TETRA TECH

April 12, 2024
(117-7469013.01)

Ms. Cindy Koepke
Hydrogeologist
Wisconsin Department of Natural Resources
Fitchburg Service Center
3911 Fish Hatchery Road
Fitchburg, WI 53711-5367

RE: Annual Progress Report, Source Area Remedial Action, Pentair Facility, Delavan, Wisconsin
BRRTS# 02-65-529579, FID# 265091640

Dear Ms. Koepke:

Enclosed is the Annual Progress Report for the source area remedial action at the Pentair (former Sta-Rite Industries) facility in Delavan, Wisconsin.

SITE NAME/ACTIVITY:
Contract No. SF-90-02
Delavan Municipal Well #4
Delavan, Wisconsin
Source Area Remediation

DATE: April 12, 2024

PERIOD: January 1 through December 31, 2023

The format of this report follows the Wisconsin Department of Natural Resources (WDNR) "Guidance for Design, Installation, and Operation of Soil Venting Systems," WDNR Emergency and Remedial Response Section, July 1993, PUBL-SW185-93.

The following activities took place in 2023:

1. The groundwater extraction wells on the Delavan facility were operated and quarterly samples were collected from the storm sewer outfall (SS-1 sample identification) where the groundwater is discharged.

2. As discussed in the 2022 progress report, the pump in extraction well EX-1 failed on June 11, 2022. Pumping from EX-1 was not resumed because as discussed in the 2021 and 2022 progress reports, the groundwater samples collected from EX-1 since September 2004 indicate it may be appropriate to stop groundwater extraction from EX-1 as none of the site contaminants of concern have been detected above their respective Chapter NR140 enforcement standards (ESs) during that period. The effect the stoppage of pumping from EX-1 has on contaminant concentrations in the on-site plume was evaluated in 2023 by collecting quarterly groundwater samples from monitor wells TW-1, TW-3, and D-18. The groundwater samples were submitted for laboratory analysis of tetrachoroethene (PCE), trichloroethene

(TCE), 1,1,1-trichloroethane (TCA), 1,1,2-trichloroethane (1,1,2-TCA), and vinyl chloride. The analytical results from the quarterly sampling events showed contaminant concentrations did not significantly change in the monitor wells located near EX-1 (D-18), upgradient of EX-1 (TW-3), and downgradient of EX-1 (TW-1) with no pumping from EX-1.

3. Monthly electronic wastewater discharge monitoring Long Reports documenting the total daily volume of groundwater discharged to the SS-1 storm sewer outfall from the Delavan facility groundwater extraction system were filled out and submitted to the WDNR. Quarterly electronic wastewater discharge monitoring Short Reports documenting the analytical results and field pH measurements for the quarterly samples collected from the SS-1 storm sewer outfall were filled out and submitted to the WDNR.

4. Annual sampling of the wells that are part of the groundwater monitoring program for the Delavan facility was performed in July. Extraction well EX-1 was not sampled because, as noted above, the pump failed on June 11, 2022 and pumping from EX-1 was not resumed until November 15, 2023. All existing site monitor wells were also inspected and any damage to the surface seals, protective casings or well casings were noted. The well cap on monitor well TW-2A was missing when inspected. A new well cap was installed on TW-2A.

5. An annual site inspection of the Delavan facility was performed during the annual groundwater sampling event to document the surface conditions in the two areas on the Delavan facility property containing residual volatile organic compounds (VOCs) impacts in the subsurface soil. A visual inspection of the entire Delavan facility property was also performed to document any potential land-use changes including the undeveloped east half of the property. Photographs were also taken to document site conditions.

6. The pump in extraction well EX-7R stopped pumping groundwater on December 14, 2022. The pump in EX-7R was repaired by Pentair Flow Technologies personnel on February 9, 2023 and pumping from EX-7R was re-started the same day.

7. A new ORION LTE endpoint was purchased for the Badger Meter Dynasonics® U500w ultrasonic meter installed on the discharge line of extraction well EX-7R because the original endpoint stopped uploading flow data from the meter to the Badger Meter AquaCUE website on October 10, 2022. The new endpoint was connected to the EX-7R meter by Tetra Tech personnel on February 24, 2023 after it was received from the vendor.

8. The pumps in extraction wells EX-2R and EX-6 were replaced by Pentair personnel with new 30 gallons per minute (gpm) pumps on April 18, 2023.

9. A new 30 gpm pump was installed in extraction well EX-7R on May 12, 2023 by Pentair personnel.

10. A new 30 gpm pump was installed in EX-2R by Pentair personnel on June 21, 2023.

11. A new 30 gpm pump was installed in extraction well EX-1 by Pentair personnel. Pumping from EX-1 was re-started on November 15, 2023 after the final quarterly samples were collected from TW-1, TW-3, and D-18.

12. The pumping rate in EX-7R began exhibiting a steady decline beginning on December 3, 2023 during which the pumping rate declined from 53,913 gallons per day to 6,771 gallons per day on December 17, 2023. A new pump was installed in EX-7R by Pentair personnel in December but the pumping rate in EX-7R did not improve. The cause for the reduction in pumping rate in EX-7R will be investigated and resolved in 2024. The on-site plume in the vicinity of the former sump source area where EX-7R is located is being contained by pumping from extraction well EX-1 while the cause for the reduction in pumping rate from EX-7R is being investigated and resolved.

13. The pump in EX-1 failed on December 28, 2023. Troubleshooting by Pentair personnel discovered a broken wire and leak in the discharge pipe. Pentair personnel repaired the broken wire, new pipe was ordered, and the damaged pipe was replaced once the new pipe was received. Pumping from EX-1 was re-started on January 23, 2024.

It is recommended that pumping from EX-1 be stopped once the pumping rate in extraction well EX-7R is restored to its normal rate of 30 to 37 gpm because the analytical results for the quarterly samples collected from monitor wells TW-1, TW-3, and D-18 demonstrate the stoppage in pumping from EX-1 did not cause an increase in contaminant concentrations in the on-site plume or cause an expansion of the plume. EX-1 will be used as a backup for extraction well EX-7R for instances when it is shut down due to a pump failure, or for maintenance or other repairs. EX-1 will remain in operation while the WDNR considers this recommendation. If you require additional information or have any questions regarding these matters, please contact me at your convenience.

Sincerely,

Tetra Tech

Mark A. Manthey, P.G.
Associate Hydrogeologist
mark.manthey@tetratech.com

Encs.
cc: David Flynn, Pentair (Electronic copy via email.)
Curtis Hedman, Ph. D., Toxicologist, Wisconsin Department of Health Services (Electronic copy via email.)
Michael Holt, EPA (Electronic copy via email.)

2023 ANNUAL
PROGRESS REPORT
PENTAIR FLOW TECHNOLOGIES, LLC
DELAVAN, WISCONSIN FACILITY
SOURCE AREA REMEDIATION

BRRTS# 02-65-529579
FACILITY ID# 265091640

April 12, 2024

Prepared For:

Pentair
293 Wright Street
Delavan, Wisconsin 53115

Prepared By:

Tetra Tech
13555 Bishops Court, Suite 201
Brookfield, Wisconsin 53005

Project No. 117-7469013

CERTIFICATION

Hydrogeologist:

I hereby certify that I am a hydrogeologist as that term is defined in s. NR712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR700 to 726, Wis. Adm. Code.

Mark A. Manthey, P.G.
Associate Hydrogeologist
Tetra Tech

TETRA TECH

SUMMARY OF PROGRESS MADE THIS REPORTING PERIOD

The following remedial action activities took place in 2023:

1. The groundwater extraction wells on the Delavan facility were operated and quarterly samples were collected from the storm sewer outfall (SS-1 sample identification) where the groundwater is discharged.

2. Monthly electronic wastewater discharge monitoring Long Reports documenting the total daily volume of groundwater discharged to the SS-1 storm sewer outfall from the Delavan facility groundwater extraction system were filled out and submitted to the WDNR. Quarterly electronic wastewater discharge monitoring Short Reports documenting the analytical results and field pH measurements for the quarterly samples collected from the SS-1 storm sewer outfall were filled out and submitted to the WDNR.

3. As described in the 2022 progress report, the pump in extraction well EX-1 failed on June 11, 2022. It was decided to not re-start pumping from EX-1 because as discussed in the 2021 and 2022 progress reports, the groundwater samples collected from EX-1 since September 2004 indicate it may be appropriate to stop groundwater extraction from EX-1 as none of the site contaminants of concern have been detected above their respective Chapter NR140 enforcement standards (ESs) during that period. The effect the stoppage of pumping from EX-1 has on contaminant concentrations in the on-site plume was evaluated in 2023 by collecting quarterly groundwater samples from monitor wells TW-1, TW-3, and D-18, which are located near (D-18), upgradient (TW-3), and downgradient (TW-1) of EX-1.

4. One round of groundwater samples was collected from the monitor wells that are part of the groundwater monitoring program for the Delavan facility and from extraction wells EX-2R, EX-3R, and EX-7R July 20th and July 21st. Extraction well EX-1 was not sampled because, as noted above, the pump failed on June 11, 2022 and pumping from EX-1 was not resumed until

November 15, 2023 so that quarterly sampling of monitor wells TW-1, TW-3, and D-15 could be implemented to evaluate the effect that no pumping from EX-1 has on contaminant concentrations in the on-site plume.

The analytical results from 2023 showed decreases in the concentrations from 2022 to 2023 or no detections of the volatile organic compounds (VOCs) analyzed in eleven (11) of the 14 wells sampled. VOC concentrations exhibited stable to moderate increases in concentration in three monitor wells. The analytical results from the 2023 sampling round indicate the contaminant plume is exhibiting an overall stable to decreasing trend in the site contaminants. The analytical results for the groundwater samples collected from the site during this reporting period are summarized in Table 1, Table 2, and Figure 1. Charts showing the trends in VOC concentrations for select site monitor wells are included as Figures 2 through 8. Laboratory results and field data sheets for the annual groundwater sampling event, and the quarterly samples collected from monitor wells TW-1, TW-3, and D-18 are included in Appendix B. Copies of the quarterly discharge monitoring Short Reports containing the analytical results collected at the SS-1 storm sewer outfall where the groundwater pumped from the Delavan facility groundwater extraction system extraction wells discharges are provided in Appendix C.

5. As described in the Final Institutional Control Implementation and Assurance Plan (ICIAP) for the Delavan facility property (February 16, 2018), an annual site inspection of the Delavan facility was performed during the annual groundwater sampling event to document the surface conditions in the two areas on the Delavan facility property containing residual VOCs impacts in the subsurface soil. The first area is located next to the north wall of Plant 2 in the former sump source area and contains residual trichloroethene (TCE) impacts in the soil at a depth of 28 feet below ground surface that are protective of commercial and industrial site uses but are not protective of non-commercial/non-industrial uses. The second area is found beneath the concrete floor of Plant 1 and south of the south wall of Plant 1 and contains pervasive low-level VOCs impacts in the subsurface soil. The approximate extent of the low-level VOCs impacts in the soil beneath and south of Plant 1 is shown on Figure 1. Inspection of surface conditions in this area is needed to confirm the surface cover of the concrete floor of Plant 1

and the paved areas south of the south wall of Plant 1 are still intact to prevent direct contact with the potentially impacted soils. A visual inspection of the entire Delavan facility property was also performed to document any potential land-use changes including the former locations of the chip storage extraction system (CSES) and southeast extraction system (SES) and the undeveloped land on the east half of the property. Photographs were taken to document site conditions.

The site inspection confirmed the surface cover remains intact in the area of the residual VOCs impacts beneath and south of Plant 1 and the surface conditions in the former sump source area are unchanged. The undeveloped land on the east half of the property remains undeveloped and land use in and around the developed portion of the Delavan facility property including the former CSES area and former SES area remains the same. Photographs documenting site conditions are included in Appendix A.

The site monitor wells were also inspected. All other monitor wells were in good condition; however, there was no well cap on monitor well TW-2. Tetra Tech personnel installed a new well cap on monitor well TW-2 during the annual groundwater sampling event in July.

14. The pump in extraction well EX-7R stopped pumping groundwater on December 14, 2022. The pump in EX-7R was repaired by Pentair Flow Technologies personnel on February 9, 2023 and pumping from EX-7R was re-started the same day.

15. A new ORION LTE endpoint was purchased and installed on the discharge line of extraction well EX-7R by Tetra Tech personnel on February 24, 2023.

16. The pumps in extraction wells EX-2R and EX-6 were replaced by Pentair personnel with new 30 gallons per minute (gpm) pumps on April 18, 2023.

17. A new 30 gpm pump was installed in extraction well EX-7R on May 12, 2023 by Pentair personnel.

18. A new 30 gpm pump was installed in EX-2R by Pentair personnel on June 21, 2023.

19. A new 30 gpm pump was installed in EX-1 by Pentair personnel and pumping from EX-1 was re-started on November 15, 2023 after the final quarterly samples were collected from TW-1, TW-3, and D-18.

20. The pumping rate in EX-7R began exhibiting a steady decline from 53,913 gallons per day on December 3, 2023 to 6,771 gallons per day on December 17, 2023. A new pump was installed in EX-7R by Pentair personnel in December but the pumping rate in EX-7R did not improve.

21. The pump in EX-1 failed on December 28, 2023. Troubleshooting by Pentair personnel discovered a broken wire and leak in the discharge pipe. Pentair personnel repaired the broken wire, new pipe was ordered, and the damaged pipe was replaced once the new pipe was received. Pumping from EX-1 was re-started on January 23, 2024.

GROUNDWATER

Residual groundwater impacts originating from the former southeast extraction system (SES) and former sump source areas are controlled by extraction wells EX-1 and EX-7R. Groundwater downgradient of the former chip storage extraction system (CSES) source area and the pervasive low-level residual VOCs impacts in the subsurface soil beneath a portion of the concrete floor of Plant 1 and south of the south wall of Plant 1 is controlled by extraction wells EX-2R, EX-3R, EX-4R, EX-5R, and EX-6 (see Figure 1). Monthly flow data for the extraction wells is provided in Table 3. Quarterly wastewater discharge monitoring short reports documenting the effluent chemistry where the combined flow from the seven extraction wells is discharged to the storm sewer (storm sewer outfall SS-1) are provided in Appendix C.

Groundwater Sampling

The annual groundwater sampling round was conducted July 20th and July 21st. The monitor wells and groundwater extraction wells that are part of the Delavan facility groundwater monitoring program are listed in Table 4. As noted above, a groundwater sample was not collected from extraction well EX-1 because the pump in EX-1 failed on June 11, 2022 and pumping from EX-1 was not re-started until November 16, 2023 so that quarterly sampling of monitor wells TW-1, TW-3, and D-18 with no pumping from EX-1 could be performed to evaluate the effect that no pumping from EX-1 has on contaminant concentrations in the on-site plume. The quarterly samples were collected from TW-1, TW-3, and D-18 on February 1, 2023, May 18, 2023, July 20, 2023, and November 1, 2023. The field sampling forms and the analytical results for the groundwater sampling rounds are provided in Appendix B. The analytical results for the sampling points that are part of the Delavan facility groundwater monitoring plan are summarized in Table 1 and Table 2. Table 1 presents the analytical results for the chlorinated volatile organic compounds (CVOCs) for which all of the site monitoring points are analyzed, which include tetrachloroethene (PCE), 1,1,1-trichloroethane (TCA), TCE, 1,1,2-trichloroethane (1,1,2-TCA), and vinyl chloride. Table 2 summarizes the analytical results for monitor well TW-4, which is analyzed for the full list of volatile organic compounds (VOCs). Total VOC concentrations for the

five CVOCs that all samples are tested for from the annual sampling event are also listed next to each sampling point on Figure 1. Time versus concentration plots were prepared and graphed for contaminant concentrations in the most highly impacted wells near Plant 1 and Plant 2 and are included as Figures 2 through 8.

The following summarizes the trends in water quality at site monitoring points.

Plant 1: Four monitor wells and two extraction wells were sampled during this reporting period. Contaminants of concern are TCA and TCE. The PCE results for the Plant 1 wells are also discussed as it is a contaminant of concern at Plant 2.

PCE: No PCE was detected in any of the groundwater samples collected from the Plant 1 wells.

TCA: TCA was detected in the groundwater samples collected from three of the Plant 1 monitor wells sampled and extraction well EX-3R. All the reported TCA concentrations were below the TCA Chapter NR140 groundwater quality standards. Comparison of the 2022 TCA results to the 2023 TCA results is presented below:
TCA NR140 Enforcement Standard (ES) = 200 ug/L
TCA NR140 Preventive Action Limit (PAL) = 40 ug/L

- TCA concentrations in MW-1026 increased slightly from 11 ug/L to 12 ug/L. TCA concentrations in MW-1026 have exhibited an overall declining trend since the July 2006 sampling event. TCA concentrations in MW-1026 have not exceeded its PAL since the July 2007 sampling event.

- The TCA concentration in MW-1027 decreased from 5.4 ug/L in 2022 to 1.3 ug/L in 2023. TCA concentrations in MW-1027 have exhibited a

declining trend since the 2005 sampling event and have not exceeded its PAL since the July 2006 sampling event. 1994 was the last time the TCA concentration in MW-1027 exceeded the ES.

- The reported TCA concentration in TW-4 decreased from 24 ug/L in 2022 to 15 ug/L in 2023. TCA concentrations in TW-4 have been below its PAL since the July 2013 sampling round. The 2013 through 2023 TCA concentrations are the lowest reported TCA concentrations for samples collected from TW-4. The TCA data suggest there is a declining trend in TCA impacts at TW-4. 2001 was the last time the TCA concentration in TW-4 exceeded the ES.

- The TCA concentration in D-25R decreased slightly from 0.62 ug/L in 2022 to not detected above the detection limit of 0.38 in 2023. TCA concentrations in the D-25R samples have exhibited a declining trend since the 2005 sampling event and TCA concentrations have been below the PAL since the October 1996 sampling round.

- TCA was not detected above the detection of 0.38 ug/L in the samples collected from EX-2R in 2022 and 2023. TCA concentration in EX-2R have not exceeded the PAL since 1997.

- The TCA concentration in extraction well EX-3R decreased slightly from 3.9 ug/L in 2022 to 2.6 ug/L in 2023. EX-3R is the replacement extraction well for original extraction well EX-3 and was brought on-line in September 2017. TCA concentrations in the EX-3 and EX-3R samples have not exceeded the PAL since 1997.

TCE: TCE concentrations exceeded the NR140 ES of 5.0 ug/L in the groundwater samples collected from monitor wells MW-1027 and TW-4 and extraction well EX-3R during this reporting period. The reported TCE concentration

in the samples collected from monitor wells MW-1026 exceeded the PAL of 0.50 ug/L. TCE was not detected in the groundwater samples collected from D-25R and EX-2R, Comparison of the 2022 TCE results to the 2023 TCE results is presented below:

TCE NR140 ES = 5.0 ug/L

TCE NR140 PAL = 0.50 ug/L

- TCE concentrations in MW-1026 increased slightly from 3.5 ug/L to 4.8 ug/L. TCE concentrations in the groundwater samples collected from MW-1026 are exhibiting an overall declining trend since the 2005 sampling round when the reported TCE concentration in the MW-1026 sample was 21 ug/L.

- The TCE concentration in MW-1027 decreased from 44 ug/L to 30 ug/L. The reported TCE concentration in the 2019 groundwater sample collected from MW-1027 was 41 ug/L and 27 ug/L in 2018. The 27 ug/L concentration reported for the 2018 sample is the lowest historical TCE concentration for a MW-1027 sample. TCE concentrations at MW-1027 are exhibiting an overall declining trend since 1999.

- The TCE concentration in monitor well TW-4 decreased from 20 ug/L to 17 ug/L. Review of the TCE results for the TW-4 samples presented on Table 1 shows TCE concentrations have been below 30 ug/L since the July 2016 sampling event and have exhibited on overall declining trend since 1993.

- At monitor well D-25R, the TCE concentration decreased slightly from 0.54 ug/L in 2022 to not being detected above the detection limit of 0.16 ug/L in 2023. The TCE data indicate an overall declining trend in TCE impacts at D-25R. TCE concentrations in groundwater samples

collected from D-25R have not exceeded the ES since the July 2010 sampling event.

- The TCE concentration in extraction well EX-2R decreased from 0.67 ug/L to not being detected above the detection limit of 0.16 ug/L. TCE concentrations in the EX-2R samples have been below 10 ug/L since the July 2012 sampling event.

- The TCE concentration in extraction well EX-3R decreased slightly from 5.7 ug/L to 5.0 ug/L. TCE concentrations are exhibiting a decreasing trend at EX-3/EX-3R and have not exceeded the ES of 5.0 ug/L since the 2017 sampling event.

Plant 2: Seven monitor wells and one extraction well were sampled during this reporting period. Contaminants of concern are PCE, TCA, and TCE.

PCE: PCE was detected above ES of 5.0 ug/L in the groundwater sample collected from monitor well D-15. The PAL of 0.5 ug/L was exceeded in the February 1st and May 18th groundwater samples collected from monitor well D-18 and was not detected above the detection limit of 0.37 ug/L in the groundwater samples collected on July 20th and November 1st. No PCE was detected in the groundwater samples collected from monitor wells MW-2004, MW-2005R, MW-2011, and TW-1. A comparison of the 2022 PCE results to the 2023 PCE results is presented below:

PCE NR140 ES = 5.0 ug/L

PCE NR140 PAL = 0.50 ug/L

- No PCE was detected in the samples collected from monitor wells MW-2004, MW-2005R, MW-2011, and TW-1 in 2022 and 2023. PCE was last detected in MW-2004 in 1997. PCE has never been detected in MW-2011 and was last detected in TW-1 in 2008. The PCE concentrations

in the samples collected from MW-2005R, which replaced original monitor well MW-2005 in 2007, have been below 3 ug/L since the July 2007 sampling event and suggest an overall stable to declining trend in PCE impacts at MW-2005R since 2007. The last sample collected from MW-2005 in September 2004 had a reported PCE concentration of 17 ug/L.

