR2	Acenaphthene	0.24	NA	NA
W-04AR2 DUP	Acenaphthene	0.26	NA	NA
W-10AR2	Acenaphthene	36	NA	NA
W-12A	Acenaphthene	0.059 J	NA	NA
W-28C	Acenaphthene	0.062 J	NA	NA
W-30A	Acenaphthene	0.074 J	NA	NA
W-10AR2	Acenaphthylene	0.86	NA	NA
W-04AR2	Anthracene	1.1	600	3000
W-04AR2 DUP	Anthracene	1	600	3000
W-10AR2	Anthracene	0.32	600	3000
W-12A	Anthracene	0.064 J	600	3000
W-30A	Anthracene	0.39	600	3000
W-04AR2	Benzo(a)anthracene	0.17	NA	NA
W-04AR2 DUP	Benzo(a)anthracene	0.13 J	NA	NA
W-04AR2	Benzo(a)pyrene	0.076 J	0.02	0.2
W-04AR2	Benzo(b)fluoranthene	0.17 J	0.02	0.2
W-04AR2 DUP	Benzo(b)fluoranthene	0.089 J	0.02	0.2
W-04AR2	Benzo(k)fluoranthene	0.081 J	NA	NA
W-04AR2	Butyl benzyl phthalate	0.84 J+	NA	NA
W-04AR2	Chrysene	0.24 J	0.02	0.2
W-04AR2 DUP	Chrysene	0.13 J	0.02	0.2
W-04AR2	Dibenzofuran	0.2 J	NA	NA
W-04AR2 DUP	Dibenzofuran	0.21 J	NA	NA
W-10AR2	Dibenzofuran	8.7	NA	NA
W-04AR2	Fluoranthene	0.71 J	80	400
W-04AR2 DUP	Fluoranthene	0.5 J	80	400
W-06A	Fluoranthene	0.16 J	80	400
W-06C	Fluoranthene	0.092 J	80	400
W-10AR2	Fluoranthene	0.78	80	400
W-12A	Fluoranthene	0.087 J	80	400
W-12CR	Fluoranthene	0.053 J	80	400
W-30A	Fluoranthene	0.053 J	80	400
W-04AR2	Fluorene	0.23	80	400
W-04AR2 DUP	Fluorene	0.24	80	400
W-10AR2	Fluorene	8.5	80	400
W-04AR2	Phenanthrene	0.73 J+	NA	NA
W-04AR2 DUP	Phenanthrene	0.76 J+	NA	NA
W-06A	Phenanthrene	0.22 J+	NA	NA
W-10AR2	Phenanthrene	1.2 J+	NA	NA
W-04AR2	Pyrene	0.55	50	250
W-04AR2 DUP	Pyrene	0.44	50	250
W-06A	Pyrene	0.084 J	50	250
W-06C	Pyrene	0.066 J	50	250
W-10AR2	Pyrene	0.53	50	250
W-12A	Pyrene	0.054 J	50	250
W-30A	Pyrene	0.05 J	50	250

**Table D1
Summary of Detected Constituents
First Semi-Annual 2023 Sampling Event
Superior Facility
Superior, Wisconsin**

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
8260C				
W-10AR2	1,2,4-Trimethylbenzene	6.9	96*	480*
W-10AR2	Benzene	15	0.5	5
W-10AR2	Ethylbenzene	25	140	700
W-04AR2	Naphthalene	0.72 J	10	100
W-04AR2 DUP	Naphthalene	0.94 J	10	100
W-10AR2	Naphthalene	1.5	10	100
W-30A	Naphthalene	2	10	100
W-10AR2	Toluene	1.7	160	800
W-10AR2	Xylene, Meta & Para	2.4	400**	2000**
W-10AR2	Xylene, Ortho	12	400**	2000**
8290A				
W-04AR2 DUP	1,2,3,4,6,7,8-HPCDD	0.000054 J	NA	NA
W-12A	1,2,3,4,6,7,8-HPCDD	0.000069	NA	NA
W-30A	1,2,3,4,6,7,8-HPCDD	0.00013	NA	NA
W-04AR2	1,2,3,4,7,8-HXCDF	0.0000055 J	NA	NA
W-04AR2 DUP	1,2,3,4,7,8-HXCDF	0.000013 JI	NA	NA
W-06A	1,2,3,4,7,8-HXCDF	0.0000009 JI	NA	NA
W-10AR2	1,2,3,4,7,8-HXCDF	0.0000011 JI	NA	NA
W-12A	1,2,3,4,7,8-HXCDF	0.0000051 J	NA	NA
W-12CR	1,2,3,4,7,8-HXCDF	0.0000082 JI	NA	NA
W-28C	1,2,3,4,7,8-HXCDF	0.0000019 J	NA	NA
W-28C DUP	1,2,3,4,7,8-HXCDF	0.0000014 J	NA	NA
W-30A	1,2,3,4,7,8-HXCDF	0.0000078 J	NA	NA
W-04AR2 DUP	1,2,3,6,7,8-HXCDF	0.0000017 JI	NA	NA
W-06A	1,2,3,6,7,8-HXCDF	0.00000088 JI	NA	NA
W-06C	1,2,3,6,7,8-HXCDF	0.0000011 JI	NA	NA
W-10AR2	1,2,3,6,7,8-HXCDF	0.0000017 JI	NA	NA
W-12A	1,2,3,6,7,8-HXCDF	0.0000064 JI	NA	NA
W-12CR	1,2,3,6,7,8-HXCDF	0.0000087 JI	NA	NA
W-28C	1,2,3,6,7,8-HXCDF	0.0000011 J	NA	NA
W-28C DUP	1,2,3,6,7,8-HXCDF	0.0000011 JI	NA	NA
W-30A	1,2,3,6,7,8-HXCDF	0.000015 J	NA	NA
W-04AR2	1,2,3,7,8,9-HXCDD	0.000001 JI	NA	NA
W-04AR2 DUP	1,2,3,7,8,9-HXCDD	0.0000021 J	NA	NA
W-06A	1,2,3,7,8,9-HXCDD	0.00000054 JI	NA	NA
W-10AR2	1,2,3,7,8,9-HXCDD	0.00000053 JI	NA	NA
W-12A	1,2,3,7,8,9-HXCDD	0.0000017 JI	NA	NA
W-12CR	1,2,3,7,8,9-HXCDD	0.00000035 JI	NA	NA
W-28C	1,2,3,7,8,9-HXCDD	0.00000054 J	NA	NA
W-28C DUP	1,2,3,7,8,9-HXCDD	0.00000063 JI	NA	NA
W-30A	1,2,3,7,8,9-HXCDD	0.0000024 J	NA	NA
W-30C	1,2,3,7,8,9-HXCDD	0.00000044 J	NA	NA
W-06A	1,2,3,7,8,9-HXCDF	0.0000004 JI	NA	NA
W-04AR2	2,3,4,6,7,8-HXCDF	0.00000066 JI	NA	NA
W-06A	2,3,4,6,7,8-HXCDF	0.00000055 JI	NA	NA
W-06C	2,3,4,6,7,8-HXCDF	0.00000096 JI	NA	NA
W-10AR2	2,3,4,6,7,8-HXCDF	0.00000086 JI	NA	NA
W-12A	2,3,4,6,7,8-HXCDF	0.0000012 JI	NA	NA
W-30A	2,3,4,6,7,8-HXCDF	0.0000022 JI	NA	NA
W-06A	2,3,7,8-TCDD	0.00000021 JI	NA	NA
W-12CR	2,3,7,8-TCDD	0.00000026 J	NA	NA
W-30C	2,3,7,8-TCDD	0.0000002 JI	NA	NA
W-04AR2	OCDD	0.00013 J	NA	NA
W-04AR2 DUP	OCDD	0.00054 J	NA	NA