- The PCE concentration in monitor well D-15 increased slightly from 3.0 ug/L to 5.9 ug/L. The PCE concentrations for the 2014, 2015, 2021, 2022, and 2023 samples are the lowest reported PCE concentration for samples collected from D-15 between the November 1991 sampling round and the 2023 sampling round. The 2023 analytical results confirm an overall decreasing trend in PCE concentrations at monitor well D-15 since the July 2010 sampling round when the reported PCE concentration in D-15 was 47 ug/L.

- PCE concentrations in monitor well D-18 increased slightly from 0.93 ug/L in 2022 to 1.1 ug/L in February 2023 and May 2023 but then decreased to below the detection limit of 0.37 ug/L in July 2023 and November 2023. PCE concentrations in samples collected from D-18 have been below the ES since the June 2003 sampling event. The reported PCE concentrations for the quarterly samples collected in 2023 indicate the stoppage in pumping from extraction well EX-1 did not result in a significant increase in PCE concentration near EX-1 during the first two quarterly sampling events and were below the detection limit during the last two quarterly sampling events.

- The PCE concentration increased slightly from 0.43 ug/L in 2022 to 0.46 ug/L in the first quarter sample collected from monitor well TW-3 on February 1, 2023 but then exhibited a decreasing trend from 0.38 ug/L in the May 18th sample to not detected above the detection limit

0.37 ug/L in the July 20th and November 1st samples. PCE impacts in TW-3 have been below the 5.0 ug/L ES since the April 2002 sampling event. The PCE concentrations in the quarterly samples collected from TW-3 indicate the stoppage in pumping in extraction well EX-1 did not cause PCE concentrations to increase upgradient of EX-1.

- The PCE concentration in replacement extraction well EX-7R, which replaced original extraction well EX-7 and was brought on-line in September 2017, decreased slightly from 4.8 ug/L in 2022 to 3.5 ug/L in 2023. The PCE results from EX-7 and EX-7R from the 2010 to 2023 sampling rounds suggest an overall declining trend in PCE impacts in the former sump source area.

TCA: TCA was not detected in any of the 2022 samples collected from the Plant 2 wells and was only detected in the 2023 groundwater sample collected from monitor well MW-2011 at a concentration of 0.71 ug/L. All the reported TCA detections in samples collected from MW-2011 are below the NR140 PAL of 40 ug/L. The TCA results for the quarterly samples collected from monitor wells TW-1, TW-3, and D-18 indicate the stoppage in pumping from extraction well EX-1 had no effect on TCA concentrations in the on-site plume.

TCE: TCE was detected above the ES of 5.0 ug/L in the groundwater sample collected from monitor well D-15. The PAL for TCE (0.50 ug/L) was exceeded in the first two quarterly groundwater samples collected from monitor well D-18 and the groundwater sample collected from MW-2011. No TCE was detected in the groundwater samples collected from monitor wells MW-2004, MW-2005R, and TW-1, and extraction well EX-7R. TCE was detected in the first quarter groundwater sample collected from monitor well TW-3 on February 1st at a concentrations below the PAL but was not

detected above the detection limit of 0.16 ug/L in the last three quarterly samples collected on May 18th, July 20th, and November 11th. A comparison of the 2022 TCE results to the 2023 TCE results is presented below:

TCE NR140 ES = 5.0 ug/L

TCE NR140 PAL = 0.50 ug/L

- No TCE was detected in the 2022 and 2023 groundwater samples collected from monitor wells MW-2004, MW-2005R, and TW-1. TCE concentrations have been below the ES of 5.0 ug/L in groundwater samples collected from monitor well MW-2004 since the 1997 annual sampling event and the PAL has not been exceeded since the 2015 sampling event. TCE has never been detected in a groundwater sample collected from MW-2005R, which replaced original monitor well MW-2005 in 2007. The last sample collected from MW-2005 in September 2004 had a reported TCE concentration of 1.3 ug/L. TCE was last detected in a groundwater sample collected from monitor well TW-1 in July 2012 at a concentration of 0.31 ug/L.

- The TCE concentration in monitor well MW-2011 increased from 0.69 ug/L in 2022 to 3.1 ug/L in 2023. The 0.69 ug/L concentration in the 2022 sample is the lowest reported TCE concentration and the 3.1 ug/L concentration is the second lowest TCE concentration for samples collected form MW-2011. TCE concentrations in MW-2011 are on an overall decreasing trend since the 2012 sampling event.

- The TCE concentration in monitor well D-15 increased slightly from 4.4 ug/L in 2022 to 6.0 ug/L in 2023. Review of the TCE data presented on Figure 5 shows TCE concentrations in D-15 are exhibiting on overall decreasing trend since the April 2001 sampling event.

- TCE concentrations in monitor well D-18 decreased from 0.71 ug/L in 2022 to 0.63 ug/L in February 2023 and May 2023, to not detected above the detection limit of 0.16 ug/L in July 2023 and November 2023. TCE impacts in D-18 have been below 1.0 ug/L since the July 2010 sampling event and have not exceeded the ES of 5.0 ug/L since 2003. The TCE results for the quarterly samples collected from D-18 indicate TCE concentrations declined in the vicinity of extraction well EX-1 with no pumping from EX-1.

- The TCE concentration in monitor well TW-3 increased slightly from 0.23 ug/L in 2022 to 0.41 ug/L in the February 1, 2023 groundwater sample but then decreased to less than the detection limit of 0.16 ug/L in the quarterly samples collected on May 18th, July 20th, and November 11th. Prior to the 2021 sampling event, TCE was last detected in the July 2016 sample collected from TW-3 at a concentration of 0.29 ug/L. TCE concentrations in TW-3 have been below the ES since the June 2003 sampling event. The TCE results for the quarterly samples collected from TW-3 indicate TCE concentrations declined upgradient of extraction well EX-1 with no pumping from EX-1.

- The reported TCE concentration in extraction well EX-7R decreased from 2.1 ug/L in 2022 to not being detected above the detection limit of 0.16 ug/L in 2023. The TCE results from EX-7 and EX-7R from the 2010 to 2023 sampling rounds suggest an overall declining trend in TCE impacts in the former sump source area.

Extraction Wells Maintenance and Meter Readings

As reported in the 2018 Annual Progress report, the four Badger Meter Dynasonics® U500w ultrasonic meters that read flow from extraction wells EX-1, EX-2R, EX-3R, EX-4R and EX-5R were installed and brought on-line in May 2018. The meter that reads flow from EX-6 was installed

and brought on-line in August 2018 and the meter that reads flow from EX-7R was installed and brought on-line in November 2018. The meters that read flow from extraction wells EX-1, EX-2R, EX-3R, EX-4R, EX-5R and EX-6 are installed in storm sewer manholes on the Delavan facility property. One meter reads the combined flow from extraction wells EX-2R and EX-3R and four meters read the individual flow from EX-1, EX-4R, EX-5R and EX-6. The meter that reads the flow from extraction well EX-7R is installed in an insulated enclosure at the wellhead. The original ultrasonic meters installed on the discharge lines of extraction wells EX-1 and EX-6 were replaced with new ultrasonic meters by Pentair personnel on May 20, 2022 and December 7, 2022 respectively because the original meters were not recording flow accurately.

The original ORION LTE endpoint connected to the Badger Meter Dynasonics® U500w ultrasonic meter installed on the discharge line of extraction well EX-7R stopped uploading flow data from the meter to the Badger Meter AquaCUE Flow Management website on October 10, 2022. After consultation with Badger Meter technicians a new ORION LTE endpoint was purchased as the original endpoint was out of warranty. The new endpoint was connected to the EX-7R meter by Tetra Tech personnel on February 24, 2023 after it was received from the vendor.

The monthly flow data from the U500w ultrasonic meters downloaded from the AquaCUE® Flow Measurement Manager website is summarized in Table 3. Pumping from extraction well EX-1 stopped on June 11, 2022 due to the failure of the pump. It was decided to not re-start pumping from EX-1 because as discussed in the 2021 and 2022 progress reports, the groundwater samples collected from EX-1 since September 2004 indicate it may be appropriate to stop groundwater extraction from EX-1 as none of the site contaminants of concern were detected above their respective Chapter NR140 ESs during that period. The effect the stoppage of pumping from EX-1 has on contaminant concentrations in the on-site plume was evaluated in 2023 by collecting quarterly groundwater samples from monitor wells TW-1, TW-3, and D-18, which are located upgradient of EX-1 (TW-3), near EX-1 (D-18), and downgradient of EX-1 (TW-1). The analytical results from the quarterly sampling events were discussed above and demonstrate the stoppage in pumping from EX-1 did not significantly affect contaminant concentrations in the on-site plume.

The analytical results indicate pumping from EX-1 is not needed to adequately contain the on-site plume if extraction well EX-7R, which is located in the former sump source area, is operating.

The pump in extraction well EX-7R stopped pumping groundwater on December 14, 2022. The pump in EX-7R was repaired by Pentair Flow Technologies personnel on February 9, 2023 and pumping from EX-7R was re-started the same day.

The pump in extraction well EX-6 was replaced by Pentair personnel with a new 30 gpm pump on April 18, 2023 because the pumping rate in EX-6 had declined to less than 3 gpm. The combined pumping rates of EX-2R and EX-3R declined from over 82,600 gallons per day on January 11, 2024 to less than 30 gallons per day in February. Both pumps were checked by Pentair personnel and the pump in EX-3R was drawing over 70 amps indicating the motor was burned out. Pentair personnel installed a new 30 gpm pump in EX-2R the same day (April 18th) the new pump was installed in EX-6.

The pump in extraction well EX-7R stopped pumping groundwater on April 10, 2023. A new 30 gpm pump was installed in extraction well EX-7R on May 12, 2023 by Pentair personnel and pumping from EX-7R was resumed the same day.

The pump in extraction well EX-2R stopped pumping groundwater on May 22, 2023. A new 30 gpm pump was installed in EX-2R by Pentair personnel on June 21, 2023 and pumping from EX-2R was resumed the same day.

The pumping rate in EX-7R began exhibiting a steady decline beginning on December 3, 2023 during which the pumping rate declined from 53,913 gallons per day or approximately 37.4 gpm to 6,771 gallons per day (about 4.7 gpm) on December 17, 2023. A new pump was installed in EX-7R by Pentair personnel in December but the pumping rate in EX-7R did not improve and continued to decline to less than 400 gallons per day (about 0.3 gpm). The cause for the reduction in pumping rate in EX-7R will be investigated and resolved in 2024.

The pump in extraction well EX-1 failed on December 28, 2023. Troubleshooting by Pentair personnel discovered a broken pump wire and leak in the discharge pipe. Pentair personnel repaired the broken wire, new pipe was ordered, and the damaged pipe was replaced once the new pipe was received. Pumping from EX-1 was re-started on January 23, 2024.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Significant reductions in VOC impacts at site monitor wells have been observed since the remedial action began. While VOC removal from the dual soil vapor extraction/groundwater extraction (SVE/GWE) wells in the former CSES and former SES areas and the SVE wells in the former sump source area has been discontinued, hydraulic control of the contaminant plume is maintained by pumping from the seven groundwater extraction wells located on the Delavan facility property (EX-1, EX-2R, EX-3R, EX-4R, EX-5R, EX-6 and EX-7R). As discussed above, the pumping rate in well EX-7R decline to less than 400 gallons per day. The on-site plume in the former sump source area is still contained by pumping from extraction well EX-1. The cause for the reduction in pumping from EX-7R will be investigated and resolved during the next reporting period.

Recommendations

1. The cause for the reduction in the pumping rate in extraction well EX-7R will be investigated and resolved. The resolution may include re-developing the extraction well, treating the extraction well for slime bacteria, and/or replacing the pump. Pumping from extraction wells EX-1, EX-2R, EX-3R, EX-4R, EX-5R, and EX-6 will continue while the cause for the reduction in pumping rate in EX-7R is being investigated.

2. It is recommended that extraction well EX-1 not be operated when extraction well EX-7R is pumping at its normal pumping rate of approximately 30 to 37 gpm. The quarterly groundwater samples collected from monitor wells TW-1, TW-3, and D-18 in 2023 while

EX-1 was shut down demonstrated contaminant concentrations were not significantly affected in the on-site plume when there is no pumping from EX-1 if extraction well EX-7R is operating. The stoppage of pumping from EX-1 also did not cause the on-site plume to expand. EX-1 will be used as a backup extraction well for EX-7R in instances when the pump in EX-7R fails or when pumping from EX-7R is temporarily reduced or stopped for maintenance or repairs. EX-1 will remain in operation while the WDNR considers this recommendation.

3. Annual sampling of the monitor wells that are part of the groundwater monitoring program for the Delavan facility will continue. Annual samples will also be collected from extraction wells EX-2R, EX-3R, and EX-7R. The 2023 monitoring plan is summarized on Table 5.

4. All the site monitor wells will be inspected as part of the annual groundwater sampling event.

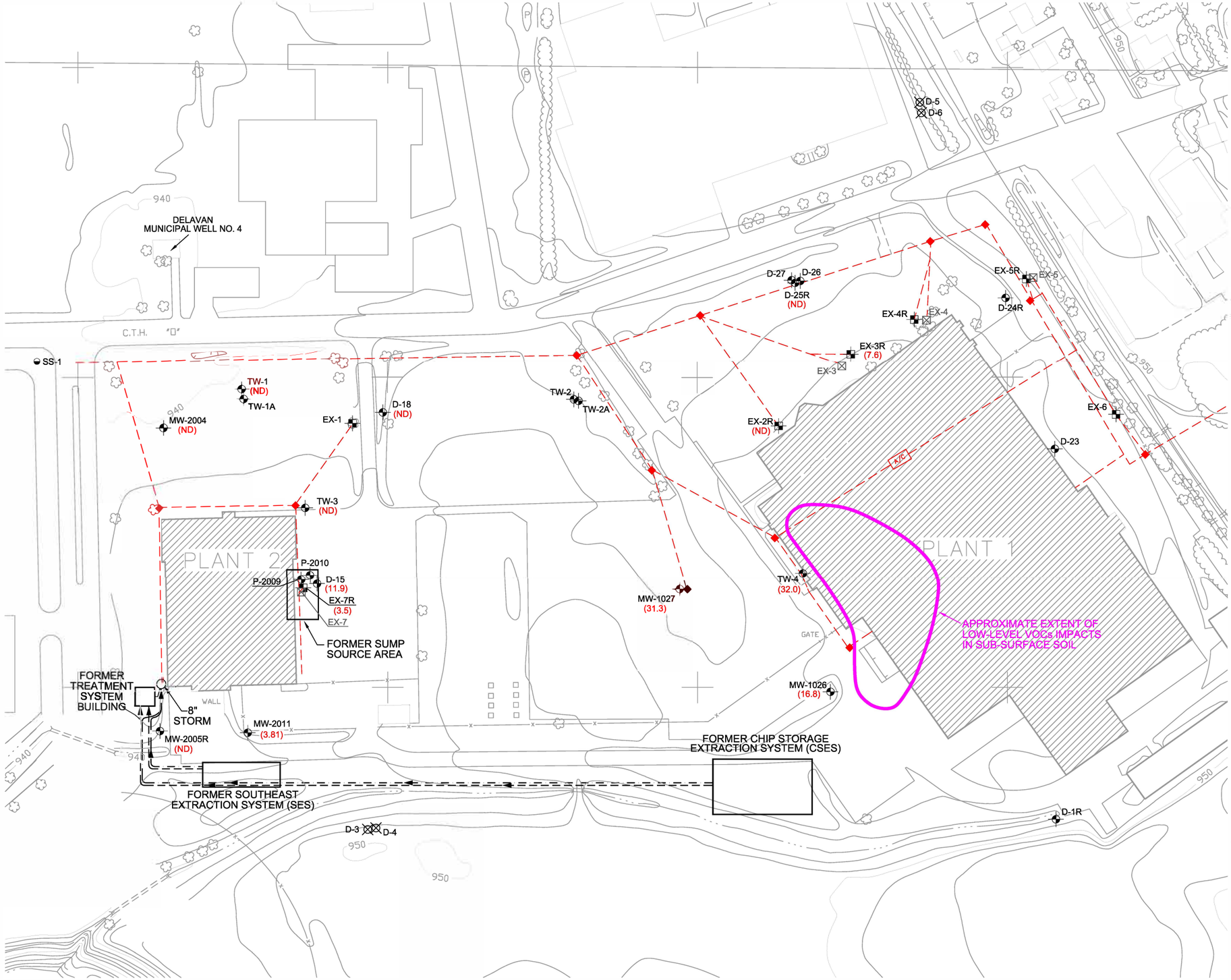
5. An annual site inspection of the Delavan facility property to document current site conditions and land use as described in the Final ICIAP will be performed in conjunction with the annual groundwater sampling event.

FIGURES

TABLES

APPENDICES

FIGURES



EXPLANATION

- MW-2004 — MONITOR WELL LOCATION AND DESIGNATION
- D-4 — FORMER LOCATION AND DESIGNATION OF MONITOR WELL THAT WAS ABANDONED ON JULY 14, 2019
- E-3 — EXTRACTION WELL LOCATION AND DESIGNATION
- SS-1 — STORM SEWER SAMPLE LOCATION AND DESIGNATION
- P-2009 — PIEZOMETER LOCATION AND DESIGNATION
- EX-7 — FORMER EXTRACTION WELL LOCATION AND DESIGNATION (FILLED AND SEALED IN 2017)
- EXTRACTION WELL/ STORM SEWER PIPING
- (7.6) — TOTAL VOCs CONCENTRATION (ug/L) FROM 2023 SAMPLING ROUND
- (ND) — NO VOCs DETECTED

N

SCALE

0 330

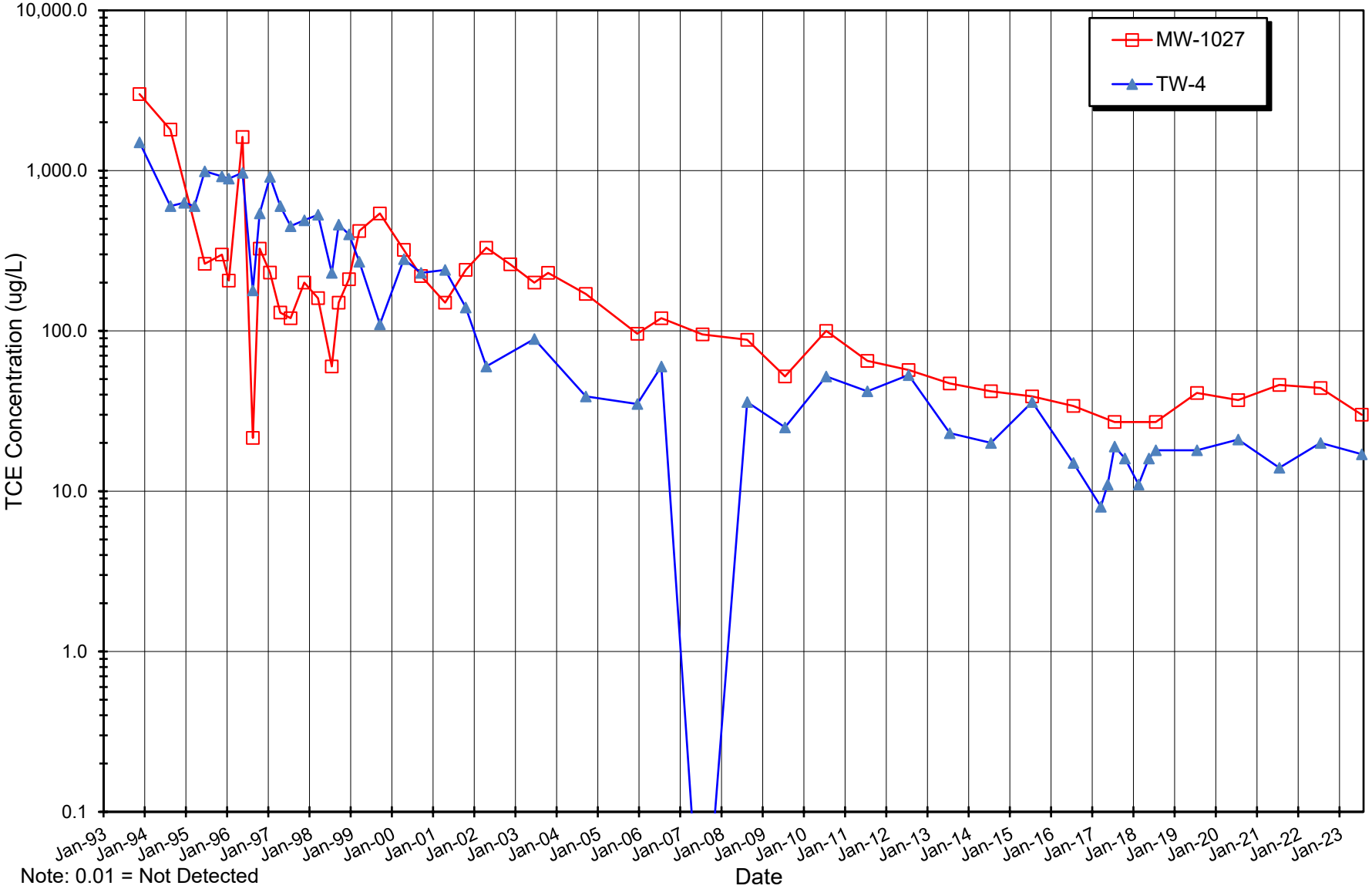
Feet

Base map from Areo-Metric Engineering, 4/16/88.

STA-RITE INDUSTRIES, INC. DELAVAN, WISCONSIN	DATE:	04/02/24
SITE LAYOUT AND TOTAL VOCs CONCENTRATIONS FOR GROUNDWATER MONITORING POINTS	DESIGNED:	CMP
	CHECKED:	MAM
	APPROVED:	MAM
	DRAWN:	CMP
	PROJ.:	117-7469013
TETRA TECH	Figure 1	

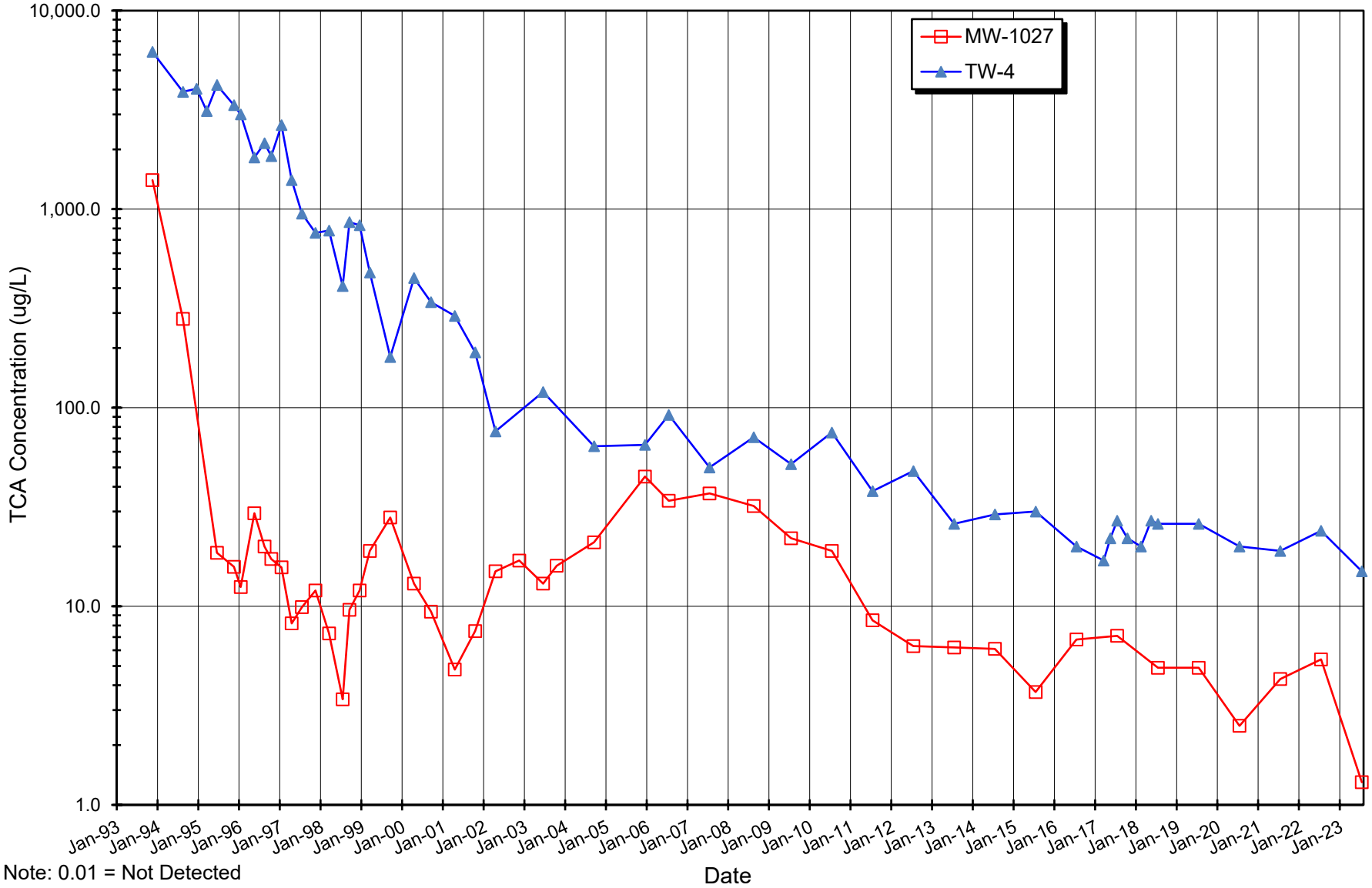
S:\STA-RITE\DELAVAN\APRIL 2024\7469013FIG1_04-02-24.DWG

Figure 2. Plant 1 Trichloroethene (TCE) Concentration Changes
ES = 5 ug/L, PAL = 0.5 ug/L



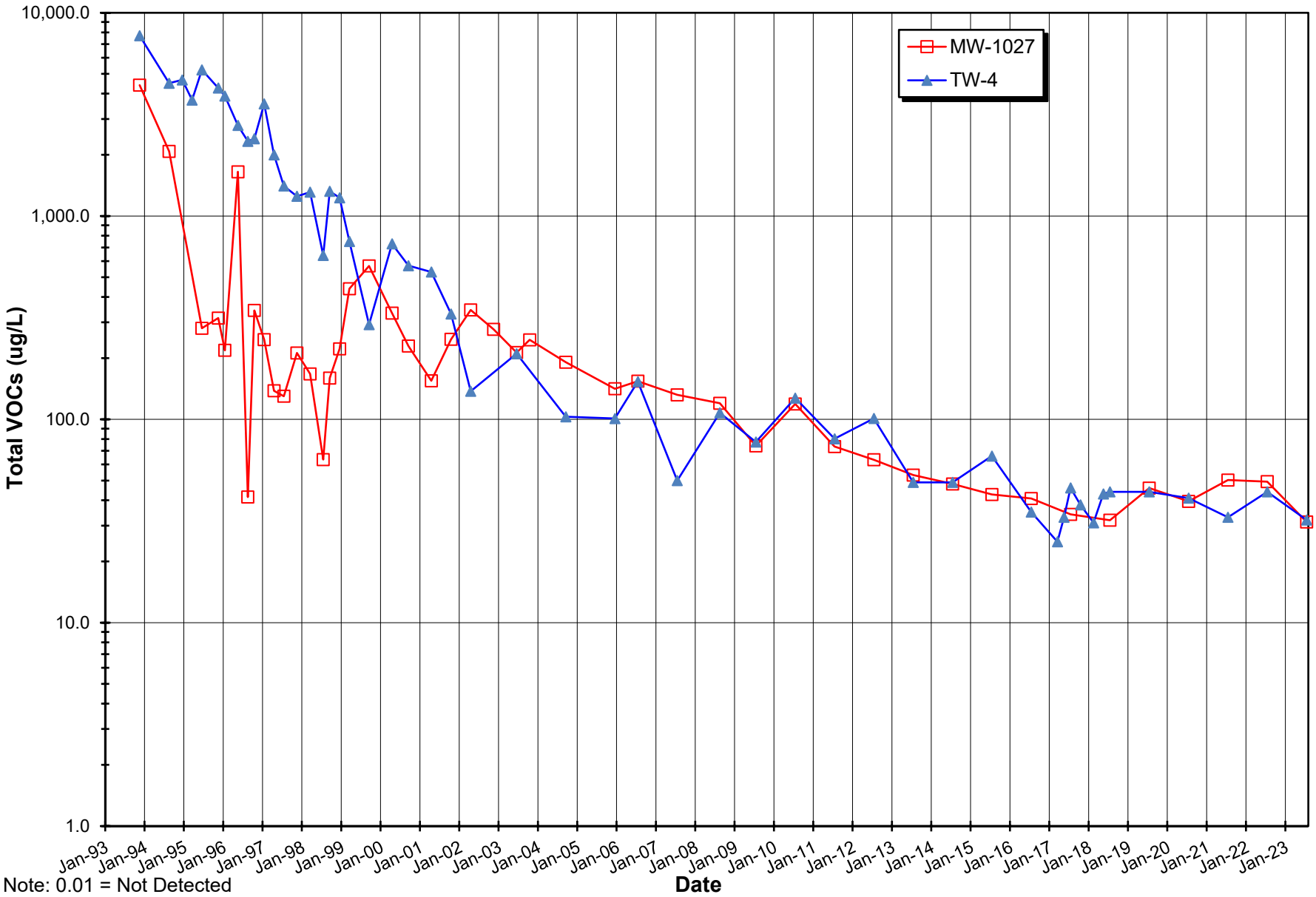
Note: 0.01 = Not Detected

Figure 3. Plant 1 1,1,1-Trichloroethane (TCA) Concentration Changes
ES = 200 ug/L, PAL = 40 ug/L



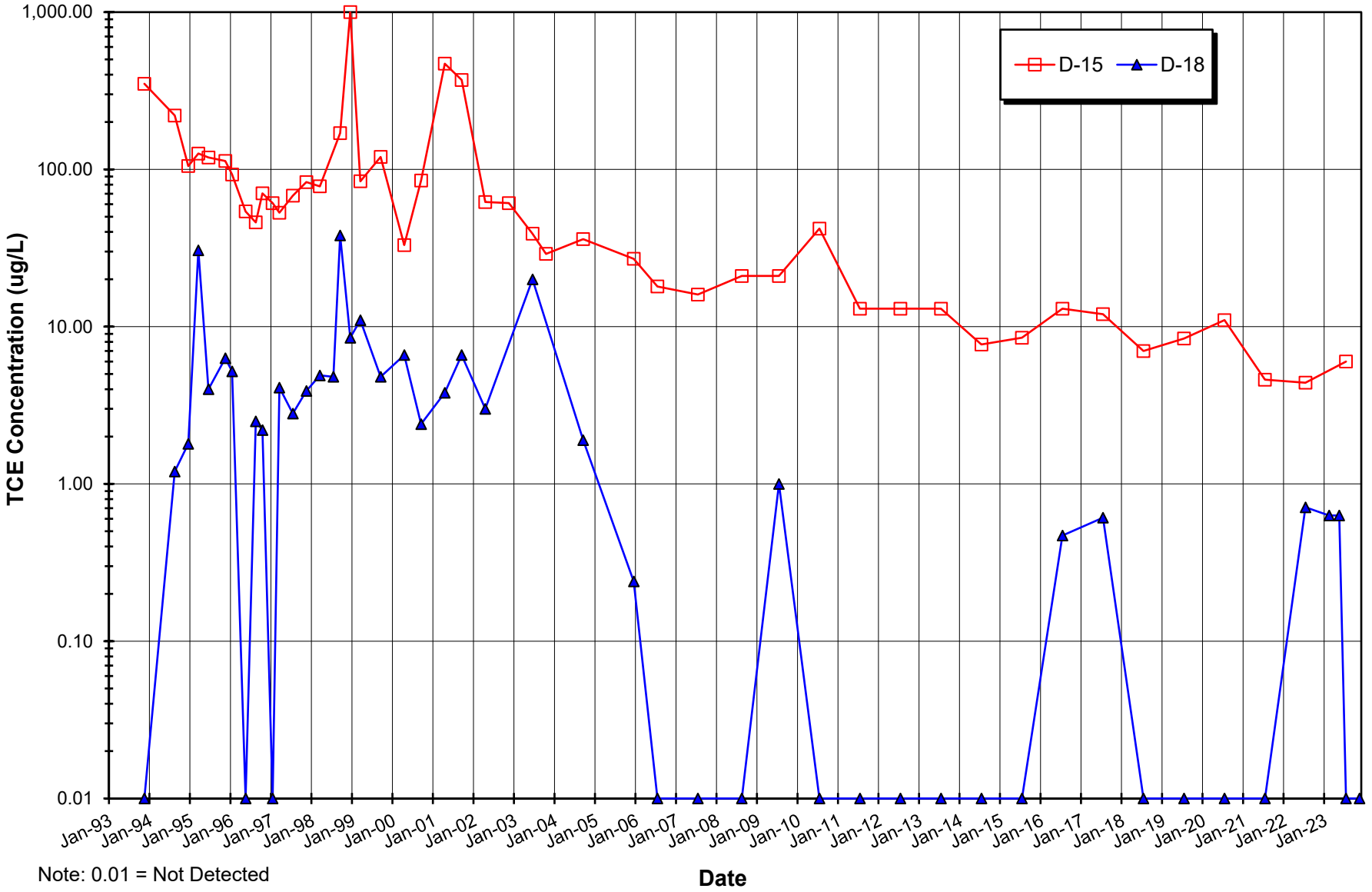
Note: 0.01 = Not Detected

Figure 4. Plant 1 Total VOC Concentration Changes



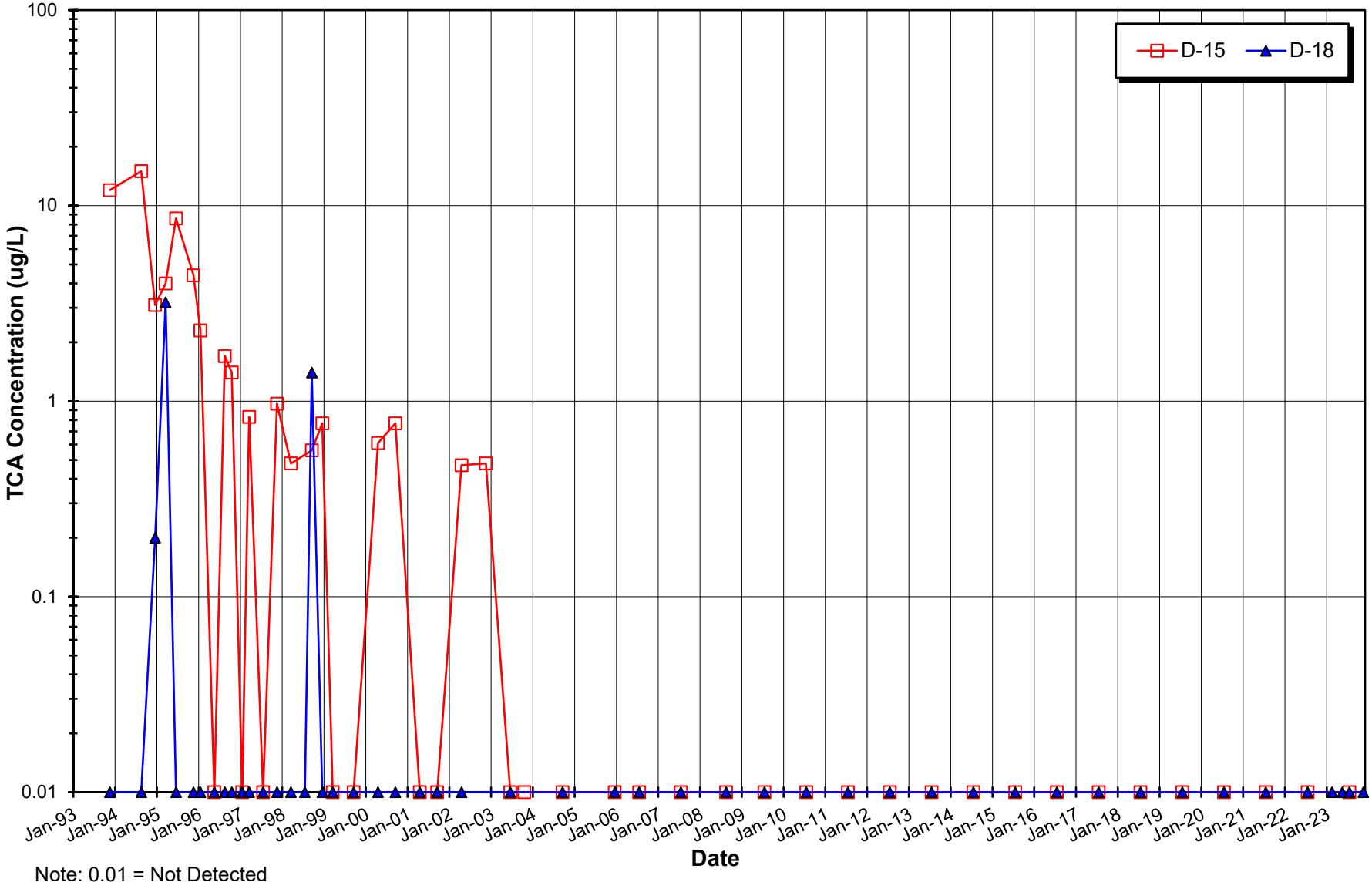
Note: 0.01 = Not Detected

Figure 5. Plant 2 Trichloroethene (TCE) Concentration Changes
ES = 5 ug/L, PAL = 0.5 ug/L



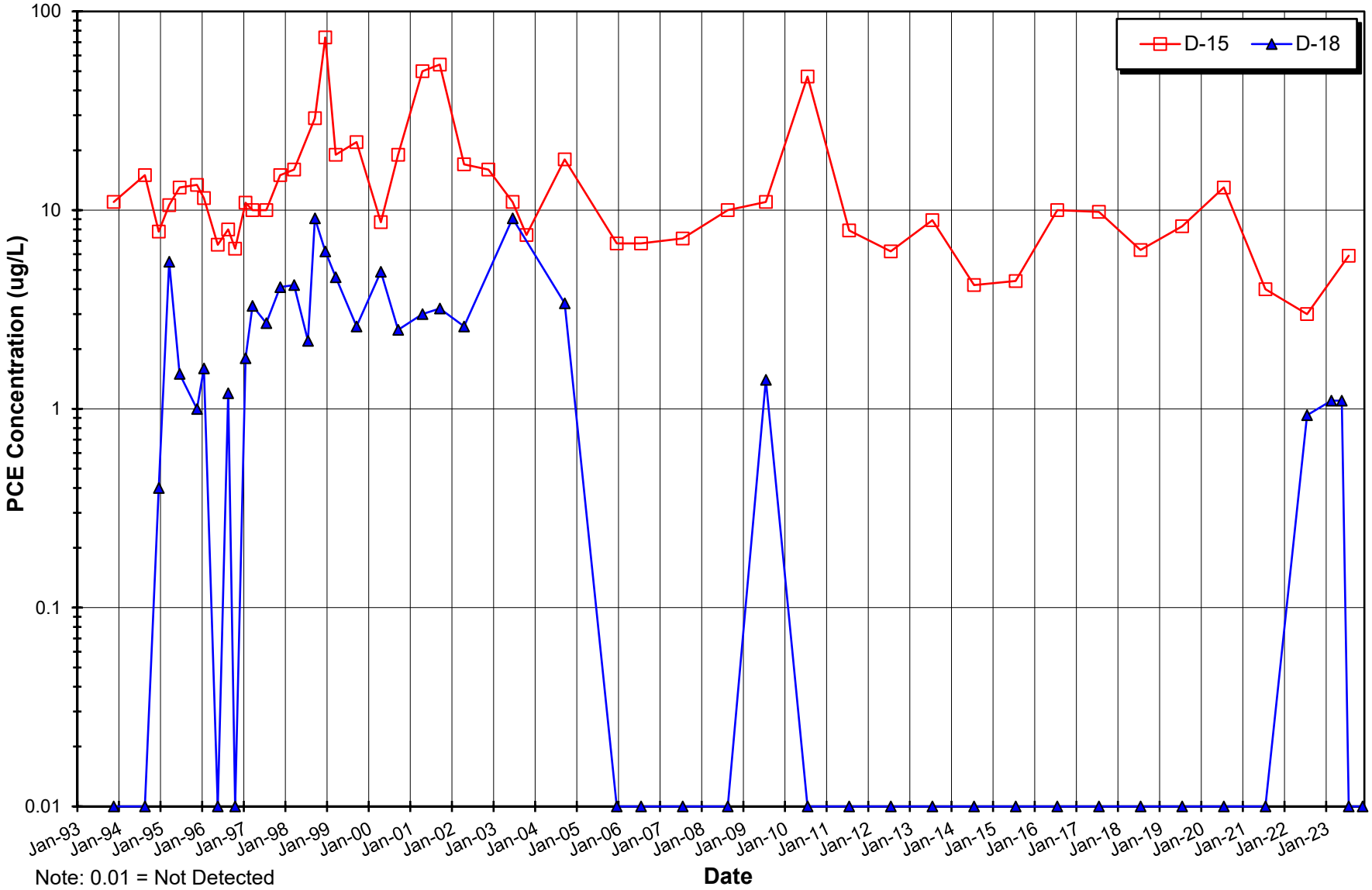
Note: 0.01 = Not Detected

Figure 6. Plant 2 1,1,1-Trichloroethane (TCA) Concentration Changes
ES = 200 ug/L, PAL = 40 ug/L