**Table D1
Summary of Detected Constituents
First Semi-Annual 2023 Sampling Event
Superior Facility
Superior, Wisconsin**

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
W-06A	OCDD	0.00011	NA	NA
W-10AR2	OCDD	0.00021	NA	NA
W-12A	OCDD	0.00057	NA	NA
W-30A	OCDD	0.0016	NA	NA
W-30A	OCDF	0.00011	NA	NA
W-04AR2	Total HPCDD	0.000086 JI	NA	NA
W-04AR2 DUP	Total HPCDD	0.00046 J	NA	NA
W-12A	Total HPCDD	0.00013	NA	NA
W-30A	Total HPCDD	0.00029	NA	NA
W-12A	Total HPCDF	0.000063 I	NA	NA
W-30A	Total HPCDF	0.00015	NA	NA
W-04AR2	Total HXCDF	0.0000081 JI	NA	NA
W-04AR2 DUP	Total HXCDF	0.000021 JI	NA	NA
W-06A	Total HXCDF	0.000011 JI	NA	NA
W-06C	Total HXCDF	0.0000038 JI	NA	NA
W-10AR2	Total HXCDF	0.000028 JI	NA	NA
W-12A	Total HXCDF	0.000068 I	NA	NA
W-12CR	Total HXCDF	0.0000017 JI	NA	NA
W-28C	Total HXCDF	0.0000046 JI	NA	NA
W-28C DUP	Total HXCDF	0.0000034 JI	NA	NA
W-30A	Total HXCDF	0.00017 I	NA	NA
W-30C	Total HXCDF	0.0000058 JI	NA	NA
W-12A	Total PECDF	0.000052 I	NA	NA
W-30A	Total PECDF	0.00017 I	NA	NA
W-12A	Total TCDF	0.000024 J+I	NA	NA
W-30A	Total TCDF	0.000033 J+	NA	NA
W-30C	Total TCDF	0.000011 J+I	NA	NA
W-04AR2	2,3,7,8-TCDD TEQ	2.60E-07	0.000003	0.00003
W-04AR2 DUP	2,3,7,8-TCDD TEQ	1.21E-06	0.000003	0.00003
W-06A	2,3,7,8-TCDD TEQ	5.70E-07	0.000003	0.00003
W-06C	2,3,7,8-TCDD TEQ	2.06E-07	0.000003	0.00003
W-10AR2	2,3,7,8-TCDD TEQ	4.82E-07	0.000003	0.00003
W-12A	2,3,7,8-TCDD TEQ	2.30E-06	0.000003	0.00003
W-12CR	2,3,7,8-TCDD TEQ	4.64E-07	0.000003	0.00003
W-28C	2,3,7,8-TCDD TEQ	3.54E-07	0.000003	0.00003
W-28C DUP	2,3,7,8-TCDD TEQ	3.13E-07	0.000003	0.00003
W-30A	2,3,7,8-TCDD TEQ	4.55E-06	0.000003	0.00003
W-30C	2,3,7,8-TCDD TEQ	2.44E-07	0.000003	0.00003

Notes:

 - Indicates the detected value exceeds one or more specified standards.

PAL - Preventative Action Limit

ES - Enforcement Standard

NA - Not available

J - Estimated

J+ - Estimated biased high

I - Value is estimated maximum possible concentration.

* - Total trimethylbenzene standard

** - Total xylene standard

At the request of WDNR, 2,3,7,8-TCDD TEQ values are compared to the congener-specific PAL and ES for 2,3,7,8-TCDD.

Second Semi-Annual Event

Table D2
Summary of Detected Constituents
Second Semi-Annual 2023 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
8270D LL / 8270E LL				
W-10AR2	1-Methylnaphthalene	0.99 J	NA	NA
W-10AR2 DUP	1-Methylnaphthalene	2.3 J	NA	NA
W-10AR2	Acenaphthene	11 J	NA	NA
W-10AR2 DUP	Acenaphthene	27 J	NA	NA
W-10AR2	Acenaphthylene	0.46 J	NA	NA
W-10AR2 DUP	Acenaphthylene	0.87 J	NA	NA
W-04AR2	Anthracene	1.1	600	3000
W-06A	Anthracene	0.12 J	600	3000
W-06C	Anthracene	0.17 J	600	3000
W-10AR2	Anthracene	0.081 J	600	3000
W-10AR2 DUP	Anthracene	0.3 J	600	3000
W-12A	Anthracene	0.11 J	600	3000
W-12CR DUP	Anthracene	0.075 J	600	3000
W-30A	Anthracene	0.57	600	3000
W-30C	Anthracene	0.22 J	600	3000
W-06C	Benzo(a)anthracene	0.28	NA	NA
W-10AR2 DUP	Benzo(a)anthracene	0.061 J	NA	NA
W-06C	Benzo(a)pyrene	0.11 J	0.02	0.2
W-06C	Benzo(b)fluoranthene	0.17 J	0.02	0.2
W-12A	bis(2-Ethylhexyl)phthalate	8 J	0.6	6
W-12CR DUP	bis(2-Ethylhexyl)phthalate	11 J	0.6	6
W-18D	bis(2-Ethylhexyl)phthalate	12	0.6	6
W-12CR DUP	Butyl benzyl phthalate	0.6 J	NA	NA
W-04AR2	Chrysene	0.1 J	0.02	0.2
W-06C	Chrysene	0.38	0.02	0.2
W-10AR2 DUP	Chrysene	0.088 J	0.02	0.2
W-10AR2	Dibenzofuran	1.4 J	NA	NA
W-10AR2 DUP	Dibenzofuran	3.2 J	NA	NA
W-04AR2	Fluoranthene	0.15 J	80	400
W-06A	Fluoranthene	0.18 J	80	400
W-06C	Fluoranthene	1.4	80	400
W-10AR2	Fluoranthene	0.4 J	80	400
W-10AR2 DUP	Fluoranthene	0.91 J	80	400
W-12A	Fluoranthene	0.14 J	80	400
W-12CR DUP	Fluoranthene	0.12 J	80	400
W-04AR2	Fluorene	0.088 J	80	400
W-10AR2	Fluorene	2.2 J	80	400
W-10AR2 DUP	Fluorene	5.3 J	80	400
W-12CR DUP	Fluorene	0.09 J	80	400
W-18D	Naphthalene	0.37	10	100
W-06A	Phenanthrene	0.24 J+	NA	NA
W-06C	Phenanthrene	0.38 J+	NA	NA
W-10AR2 DUP	Phenol	0.59 J	400	2000
W-04AR2	Pyrene	0.079 J	50	250
W-06A	Pyrene	0.096 J	50	250
W-06C	Pyrene	0.96	50	250
W-10AR2	Pyrene	0.28 J	50	250
W-10AR2 DUP	Pyrene	0.48 J	50	250
W-12A	Pyrene	0.075 J	50	250
W-12CR DUP	Pyrene	0.076 J	50	250

Table D2
Summary of Detected Constituents
Second Semi-Annual 2023 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
8260C				
W-10AR2	1,2,4-Trimethylbenzene	10	96*	480*
W-10AR2 DUP	1,2,4-Trimethylbenzene	11	96*	480*
W-10AR2	Benzene	22	0.5	5
W-10AR2 DUP	Benzene	20	0.5	5
W-10AR2	Ethylbenzene	45	140	700
W-10AR2 DUP	Ethylbenzene	45	140	700
W-10AR2	Naphthalene	1.6	10	100
W-10AR2 DUP	Naphthalene	1.5	10	100
W-30A	Naphthalene	0.91 J	10	100
W-10AR2	Toluene	2.2	160	800
W-10AR2 DUP	Toluene	2.1	160	800
W-10AR2	Xylene, Meta & Para	3	400**	2000**
W-10AR2 DUP	Xylene, Meta & Para	3	400**	2000**
W-10AR2	Xylene, Ortho	16	400**	2000**
W-10AR2 DUP	Xylene, Ortho	15	400**	2000**

Notes:

 - Indicates the detected value exceeds one or more specified standards.

PAL - Preventative Action Limit

ES - Enforcement Standard

NA - Not available

J - Estimated

J+ - Estimated biased high

* - Total trimethylbenzene standard

** - Total xylene standard

APPENDIX E

Linear Regression Analysis

BENZENE STATISTICAL ANALYSIS

	W-10AR2 Benzene	W-30A Benzene	PAL	ES	
Feb-99	140	0	0.5	5	Benzene data for Feb-99 W-10AR2 and May-99 W-10AR2 not included; Well W-10A was abandoned prior to 3rd quarter 1999 sampling and well W-10AR was installed. Data is not available for W-10A.
May-99	140	0	0.5	5	
Aug-99	140	0	0.5	5	
Nov-99	140	0	0.5	5	
Feb-00	130	0	0.5	5	
May-00	110	0	0.5	5	
Aug-00	0	0	0.5	5	
Nov-00	120	0	0.5	5	
Feb-01	100	14	0.5	5	
May-01	73	0	0.5	5	
Aug-01	0	32	0.5	5	
Dec-01	91	100	0.5	5	
Apr-02	28	2.8	0.5	5	
Oct-02	63	0	0.5	5	
Apr-03	75	19	0.5	5	
Oct-03	11	0	0.5	5	
Apr-04	41	0.18	0.5	5	
Oct-04	44	0	0.5	5	
Apr-05	54	0	0.5	5	
Oct-05	14	3.7	0.5	5	
Apr-06	35	0.14	0.5	5	
Oct-06	46	13	0.5	5	
Apr-07	5	0	0.5	5	
Oct-07	0	0	0.5	5	
May-08	3.7	0	0.5	5	
Oct-08	5.5	0	0.5	5	
Apr-09	5.4	0.4	0.5	5	
Oct-09	21	0.29	0.5	5	
Apr-10	8.6	0.35	0.5	5	
Oct-10	1.2	8.9	0.5	5	
Apr-11	0	0	0.5	5	
Oct-11	28	22	0.5	5	
Apr-12	2.2	0	0.5	5	
Oct-12	30	17	0.5	5	
May-13	2.4	0	0.5	5	
Oct-13	17	2.3	0.5	5	
Apr-14	0.64	0	0.5	5	
Oct-14	9.3	3.7	0.5	5	
Apr-15	8.7	0.33	0.5	5	
Oct-15	13	8.2	0.5	5	
Apr-16	5.8	2.5	0.5	5	
Oct-16	12	8.5	0.5	5	
Apr-17	8.6	5.6	0.5	5	
Oct-17	16	11	0.5	5	
May-18	13	8.9	0.5	5	
Oct-18	16	3.6	0.5	5	
Apr-19	17	0.76	0.5	5	
Oct-19	22	2.4	0.5	5	
Apr-20	18	5.6	0.5	5	
Oct-20	18	9.6	0.5	5	
Apr-21	15	1.8	0.5	5	
Oct-21	26	18	0.5	5	
Apr-22	9.4	0	0.5	5	
Oct-22	19	13	0.5	5	
Apr-23	15	0	0.5	5	
Oct-23	22	0	0.5	5	

SUMMARY OUTPUT FOR W-10AR2 (August 1999 - October 2023)

SUMMARY OUTPUT

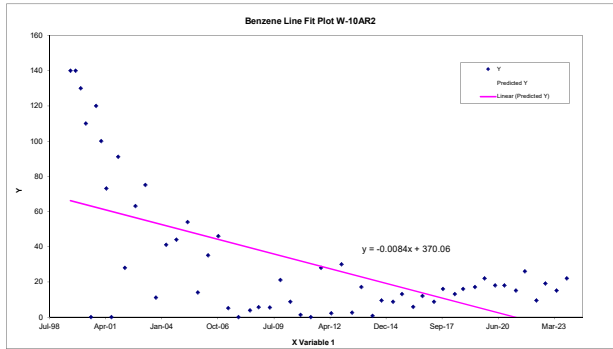
Regression Statistics	
Multiple R	0.597840372
R Square	0.35741111
Adjusted R Square	0.34505567
Standard Error	31.19204889
Observations	54

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	28140.36789	28140.36789	28.92290839	1.81151E-06
Residual	52	50593.08351	972.9439137		
Total	53	78733.4512			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	370.0569398	62.99740662	5.874161209	3.04049E-07	243.6433891	496.4704906	243.6433891	496.4704906
X Variable 1	-0.008355382	0.001553622	-5.378002268	1.81151E-06	-0.011472952	-0.005237811	-0.011472952	-0.005237811

RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	68.14684148	73.85358554
2	65.37794635	74.62205365
3	64.60925123	65.39074877
4	63.85726688	46.14273312
5	63.08857176	-63.08857176
6	62.31987665	57.68612335
7	61.55118153	38.44681847
8	60.78248642	12.19244744
9	60.01379131	-60.01379131
10	59.24509620	31.98449912
11	58.47640109	-30.00849989
12	57.70770598	6.520535158
13	56.93901087	20.04121483
14	56.17031576	-42.42975052
15	55.40162065	-10.87564853
16	54.63292554	-6.34681478
17	53.86423043	5.299395516
18	53.09553532	-33.17156983
19	52.32684021	-10.85089017
20	51.55814510	1.878144684
21	50.78945000	-37.81786861
22	50.02075489	-41.09720714
23	49.25205978	-35.70106466
24	48.48336467	-32.60598005
25	47.71466956	-31.01619339
26	46.94597445	-13.88915854
27	46.17727934	-24.78518984
28	45.40858423	-30.64779981
29	44.63988912	-30.33547552
30	43.87119401	-0.80644067
31	43.10249890	-25.10247186
32	42.33380379	4.234918267
33	41.56510868	-21.78591459
34	40.79641357	-8.83242758
35	40.02771846	-20.50455986
36	39.25902335	-10.4893392
37	38.49032824	-9.39484138
38	37.72163313	-3.749624885
39	36.95293802	-9.270193164
40	36.18424291	-1.71662133
41	35.41554780	-3.412123464
42	34.64685269	5.33092988
43	33.87815758	4.08723144
44	33.10946247	8.386096544
45	32.34076736	11.11237132
46	31.57207225	17.53278621
47	30.80337714	15.10359796
48	30.03468203	16.50730209
49	29.26598692	15.20344457
50	28.49729181	27.54868103
51	27.72859670	12.65315889
52	26.95990159	23.59837534
53	26.19120648	21.2610963
54	25.42251137	29.79013151



BENZENE STATISTICAL ANALYSIS

SUMMARY OUTPUT FOR W-30A (February 1999 - October 2023)

SUMMARY OUTPUT

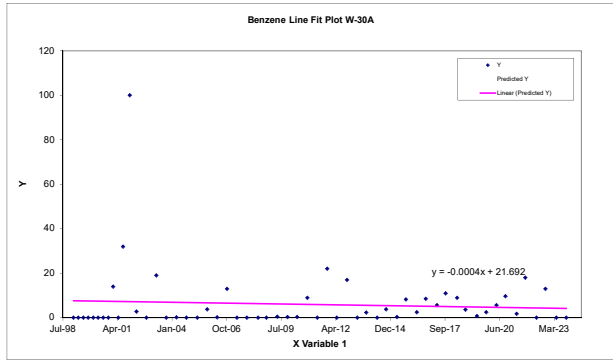
Regression Statistics	
Multiple R	0.075294496
R Square	0.005699281
Adjusted R Square	-0.012744271
Standard Error	14.61545488
Observations	56

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	65.7679074	65.7679074	0.307885581	0.581271789
Residual	54	11535.02215	213.6115213		
Total	55	11600.79008			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	21.69192653	28.23352861	0.768303772	0.445653782	-34.91289021	78.28674327	-34.91289021	78.28674327
X Variable 1	-0.000387748	0.000688904	-0.554874383	0.581271789	-0.001788795	0.001013269	-0.001788795	0.001013269

RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	7.658540809	-7.658540809
2	7.624031212	-7.624031212
3	7.588358371	-7.588358371
4	7.552685529	-7.552685529
5	7.517012687	-7.517012687
6	7.481339846	-7.481339846
7	7.445667004	-7.445667004
8	7.410000162	-7.410000162
9	7.374327321	-7.374327321
10	7.338654479	-7.338654479
11	7.302981638	-7.302981638
12	7.267308796	-7.267308796
13	7.231635955	-7.231635955
14	7.195963113	-7.195963113
15	7.160290272	-7.160290272
16	7.124617430	-7.124617430
17	7.088944589	-7.088944589
18	7.053271747	-7.053271747
19	7.017598906	-7.017598906
20	6.981926064	-6.981926064
21	6.946253223	-6.946253223
22	6.910580381	-6.910580381
23	6.874907540	-6.874907540
24	6.839234698	-6.839234698
25	6.803561857	-6.803561857
26	6.767889015	-6.767889015
27	6.732216174	-6.732216174
28	6.696543332	-6.696543332
29	6.660870491	-6.660870491
30	6.625197649	-6.625197649
31	6.589524808	-6.589524808
32	6.553851966	-6.553851966
33	6.518179125	-6.518179125
34	6.482506283	-6.482506283
35	6.446833442	-6.446833442
36	6.411160600	-6.411160600
37	6.375487759	-6.375487759
38	6.339814917	-6.339814917
39	6.304142076	-6.304142076
40	6.268469234	-6.268469234
41	6.232796393	-6.232796393
42	6.197123551	-6.197123551
43	6.161450710	-6.161450710
44	6.125777868	-6.125777868
45	6.090105027	-6.090105027
46	6.054432185	-6.054432185
47	6.018759344	-6.018759344
48	5.983086502	-5.983086502
49	5.947413661	-5.947413661
50	5.911740819	-5.911740819
51	5.876067978	-5.876067978
52	5.840395136	-5.840395136
53	5.804722295	-5.804722295
54	5.769049453	-5.769049453
55	5.733376612	-5.733376612
56	5.697703770	-5.697703770



CHRYSENE STATISTICAL ANALYSIS

	W-10AR2 Chrysene	W-30A Chrysene	PAL	ES
Feb-99		28	0.02	0.2
May-99		0	0.02	0.2
Aug-99	0	13	0.02	0.2
Nov-99	0	0	0.02	0.2
Feb-00	0	0	0.02	0.2
May-00	0	33	0.02	0.2
Aug-00	0	6.6	0.02	0.2
Nov-00	3.2	4.1	0.02	0.2
Feb-01	1.4	0	0.02	0.2
May-01	0.62	13	0.02	0.2
Aug-01	0	5.3	0.02	0.2
Dec-01	1	0.059	0.02	0.2
Apr-02	0	0.36	0.02	0.2
Oct-02	0	0.12	0.02	0.2
Apr-03	0	0	0.02	0.2
Oct-03	0	0.067	0.02	0.2
Apr-04	0	0.041	0.02	0.2
Oct-04	0	0	0.02	0.2
Apr-05	0	0	0.02	0.2
Oct-05	0	0	0.02	0.2
Apr-06	0	0	0.02	0.2
Oct-06	0	0.68	0.02	0.2
Apr-07	0.19	4.2	0.02	0.2
Oct-07	0	0.074	0.02	0.2
May-08	0	0	0.02	0.2
Oct-08	0	0	0.02	0.2
Apr-09	0	0	0.02	0.2
Oct-09	0	0	0.02	0.2
Apr-10	0	0	0.02	0.2
Oct-10	0	0.22	0.02	0.2
Apr-11	0	0.22	0.02	0.2
Oct-11	0	0.2	0.02	0.2
Apr-12	0	0	0.02	0.2
Oct-12	3.4	2	0.02	0.2
May-13	0	0	0.02	0.2
Oct-13	0	0	0.02	0.2
Apr-14	0	0.05	0.02	0.2
Oct-14	0	0	0.02	0.2
Apr-15	0	0	0.02	0.2
Oct-15	0	0	0.02	0.2
Apr-16	0	0.13	0.02	0.2
Oct-16	0	0	0.02	0.2
Apr-17	0	0.5	0.02	0.2
Oct-17	0	0.62	0.02	0.2
May-18	0	0	0.02	0.2
Oct-18	0	0	0.02	0.2
Apr-19	0	0	0.02	0.2
Oct-19	0	0	0.02	0.2
Apr-20	0.3	0.23	0.02	0.2
Oct-20	0	0	0.02	0.2
Apr-21	0.16	0.29	0.02	0.2
Oct-21	0.26	0.17	0.02	0.2
Apr-22	0.22	0	0.02	0.2
Oct-22	0.22	0	0.02	0.2
Apr-23	0	0	0.02	0.2
Oct-23	0	0	0.02	0.2

Chrysene data for Feb-99 W-10AR2 and May-99 W-10AR2not included; Well W-10A was abandoned prior to 3rd quarter 1999 sampling and well W-10AR was installed. Data is not available for W-10A.