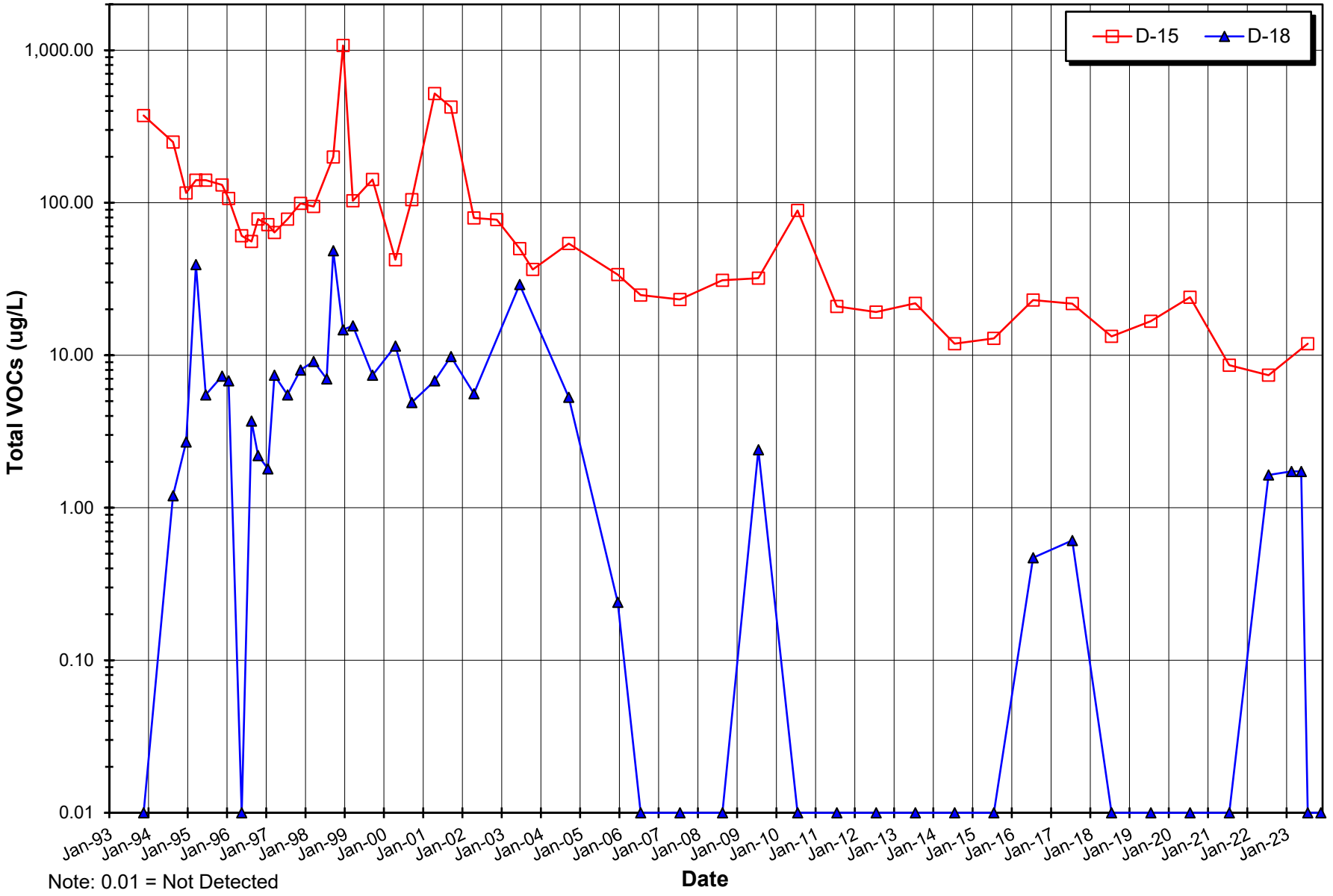
Note: 0.01 = Not Detected

Figure 7. Plant 2 Tetrachloroethene (PCE) Concentration Changes
ES = 5 ug/L, PAL = 0.5 ug/L



Note: 0.01 = Not Detected

Figure 8. Plant 2 Total VOC Concentration Changes



Note: 0.01 = Not Detected

TABLES

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
Plant #1							
MW-1026	10/29/91	**0.60**	**16000**	**1300**	**8.2**	<0.3	17308.8
	10/29/91	**1.2**	**15000**	**1300**	**7.1**	<0.3	16308.3
Downgradient	12/11/91	**1.0**	**22000**	**1500**	**10**	<0.3	23511
Monitor	11/11/93	<0.5	**4500**	**250**	**1.0**	<0.3	4751
Wells	08/16/94	<1	**1500**	**210**	NA	<5	1710
MW-1026	12/13/94	<25	**865**	**183**	NA	<25	1048
	03/13/95	NA	NA	NA	NA	NA	0
	06/21/95	<0.34	**41.9**	**72**	<0.19	<0.27	113.9
	11/07/95	<0.5	<0.5	**52.4**	NA	<0.5	52.4
	01/25/96	<0.5	**49.6**	**30.8**	NA	<0.5	80.4
	05/13/96	<0.5	**74.4**	**27.1**	NA	<0.5	101.5
	08/13/96	<0.5	**41**	**33.1**	**5.6**	<0.5	79.7
	10/08/96	<0.5	**26.1**	**21.5**	**1.8**	<0.5	49.4
	01/21/97	<0.5	**27**	**17.1**	NA	<0.5	44.1
	04/01/97	<0.63	**28**	**15**	NA	<0.46	43
	07/23/97	<0.63	**22**	**11**	**1.0**	<0.46	34
	11/18/97	<0.25	**20**	**13**	NA	<0.25	33
	03/23/98	<0.63	**15**	**10**	NA	<0.46	25
	07/27/98	<0.25	**8.4**	**4.5**	**1.8**	<0.25	14.7
	09/28/98	<0.63	**21**	**15**	**1.7**	<0.46	37.7
	12/08/98	<0.63	**24**	**14**	NA	<0.46	38
	03/12/99	<0.63	**21**	**13**	NA	<0.46	34
	09/25/03	<0.50	**25**	**6.1**	<0.25	<0.25	31.1
	12/15/03	<0.50	**34**	**10**	<0.20	<0.25	44
	12/14/05	<0.50	**91**	**21**	**0.27**	<0.20	112.27
	07/31/06	<1.0	**93**	**18**	NA	NA	111
	07/31/07	<0.50	**41**	**9.8**	<0.25	<0.20	50.8
	08/19/08	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/28/09	<0.50	**6.9**	**8**	<0.25	<0.20	14.9
	07/14/10	<0.50	**15**	**3.2**	<0.25	<0.20	18.2
	07/21/11	<0.50	**20**	**5.9**	<0.25	<0.20	25.9
MW-1026	07/10/12	<0.17	**25**	**7.3**	<0.28	<0.10	32.3

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
MW-1026	07/24/13	<0.17	**15**	**4.4**	<0.28	<0.10	19.4
	07/29/14	<0.17	**7.4**	**1.8**	<0.28	<0.10	9.2
	07/14/15	<0.17	**18**	**5.3**	<0.28	<0.10	23.3
	07/29/16	<0.37	**21**	**6.2**	<0.35	<0.20	27.2
	07/13/17	<0.37	**14**	**3.6**	<0.35	<0.20	17.6
	07/30/18	<0.37	**11**	**2.7**	<0.35	<0.20	13.7
	07/18/19	<0.37	**2.8**	**0.98**	<0.35	<0.20	3.78
	07/22/20	<0.37	**3.2**	**1.3**	<0.35	<0.20	4.5
	07/22/21	<0.37	**5.6**	**1.6**	<0.35	<0.20	7.2
	07/20/22	<0.37	**11**	**3.5**	<0.35	<0.20	14.5
MW-1026	07/20/23	<0.37	**12**	**4.8**	<0.35	<0.20	16.8
MW-1027	10/29/91	<0.5	**780**	**1700**	<0.5	<0.3	2480
	12/12/91	<0.5	**500**	**1200**	<0.5	<0.3	1700
	11/11/93	<0.5	**1400**	**3000**	<0.5	<0.3	4400
	08/17/94	<1	**280**	**1800**	NA	<5	2080
	06/21/95	<0.34	**18.6**	**262**	<0.19	<0.27	280.6
	11/07/95	<0.5	**15.8**	**299**	NA	<0.5	314.8
	01/26/96	<0.5	**12.5**	**206**	NA	<0.5	218.5
	05/13/96	<0.5	**29.4**	**1620**	NA	<0.5	1649.4
	08/14/96	<0.5	**20**	**21.5**	<0.5	<0.5	41.5
	10/08/96	<0.5	**17.3**	**326**	<0.5	<0.5	343.3
	01/21/97	<0.5	**15.7**	**231**	NA	<0.5	246.7
	04/01/97	<0.63	**8.2**	**130**	NA	<0.46	138.2
	07/24/97	<0.63	**9.9**	**120**	<0.15	<0.46	129.9
	11/18/97	<0.25	**12**	**200**	NA	<0.25	212
	03/23/98	<0.63	**7.3**	**160**	NA	<0.46	167.3
	07/28/98	<1.2	**3.4**	**60**	<1.2	<1.2	63.4
	09/28/98	<0.63	**9.6**	**150**	<0.28	<0.46	159.6
	12/08/98	<1.3	**12**	**210**	NA	<0.46	222
	03/11/99	<3.2	**19**	**420**	NA	<2.3	439
	09/02/99	<3.2	**28**	**540**	NA	NA	568
	04/25/00	<3.2	**13**	**320**	NA	<2.3	333
MW-1027	09/25/00	<3.2	**9.4**	**220**	NA	NA	229.4

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
MW-1027	04/23/01	<1.0	**4.8**	**150**	NA	<1.0	154.8
	10/02/01	<1.0	**7.5**	**240**	<1.0	NA	247.5
	04/16/02	<1.2	**15**	**330**	<1.2	NA	345
	11/19/02	<1.2	**17**	**260**	<1.2	NA	277
	06/24/03	<5.0	**13**	**200**	<2.5	NA	213
	10/20/03	<0.50	**16**	**230**	<0.25	NA	246
	09/21/04	<2.0	**21**	**170**	NA	<0.80	191
	12/14/05	<0.50	**45**	**96**	**0.38**	<0.20	141.38
	07/31/06	<1.0	**34**	**120**	NA	NA	154
	07/31/07	<0.50	**37**	**95**	<0.25	<0.20	132
	08/19/08	<0.50	**32**	**88**	<0.25	<0.20	120
MW-1027	07/28/09	<0.50	**22**	**52**	<0.25	<0.20	74
	07/14/10	<0.50	**19**	**100**	<0.25	<0.20	119
	07/21/11	<0.50	**8.5**	**65**	<0.25	<0.20	73.5
	07/10/12	<0.17	**6.3**	**57**	<0.28	<0.10	63.3
	07/24/13	<0.17	**6.2**	**47**	<0.28	<0.10	53.2
	07/29/14	<0.17	**6.1**	**42**	<0.28	<0.10	48.1
	07/14/15	<0.17	**3.7**	**39**	<0.28	<0.10	42.7
	07/29/16	<0.37	**6.8**	**34**	<0.35	<0.20	40.8
	07/13/17	<0.37	**7.1**	**27**	<0.35	<0.20	34.1
	07/30/18	<0.37	**4.9**	**27**	<0.35	<0.20	31.9
	07/17/19	<0.37	**4.9**	**41**	<0.35	<0.20	45.9
	07/22/20	<0.37	**2.5**	**37**	<0.35	<0.20	39.5
	07/21/21	<0.37	**4.3**	**46**	<0.35	<0.20	50.3
	07/20/22	<0.37	**5.4**	**44**	<0.35	<0.20	49.4
MW-1027	07/21/23	<0.37	**1.3**	**30**	<0.35	<0.20	31.3
TW-4	11/05/91	**0.50**	**10000**	**1100**	**5.6**	<0.3	11106.1
	12/12/91	**0.60**	**11000**	**1200**	**4.5**	<0.3	12205.1
	11/11/93	**0.80**	**6200**	**1500**	**3.2**	<0.3	7704
	08/17/94	<1	**3900**	**600**	NA	<5	4500
	12/14/94	<50	**4040**	**630**	NA	<50	4670
	03/13/95	ND	**3120**	**600**	NA	ND	3720
TW-4	06/21/95	NA	**4220**	**990**	**17.6**	**5.4**	5233

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
TW-4	11/08/95	**1.2**	**3340**	**920**	NA	<0.5	4261.2
	01/25/96	**1.1**	**3000**	**891**	NA	<0.5	3892.1
TW-4	05/14/96	**0.90**	**1820**	**969**	NA	<0.5	2789.9
	08/14/96	<0.5	**2150**	**179**	**1.8**	<0.5	2330.8
TW-4	10/08/96	**0.90**	**1850**	**541**	**6.3**	<0.5	2398.2
	01/21/97	<0.5	**2650**	**913**	NA	<0.5	3563
TW-4	04/01/97	**0.83**	**1400**	**600**	NA	<0.46	2000.83
	07/23/97	**0.67**	**950**	**450**	**4.4**	<0.46	1405.07
	11/18/97	**0.83**	**760**	**490**	NA	<0.25	1250.83
	03/23/98	**0.74**	**780**	**530**	NA	<0.46	1310.74
TW-4	07/27/98	<2.5	**410**	**230**	<2.5	<2.5	640
	09/28/98	<0.63	**860**	**460**	**2.8**	<0.46	1322.8
	12/05/98	<6.3	**830**	**400**	NA	<4.6	1230
	03/11/99	<6.3	**480**	**270**	NA	<4.6	750
	09/02/99	<3.2	**180**	**110**	**2.4**	<2.3	292.4
	04/25/00	<3.2	**450**	**280**	NA	<2.3	730
	09/26/00	<6.3	**340**	**230**	<1.5	<4.6	570
	04/23/01	**0.60**	**290**	**240**	NA	<0.25	530.6
	10/02/01	<2.0	**190**	**140**	<2.0	<2.0	330
	04/16/02	<0.25	**76**	**60**	**1.5**	<0.25	137.5
TW-4	06/24/03	<1.0	**120**	**89**	**1.4**	<1.0	210.4
	09/21/04	<0.50	**64**	**39**	NA	<0.20	103
	12/14/05	<0.50	**65**	**35**	**0.92**	<0.20	100.92
	07/31/06	<0.50	**92**	**60**	**1.3**	<0.20	153.3
	07/31/07	<0.50	**50**	<0.20	<0.25	<0.20	50
	08/20/08	<0.50	**71**	**36**	**0.73**	<0.20	107.73
	07/28/09	<0.50	**52**	**25**	**0.34**	<0.20	77.34
TW-4	07/14/10	<0.50	**75**	**52**	**0.28**	<0.20	127.28
	07/21/11	<0.50	**38**	**42**	**0.28**	<0.20	80.28
	07/10/12	<0.17	**48**	**53**	<0.28	<0.10	101
	07/24/13	<0.17	**26**	**23**	<0.28	<0.10	49
	07/29/14	<0.17	**29**	**20**	<0.28	<0.10	49
TW-4	07/14/15	<0.17	**30**	**36**	<0.28	<0.10	66

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
TW-4	07/29/16	<0.37	**20**	**15**	<0.35	<0.20	35
	03/01/17	<0.37	**17**	**8.0**	<0.35	<0.20	25
TW-4	05/17/17	<0.37	**22**	**11**	<0.35	<0.20	33
	07/13/17	<0.37	**27**	**19**	<0.35	<0.20	46
TW-4	10/24/17	<0.37	**22**	**16**	<0.35	<0.20	38
	02/28/18	<0.37	**20**	**11**	<0.35	<0.20	31
TW-4	05/10/18	<0.74	**27**	**16**	<0.33	<0.50	43
	07/30/18	<0.37	**26**	**18**	<0.35	<0.20	44
	07/18/19	<0.37	**26**	**18**	<0.35	<0.20	44
	07/23/20	<0.37	**20**	**21**	<0.35	<0.20	41
TW-4	07/22/21	<0.37	**19**	**14**	<0.35	<0.20	33
	07/20/22	<0.37	**24**	**20**	<0.35	<0.20	44
TW-4	07/21/23	<0.37	**15**	**17**	<0.35	<0.20	32
D-25R	10/29/91	<0.5	<0.5	**11**	<0.5	<0.3	11
	12/13/91	**0.60**	13	**13**	<0.5	<0.3	26.6
D-25R	11/11/93	<0.5	**6.0**	**4.7**	<0.5	<0.3	10.7
	08/17/94	<1	**3.1**	**4.6**	NA	<5	7.7
	12/13/94	**0.40**	**4.7**	**5.4**	NA	<0.5	10.5
	03/13/95	ND	**4.3**	**3.2**	NA	ND	7.5
	06/26/95	<0.34	**3.1**	<0.19	<0.19	<0.27	3.1
D-25R	11/07/95	<0.5	**5.1**	<0.5	NA	<0.5	5.1
	01/25/96	<0.5	**4.7**	**5.1**	NA	<0.5	9.8
	05/14/96	<0.5	**6.9**	**6.3**	NA	<0.5	13.2
	08/14/96	**1.5**	**43.7**	**38.3**	<0.5	<0.5	83.5
D-25R	10/09/96	<0.5	**8.2**	**10.1**	<0.5	<0.5	18.3
	01/20/97	<0.5	**10.4**	<0.5	NA	<0.5	10.4
	04/01/97	**0.77**	**11**	**9.1**	NA	<0.46	20.87
	07/24/97	**0.86**	**9.5**	**9.8**	<0.15	<0.46	20.16
D-25R	11/18/97	**0.84**	**6.7**	**8.7**	NA	<0.25	16.24
	03/23/98	**0.71**	**5**	**7.5**	NA	<0.46	13.21
	07/28/98	<0.25	**2.1**	**2.7**	<0.25	<0.25	4.8
	09/28/98	**0.78**	**6.6**	**9.2**	<0.28	<0.46	16.58
D-25R	12/08/98	**0.70**	**6.5**	**8.7**	NA	<0.46	15.9

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
D-25R	03/12/99	**0.78**	**5.6**	**7.7**	NA	<0.46	14.08
	09/02/99	**0.72**	**6.7**	**8.4**	NA	NA	15.82
	04/25/00	**1.0**	**3.5**	**4.0**	NA	<0.46	8.5
D-25R	09/26/00	**0.82**	**4.5**	**4.7**	NA	NA	10.02
	04/23/01	**0.45**	**3.1**	**4.3**	NA	<0.25	7.85
	10/02/01	**0.58**	**4.0**	**3.8**	<0.25	NA	8.38
D-25R	04/16/02	**0.58**	**4.3**	**4.7**	<0.25	NA	9.58
	11/19/02	**0.87**	**7.6**	**6.2**	<0.25	NA	14.67
	06/24/03	**0.86**	**6.1**	**7.7**	<0.25	NA	14.66
D-25R	10/20/03	**0.71**	**4.3**	**4.6**	<0.25	NA	9.61
	09/21/04	**0.61**	**3.5**	**3.3**	NA	<0.20	7.41
	12/13/05	**0.59**	**15**	**12**	<0.25	<0.20	27.59
D-25R	07/31/06	**0.53**	**12**	**25**	NA	NA	37.53
	07/31/07	<0.50	**8.0**	**12**	<0.25	<0.20	20
	08/20/08	**0.51**	**7.3**	**8.3**	<0.25	<0.20	16.11
D-25R	07/28/09	<0.50	**6.2**	**6.0**	<0.25	<0.20	12.2
	07/13/10	<0.50	**8.4**	**7.6**	<0.25	<0.20	16
	07/20/11	<0.50	**1.4**	**2.7**	<0.25	<0.20	4.1
	07/10/12	<0.17	**1.3**	**1.4**	<0.28	<0.10	2.7
	07/24/13	<0.17	**1.0**	**1.0**	<0.28	<0.10	2
D-25R	07/29/14	<0.17	**0.7**	**0.82**	<0.28	<0.10	1.49
	07/14/15	<0.17	<0.20	**0.71**	<0.28	<0.10	0.71
	07/28/16	<0.37	<0.38	**0.57**	<0.35	<0.20	0.57
	07/12/17	<0.37	**2.9**	**2.3**	<0.35	<0.20	5.2
	07/30/18	<0.37	<0.38	**0.55**	<0.35	<0.20	0.55
	07/17/19	<0.37	**0.55**	**0.54**	<0.35	<0.20	1.09
	07/22/20	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/21/21	<0.37	<0.38	**0.46**	<0.35	<0.20	0.46
	07/19/22	<0.37	0.62	**0.54**	<0.35	<0.20	1.16
D-25R	07/21/23	<0.37	<0.38	<0.16	<0.35	<0.20	0
Original EX-2	11/07/91	<0.5	**870**	**210**	**1.1**	<0.3	1081.1
Extraction	12/18/91	<0.5	**1260**	**268**	**1.4**	<0.3	1529.4
Well	11/11/93	<0.5	**890**	**250**	**1.3**	<0.3	1141.3

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
EX-2	12/13/94	<0.5	**17.3**	**3.5**	NA	<0.5	20.8
	06/21/95	<0.34	**375**	**96.4**	<0.19	<0.27	471.4
EX-2 /	08/14/96	<0.5	**99.8**	**52**	<0.5	<0.5	151.8
EX-2R	07/25/97	<0.63	**1.2**	**2.6**	<0.15	<0.46	3.8
EX-2R	07/28/98	<0.25	**0.79**	**2.1**	<0.25	<0.25	2.89
	09/07/99	<0.63	**15**	**34**	NA	NA	49
	04/18/00	<0.63	**1.3**	**3.7**	NA	<0.46	5
EX-2R	09/26/00	<0.63	**18**	**36**	NA	<0.46	54
	04/19/01	<0.25	**2.6**	**8.4**	NA	<0.25	11
	10/02/01	<0.25	**16**	**34**	<0.25	NA	50
	04/16/02	<0.25	**8.4**	**22**	<0.25	NA	30.4
	06/24/03	<0.50	**0.69**	**2.9**	<0.25	NA	3.59
EX-2R	09/21/04	<0.50	**11**	**25**	NA	<0.20	36
	07/31/06	<0.50	**0.61**	**1.7**	NA	NA	2.31
	07/31/07	<0.50	**6.3**	**6.7**	<0.25	<0.20	13
	08/20/08	<0.50	**15**	**22**	<0.25	<0.20	37
EX-2R	07/28/09	<0.50	**5.0**	**4.5**	<0.25	<0.20	9.5
	10/05/10	<0.50	**8.2**	**21**	<0.25	<0.20	29.2
	07/21/11	<0.50	**5.0**	**15**	<0.25	<0.20	20
EX-2R	07/11/12	<0.17	**3.2**	**9.8**	<0.28	<0.10	13
	07/24/13	<0.17	**4.6**	**7.0**	<0.28	<0.10	11.6
	07/30/14	<0.17	**3.3**	**5.8**	<0.28	<0.10	9.1
	07/15/15	<0.17	**1.4**	**3.8**	<0.28	<0.10	5.2
	07/28/16	<0.37	**4.2**	**7.1**	<0.35	<0.20	11.3
	10/24/17	<0.37	**3.7**	**6.3**	<0.35	<0.20	10
	07/31/18	<0.37	**1.7**	**3.6**	<0.35	<0.20	5.3
	07/18/19	<0.37	**1.0**	**2.8**	<0.35	<0.20	3.8
	07/23/20	<0.37	<0.38	**2.4**	<0.35	<0.20	2.4
	07/22/21	<0.37	**0.47**	**2.1**	<0.35	<0.20	2.57
	07/20/22	<0.37	<0.38	**0.67**	<0.35	<0.20	0.67
EX-2R	07/21/23	<0.37	<0.38	<0.16	<0.35	<0.20	0
Original EX-3	11/07/91	<0.5	**50**	**14**	<0.5	<0.3	64
Extraction Well	12/18/91	<0.5	30.3	**9.5**	<0.5	<0.3	39.8