SUMMARY OUTPUT FOR W-10AR2 (August 1999 - October 2023)

SUMMARY OUTPUT

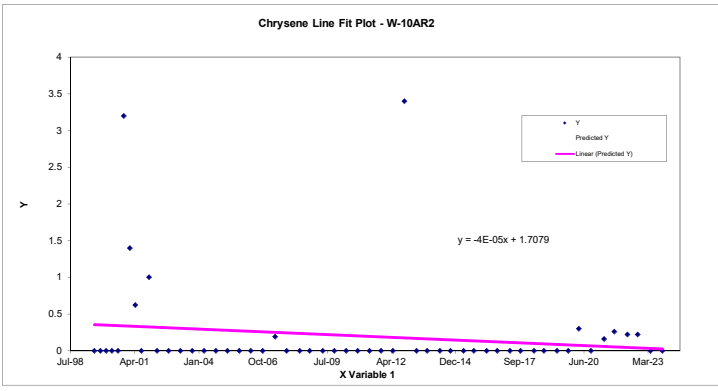
Regression Statistics	
Multiple R	0.154863115
R Square	0.024010468
Adjusted R Square	0.005241438
Standard Error	0.660334334
Observations	54

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	0.557810345	0.557810345	1.279259961	0.263226203
Residual	52	22.67415447	0.436041432		
Total	53	23.23196481			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	1.707947363	1.333482992	1.280816758	0.205941262	-0.967882022	4.383776748	-0.967882022	4.383776748
X Variable 1	-3.71989E-05	3.28871E-05	-1.131043748	0.263226203	-0.00010319	2.87961E-05	-0.00010319	2.87961E-05

RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	0.354988233	-0.354988233
2	0.351566127	-0.351566127
3	0.348144022	-0.348144022
4	0.34479631	-0.34479631
5	0.341374205	-0.341374205
6	0.337952099	2.862047901
7	0.334529994	1.055470006
8	0.331219479	0.288780521
9	0.327797373	-0.327797373
10	0.323259364	0.676740636
11	0.318758551	-0.318758551
12	0.311951537	-0.311951537
13	-0.305181172	-0.305181172
14	0.298374706	-0.298374706
15	0.291456102	-0.291456102
16	0.284649088	-0.284649088
17	0.27787927	-0.27787927
18	0.271072256	-0.271072256
19	0.264302439	-0.264302439
20	0.257495425	-0.257495425
21	0.25024205	-0.06024205
22	0.243546626	-0.243546626
23	0.235921282	-0.235921282
24	0.230155779	-0.230155779
25	0.222642026	-0.222642026
26	0.215835012	-0.215835012
27	0.209139588	-0.209139588
28	0.202295377	-0.202295377
29	0.195562757	-0.195562757
30	0.188755743	-0.188755743
31	0.182060319	-0.182060319
32	0.175216108	3.224733892
33	0.168185913	-0.168185913
34	0.162160032	-0.162160032
35	0.154646279	-0.154646279
36	0.148657595	-0.148657595
37	0.141069448	-0.141069448
38	0.135080763	-0.135080763
39	0.127604207	-0.127604207
40	0.121578326	-0.121578326
41	0.113990179	-0.113990179
42	0.108001494	-0.108001494
43	0.100190167	-0.100190167
44	0.09499057	-0.09499057
45	0.089724926	-0.089724926
46	0.08040147	-0.08040147
47	0.074152408	0.225847592
48	0.06715941	-0.06715941
49	0.05960846	0.10039154
50	0.053619776	0.026380224
51	0.046031629	0.173968371
52	0.040042945	0.179957055
53	0.032640782	-0.032640782
54	0.025833768	-0.025833768



CHRYSENE STATISTICAL ANALYSIS

SUMMARY OUTPUT FOR W-30A (February 1999 - October 2023)

SUMMARY OUTPUT

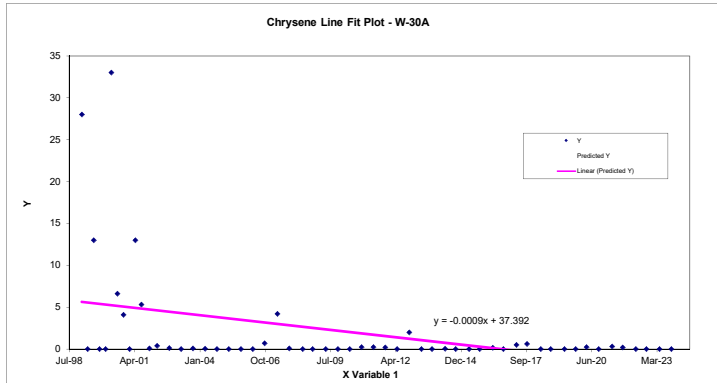
Regression Statistics	
Multiple R	0.401146691
R Square	0.160918668
Adjusted R Square	0.145380124
Standard Error	5.703811612
Observations	56

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	336.919754	336.919754	10.35609746	0.002183936
Residual	54	1756.807213	32.53466691		
Total	55	2093.726967			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	37.39196767	11.01738711	3.393905225	0.001297395	15.30343645	59.4804989	15.30343645	59.4804989
X Variable 1	-0.000877571	0.000272699	-3.218089101	0.002183936	-0.001424301	-0.000330842	-0.001424301	-0.000330842

RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	5.630914885	22.36908512
2	5.552811058	-5.552811058
3	5.472974518	7.527925462
4	5.391337978	-5.391337978
5	5.310601438	-5.310601438
6	5.23162004	27.76837996
7	5.1508835	1.4491165
8	5.07014696	-0.97014696
9	4.98941042	-4.98941042
10	4.911306593	8.088693407
11	4.830570053	0.469429947
12	4.72350638	-4.66450638
13	4.617320279	-4.257320279
14	4.45672477	-4.39672477
15	4.297006832	-4.297006832
16	4.136411323	-4.069411323
17	3.973183101	-3.932183101
18	3.812587592	-3.812587592
19	3.652869654	-3.652869654
20	3.492274145	-3.492274145
21	3.332556207	-3.332556207
22	3.171960698	-2.491960698
23	3.00834336	1.199165664
24	2.84287154	-2.76887154
25	2.662969468	-2.662969468
26	2.526945949	-2.526945949
27	2.349676589	-2.349676589
28	2.18908108	-2.18908108
29	2.031118285	-2.031118285
30	1.869645205	-1.869645205
31	1.710804838	-1.490804838
32	1.550209329	-1.350209329
33	1.392246533	-1.392246533
34	1.230773453	0.769226547
35	1.064912518	-1.064912518
36	0.922746002	-0.922746002
37	0.745476642	-0.695476642
38	0.604187697	-0.604187697
39	0.425163195	-0.425163195
40	0.28387425	-0.28387425
41	0.107482461	0.022517539
42	-0.034684055	0.034684055
43	-0.213708556	0.713708556
44	-0.354997502	0.974997502
45	-0.53928743	0.53928743
46	-0.673555806	0.673555806
47	-0.856968163	0.856968163
48	-1.006155248	1.006155248
49	-1.153587191	1.383587191
50	-1.318570555	1.318570555
51	-1.496717486	1.786717486
52	-1.638006431	1.808006431
53	-1.817030933	1.817030933
54	-1.958319878	1.958319878
55	-2.132956524	2.132956524
56	-2.293552033	2.293552033



NAPHTHALENE STATISTICAL ANALYSIS

	W-10AR2 Naphthalene	W-30A Naphthalene	PAL	ES
Feb-99		8500	10	100
May-99		5300	10	100
Aug-99	4100	2600	10	100
Nov-99	5300	4800	10	100
Feb-00	1000	6200	10	100
May-00	3400	2700	10	100
Aug-00	3400	1400	10	100
Nov-00	3000	2000	10	100
Feb-01	3100	4000	10	100
May-01	2500	2600	10	100
Aug-01	0	8000	10	100
Dec-01	3800	56	10	100
Apr-02	1000	1600	10	100
Oct-02	1900	0	10	100
Apr-03	1200	1300	10	100
Oct-03	290	240	10	100
Apr-04	800	7.1	10	100
Oct-04	1400	130	10	100
Apr-05	2000	110	10	100
Oct-05	660	92	10	100
Apr-06	2000	22	10	100
Oct-06	2100	610	10	100
Apr-07	220	2500	10	100
Oct-07	0	0	10	100
May-08	70	20	10	100
Oct-08	240	37	10	100
Apr-09	200	54	10	100
Oct-09	660	44	10	100
Apr-10	200	35	10	100
Oct-10	33	300	10	100
Apr-11	60	84	10	100
Oct-11	890	810	10	100
Apr-12	210	9.9	10	100
Oct-12	780	230	10	100
May-13	11	15	10	100
Oct-13	69	96	10	100
Apr-14	4.9	4.2	10	100
Oct-14	47	11	10	100
Apr-15	37	1.8	10	100
Oct-15	49	37	10	100
Apr-16	7.2	11	10	100
Oct-16	1.5	12	10	100
Apr-17	2	14	10	100
Oct-17	1.7	26	10	100
May-18	1.5	29	10	100
Oct-18	1.9	67	10	100
Apr-19	2.2	91	10	100
Oct-19	0	22	10	100
Apr-20	1.9	150	10	100
Oct-20	2.3	43	10	100
Apr-21	6.3	10	10	100
Oct-21	3.1	130	10	100
Apr-22	1.5	1	10	100
Oct-22	3.6	19	10	100
Apr-23	1.5	7	10	100
Oct-23	1.6	0.91	10	100

Naphthalene data for Feb-99 W-10AR2 and May-99 W-10AR2 not included; Well W-10A was abandoned prior to 3rd quarter 1999 sampling and well W-10AR was installed. Data is not available for W-10A.

SUMMARY OUTPUT FOR W-10AR2 (August 1999 - October 2023)

SUMMARY OUTPUT

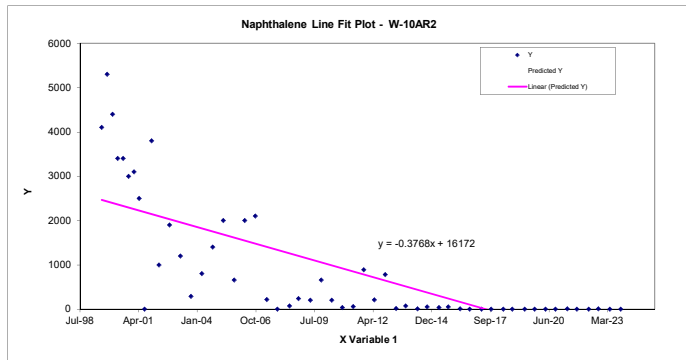
Regression Statistics	
Multiple R	0.742904672
R Square	0.551907352
Adjusted R Square	0.543290186
Standard Error	945.4572881
Observations	54

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	57251323.76	57251323.76	64.04742959	1.25942E-10
Residual	52	46482253.15	893889.4836		
Total	53	103733576.9			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	16171.61858	1908.951526	8.471466328	2.30684E-11	12341.0271	20002.21006	12341.0271	20002.21006
X Variable 1	-0.376733306	0.047079222	-8.0029638	1.25942E-10	-0.471244675	-0.282301936	-0.471244675	-0.282301936

RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	2467.243126	1632.756874
2	2432.579982	2867.420018
3	2397.916838	2002.083162
4	2364.00724	1035.99276
5	2329.344096	1070.655904
6	2294.680952	705.3190479
7	2260.017808	839.9821921
8	2226.484984	273.5150163
9	2191.82184	-2191.82184
10	2145.855496	1654.144504
11	2100.265926	-1100.265926
12	2031.316411	-131.3164113
13	1962.74367	-762.7436697
14	1893.794155	-1603.794155
15	1823.71432	-1023.71432
16	1754.764805	-354.7648049
17	1686.162063	315.8379368
18	1617.242548	-957.2425482
19	1548.669807	451.3301934
20	1479.720292	620.2797084
21	1406.249497	-1186.249497
22	1338.430302	-1338.430302
23	1261.191774	-1191.191774
24	1202.791912	-962.7919119
25	1126.683704	-926.6837041
26	1057.734189	-307.7341891
27	989.9149941	-789.9149941
28	920.5887058	-887.5887058
29	852.3927375	-792.3927375
30	783.443225	-106.5587775
31	715.6240274	-505.6240274
32	646.2977392	133.7022608
33	575.0875844	-564.0875844
34	514.0503088	-445.0503088
35	437.9421011	-453.0421011
36	377.2815988	-330.2815988
37	300.4198445	-263.4198445
38	239.7593422	-190.7593422
39	164.0279077	-156.8279077
40	102.9906322	-101.4906322
41	26.12887782	-24.12887782
42	-34.53162441	36.23162441
43	-113.6540186	115.1540186
44	-171.3003344	173.2003344
45	-250.0459553	252.2459553
46	-314.0974173	314.0974173
47	-384.9307988	386.8307988
48	-448.2287142	450.5287142
49	-524.7136953	531.0136953
50	-585.3741975	588.4741975
51	-662.2359519	663.7359519
52	-722.8964541	726.4964541
53	-797.874342	799.374342
54	-866.8238569	868.4238569



NAPHTHALENE STATISTICAL ANALYSIS

SUMMARY OUTPUT FOR W-30A (February 1999 - October 2023)

SUMMARY OUTPUT

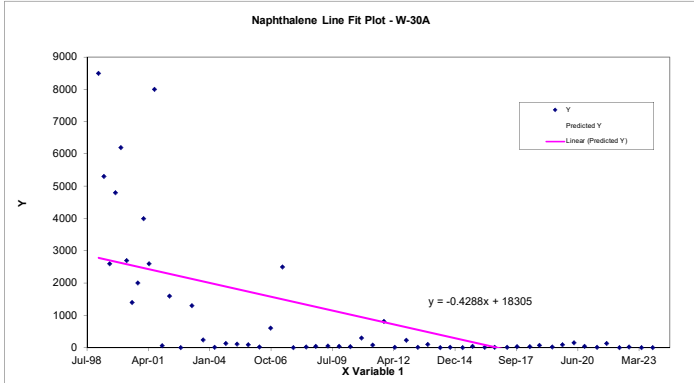
Regression Statistics	
Multiple R	0.602012737
R Square	0.362419536
Adjusted R Square	0.350612286
Standard Error	1619.18311
Observations	56

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	80475171.75	80475171.75	30.69516569	9.20102E-07
Residual	54	141574713	2621753.945		
Total	55	222049884.8			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	18304.74981	3127.09841	5.853589307	2.92497E-07	12035.29498	24574.20465	12035.29498	24574.20465
X Variable 1	-0.428822928	0.077400365	-5.540321804	9.20102E-07	-0.584001316	-0.27364454	-0.584001316	-0.27364454

RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	2784.790404	5715.208696
2	2746.625164	2553.374636
3	2707.173454	-107.1734545
4	2667.721745	2132.278255
5	2628.270036	3571.729964
6	2589.75972	110.3240278
7	2550.224263	-1150.224263
8	2510.722535	-510.722535
9	2471.320844	1528.679156
10	2433.155604	166.8443965
11	2393.703894	5606.296106
12	2341.387497	-2285.387497
13	2289.499923	-689.4999227
14	2211.025327	-2211.025327
15	2132.979554	-632.979554
16	2054.504958	-1814.504958
17	1974.743894	-1967.843894
18	1896.269298	-1766.269298
19	1818.223525	-1708.223525
20	1739.748929	-1647.748929
21	1661.703156	-1639.703156
22	1583.22856	-973.2285604
23	1499.608089	1000.391911
24	1422.419962	-1422.419962
25	1334.511262	-1314.511262
26	1268.043708	-1231.043708
27	1181.421477	-1127.421477
28	1102.946881	-1058.946881
29	1025.758754	-990.758754
30	946.8553353	-646.8553353
31	869.2383853	-785.2383853
32	790.7637895	19.23621048
33	713.6756625	-703.6756625
34	634.6722437	-404.6722437
35	553.6247104	-538.6247104
36	484.155396	-388.155396
37	397.5331646	-393.5331646
38	328.4926732	-317.4926732
39	241.0127959	-239.2127959
40	171.9723045	-134.9723045
41	85.77889598	-74.77889598
42	16.30981655	-4.30981655
43	-71.17029565	85.17029565
44	-140.210787	166.210787
45	-230.2636019	259.2636019
46	-296.8735099	362.8735099
47	-385.4975018	407.4975018
48	-458.3973996	549.3973996
49	-539.01611	689.01611
50	-611.0583619	654.0583619
51	-686.1094163	708.1094163
52	-767.1499077	897.1499077
53	-854.629785	855.629785
54	-923.6702764	942.6702764
55	-1009.006039	1011.006039
56	-1087.480635	1088.480635



PENTACHLOROPHENOL STATISTICAL ANALYSIS

	W-10AR2 Penta	W-30A Penta	PAL	ES	
Feb-99		Feb-99	0	0.1	1
May-99		May-99	6	0.1	1
Aug-99	260	Aug-99	6	0.1	1
Nov-99	320	Nov-99	10	0.1	1
Feb-00	450	Feb-00	3.1	0.1	1
May-00	150	May-00	0	0.1	1
Aug-00	280	Aug-00	0	0.1	1
Nov-00	440	Nov-00	1.1	0.1	1
Feb-01	290	Feb-01	3.7	0.1	1
May-01	140	May-01	0	0.1	1
Dec-01	400	Aug-01	3.8	0.1	1
Apr-02	58	Dec-01	0	0.1	1
Oct-02	0.0255	Apr-02	1.7	0.1	1
Apr-03	3.8	Oct-02	0.18	0.1	1
Oct-03	60	Apr-03	0.95	0.1	1
Apr-04	42	Oct-03	0.4	0.1	1
Oct-04	38	Apr-04	0	0.1	1
Apr-05	0.4695	Oct-04	0	0.1	1
Oct-05	8.3	Apr-05	0	0.1	1
Apr-06	0	Oct-05	0.11	0.1	1
Oct-06	0.305	Apr-06	0	0.1	1
Apr-07	16	Oct-06	0.24	0.1	1
Oct-07	0	Apr-07	0	0.1	1
May-08	0	Oct-07	0	0.1	1
Oct-08	0	May-08	0	0.1	1
Apr-09	0	Oct-08	0	0.1	1
Oct-09	0	Apr-09	0	0.1	1
Apr-10	0	Oct-09	0	0.1	1
Oct-10	0	Apr-10	0	0.1	1
Apr-11	0	Oct-10	0	0.1	1
Oct-11	0	Apr-11	0	0.1	1
Apr-12	0	Oct-11	0	0.1	1
Oct-12	0	Apr-12	0	0.1	1
May-13	0.81	Oct-12	0	0.1	1
Oct-13	0	May-13	0	0.1	1
Apr-14	0.76	Oct-13	0	0.1	1
Oct-14	0.35	Apr-14	0	0.1	1
Apr-15	0	Oct-14	0	0.1	1
Oct-15	0	Apr-15	0.39	0.1	1
Apr-16	0	Oct-15	0	0.1	1
Oct-16	0	Apr-16	0	0.1	1
Apr-17	0	Oct-16	0	0.1	1
Oct-17	0	Apr-17	0	0.1	1
May-18	0	Oct-17	0	0.1	1
Oct-18	0	May-18	0	0.1	1
Apr-19	0	Oct-18	0	0.1	1
Oct-19	0	Apr-19	0	0.1	1
Apr-20	0	Oct-19	0	0.1	1
Oct-20	0	Apr-20	0	0.1	1
Apr-21	0	Oct-20	0	0.1	1
Oct-21	0	Apr-21	0	0.1	1
Apr-22	0	Oct-21	0	0.1	1
Oct-22	0	Apr-22	0	0.1	1
Apr-23	0	Oct-22	0	0.1	1
Oct-23	0	Apr-23	0	0.1	1
		Oct-23	0	0.1	1