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
Original	11/11/93	<0.5	<0.5	<0.5	<0.5	<0.3	0
Extraction	12/13/94	<0.5	**14.4**	**5.8**	NA	<0.5	20.2
Wells	06/21/95	<0.34	**8.7**	**4.0**	<0.19	<0.27	12.7
EX-3	08/14/96	<0.5	**4.5**	**3.6**	<0.5	<0.5	8.1
	07/25/97	<0.63	**93**	**52**	**0.4**	<0.46	145.4
EX-3	07/28/98	<0.25	**30**	**28**	<0.25	<0.25	58
	09/07/99	<0.63	**22**	**26**	NA	NA	48
	04/18/00	<0.63	**37**	**55**	NA	<0.46	92
	09/26/00	<0.63	**25**	**28**	NA	NA	53
EX-3	04/19/01	<0.25	**27**	**38**	NA	<0.25	65
	10/02/01	<0.25	**13**	**17**	<0.25	NA	30
	04/16/02	<0.25	**21**	**28**	<0.25	NA	49
	06/24/03	<0.50	**23**	**46**	<0.25	NA	69
	09/21/04	<0.50	**13**	**17**	NA	<0.20	30
EX-3	12/14/05	<0.50	**28**	**34**	**0.29**	<0.20	62.29
	07/31/06	<0.50	**32**	**66**	NA	NA	98
	07/31/07	<0.50	**15**	**25**	<0.25	<0.20	40
	08/20/08	<0.50	**7.5**	**3.6**	<0.25	<0.20	11.1
	07/28/09	<0.50	**14**	**21**	<0.25	<0.20	35
	07/14/10	<0.50	**38**	**29**	**0.34**	<0.20	67.34
EX-3	07/21/11	<0.50	**34**	**33**	**0.33**	<0.20	67.33
	07/11/12	<0.17	**15**	**18**	<0.28	<0.10	33
	07/24/13	<0.17	**2.2**	**2.2**	<0.28	<0.10	4.4
	07/30/14	<0.17	**1.6**	**2.2**	<0.28	<0.10	3.8
EX-3/	07/15/15	<0.17	**3.1**	**3.5**	<0.28	<0.10	6.6
EX-3R	10/24/17	<0.37	**2.3**	**3.3**	<0.35	<0.20	5.6
	07/31/18	<0.37	**2.4**	**2.4**	<0.35	<0.20	4.8
	07/18/19	<0.37	**4.5**	**5.2**	<0.35	<0.20	9.7
	07/23/20	<0.37	**5.0**	**6.3**	<0.35	<0.20	11.3
	07/22/21	<0.37	**4.2**	**5.6**	<0.35	<0.20	9.8
	07/20/22	<0.37	**3.9**	**5.7**	<0.35	<0.20	9.6
EX-3R	07/21/23	<0.37	**2.6**	**5.0**	<0.35	<0.20	7.6
EX-4R	07/18/19	<0.37	**1.0**	**1.0**	<0.35	<0.20	2

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
EX-5R	07/18/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
EX-6	07/18/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
SS-1	11/11/93	**0.90**	**71**	**24**	<0.5	<0.3	95.9
	08/16/94	<1	**55**	**25**	NA	<5	80
Storm Sewer	12/14/94	0.10	**11.2**	**3.0**	NA	<0.5	14.3
Outfall	06/21/95	<0.34	**31.2**	**18.1**	<0.19	<0.27	49.3
SS-1	11/06/95	<0.5	**21.7**	<0.5	NA	<0.5	21.7
	01/25/96	**2.6**	**17.1**	**21.1**	NA	<0.5	40.8
SS-1	05/13/96	**0.60**	**12.6**	**8.2**	NA	<0.5	21.4
	08/13/96	**0.70**	**8.3**	**7.8**	<0.5	<0.5	16.8
	10/08/96	**0.70**	**6.7**	**8.8**	<0.5	<0.5	16.2
SS-1	01/20/97	**0.70**	**8.1**	**8.9**	<0.5	<0.5	17.7
	04/01/97	**0.74**	**5.8**	**6.6**	NA	<0.46	13.14
	07/23/97	<0.63	**1.2**	**1.5**	<0.15	<0.46	2.7
	11/18/97	<0.25	**4.9**	**4.9**	NA	<0.25	9.8
SS-1	09/02/99	**3.4**	**3.1**	**17**	NA	<0.46	23.5
	09/25/00	<0.63	**0.37**	**2.1**	NA	NA	2.47
	10/01/01	<0.25	**1.5**	**3.7**	<0.25	<0.25	5.2
SS-1	04/17/02	**1.1**	**1.4**	**5.2**	<0.25	NA	7.7
	12/04/02	**0.71**	**1.2**	**4.4**	<0.25	<0.25	6.31
	03/08/04	<0.50	**0.90**	**2.5**	<0.25	<0.20	3.4
	04/05/04	<0.50	<0.50	**3.2**	<0.25	<0.20	3.2
	06/22/05	**0.78**	**0.52**	**2.2**	<0.25	<0.20	3.5
	12/07/05	**1.8**	**0.67**	**0.64**	<0.25	<0.20	3.11
SS-1	08/01/06	**0.71**	<0.50	**1.6**	NA	<0.20	2.31
	08/01/07	<0.50	**0.80**	**1.9**	<0.25	<0.20	2.7
	08/20/08	**0.50**	<0.50	**0.79**	<0.25	<0.20	1.29
	07/28/09	<0.50	**1.8**	**3.2**	<0.25	<0.20	5
	07/20/10	<0.50	<0.50	**0.47**	<0.25	<0.20	0.47
	07/13/11	<0.50	<0.50	**1.5**	<0.25	<0.20	1.5
	07/10/12	<0.17	<0.20	**1.5**	<0.28	<0.10	1.5
	07/15/13	<0.17	<0.20	<0.19	<0.28	<0.10	0
SS-1	07/14/14	<0.17	<0.20	**0.75**	<0.28	<0.10	0.75

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
SS-1	07/06/15	**0.67**	<0.20	**0.85**	<0.28	<0.10	1.52
	07/20/16	<0.37	<0.38	**0.88**	<0.35	<0.20	0.88
	07/19/17	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/11/18	<0.37	<0.38	**0.51**	<0.35	<0.20	0.51
	07/23/19	<0.37	<0.38	**0.51**	<0.35	<0.20	0.51
SS-1	07/23/20	<0.37	<0.38	**0.55**	<0.35	<0.20	0.55
	06/09/21	<0.37	<0.38	**0.42**	NA	<0.20	0.42
	06/20/22	<0.37	<0.38	<0.16	NA	<0.20	0
SS-1	08/21/23	<0.37	<0.38	**0.35**	NA	<0.20	0.35
Plant #2							
D-18	11/04/91	<0.5	<0.5	**1.5**	<0.5	<0.3	1.5
D-18	12/12/91	**0.90**	0.5	**2.1**	<0.5	<0.3	3.5
Southeast	11/11/93	<0.5	<0.5	<0.5	<0.5	<0.3	0
Source Area	08/16/94	<1	<1	**1.2**	NA	<5	1.2
and	12/13/94	**0.40**	**0.20**	**1.8**	NA	**0.30**	2.7
Former Sump	03/13/95	**5.5**	**3.2**	**30.6**	NA	ND	39.3
Source Area	06/21/95	**1.5**	<0.13	**4.0**	<0.19	<0.27	5.5
Monitor	11/06/95	**1.0**	<0.5	**6.3**	NA	<0.5	7.3
Wells	01/25/96	**1.6**	<0.5	**5.2**	NA	<0.5	6.8
D-18	05/13/96	**<0.5**	<0.5	<0.5	NA	<0.5	0
	08/13/96	**1.2**	<0.5	**2.5**	<0.5	<0.5	3.7
D-18	10/08/96	<0.5	<0.5	**2.2**	<0.5	<0.5	2.2
	01/20/97	**1.8**	<0.5	<0.5	NA	<0.5	1.8
	03/31/97	**3.3**	<0.28	**4.1**	NA	<0.46	7.4
	07/23/97	**2.7**	<0.28	**2.8**	<0.15	<0.46	5.5
	11/17/97	**4.1**	<0.28	**3.9**	NA	<0.48	8
	03/23/98	**4.2**	<0.28	**4.9**	NA	<0.46	9.1
	07/27/98	**2.2**	<0.25	**4.8**	<0.15	<0.25	7
	09/25/98	**9.1**	**1.4**	**38**	<0.28	<0.46	48.5
D-18	12/08/98	**6.2**	<0.28	**8.5**	NA	<0.46	14.7
	03/11/99	**4.6**	<0.28	**11**	NA	<0.46	15.6
	09/07/99	**2.6**	<0.28	**4.8**	NA	NA	7.4
D-18	04/25/00	**4.9**	<0.28	**6.6**	NA	<0.46	11.5

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
D-18	09/25/00	**2.5**	<0.28	**2.4**	NA	NA	4.9
D-18	04/19/01	**3.0**	<0.25	**3.8**	NA	<0.25	6.8
	09/27/01	**3.2**	<0.25	**6.6**	<0.25	NA	9.8
	04/17/02	**2.6**	<0.25	**3.0**	<0.25	NA	5.6
	06/20/03	**9.1**	<0.50	**20**	<0.25	NA	29.1
	10/20/03	**Not Sampled.**					
D-18	09/20/04	**3.4**	<0.50	**1.9**	NA	<0.20	5.3
	12/14/05	<0.50	<0.50	**0.24**	<0.25	<0.20	0.24
	07/31/06	<0.50	<0.50	<0.20	NA	NA	0
D-18	07/31/07	<0.50	<0.50	<0.20	<0.25	<0.20	0
	08/19/08	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/28/09	**1.4**	<0.50	**1.0**	<0.25	<0.20	2.4
	07/13/10	<0.50	<0.50	<0.20	<0.25	<0.20	0
D-18	07/20/11	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/10/12	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/24/13	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/29/14	<0.17	<0.20	<0.19	<0.28	<0.10	0
D-18	07/14/15	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/28/16	<0.37	<0.38	**0.47**	<0.35	<0.20	0.47
	07/12/17	<0.37	<0.38	**0.61**	<0.35	<0.20	0.61
D-18	07/30/18	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/17/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/22/20	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/21/21	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/19/22	**0.93**	<0.38	**0.71**	<0.35	<0.20	1.64
	02/01/23	**1.1**	<0.38	**0.63**	<0.35	<0.20	1.73
	05/18/23	**1.1**	<0.38	**0.63**	<0.35	<0.20	1.73
	07/20/23	<0.37	<0.38	<0.16	<0.35	<0.20	0
D-18	11/01/23	<0.37	<0.38	<0.16	<0.35	<0.20	0
MW-2004	10/29/91	**6.4**	**4.8**	**37**	<0.5	<0.3	48.2
	12/13/91	**11**	**2.6**	**61**	<0.5	<0.3	74.6
	11/11/93	**2.5**	**14**	**5.6**	<0.5	<0.3	22.1
	12/13/94	**0.70**	**0.20**	**1.8**	NA	**0.3**	3
MW-2004	06/21/95	**3.2**	**17.6**	**14.2**	**3.4**	<0.27	38.4

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
MW-2004	08/13/96	**0.96**	**7.2**	**5.2**	<0.5	<0.5	13.36
	07/23/97	<0.63	**1.9**	**1.7**	<0.15	<0.46	3.6
	07/27/98	<0.25	<0.25	**0.94**	<0.15	<0.25	0.94
	09/07/99	<0.63	<0.28	<0.49	NA	NA	0
MW-2004	04/26/00	<0.63	<0.28	<0.49	NA	NA	0
	09/27/01	<0.25	<0.25	<0.25	<0.25	NA	0
	11/18/02	<0.25	<0.25	<0.25	<0.25	NA	0
	06/20/03	<0.50	<0.50	<0.25	<0.25	NA	0
	09/20/04	<0.50	<0.50	<0.20	NA	<0.20	0
	12/13/05	<0.50	<0.50	**0.50**	<0.25	<0.20	0.5
MW-2004	07/29/06	<0.50	<0.50	**0.37**	NA	NA	0.37
	07/31/07	<0.50	<0.50	<0.20	<0.25	<0.20	0
	08/19/08	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/28/09	<0.50	<0.50	<0.20	<0.25	<0.20	0
MW-2004	07/13/10	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/20/11	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/10/12	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/24/13	<0.17	<0.20	<0.19	<0.28	<0.10	0
MW-2004	07/29/14	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/14/15	<0.17	<0.20	**0.65**	<0.28	<0.10	0.65
	07/28/16	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/12/17	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/30/18	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/17/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/22/20	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/21/21	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/19/22	<0.37	<0.38	<0.16	<0.35	<0.20	0
MW-2004	07/20/23	<0.37	<0.38	<0.16	<0.35	<0.20	0
MW-2005	10/28/91	**30**	**2.7**	**20**	<0.5	<0.3	52.7
	12/13/91	**32**	**3.0**	**23**	<0.5	<0.3	58
MW-2005	11/11/93	**47**	**3.1**	**31**	<0.5	<0.3	81.1
	12/13/94	**0.40**	<0.5	<0.5	NA	<0.5	0.4
	08/16/94	<1	<1	<1	NA	<5	0
MW-2005	06/21/95	**0.70**	<0.13	**0.70**	<0.19	<0.27	1.4

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
MW-2005	11/07/95	**1.9**	<0.5	**2.7**	NA	<0.5	4.6
	01/25/96	**10.9**	<0.5	**5.2**	NA	<0.5	16.1
	05/13/96	<0.5	<0.5	<0.5	NA	<0.5	0
	08/13/96	**10.2**	<0.5	**2.1**	<0.5	<0.5	12.3
	10/08/96	**13**	<0.5	<0.5	<0.5	<0.5	13
	01/20/97	**24**	<0.5	**10.1**	NA	<0.5	34.1
MW-2005	04/01/97	**47**	0.76	**8.8**	NA	<0.46	56.56
	07/23/97	<0.63	15	**1.6**	<0.15	<0.46	16.6
	11/18/97	**2.7**	<0.25	**0.33**	NA	<0.25	3.03
	03/23/98	**3.0**	<0.28	**0.51**	NA	<0.46	3.51
	07/21/98	**19**	<0.25	**1.3**	<0.15	<0.25	20.3
MW-2005	09/25/98	**14**	<0.28	**1.1**	<0.28	<0.46	15.1
	12/05/98	**6.2**	<0.28	**5.2**	NA	<0.46	11.4
	03/12/99	**7.8**	<0.28	**8.9**	NA	<0.46	16.7
	09/07/99	**7.8**	<0.28	**1.0**	NA	NA	8.8
	04/25/00	**1.2**	<0.28	<0.49	NA	<0.46	1.2
MW-2005	09/25/00	**1.7**	<0.28	<0.49	NA	NA	1.7
	04/19/01	**5.7**	<0.25	**0.60**	NA	<0.25	6.3
	09/27/01	**7.5**	<0.25	**0.62**	<0.25	NA	8.12
MW-2005	04/17/02	**9.8**	<0.25	**0.89**	<0.25	NA	10.69
	06/20/03	**6.0**	<0.50	**0.87**	<0.25	NA	6.87
MW-2005	09/20/04	**17**	<0.50	**1.3**	NA	<0.20	18.3
MW-2005R	07/30/07	**2.8**	<0.50	<0.20	<0.25	<0.20	2.8
	08/18/08	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/27/09	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/13/10	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/20/11	<0.50	<0.50	<0.20	<0.25	<0.20	0
	07/10/12	<0.17	<0.20	<0.19	<0.28	<0.10	0
MW-2005R	07/24/13	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/29/14	**2.9**	<0.20	<0.19	<0.28	<0.10	2.9
	07/14/15	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/28/16	**2.4**	<0.38	<0.16	<0.35	<0.20	2.4
MW-2005R	07/12/17	<0.37	<0.38	<0.16	<0.35	<0.20	0

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
MW-2005R	07/30/18	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/17/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/22/20	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/21/21	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/19/22	<0.37	<0.38	<0.16	<0.35	<0.20	0
MW-2005R	07/20/23	<0.37	<0.38	<0.16	<0.35	<0.20	0
MW-2011	07/30/07	<0.50	**2.9**	**30**	<0.25	<0.20	32.9
	08/18/08	<0.50	**2.0**	**12**	<0.25	<0.20	14
MW-2011	07/27/09	<0.50	**1.5**	**14**	<0.25	<0.20	15.5
	07/13/10	<0.50	**2.8**	**13**	<0.25	<0.20	15.8
MW-2011	07/20/11	<0.50	**2.7**	**20**	<0.25	<0.20	22.7
	07/10/12	<0.17	**3.4**	**39**	<0.28	<0.10	42.4
	07/24/13	<0.17	**2.3**	**9.0**	<0.28	<0.10	11.3
MW-2011	07/29/14	<0.17	**4.1**	**35**	<0.28	<0.10	39.1
	07/14/15	<0.17	<0.20	**7.2**	<0.28	<0.10	7.2
	07/28/16	<0.37	**3.3**	**29**	<0.35	<0.20	32.3
	07/12/17	<0.37	**2.1**	**16**	<0.35	<0.20	18.1
MW-2011	07/30/18	<0.37	**1.2**	**7.6**	<0.35	<0.20	8.8
	07/17/19	<0.37	**2.2**	**13**	<0.35	<0.20	15.2
	07/22/20	<0.37	**2.0**	**13**	<0.35	<0.20	15
	07/21/21	<0.37	**2.0**	**14**	<0.35	<0.20	16
	07/19/22	<0.37	<0.38	**0.69**	<0.35	<0.20	0.69
MW-2011	07/20/23	<0.37	**0.71**	**3.1**	<0.35	<0.20	3.81
D-15	11/05/91	**26**	**45**	**420**	<0.5	<0.3	491
D-15	12/12/91	**24**	31	**390**	<0.5	<0.3	445
	11/11/93	**11**	12	**350**	<0.5	<0.3	373
	08/16/94	**15**	**15**	**220**	NA	<5	250
D-15	12/13/94	**7.8**	**3.1**	**105**	NA	<5	115.9
	03/13/95	**10.6**	**4.0**	**126**	NA	ND	140.6
	06/21/95	**13**	**8.6**	**119**	<0.19	<0.27	140.6
	11/06/95	**13.4**	**4.4**	**113**	NA	<0.5	130.8
D-15	01/25/96	**11.5**	**2.3**	**92.8**	NA	<0.5	106.6
D-15	05/13/96	**6.7**	<0.5	**54**	NA	<0.5	60.7

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
D-15	08/15/96	**8.0**	**1.7**	**46**	<0.5	<0.5	55.7
	10/08/96	**6.4**	**1.4**	**70.4**	<0.5	<0.5	78.2
	01/20/97	**10.9**	<0.5	**61**	NA	<0.5	71.9
D-15	03/31/97	**10**	**0.83**	**53**	NA	<0.46	63.83
	07/23/97	**10**	<0.28	**68**	<0.15	<0.46	78
	11/17/97	**15**	**0.97**	**83**	NA	<0.48	98.97
D-15	03/23/98	**16**	**0.48**	**78**	NA	<0.46	94.48
	07/27/98	**Not Sampled.**					
	09/26/98	**29**	**0.56**	**170**	<0.28	<0.46	199.56
	12/08/98	**74**	**0.77**	**1000**	NA	<0.46	1074.77
D-15	03/11/99	**19**	<0.56	**84**	NA	<0.92	103
	09/07/99	**22**	<0.56	**120**	NA	NA	142
	04/25/00	**8.7**	**0.61**	**33**	NA	<0.46	42.31
	09/28/00	**19**	**0.77**	**85**	NA	NA	104.77
D-15	04/19/01	**50**	<2.5	**470**	NA	<2.5	520
	09/27/01	**54**	<2.5	**370**	<2.5	NA	424
D-15	04/15/02	**17**	**0.47**	**62**	<2.5	NA	79.47
	11/19/02	**16**	**0.48**	**61**	<0.25	NA	77.48
	06/20/03	**11**	<0.50	**39**	<0.25	NA	50
	10/20/03	**7.5**	<0.50	**29**	<0.25	NA	36.5
D-15	09/20/04	**18**	<0.50	**36**	NA	<0.20	54
	12/13/05	**6.8**	<0.50	**27**	<0.25	<0.20	33.8
	07/27/06	**6.8**	<0.50	**18**	NA	NA	24.8
D-15	07/31/07	**7.2**	<0.50	**16**	<0.25	<0.20	23.2
	08/18/08	**10**	<0.50	**21**	<0.25	<0.20	31
	07/27/09	**11**	<0.50	**21**	<0.25	<0.20	32
D-15	07/13/10	**47**	<0.50	**42**	<0.25	<0.20	89
	07/20/11	**7.9**	<0.50	**13**	<0.25	<0.20	20.9
	07/10/12	**6.2**	<0.20	**13**	<0.28	<0.10	19.2
	07/24/13	**8.9**	<0.20	**13**	<0.28	<0.10	21.9
	07/29/14	**4.2**	<0.20	**7.7**	<0.28	<0.10	11.9
D-15	07/14/15	**4.4**	<0.20	**8.5**	<0.28	<0.10	12.9
D-15	07/28/16	**10**	<0.38	**13**	<0.35	<0.20	23