Pentachlorophenol data for Feb-99 W-10AR2 and May-99 W-10AR2not included; Well W-10A was abandoned prior to 3rd quarter 1999 sampling and well W-10AR was installed. Data is not available for W-10A. Pentachlorophenol data for Aug-01 W-10AR2 not available

SUMMARY OUTPUT FOR W-10AR2 (August 1999 - October 2023)

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.622006236
R Square	0.388891758
Adjusted R Square	0.374870028
Standard Error	96.58800233
Observations	53

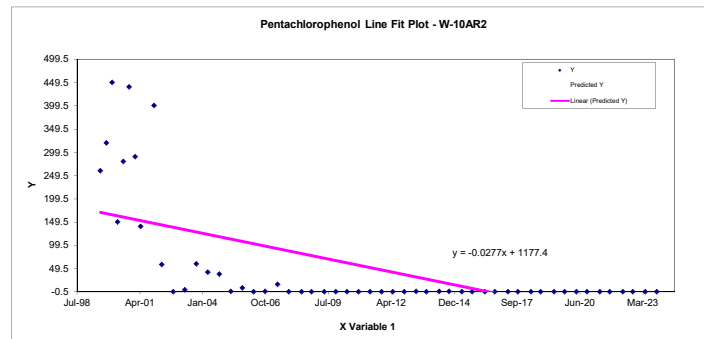
ANOVA

	df	SS	MS	F	Significance F
Regression	1	300240.2184	300240.2184	32.18270168	6.64148E-07
Residual	51	475791.3519	9329.242193		
Total	52	776031.5703			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	1177.408715	198.1506198	5.941988554	2.52818E-07	779.6047464	1575.212683	779.6047464	1575.212683
X Variable 1	-0.027696227	0.00487938	-5.672979965	6.64148E-07	-0.037476392	-0.017884862	-0.037476392	-0.017884862

RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	170.5812708	89.41872919
2	168.0346531	151.9653469
3	165.4880355	284.5119645
4	162.996779	-12.99677903
5	160.4501614	119.5498386
6	157.9035437	282.0964563
7	155.356926	134.843074
8	152.8633602	-12.8933919
9	146.869696	253.030304
10	143.6203402	-85.62034017
11	138.5547854	-138.5292854
12	133.5169113	-129.7169113
13	128.4513566	-68.4513566
14	123.30276	-81.30275999
15	118.2372053	-80.23720525
16	113.1993311	-112.7298311
17	108.1337764	-99.83377642
18	103.0959023	-103.0959023
19	98.03034758	-97.72534758
20	92.63262533	-76.63262533
21	87.65011248	-87.65011248
22	81.97558395	-81.97558395
23	77.68508677	-77.68508677
24	72.09360013	-72.09360013
25	67.0280454	-67.0280454
26	62.0453255	-62.0453255
27	56.95229719	-56.95229719
28	51.94210371	-51.94210371
29	46.87654898	-46.87654898
30	41.89403613	-41.89403613
31	36.80080077	-36.80080077
32	31.56916228	-30.75916228
33	27.08460071	-27.08460071
34	21.48341407	-20.73341407
35	17.03683313	-16.68683313
36	11.38998523	-11.38998523
37	6.933404294	-6.933404294
38	1.369598277	-1.369598277
39	-3.114663288	3.114663288
40	-8.761511186	8.761511186
41	-13.21809212	13.21809212
42	-19.03102378	19.03102378
43	-23.23847908	23.23847908
44	-29.05141074	29.05141074
45	-33.75711732	33.75711732
46	-38.36107519	38.36107519
47	-43.61142051	43.61142051
48	-49.23058778	49.23058778
49	-53.68716872	53.68716872
50	-59.33401662	59.33401662
51	-63.79059756	63.79059756
52	-69.29904232	69.29904232
53	-74.36459705	74.36459705



PENTACHLOROPHENOL STATISTICAL ANALYSIS

SUMMARY OUTPUT FOR W-30A (February 1999 - October 2023)

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.468356179
R Square	0.218857511
Adjusted R Square	0.204001168
Standard Error	1.656519868
Observations	56

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	41.63776231	41.63776231	15.1737905	0.000272323
Residual	54	148.1791359	2.744058072		
Total	55	189.8168982			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	13.10474119	3.199177113	4.086284992	0.000141653	6.690777262	19.51870513	6.690777262	19.51870513
X Variable 1	-0.000308451	7.91844E-05	-3.89535499	0.000272323	-0.000467207	-0.000149696	-0.000467207	-0.000149696

RESIDUAL OUTPUT

Observation	Predicted Y	Residuals
1	1.941267631	-1.941267631
2	1.913815455	4.086184545
3	1.885437925	4.114562075
4	1.857060395	8.142939605
5	1.828682865	1.271317135
6	1.800305335	-1.800305335
7	1.772544708	-1.772544708
8	1.744167178	-0.644167178
9	1.715789648	1.984210352
10	1.688337472	-1.688337472
11	1.659959942	2.140040058
12	1.622289869	-1.622289869
13	1.585062348	0.114989352
14	1.52855964	-1.34855964
15	1.472421482	-0.522421482
16	1.415974874	-1.015974874
17	1.358602911	-1.358602911
18	1.302156302	-1.302156302
19	1.246018145	-1.246018145
20	1.189571536	-1.079571536
21	1.133433379	-1.133433379
22	1.07698677	-0.83698677
23	1.018838744	-1.018838744
24	0.96131749	-0.96131749
25	0.90380495	-0.90380495
26	0.850274981	-0.850274981
27	0.797967795	-0.797967795
28	0.731829638	-0.731829638
29	0.675999932	-0.675999932
30	0.619244872	-0.619244872
31	0.563415166	-0.563415166
32	0.508989557	-0.508989557
33	0.451447303	-0.451447303
34	0.394692243	-0.394692243
35	0.336394926	-0.336394926
36	0.286425797	-0.286425797
37	0.224118611	-0.224118611
38	0.174457934	-0.174457934
39	0.111533845	0.278466155
40	0.061873168	-0.061873168
41	-0.000125567	0.000125567
42	-0.050094696	0.050094696
43	-0.113018784	0.113018784
44	-0.162679462	0.162679462
45	-0.227454258	0.227454258
46	-0.274647325	0.274647325
47	-0.33911367	0.33911367
48	-0.391550411	0.391550411
49	-0.449539276	0.449539276
50	-0.501667565	0.501667565
51	-0.563974751	0.563974751
52	-0.613635428	0.613635428
53	-0.676559517	0.676559517
54	-0.726220194	0.726220194
55	-0.787602026	0.787602026
56	-0.844048634	0.844048634