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
D-15	07/12/17	**9.8**	<0.38	**12**	<0.35	<0.20	21.8
	07/31/18	**6.3**	<0.38	**7.0**	<0.35	<0.20	13.3
	07/17/19	**8.3**	<0.38	**8.4**	<0.35	<0.20	16.7
D-15	07/22/20	**13**	<0.38	**11**	<0.35	<0.20	24
	07/21/21	**4.0**	<0.38	**4.6**	<0.35	<0.20	8.6
	07/19/22	**3.0**	<0.38	**4.4**	<0.35	<0.20	7.4
D-15	07/20/23	**5.9**	<0.38	**6.0**	<0.35	<0.20	11.9
TW-1	10/29/91	<0.5	**1.3**	**18**	<0.5	<0.3	19.3
	12/13/91	**4.9**	**1.1**	**48**	<0.5	<0.3	54
	11/11/93	**4.0**	**9.1**	**20**	<0.5	<0.3	33.1
	08/16/94	**2.4**	<1	**14**	NA	<5	16.4
	12/13/94	**0.40**	**0.30**	**4.1**	NA	<0.5	4.8
	03/13/95	NA	**NA**	**NA**	NA	NA	0
	06/21/95	**1.1**	**1.8**	**4.9**	<0.19	<0.27	7.8
	11/07/95	**1.0**	<0.5	**8.7**	NA	<0.5	9.7
TW-1	01/25/96	**1.5**	**1.3**	**4.7**	NA	<0.5	7.5
	05/13/96	**1.1**	**0.60**	**2.9**	NA	<0.5	4.6
TW-1	08/13/96	**0.90**	**0.70**	**2.7**	<0.5	<0.5	4.3
	10/08/96	<0.5	<0.5	<0.5	<0.5	<0.5	0
	01/20/97	**2.1**	**3.0**	**10**	NA	<0.5	15.1
	03/31/97	**2.0**	**3.1**	**5.9**	NA	<0.46	11
TW-1	07/23/97	**0.88**	**0.74**	**2.5**	<1.1	<0.46	4.12
	11/17/97	**0.88**	**0.55**	**2.0**	NA	<0.48	3.43
	03/23/98	<0.63	<0.28	**1.7**	NA	<0.46	1.7
	07/28/98	<0.25	<0.25	**1.7**	<0.15	<0.25	1.7
TW-1	09/26/98	<0.63	<0.28	**1.7**	<0.28	<0.46	1.7
	12/08/98	<0.63	<0.28	**1.5**	NA	<0.46	1.5
	03/12/99	<0.63	<0.28	**1.0**	NA	<0.46	1
	09/07/99	<0.63	**0.57**	**2.4**	NA	NA	2.97
	09/26/00	**1.1**	**0.81**	**7.3**	NA	NA	9.21
TW-1	09/28/01	<0.25	<0.25	**1.2**	<0.25	NA	1.2
	12/13/05	<0.50	<0.50	**0.22**	<0.25	<0.20	0.22
TW-1	12/13/05	<0.50	<0.50	**0.22**	<0.25	<0.20	0.22

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
TW-1	07/29/06	<0.50	<0.50	**0.20**	NA	NA	0.2
	07/31/07	<0.50	<0.50	**1.2**	<0.25	<0.20	1.2
TW-1	08/19/08	**0.53**	<0.50	**0.62**	<0.25	<0.20	1.15
	07/28/09	<0.50	<0.50	**0.27**	<0.25	<0.20	0.27
TW-1	07/13/10	<0.50	<0.50	**0.38**	<0.25	<0.20	0.38
	07/20/11	<0.50	<0.50	**0.28**	<0.25	<0.20	0.28
	07/10/12	<0.17	<0.20	**0.31**	<0.28	<0.10	0.31
TW-1	07/24/13	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/29/14	<0.17	<0.20	<0.19	<0.28	<0.10	0
TW-1	07/14/15	<0.17	<0.20	<0.19	<0.28	<0.10	0
	07/28/16	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/12/17	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/30/18	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/17/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/22/20	<0.37	<0.38	<0.16	<0.35	<0.20	0
TW-1	07/21/21	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/19/22	<0.37	<0.38	<0.16	<0.35	<0.20	0
	02/01/23	<0.37	<0.38	<0.16	<0.35	<0.20	0
	05/18/23	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/20/23	<0.37	<0.38	<0.16	<0.35	<0.20	0
TW-1	11/01/23	<0.37	<0.38	<0.16	<0.35	<0.20	0
TW-3	10/30/91	**6.8**	**1.7**	**19**	<0.5	<0.3	27.5
	12/12/91	**8.3**	**1.3**	**22**	<0.5	<0.3	31.6
	11/11/93	**7.5**	**0.70**	**12**	<0.5	<0.3	20.2
	12/14/94	**5.3**	**11.6**	**5.5**	NA	<0.5	22.4
TW-3	06/21/95	**5.5**	**11.9**	**7.4**	<0.19	<0.27	24.8
TW-3	08/13/96	**2.3**	**9.7**	**8.1**	<0.5	<0.5	20.1
TW-3	07/23/97	**1.7**	**3.6**	**4.3**	<0.15	<0.46	9.6
	07/28/98	<0.25	**1.0**	**1.6**	<0.15	<0.25	2.6
	09/07/99	**1.9**	**1.1**	**3.2**	NA	NA	6.2
TW-3	04/25/00	**1.2**	**0.74**	**1.9**	NA	<0.46	3.84
	09/25/00	**1.5**	**0.72**	**3.0**	NA	NA	5.22
	04/19/01	**2.7**	**0.68**	**6.0**	NA	<0.25	9.38
TW-3	09/27/01	**7.5**	**1.3**	**21.0**	<0.25	NA	29.8

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
TW-3	04/16/02	**2.1**	**0.40**	**3.2**	<0.25	NA	5.7
	11/19/02	**4.0**	**0.53**	**7.8**	<0.25	NA	12.33
	06/24/03	**2.5**	<0.50	**2.6**	<0.25	NA	5.1
TW-3	10/20/03	**2.8**	<0.50	**2.0**	<0.25	NA	4.8
	09/20/04	**2.8**	<0.50	**2.8**	NA	<0.20	5.6
	12/13/05	**1.7**	<0.50	**1.6**	<0.25	<0.20	3.3
TW-3	07/27/06	**1.4**	<0.50	**1.2**	NA	NA	2.6
	07/31/07	**0.97**	<0.50	**0.94**	<0.25	<0.20	1.91
	08/20/08	**1.5**	<0.50	**0.79**	<0.25	<0.20	2.29
TW-3	07/27/09	**1.8**	<0.50	**0.86**	<0.25	<0.20	2.66
	07/13/10	**3.1**	<0.50	**4.9**	<0.25	<0.20	8
	07/20/11	**1.5**	<0.50	**0.63**	<0.25	<0.20	2.13
TW-3	07/10/12	**2.7**	<0.20	**1.1**	<0.28	<0.10	3.8
	07/24/13	**1.3**	<0.20	**0.61**	<0.28	<0.10	1.91
	07/29/14	**0.63**	<0.20	**0.38**	<0.28	<0.10	1.01
TW-3	07/14/15	<0.17	<0.20	**0.64**	<0.28	<0.10	0.64
	07/28/16	**0.54**	<0.38	**0.29**	<0.35	<0.20	0.83
	07/12/17	**0.59**	<0.38	<0.16	<0.35	<0.20	0.59
TW-3	07/30/18	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/17/19	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/22/20	**0.91**	<0.38	<0.16	<0.35	<0.20	0.91
	07/21/21	**0.85**	<0.38	**0.26**	<0.35	<0.20	1.11
TW-3	07/19/22	**0.43**	<0.38	**0.23**	<0.35	<0.20	0.66
	02/01/23	**0.46**	<0.38	**0.41**	<0.35	<0.20	0.87
	05/18/23	**0.38**	<0.38	<0.16	<0.35	<0.20	0.38
	07/20/23	<0.37	<0.38	<0.16	<0.35	<0.20	0
TW-3	11/01/23	<0.37	<0.38	<0.16	<0.35	<0.20	0
EX-1	11/07/91	**8.2**	**3.7**	**20**	<0.5	<0.3	31.9
Original	12/18/91	**6.3**	**3.9**	**14.6**	<0.5	<0.3	24.8
Extraction	11/11/93	**6.8**	**2.3**	**13**	<0.5	<0.3	22.1
Well	12/13/94	**4.7**	**2.7**	**11**	NA	<0.5	18.4
EX-1	06/21/95	**6.2**	<0.13	**14.7**	<0.19	<0.27	20.9
EX-1	08/13/96	**2.8**	**1.6**	**6.7**	<0.5	<0.5	11.1

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
EX-1	07/23/97	**3.1**	**1.5**	**5.4**	<0.15	<0.46	10
	07/28/98	<0.25	**0.47**	**5.2**	<0.15	<0.25	5.67
	09/07/99	**3.4**	**0.32**	**8.7**	NA	NA	12.42
EX-1	09/26/00	**3.0**	**0.39**	**11**	NA	NA	14.39
	10/02/01	**7.1**	<0.25	**27**	<0.25	NA	34.1
	09/21/04	**3.8**	<0.50	**4.2**	NA	<0.20	8
	12/14/05	**1.4**	<0.50	**1.4**	<0.25	<0.20	2.8
EX-1	07/31/06	**1.4**	<0.50	**1.5**	NA	NA	2.9
	07/31/07	**1.3**	<0.50	**0.84**	<0.25	<0.20	2.14
	08/20/08	**1.1**	<0.50	**0.75**	<0.25	<0.20	1.85
	07/14/10	**1.7**	<0.50	**3.1**	<0.25	<0.20	4.8
	07/21/11	**1.1**	<0.50	**1.0**	<0.25	<0.20	2.1
	07/11/12	**1.3**	<0.20	**1.2**	<0.28	<0.10	2.5
EX-1	07/24/13	**0.89**	<0.20	**0.47**	<0.28	<0.10	1.36
	07/30/14	**0.71**	<0.20	**0.42**	<0.28	<0.10	1.13
	07/15/15	<0.17	<0.20	<0.19	<0.28	<0.10	0
EX-1	07/28/16	**0.72**	<0.38	<0.16	<0.35	<0.20	0.72
	07/13/17	<0.37	<0.38	<0.16	<0.35	<0.20	0
	07/31/18	**0.60**	<0.38	**0.30**	<0.35	<0.20	0.9
	07/18/19	**0.53**	<0.38	**0.30**	<0.35	<0.20	0.83
	07/23/20	<0.37	<0.38	<0.16	<0.35	<0.20	0
EX-1	07/22/21	<0.37	<0.38	**0.31**	<0.35	<0.20	0.31
EX-7	11/07/91	**37**	**5.0**	**350**	<0.5	<0.3	392
Original	12/18/91	**44**	**5.1**	**241**	<0.5	<0.3	290.1
Extraction	11/11/93	**27**	**8.1**	**160**	<0.5	<0.3	195.1
Well	12/13/94	**19.6**	**0.80**	**62.8**	NA	<0.5	83.2
EX-7	06/21/95	**60.6**	<0.13	**105**	<0.19	<0.27	165.6
	08/13/96	**48.3**	<0.5	**243**	<0.5	<0.5	291.3
	07/23/97	**24**	**0.49**	**130**	<0.15	<0.5	154.49
	07/28/98	<50	<50	**1000**	<50	<50	1000
EX-7	09/07/99	**130**	<2.8	**490**	NA	NA	620
	04/18/00	**77**	**0.87**	**150**	NA	<0.46	227.87
EX-7	09/26/00	**56**	<0.56	**140**	NA	NA	196

Table 1. Summary of Target Compound List VOCs Groundwater Monitoring Analytical Results for Pentair Delavan Facility Monitoring Points

SAMPLE ID	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140 ES		5.0	200	5	5	0.2	
NR 140 PAL		0.5	40	0.5	0.5	0.02	
EX-7	04/19/01	**56**	<1.0	**110**	NA	<1.0	166
	04/16/02	**19**	<0.25	**35**	NA	<1.0	54
	11/19/02	**26**	**0.40**	**58**	<0.25	NA	84.4
EX-7	06/24/03	**20**	<0.50	**26**	<0.25	NA	46
	10/20/03	<0.50	<0.50	**30**	<0.25	NA	30
	09/21/04	**25**	<0.50	**36**	NA	<0.20	61
	12/14/05	**14**	<0.50	**29**	<0.25	<0.20	43
EX-7	07/31/06	**14**	<0.50	**22**	NA	NA	36
	07/31/07	**9.0**	<0.50	**10**	<0.25	<0.20	19
	08/20/08	**6.2**	<0.50	**7.5**	<0.25	<0.20	13.7
	07/29/09	**7.5**	<0.50	**9.3**	<0.25	<0.20	16.8
	07/15/10	**98**	<0.50	**130**	<0.25	<0.20	228
	07/21/11	**7.8**	<0.50	**8.6**	<0.25	<0.20	16.4
	07/11/12	**7.0**	<0.20	<0.19	<0.28	<0.10	7
	07/24/13	**5.6**	<0.20	**3.9**	<0.28	<0.10	9.5
	07/30/14	**6.4**	<0.20	**4.6**	<0.28	<0.10	11
EX-7	07/15/15	**8.8**	<0.20	**6.4**	<0.28	<0.10	15.2
EX-7/	07/28/16	**6.5**	<0.38	**3.4**	<0.35	<0.20	9.9
EX-7R	10/24/17	**7.3**	<0.38	**3.8**	<0.35	<0.20	11.1
	07/31/18	**4.7**	<0.38	**2.4**	<0.35	<0.20	7.1
	07/18/19	**5.4**	<0.38	**2.4**	<0.35	<0.20	7.8
	07/23/20	**5.0**	<0.38	**2.6**	<0.35	<0.20	7.6
EX-7R	07/22/21	**3.2**	<0.38	**1.8**	<0.35	<0.20	5
	07/20/22	**4.8**	<0.38	**2.1**	<0.35	<0.20	6.9
EX-7R	07/21/23	**3.5**	<0.38	<0.16	<0.35	<0.20	3.5

Notes:
VOCs = Volatile Organic Compounds
ug/L = micrograms parts per liter, which is equivalent to parts per billion (ppb).
ES = Enforcement Standard, PAL = Preventative Action Limit
Orange Highlight = above ES, Yellow Highlight = above PAL
PCE = Tetrachloroethene
TCA = Trichloroethane TCE = Trichloroethene

Table 2. Summary of VOCs Groundwater Monitoring Analytical Results for Plant #1 Monitor Well TW-4

WELL	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	Acetone	Benzene	Chloroethane	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	CIS-1,2-DCE	Trans-1,2-DCE	Methylene Chloride	Ethylbenzene	Xylenes, Total	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140	ES	5.0	200	5	5	0.2	9000	5.0	400	6	850	5	7	70	100	5	700	2000	
NR 140	PAL	0.5	40	0.5	0.5	0.02	1800	0.5	80	0.6	85	0.5	0.7	7	20	0.5	140	400	
TW-4	11/05/91	**0.50**	**10000**	**1100**	**5.6**	<0.3	<1.0	<0.5	<0.5	**4.0**	**61**	<0.5	**440.0**	**50**	<0.5	**2.4**	<0.5	<1.0	11663.5
	12/12/91	**0.60**	**11000**	**1200**	**4.5**	<0.3	<1.0	<0.5	<0.5	**3.7**	**93**	**3**	**680.0**	**52**	<0.5	<1	<0.5	<1.0	13036.8
	11/11/93	**0.80**	**6200**	**1500**	**3.2**	<0.3	<1.0	<0.5	<0.5	<0.5	**26**	<0.5	**490**	**25**	<0.5	<1.0	<0.5	<1.0	8245
	08/17/94	<1	**3900**	**600**	NA	<5	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	4500
	12/14/94	<50	**4040**	**630**	NA	<50	NA	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	4670
	03/13/95	ND	**3120**	**600**	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	3720
	06/21/95	NA	**4220**	**990**	**17.6**	**5.4**	<1.0	NA	<0.21	**3.8**	**113**	<0.5	**415**	**93.6**	NA	NA	NA	NA	5858.4
	11/08/95	**1.2**	**3340**	**920**	NA	<0.5	NA	NA	<0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	4261.2
	01/25/96	**1.1**	**3000**	**891**	NA	<0.5	NA	NA	<0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	3892.1
	05/14/96	**0.90**	**1820**	**969**	NA	<0.5	NA	NA	<0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	2789.9
	08/14/96	<0.5	**2150**	**179**	**1.8**	<0.5	<1.0	<0.5	<0.7	<0.5	**12**	<1.6	**36.7**	NA	<0.5	NA	<0.5	NA	2379.5
	10/08/96	**0.90**	**1850**	**541**	**6.3**	<0.5	<1.0	<0.5	<0.7	**1.0**	**36.3**	<1.6	**196**	NA	<0.5	NA	<0.5	NA	2631.5
	01/21/97	<0.5	**2650**	**913**	NA	<0.5	NA	NA	<0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	3563
	04/01/97	**0.83**	**1400**	**600**	NA	<0.46	NA	NA	<1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	2000.83
	07/23/97	**0.67**	**950**	**450**	**4.4**	<0.46	**3.4**	**0.3**	<1.2	**0.70**	**24**	<0.20	**66**	**36**	0.5	<0.87	<0.38	<1.1	1535.97
	11/18/97	**0.83**	**760**	**490**	NA	<0.25	NA	NA	<0.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	1250.83
	03/23/98	**0.74**	**780**	**530**	NA	<0.46	NA	NA	<1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	1310.74
	07/27/98	<2.5	**410**	**230**	<2.5	<2.5	<20	<1.0	<2.5	<2.5	**13**	<2.5	**16**	**21**	<2.5	**15**	<2.5	<5.0	705
	09/28/98	<0.63	**860**	**460**	**2.8**	<0.46	NA	NA	<1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	1322.8
	12/05/98	<6.3	**830**	**400**	NA	<4.6	NA	NA	<12	NA	NA	NA	NA	NA	NA	NA	NA	NA	1230
	03/11/99	<6.3	**480**	**270**	NA	<4.6	NA	NA	<12	NA	NA	NA	NA	NA	NA	NA	NA	NA	750
	09/02/99	<3.2	**180**	**110**	**2.4**	<2.3	NA	<1.6	<6.0	<0.90	<1.2	<1.0	**19**	**2.0**	<2.0	<4.4	<1.9	<5.5	313.4
TW-4	04/25/00	<3.2	**450**	**280**	NA	<2.3	NA	NA	<6.0	NA	NA	NA	NA	NA	NA	NA	NA	<5.5	730
	09/26/00	<6.3	**340**	**230**	<1.5	<4.6	NA	<3.1	<6.0	<1.8	**5.2**	<2.0	**15**	**10**	<3.9	<8.7	<3.8	<5.5	600.2

Table 2. Summary of VOCs Groundwater Monitoring Analytical Results for Plant #1 Monitor Well TW-4

WELL	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	Acetone	Benzene	Chloroethane	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	CIS-1,2-DCE	Trans-1,2-DCE	Methylene Chloride	Ethylbenzene	Xylenes, Total	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140	ES	5.0	200	5	5	0.2	9000	5.0	400	6	850	5	7	70	100	5	700	2000	
NR 140	PAL	0.5	40	0.5	0.5	0.02	1800	0.5	80	0.6	85	0.5	0.7	7	20	0.5	140	400	
TW-4	04/23/01	**0.60**	**290**	**240**	NA	<0.25	NA	NA	<0.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	530.6
	10/02/01	<2.0	**190**	**140**	<2.0	<2.0	NA	<0.80	<2.0	<2.0	**2.1**	<2.0	**6.8**	**3.0**	<2.0	**8.1**	<2.0	<2.0	350
	04/16/02	<0.25	**76**	**60**	**1.5**	<0.25	NA	<0.10	<0.25	<0.25	**1.4**	<0.25	**2.5**	**0.76**	<0.25	**0.47**	<0.25	<0.25	142.63
TW-4	06/24/03	<1.0	**120**	**89**	**1.4**	<1.0	NA	<0.50	<2.0	<0.50	**2.1**	<1.0	**4.7**	**3.7**	<1.0	<2.0	<1.0	<1.0	220.9
	09/21/04	<0.50	**64**	**39**	NA	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	103
	12/14/05	<0.50	**65**	**35**	**0.92**	<0.20	<2.0	<0.20	<1.0	<0.20	**0.76**	<0.50	**1.6**	**0.55**	<0.50	<1.0	<0.50	<0.50	103.83
	07/31/06	<0.50	**92**	**60**	**1.3**	<0.20	<2.0	<0.20	<1.0	<0.20	**1.3**	<0.50	**2.9**	**1.4**	<0.50	<1.0	<0.50	<0.50	158.9
	07/31/07	<0.50	**50**	<0.20	<0.25	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
	08/20/08	<0.50	**71**	**36**	**0.73**	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	107.73
	07/28/09	<0.50	**52**	**25**	**0.34**	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.34
	07/14/10	<0.50	**75**	**52**	**0.28**	<0.20	NA	<0.20	<1.0	<0.20	<0.50	<0.50	**2.1**	<0.50	<0.50	<1.0	<0.50	<0.50	129.38
TW-4	07/21/11	<0.50	**38**	**42**	**0.28**	<0.20	NA	<0.20	<1.0	<0.20	**0.52**	<0.50	**0.78**	<0.50	<0.50	<1.0	<0.50	<0.50	81.58
	07/10/12	<0.17	**48**	**53**	<0.28	<0.10	NA	<0.074	<0.34	<0.20	**1.8**	<0.28	**1.8**	<0.12	<0.25	<0.68	<0.50	<0.068	104.6
	07/24/13	<0.17	**26**	**23**	<0.28	<0.10	NA	<0.074	<0.34	<0.20	**0.54**	<0.28	**1.1**	<0.12	<0.25	<0.68	**0.13**	**0.20**	50.97
	07/29/14	<0.17	**29**	**20**	<0.28	<0.10	NA	<0.074	<0.34	<0.20	<0.19	<0.28	**0.9**	<0.12	<0.25	<0.68	<0.13	<0.068	49.9
	07/14/15	<0.17	**30**	**36**	<0.28	<0.10	NA	<0.074	<0.34	<0.20	**4.9**	<0.28	**1.4**	**1.7**	<0.25	**8.2 B**	<0.10	<0.068	82.2
	07/29/16	<0.37	**20**	**15**	<0.35	<0.20	NA	<0.15	<0.51	<0.37	<0.41	<0.39	<0.39	<0.41	<0.35	<1.6	<0.18	<0.22	35
	03/01/17	<0.37	**17**	**8.0**	<0.35	<0.20	NA	<0.15	<0.51	<0.37	<0.41	<0.39	<0.39	<0.41	<0.35	<1.6	<0.18	<0.22	25
	05/17/17	<0.37	**22**	**11**	<0.35	<0.20	NA	<0.15	<0.51	<0.37	**0.96**	<0.39	**0.90**	<0.41	<0.35	<1.6	<0.18	<0.22	34.86
	07/13/17	<0.37	**27**	**19**	<0.35	<0.20	NA	<0.15	<0.51	<0.37	**1.1**	<0.39	**1.0**	<0.41	<0.35	<1.6	<0.18	<0.22	48.1
	10/24/17	<0.37	**22**	**16**	<0.35	<0.20	NA	<0.15	<0.51	<0.37	<0.41	<0.39	**0.91**	<0.41	<0.35	<1.6	<0.18	<0.22	38.91
TW-4	02/28/18	<0.37	**20**	**11**	<0.35	<0.20	NA	<0.15	<0.51	<0.37	<0.41	<0.39	<0.39	<0.41	<0.35	<1.6	<0.18	<0.22	31
	05/10/18	<0.74	**27**	**16**	<0.33	<0.50	NA	<0.43	<2.5	<0.50	**0.58**	<0.50	**0.70**	<0.41	<0.37	<2.5	<0.33	<0.23	44.28
TW-4	07/30/18	<0.37	**26**	**18**	<0.35	<0.20	NA	<0.15	<0.51	<0.37	**4.7**	<0.39	**1.6**	<0.41	<0.35	<1.6	<0.18	<0.22	50.3

Table 2. Summary of VOCs Groundwater Monitoring Analytical Results for Plant #1 Monitor Well TW-4

WELL	DATE	PCE	1,1,1-TCA	TCE	1,1,2-TCA	Vinyl Chloride	Acetone	Benzene	Chloroethane	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	CIS-1,2-DCE	Trans-1,2-DCE	Methylene Chloride	Ethylbenzene	Xylenes, Total	**Total VOCs**
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NR 140	ES	5.0	200	5	5	0.2	9000	5.0	400	6	850	5	7	70	100	5	700	2000	
NR 140	PAL	0.5	40	0.5	0.5	0.02	1800	0.5	80	0.6	85	0.5	0.7	7	20	0.5	140	400	
TW-4	07/18/19	<0.37	**26**	**18**	<0.35	<0.20	NA	<0.15	<0.51	<0.37	**3.6**	<0.39	**1.1**	0.87	<0.35	<1.6	<0.18	<0.22	49.57
	07/23/20	<0.37	**20**	**21**	<0.35	<0.20	NA	<0.15	<0.51	<0.37	**1.1**	<0.39	<0.39	<0.41	<0.35	<1.6	<0.18	<0.22	42.1
TW-4	07/22/21	<0.37	**19**	**14**	<0.35	<0.20	NA	<0.15	<0.51	<0.37	**1.1**	<0.39	**0.64**	<0.41	<0.35	<1.6	<0.18	<0.22	34.74
	07/20/22	<0.37	**24**	**20**	<0.35	<0.20	NA	<0.15	**0.56**	<0.37	**6.7**	<0.39	**0.93**	**1.6**	<0.35	**11**	<0.18	<0.22	64.79
TW-4	07/21/03	<0.37	**15**	**17**	<0.35	<0.20	NA	<0.15	<0.51	<0.37	<0.41	<0.39	<0.39	<0.41	<0.35	<1.6	<0.18	<0.22	32

Notes: All values listed are in parts per billion (ug/L).
VOCs = Volatile Organic Compounds
ES = Enforcement Standard, PAL = Preventative Action Limit
Orange Highlight = above ES, Yellow Highlight = above PAL
ND = not detected, NA = not analyzed or no data available

PCE = Tetrachloroethene
TCA = Trichloroethane
TCE = Trichloroethene

DCA = Dichloroethane
DCE = Dichloroethene

B = Detected in blank sample at a similar concentration.

Table 3. Pentair Delavan Facility Extraction Wells Flow Data

Meter/ Well ID	Date	Meter Reading (gallons)	Monthly Flow Data		
			(gal/month)	(gpd)	(gpm)
EX-1	January-23	66,530	0.0	0.00	0.00
EX-1	February-23	66,530	0.0	0.00	0.00
EX-1	March-23	66,530	0.0	0.00	0.00
EX-1	April-23	66,530	0.0	0.00	0.00
EX-1	May-23	66,530	0.0	0.00	0.00
EX-1	June-23	66,530	0.0	0.00	0.00
EX-1	July-23	66,530	0.0	0.00	0.00
EX-1	August-23	66,530	0.0	0.00	0.00
EX-1	September-23	66,530	0.0	0.00	0.00
EX-1	October-23	66,530	0.0	0.00	0.00
EX-1	November-23	2,791,020	266,533.0	8,884.43	6.17
EX-1	December-23	8,563,470	577,245.0	18,620.81	12.93
EX-2R EX-3R	January-23	16,354,929	842,214.0	27,168.19	18.87
EX-2R EX-3R	February-23	16,355,151	222.0	7.93	0.01
EX-2R EX-3R	March-23	17,399,060	1,043,909.0	33,674.48	23.39
EX-2R EX-3R	April-23	18,799,582	1,400,522.0	46,684.07	32.42
EX-2R EX-3R	May-23	20,281,086	1,481,504.0	47,790.45	33.19
EX-2R EX-3R	June-23	21,617,586	1,336,500.0	44,550.00	30.94
EX-2R EX-3R	July-23	24,684,647	3,067,061.0	98,937.45	68.71
EX-2R EX-3R	August-23	27,756,369	3,071,722.0	99,087.81	68.81
EX-2R EX-3R	September-23	30,732,538	2,976,169.0	99,205.63	68.89
EX-2R EX-3R	October-23	33,817,187	3,084,649.0	99,504.81	69.10
EX-2R EX-3R	November-23	36,775,002	2,957,815.0	98,593.83	68.47
EX-2R EX-3R	December-23	39,780,093	3,005,091.0	96,938.42	67.32
EX-4R	January-23	95,135,025	1,739,817.0	56,123.13	38.97
EX-4R	February-23	96,708,433	1,573,408.0	56,193.14	39.02
EX-4R	March-23	98,457,093	1,748,660.0	56,408.39	39.17
EX-4R	April-23	163,823	1,706,730.0	56,891.00	39.51
EX-4R	May-23	1,931,772	1,767,949.0	57,030.61	39.60
EX-4R	June-23	3,633,453	1,701,681.0	56,722.70	39.39
EX-4R	July-23	5,355,089	1,721,636.0	55,536.65	38.57
EX-4R	August-23	7,075,387	1,720,298.0	55,493.48	38.54
EX-4R	September-23	8,737,459	1,662,072.0	55,402.40	38.47
EX-4R	October-23	10,473,415	1,735,956.0	55,998.58	38.89
EX-4R	November-23	12,162,233	1,688,818.0	56,293.93	39.09
EX-4R	December-23	13,900,406	1,738,173.0	56,070.10	38.94
EX-5R	January-23	99,398,100	1,724,647.0	55,633.77	38.63
EX-5R	February-23	953,576	1,555,476.0	55,552.71	38.58
EX-5R	March-23	2,674,531	1,720,955.0	55,514.68	38.55
EX-5R	April-23	4,347,567	1,673,036.0	55,767.87	38.73
EX-5R	May-23	6,077,213	1,729,646.0	55,795.03	38.75
EX-5R	June-23	7,743,261	1,666,048.0	55,534.93	38.57
EX-5R	July-23	9,438,916	1,695,655.0	54,698.55	37.99
EX-5R	August-23	11,132,872	1,693,956.0	54,643.74	37.95

Table 3. Pentair Delavan Facility Extraction Wells Flow Data

Meter/ Well ID	Date	Meter Reading (gallons)	Monthly Flow Data		
			(gal/month)	(gpd)	(gpm)
EX-5R	September-23	12,770,659	1,637,787.0	54,592.90	37.91
EX-5R	October-23	14,487,571	1,716,912.0	55,384.26	38.46
EX-5R	November-23	16,158,089	1,670,518.0	55,683.93	38.67
EX-5R	December-23	17,880,092	1,722,003.0	55,548.48	38.58
EX-6	January-23	61,836	58,740.0	1,894.84	1.32
EX-6	February-23	83,192	21,356.0	762.71	0.53
EX-6	March-23	124,172	40,980.0	1,321.94	0.92
EX-6	April-23	983,066	858,894.0	28,629.80	19.88
EX-6	May-23	3,040,714	2,057,648.0	66,375.74	46.09
EX-6	June-23	4,994,027	1,953,313.0	65,110.43	45.22
EX-6	July-23	7,002,212	2,008,185.0	64,780.16	44.99
EX-6	August-23	9,014,978	2,012,766.0	64,927.94	45.09
EX-6	September-23	10,959,254	1,944,276.0	64,809.20	45.01
EX-6	October-23	12,953,152	1,993,898.0	64,319.29	44.67
EX-6	November-23	14,868,106	1,914,954.0	63,831.80	44.33
EX-6	December-23	16,820,957	1,952,851.0	62,995.19	43.75
EX-7R	January-23		0.0	0.00	0.00
EX-7R	February-23	80,779,511	228,478.0	8,159.93	5.67
EX-7R	March-23	82,537,460	1,757,949.0	56,708.03	39.38
EX-7R	April-23	83,102,112	564,652.0	18,821.73	13.07
EX-7R	May-23	84,254,193	1,152,081.0	37,163.90	25.81
EX-7R	June-23	85,999,032	1,744,839.0	58,161.30	40.39
EX-7R	July-23	87,779,576	1,780,544.0	57,436.90	39.89
EX-7R	August-23	89,548,270	1,768,694.0	57,054.65	39.62
EX-7R	September-23	91,252,243	1,703,973.0	56,799.10	39.44
EX-7R	October-23	93,008,531	1,756,288.0	35,035.20	24.33
EX-7R	November-23	94,684,954	1,676,423.0	35,035.20	24.33
EX-7R	December-23	95,295,657	610,703.0	19,700.10	13.68

Notes:
gal/month: Gallons pumped for the month.
gpd: Average gallons per day.
gpm: Average gallons per minute.

EX-1 shut down until 11/16/2023 to evaluate effect stoppage in pumping from EX-1 has on contaminant concentrations and plume extent.

Pumping from EX-7R stopped on 12/14/2022 due to pump failure.
Pump repaired and re-started by Pentair personnel on 2/9/2023.

New pumps installed in EX-3R and EX-6 on 4/18/2023.
New pump installed in EX-7R on 5/12/2023.
New pump installed in EX-2R on 6/21/2023.

Table 4. Delavan Facility 2023 Groundwater Monitoring Program Well List
Pentair Delavan, Wisconsin

Monitoring Point	Sampling Frequency	Parameters
Plant 1 Monitoring Points		
D-25R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-1026	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-1027	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
TW-4	Annual	VOCs
EX-2R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
EX-3R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
Plant 2 Monitoring Points		
D-15	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
D-18	Quarterly	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-2004	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-2005R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-2011	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
TW-1	Quarterly	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
TW-3	Quarterly	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
EX-1	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
EX-7R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
Site Monitoring Point		
Storm Sewer Grate (SS-1)	Quarterly	PCE, 1,1,1-TCA, TCE, VC

PCE = Tetrachloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane
TCE = Trichloroethene
VC = Vinyl Chloride
VOCs = Volatile Organic Compounds

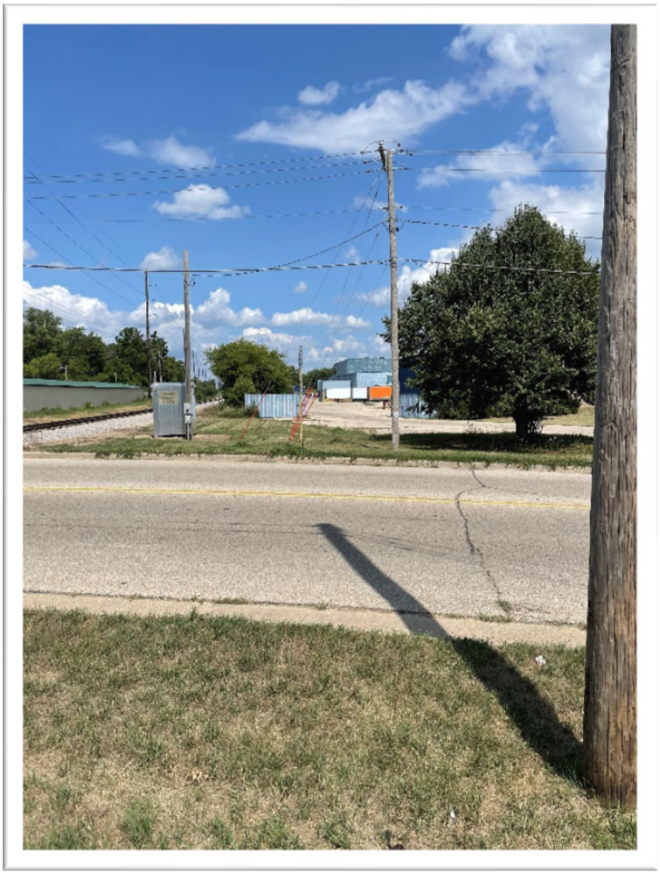
Table 5. Delavan Facility 2024 Groundwater Monitoring Program Well List
Pentair, Delavan, Wisconsin

Monitoring Point	Sampling Frequency	Parameters
Plant 1 Monitoring Points		
D-25R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-1026	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-1027	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
TW-4	Annual	VOCs
EX-2R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
EX-3R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
Plant 2 Monitoring Points		
D-15	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
D-18	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-2004	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-2005R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
MW-2011	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
TW-1	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
TW-3	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
EX-1	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
EX-7R	Annual	PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC
Site Monitoring Point		
Storm Sewer Grate (SS-1)	Quarterly	PCE, 1,1,1-TCA, TCE, VC

PCE = Tetrachloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane
TCE = Trichloroethene
VC = Vinyl Chloride
VOCs = Volatile Organic Compounds

APPENDIX A
SITE INSPECTON PHOTOGRAPHS

1. View looking northeast towards north side of property.



2. View looking northwest towards north side of property.

3.View looking west towards south side of property

4.View looking north towards southeast half of east side of property.

5. View looking north towards east side of property.

6. View looking south towards west side of property.

7. View looking north at west side of property.

8. View looking south inside Plant 1 where low-level VOC's impacts occur in the sub-surface soil.

9. View looking south towards monitoring well D-23 where the protector top steel casing is dented and rusting.

10. View looking down at the damaged hinge on the protector top of monitoring well TW-1.

APPENDIX B
GROUNDWATER MONITORING ANALYTICAL RESULTS AND FIELD DATA SHEETS

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	Hanna
PROJECT NO.	117-7469013.100	Conductivity	Hanna
LOCATION	Delavan, WI	ORP	NA
PERSONNEL	Connor Lavzon, Kenny R.	DO	NA

SAMPLE POINT	TW-1	TW-3	D-18		
WATER TYPE	Groundwater	Groundwater	Groundwater		
DATE (month/day/year)	2/1/23	2/1/23	2/1/23		
CLOCK TIME (Military)	12:15	10:50	11:30		
DEPTH TO WATER (ft)*	28.80	34.15	32.03		
MEASURED WELL DEPTH (ft)*	45.50	50.73	39.90		
CASING VOLUME (gallons)	3	3	1.3		
PURGE VOLUME (gallons)	9	9	4		
DEPTH SAMPLE TAKEN (ft)*	40	45	35		
SAMPLING DEVICE	Hanging Bailer	Hanging Bailer	Hanging Bailer		
FIELD TEMPERATURE (°C)	7.82	12.6	12.7		
pH	6.8	7.76	7.60		
ELEC. COND. (uS/cm) at 25° C	963	1424	1498		
ORP (mV)	NA	NA	NA		
DISSOLVED OXYGEN (ppm)	NA	NA	NA		
DISSOLVED OXYGEN (% Sat.)	NA	NA	NA		
COLOR	lt. brown	V. Lt Brn	v lt. brn		
ODOR	none	None	none		
CLARITY	Cloudy	cloudy	clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
PCE, TCE, TCA, Vinyl Chloride (EPA Method 8260B)	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No		
EX-7R:	End point good	Error on meter	No flow		
EX-6:	strong flow from spigot	~60 gpm			

Comments:

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB					
SAMPLER'S NAME					

*Measured from top of well casing.

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	Hanna
PROJECT NO.	117-7469013.100	Conductivity	Hanna
LOCATION	Delavan, WI	ORP	NA
PERSONNEL	Kenny Rodriguez	DO	NA

SAMPLE POINT	TW-1	TW-3	D-18		
WATER TYPE	Groundwater	Groundwater	Groundwater		
DATE (month/day/year)	05/18/2023	05/18/2023	05/18/2023		
CLOCK TIME (Military)	12:55	11:30	12:15		
DEPTH TO WATER (ft)*	28.47	33.86	31.82		
MEASURED WELL DEPTH (ft)*	45.50	50.73	39.90		
CASING VOLUME (gallons)	2.84	2.82	1.35		
PURGE VOLUME (gallons)	8.5	8.5	4		
DEPTH SAMPLE TAKEN (ft)*	40	45	35		
SAMPLING DEVICE	Hanging Bailer	Hanging Bailer	Hanging Bailer		
FIELD TEMPERATURE (^{O}C)	14.3	15.7	14.9		
pH	7.69	7.61	7.76		
ELEC. COND. (uS/cm) at 25^{o} C	1080	1210	1550		
ORP (mV)	NA	NA	NA		
DISSOLVED OXYGEN (ppm)	NA	NA	NA		
DISSOLVED OXYGEN (% Sat.)	NA	NA	NA		
COLOR	lt. brown	clear	clear		
ODOR	none	none	none		
CLARITY	cloudy	cloudy	clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
PCE, TCE, TCA, Vinyl Chloride (EPA Method 8260B)	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No		

Comments:

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB	05/18/2023	05/18/2023	05/18/2023	05/18/2023	05/18/2023
SAMPLER' S NAME	KRG	KRG	KRG	KRG	KRG

*Measured from top of well casing.

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	Hanna
PROJECT NO.	117-7469013.100	Conductivity	Hanna
LOCATION	Delavan, WI	ORP	NA
PERSONNEL	CSL	DO	NA

SAMPLE POINT	MW-2005R	MW-2011	D-15	TW-3	MW-2004
WATER TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)	7/20/23	7/20/23	7/20/23	7/20/23	7/20/23
CLOCK TIME (Military)	8:35	9:20	9:50	10:35	11:10
DEPTH TO WATER (ft)*	24.72	25.79	31.32	32.04	26.95
MEASURED WELL DEPTH (ft)*	37.81	36.51	38.18	50.73	39.33
CASING VOLUME (gallons)	2	1.8	1	3	2
PURGE VOLUME (gallons)	6	5.5	3	9	6
DEPTH SAMPLE TAKEN (ft)*	35	30	35	45	35
SAMPLING DEVICE	Hanging Bailer	Hanging Bailer	Hanging Bailer	Hanging Bailer	Hanging Bailer
FIELD TEMPERATURE (°C)	15.7	14.6	15.0	16.3	15.3
pH	7.64	7.82	7.31	7.52	7.70
ELEC. COND. (uS/cm) at 25° C	1309	1417	>3999	1111	933
ORP (mV)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)	NA	NA	NA	NA	NA
COLOR	Brn	Lt. Brn	Lt. Brn	clear	clear
ODOR	None	None	None	None	None
CLARITY	cloudy	cloudy	Turbid	clear	clear
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
PCE, TCE, TCA, Vinyl Chloride (EPA Method 8260B)	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No

Comments:

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB	7/21/23	7/21/23	7/21/23	7/21/23	7/21/23
SAMPLER' S NAME	CSL	CSL	CSL	CSL	CSL

*Measured from top of well casing.

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	Hanna
PROJECT NO.	117-7469013.100	Conductivity	Hanna
LOCATION	Delavan, WI	ORP	NA
PERSONNEL	CSL	DO	NA

SAMPLE POINT	TW-1	D-18	D-25R	MW-1027	TW-4
WATER TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)	7/20/23	7/20/23	7/21/23	7/21/23	7/21/23
CLOCK TIME (Military)	12:00	13:15	9:00	9:40	10:25
DEPTH TO WATER (ft)*	26.52	29.81	32.07	29.36	37.32
MEASURED WELL DEPTH (ft)*	45.50	39.90	42.39	39.98	50.52
CASING VOLUME (gallons)	3	1.7	1.75	1.8	2.25
PURGE VOLUME (gallons)	9	5	5	5.5	7
DEPTH SAMPLE TAKEN (ft)*	40	35	40	36	45
SAMPLING DEVICE	Hanging Bailer	Hanging Bailer	Hanging Bailer	Hanging Bailer	Hanging Bailer
FIELD TEMPERATURE (°C)	15.3	16.4	13.3	16.1	16.0
pH	7.68	7.49	7.43	7.30	7.15
ELEC. COND. (uS/cm) at 25° C	1058	1278	1370	2639	>3999
ORP (mV)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)	NA	NA	NA	NA	NA
COLOR	clear	clear	Lt. Brn	clear	clear
ODOR	None	None	None	None	None
CLARITY	clear	clear	cloudy	clear	clear
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
PCE, TCE, TCA, Vinyl Chloride (EPA Method 8260B)	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; HCl; No	3 – 40 ml; G; L; HCl; No	
VOCs (EPA Method 8260B)					3 – 40 ml; G; L; HCl; No

Comments:

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB	7/21/23	7/21/23	7/21/23	7/21/23	7/21/23
SAMPLER' S NAME	CSL	CSL	CSL	CSL	CSL

*Measured from top of well casing.

TETRA TECH

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	
PROJECT NO.	117-7469013.100	Conductivity	
LOCATION	Delavan, WI	ORP	NA
PERSONNEL	CSL	DO	NA

SAMPLE POINT	MW-1026	EX-1	EX-2R	EX-3R	EX-7R
WATER TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)	7/20/23	NS	7/21/23	7/21/23	7/21/23
CLOCK TIME (Military)	13:55		11:10	11:20	10:50
DEPTH TO WATER (ft)*	31.00	NA	NA	NA	NA
MEASURED WELL DEPTH (ft)*	36.00	NA	NA	NA	NA
CASING VOLUME (gallons)	0.8	NA	NA	NA	NA
PURGE VOLUME (gallons)	2.5	Grab	Grab	Grab	Grab
DEPTH SAMPLE TAKEN (ft)*	35	NA	NA	NA	NA
SAMPLING DEVICE	Hanging Bailer	Spigot	Spigot	Spigot	Spigot
FIELD TEMPERATURE (°C)	15.6		15.7	15.5	15.4
pH	7.42		7.34	7.43	7.60
ELEC. COND. (uS/cm) at 25° C	1847		2647	1516	1671
ORP (mV)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)	NA	NA	NA	NA	NA
COLOR	Brn		clear	clear	clear
ODOR	None		None	None	None
CLARITY	cloudy		clear	clear	clear
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
PCE, TCE, TCA, Vinyl Chloride (EPA Method 8260B)	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No
		Turned off			

Comments:

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB	7/21/23		7/21/23	7/21/23	7/21/23
SAMPLER'S NAME	CSL		CSL	CSL	CSL

*Measured from top of well casing.

TETRA TECH

MONITOR WELL INSPECTION FORM

Project Name: Pentair Delavan
Location: Delavan, WI
Project No: 117-7469011.100
Personnel: Connor Lavzon
Well No.: Site Monitor Wells
Inspection Date: 7/20/23

ITEM	YES	NO	N/A	COMMENTS
Map Location Accurate?	X			
Adequately Visible in Hard-to-Find Area?			X	
Protective Posts Present? Type?	X			
Protective Posts Necessary?	X			
Is Well Painted?	X			Rust preseat on some wells
Located in a Dry Area?	X			
Well Labelled Inside and Outside?	X			Labels fading
Is Well Flushmount?			X	Both types
Protective Casing Diameter? Material?			X	
Is Well Immobile?			X	
Protective Casing Locked? Type of Lock?	X			2121 keys
Protective Casing Secure in Ground?	X			
Rust Inside Protective Casing Cap?	X			
Evidence of Frost Heave?		X		
Weep Hole at Base of Protective Casing?		X		
Well Casing Free of Kinks or Bends?	X			
Well Cap Present, Vented?		X		TW-2A missing cap. Sch. 80 PVC
Well Diameter and Material			X	
Solvent cement present?		X		
Type of Surface Seal? Is Seal Cracked?		X		
Ground/Seal Sloped to Prevent Ponding?			X	
Well stickup (ft. above grade)			X	
Protective casing stickup (ft. above grade)			X	
Depth to Water Level (below PVC casing)			X	
Measured Well Depth (below PVC casing)			X	
Saturated Thickness (feet)			X	
Constructed Well Depth (from log):			X	
Thickness of Siltation: (ft.)			X	
Bailer easily inserted/removed?	X			
Proximity to drainage ditches:			X	

Pentair Delavan Facility Field Water Level Data Sheet

Project Number: 117-7469011.100			Project Name: Pentair Delavan Remedial Action	
Personnel: Connor Lauzon			Instrument: Heron	
Well ID	Date	Time	Depth to Groundwater (feet btoc)	Notes
Plant 1 Wells				
EX-2R	NA	NA	NA	
EX-3R	NA	NA	NA	
EX-4R	NA	NA	NA	
EX-5	NA	NA	NA	
EX-6	NA	NA	NA	
TW-2	7/20/23	14:50	30.30	
TW-2A	7/20/23	14:52	30.90	Missing cap sch. 80 PVC
TW-4	7/20/23	14:55	37.27	
D-1R	7/20/23	14:00	32.27	
D-5	NA	NA	NA	ABANDONED
D-6	NA	NA	NA	ABANDONED
D-14R	NA	NA	NA	
D-23	7/20/23	14:12	31.92	
D-24R	7/20/23	14:20	29.73	
D-25R	7/20/23	14:35	32.00	
D-26	7/20/23	14:37	31.55	
D-27	7/20/23	14:40	31.56	
MW-1026	7/20/23	13:20	31.00	
MW-1027	7/20/23	15:00	29.26	
Plant 2 Wells				
EX-1	NA	NA	NA	
EX-7R	NA	NA	NA	
TW-1	7/20/23	11:20	26.52	Broken hinge
TW-1A	7/20/23	11:22	27.83	
TW-3	7/20/23	10:05	32.04	
D-3	NA	NA	NA	ABANDONED
D-4	NA	NA	NA	ABANDONED
D-15	7/20/23	9:30	31.32	
P-2009	7/20/23	10:00	30.99	
P-2010	7/20/23	10:02	30.66	
D-18	7/20/23	12:45	29.81	
MW-2004	7/20/23	10:40	26.95	
MW-2005R	7/20/23	8:00	24.42	
MW-2011	7/20/23	9:00	25.79	

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	Hanna
PROJECT NO.	117-7469013.100	Conductivity	Hanna
LOCATION	Delavan, WI	ORP	NA
PERSONNEL	CSL	DO	NA

SAMPLE POINT	TW-1	TW-3	D-18		
WATER TYPE	Groundwater	Groundwater	Groundwater		
DATE (month/day/year)	11/1/23	11/1/23	11/1/23		
CLOCK TIME (Military)	10:45	11:36	12:00		
DEPTH TO WATER (ft)*	27.99	33.32	31.10		
MEASURED WELL DEPTH (ft)*	45.50	50.73	39.90		
CASING VOLUME (gallons)	3	3	1.5		
PURGE VOLUME (gallons)	9	9	4.5		
DEPTH SAMPLE TAKEN (ft)*	40	45	35		
SAMPLING DEVICE	Hanging Bailer	Hanging Bailer	Hanging Bailer		
FIELD TEMPERATURE (°C)	11.3	10.6	16.6		
pH	7.79	7.73	7.64		
ELEC. COND. (uS/cm) at 25° C	1354	1105	1282		
ORP (mV)	NA	NA	NA		
DISSOLVED OXYGEN (ppm)	NA	NA	NA		
DISSOLVED OXYGEN (% Sat.)	NA	NA	NA		
COLOR	clear	clear	clear		
ODOR	None	None	None		
CLARITY	clear	clear	clear		

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
PCE, TCE, TCA, Vinyl Chloride (EPA Method 8260B)	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No		

Comments:

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB	11/1/23	11/1/23	11/1/23		
SAMPLER' S NAME	CSL	CSL	CSL		

*Measured from top of well casing.

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	Hanna
PROJECT NO.	117-7469013.100	Conductivity	Hanna
LOCATION	Delavan, WI	ORP	NA
PERSONNEL	Connor Lavzon, Kenny R.	DO	NA

SAMPLE POINT	TW-1	TW-3	D-18		
WATER TYPE	Groundwater	Groundwater	Groundwater		
DATE (month/day/year)	2/1/23	2/1/23	2/1/23		
CLOCK TIME (Military)	12:15	10:50	11:30		
DEPTH TO WATER (ft)*	28.80	34.15	32.03		
MEASURED WELL DEPTH (ft)*	45.50	50.73	39.90		
CASING VOLUME (gallons)	3	3	1.3		
PURGE VOLUME (gallons)	9	9	4		
DEPTH SAMPLE TAKEN (ft)*	40	45	35		
SAMPLING DEVICE	Hanging Bailer	Hanging Bailer	Hanging Bailer		
FIELD TEMPERATURE (°C)	7.82	12.6	12.7		
pH	6.8	7.76	7.60		
ELEC. COND. (uS/cm) at 25° C	963	1424	1498		
ORP (mV)	NA	NA	NA		
DISSOLVED OXYGEN (ppm)	NA	NA	NA		
DISSOLVED OXYGEN (% Sat.)	NA	NA	NA		
COLOR	lt. brown	V. Lt Brn	v lt. brn		
ODOR	none	None	none		
CLARITY	Cloudy	cloudy	clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
PCE, TCE, TCA, Vinyl Chloride (EPA Method 8260B)	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No	3 – 40 ml; G; L; HCl; No		
EX-7R:	End point good	Error on meter	No flow		
EX-6:	strong flow from spigot	~60 gpm			

Comments:

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB					
SAMPLER'S NAME					

*Measured from top of well casing.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Manthey
Tetra Tech GEO
13555 Bishops Ct
Suite 201
Brookfield, Wisconsin 53005

Generated 2/14/2023 11:25:14 AM

JOB DESCRIPTION

Pentair Delavan

JOB NUMBER

500-228923-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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 Chicago Project Manager.

Authorization

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2/14/2023 11:25:14 AM

Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Case Narrative

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

Job ID: 500-228923-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-228923-1

Comments
No additional comments.

Receipt
The samples were received on 2/2/2023 11:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.5º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for analytical batch 500-697050 recovered outside control limits for the following analytes: Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.Trip Blank (500-228923-4)

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

Client Sample ID: TW-1 — Lab Sample ID: 500-228923-1

No Detections.

Client Sample ID: TW-3 — Lab Sample ID: 500-228923-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.46	J	1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	0.41	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: D-18 — Lab Sample ID: 500-228923-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.1		1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	0.63		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-228923-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.8	J B	5.0	1.6	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-228923-1	TW-1	Water	02/01/23 12:15	02/02/23 11:40
500-228923-2	TW-3	Water	02/01/23 10:50	02/02/23 11:40
500-228923-3	D-18	Water	02/01/23 11:30	02/02/23 11:40
500-228923-4	Trip Blank	Water	02/01/23 00:00	02/02/23 11:40

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

Client Sample ID: TW-1
Date Collected: 02/01/23 12:15
Date Received: 02/02/23 11:40

Lab Sample ID: 500-228923-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/03/23 13:54	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/03/23 13:54	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/03/23 13:54	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/03/23 13:54	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/03/23 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*		*02/03/23 13:54*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 120*		*02/03/23 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*02/03/23 13:54*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*02/03/23 13:54*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

Client Sample ID: TW-3
Date Collected: 02/01/23 10:50
Date Received: 02/02/23 11:40

Lab Sample ID: 500-228923-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**0.46**	**J**	1.0	0.37	ug/L			02/03/23 14:18	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/03/23 14:18	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/03/23 14:18	1
Trichloroethene	**0.41**	**J**	0.50	0.16	ug/L			02/03/23 14:18	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/03/23 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*02/03/23 14:18*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 120*		*02/03/23 14:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*02/03/23 14:18*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*02/03/23 14:18*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

Client Sample ID: D-18

Date Collected: 02/01/23 11:30
Date Received: 02/02/23 11:40

Lab Sample ID: 500-228923-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1.1**		1.0	0.37	ug/L			02/03/23 14:42	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/03/23 14:42	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/03/23 14:42	1
Trichloroethene	**0.63**		0.50	0.16	ug/L			02/03/23 14:42	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/03/23 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*02/03/23 14:42*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 120*		*02/03/23 14:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*02/03/23 14:42*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*02/03/23 14:42*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

Client Sample ID: Trip Blank

Date Collected: 02/01/23 00:00
Date Received: 02/02/23 11:40

Lab Sample ID: 500-228923-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/03/23 12:42	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/03/23 12:42	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/03/23 12:42	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/03/23 12:42	1
Bromoform	<0.48		1.0	0.48	ug/L			02/03/23 12:42	1
Bromomethane	<0.80	*+	3.0	0.80	ug/L			02/03/23 12:42	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/03/23 12:42	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/03/23 12:42	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/03/23 12:42	1
Chloroform	<0.37		2.0	0.37	ug/L			02/03/23 12:42	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/03/23 12:42	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/03/23 12:42	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/03/23 12:42	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/03/23 12:42	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/03/23 12:42	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/03/23 12:42	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/03/23 12:42	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/03/23 12:42	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/03/23 12:42	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/03/23 12:42	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/03/23 12:42	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/03/23 12:42	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/03/23 12:42	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/03/23 12:42	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/03/23 12:42	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/03/23 12:42	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/03/23 12:42	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/03/23 12:42	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/03/23 12:42	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/03/23 12:42	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/03/23 12:42	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/03/23 12:42	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/03/23 12:42	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/03/23 12:42	1
Methylene Chloride	**1.8**	**J B**	5.0	1.6	ug/L			02/03/23 12:42	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/03/23 12:42	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/03/23 12:42	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/03/23 12:42	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/03/23 12:42	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/03/23 12:42	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/03/23 12:42	1
Styrene	<0.39		1.0	0.39	ug/L			02/03/23 12:42	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/03/23 12:42	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/03/23 12:42	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/03/23 12:42	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/03/23 12:42	1
Toluene	<0.15		0.50	0.15	ug/L			02/03/23 12:42	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/03/23 12:42	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/03/23 12:42	1

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

Client Sample ID: Trip Blank

Date Collected: 02/01/23 00:00
Date Received: 02/02/23 11:40

Lab Sample ID: 500-228923-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/03/23 12:42	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/03/23 12:42	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/03/23 12:42	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/03/23 12:42	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/03/23 12:42	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/03/23 12:42	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/03/23 12:42	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/03/23 12:42	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/03/23 12:42	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/03/23 12:42	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/03/23 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*02/03/23 12:42*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 120*		*02/03/23 12:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*02/03/23 12:42*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*02/03/23 12:42*	*1*

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
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

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

GC/MS VOA

Analysis Batch: 697050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-228923-1	TW-1	Total/NA	Water	8260B	
500-228923-2	TW-3	Total/NA	Water	8260B	
500-228923-3	D-18	Total/NA	Water	8260B	
500-228923-4	Trip Blank	Total/NA	Water	8260B	
MB 500-697050/7	Method Blank	Total/NA	Water	8260B	
LCS 500-697050/29	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-228923-1	TW-1	91	106	100	95
500-228923-2	TW-3	93	103	98	96
500-228923-3	D-18	93	106	97	96
500-228923-4	Trip Blank	94	103	96	97
LCS 500-697050/29	Lab Control Sample	89	102	91	98
MB 500-697050/7	Method Blank	96	104	94	96

Surrogate Legend

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-697050/7
Matrix: Water
Analysis Batch: 697050

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			02/03/23 11:55	1
Bromobenzene	<0.36		1.0	0.36	ug/L			02/03/23 11:55	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			02/03/23 11:55	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			02/03/23 11:55	1
Bromoform	<0.48		1.0	0.48	ug/L			02/03/23 11:55	1
Bromomethane	<0.80		3.0	0.80	ug/L			02/03/23 11:55	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			02/03/23 11:55	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			02/03/23 11:55	1
Chloroethane	<0.51		1.0	0.51	ug/L			02/03/23 11:55	1
Chloroform	<0.37		2.0	0.37	ug/L			02/03/23 11:55	1
Chloromethane	<0.32		1.0	0.32	ug/L			02/03/23 11:55	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			02/03/23 11:55	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			02/03/23 11:55	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			02/03/23 11:55	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			02/03/23 11:55	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			02/03/23 11:55	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			02/03/23 11:55	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			02/03/23 11:55	1
Dibromomethane	<0.27		1.0	0.27	ug/L			02/03/23 11:55	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			02/03/23 11:55	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			02/03/23 11:55	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			02/03/23 11:55	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			02/03/23 11:55	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			02/03/23 11:55	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			02/03/23 11:55	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			02/03/23 11:55	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			02/03/23 11:55	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			02/03/23 11:55	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			02/03/23 11:55	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			02/03/23 11:55	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			02/03/23 11:55	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			02/03/23 11:55	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			02/03/23 11:55	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			02/03/23 11:55	1
Methylene Chloride	1.81	J	5.0	1.6	ug/L			02/03/23 11:55	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			02/03/23 11:55	1
Naphthalene	<0.34		1.0	0.34	ug/L			02/03/23 11:55	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			02/03/23 11:55	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			02/03/23 11:55	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			02/03/23 11:55	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			02/03/23 11:55	1
Styrene	<0.39		1.0	0.39	ug/L			02/03/23 11:55	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			02/03/23 11:55	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			02/03/23 11:55	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			02/03/23 11:55	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			02/03/23 11:55	1
Toluene	<0.15		0.50	0.15	ug/L			02/03/23 11:55	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			02/03/23 11:55	1

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

Lab Sample ID: MB 500-697050/7
Matrix: Water
Analysis Batch: 697050

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			02/03/23 11:55	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			02/03/23 11:55	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			02/03/23 11:55	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			02/03/23 11:55	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			02/03/23 11:55	1
Trichloroethene	<0.16		0.50	0.16	ug/L			02/03/23 11:55	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			02/03/23 11:55	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			02/03/23 11:55	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			02/03/23 11:55	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			02/03/23 11:55	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			02/03/23 11:55	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			02/03/23 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*02/03/23 11:55*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 120*		*02/03/23 11:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*02/03/23 11:55*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*02/03/23 11:55*	*1*

Lab Sample ID: LCS 500-697050/29
Matrix: Water
Analysis Batch: 697050

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	45.4		ug/L		91	70 - 120
Bromobenzene	50.0	44.3		ug/L		89	70 - 122
Bromochloromethane	50.0	48.5		ug/L		97	65 - 122
Bromodichloromethane	50.0	50.7		ug/L		101	69 - 120
Bromoform	50.0	60.9		ug/L		122	56 - 132
Bromomethane	50.0	78.8	*+	ug/L		158	40 - 152
Carbon tetrachloride	50.0	51.4		ug/L		103	59 - 133
Chlorobenzene	50.0	46.9		ug/L		94	70 - 120
Chloroethane	50.0	51.0		ug/L		102	48 - 136
Chloroform	50.0	45.9		ug/L		92	70 - 120
Chloromethane	50.0	37.7		ug/L		75	56 - 152
2-Chlorotoluene	50.0	43.8		ug/L		88	70 - 125
4-Chlorotoluene	50.0	45.7		ug/L		91	68 - 124
cis-1,2-Dichloroethene	50.0	45.9		ug/L		92	70 - 125
cis-1,3-Dichloropropene	50.0	43.9		ug/L		88	64 - 127
Dibromochloromethane	50.0	53.9		ug/L		108	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	46.0		ug/L		92	56 - 123
1,2-Dibromoethane	50.0	46.5		ug/L		93	70 - 125
Dibromomethane	50.0	48.3		ug/L		97	70 - 120
1,2-Dichlorobenzene	50.0	44.6		ug/L		89	70 - 125
1,3-Dichlorobenzene	50.0	44.0		ug/L		88	70 - 125
1,4-Dichlorobenzene	50.0	44.8		ug/L		90	70 - 120
Dichlorodifluoromethane	50.0	37.7		ug/L		75	40 - 159
1,1-Dichloroethane	50.0	43.3		ug/L		87	70 - 125

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

Lab Sample ID: LCS 500-697050/29
Matrix: Water
Analysis Batch: 697050

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	50.0	42.9		ug/L		86	68 - 127
1,1-Dichloroethene	50.0	47.1		ug/L		94	67 - 122
1,2-Dichloropropane	50.0	41.6		ug/L		83	67 - 130
1,3-Dichloropropane	50.0	46.2		ug/L		92	62 - 136
2,2-Dichloropropane	50.0	45.3		ug/L		91	58 - 139
1,1-Dichloropropene	50.0	46.0		ug/L		92	70 - 121
Ethylbenzene	50.0	47.2		ug/L		94	70 - 123
Hexachlorobutadiene	50.0	35.9		ug/L		72	51 - 150
Isopropylbenzene	50.0	43.6		ug/L		87	70 - 126
Methylene Chloride	50.0	49.0		ug/L		98	69 - 125
Methyl tert-butyl ether	50.0	42.3		ug/L		85	55 - 123
Naphthalene	50.0	38.5		ug/L		77	53 - 144
n-Butylbenzene	50.0	46.2		ug/L		92	68 - 125
N-Propylbenzene	50.0	46.2		ug/L		92	69 - 127
p-Isopropyltoluene	50.0	45.6		ug/L		91	70 - 125
sec-Butylbenzene	50.0	45.5		ug/L		91	70 - 123
Styrene	50.0	50.1		ug/L		100	70 - 120
tert-Butylbenzene	50.0	43.2		ug/L		86	70 - 121
1,1,1,2-Tetrachloroethane	50.0	46.8		ug/L		94	70 - 125
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	62 - 140
Tetrachloroethene	50.0	44.3		ug/L		89	70 - 128
Toluene	50.0	46.9		ug/L		94	70 - 125
trans-1,2-Dichloroethene	50.0	48.2		ug/L		96	70 - 125
trans-1,3-Dichloropropene	50.0	47.0		ug/L		94	62 - 128
1,2,3-Trichlorobenzene	50.0	35.9		ug/L		72	51 - 145
1,2,4-Trichlorobenzene	50.0	38.3		ug/L		77	57 - 137
1,1,1-Trichloroethane	50.0	47.8		ug/L		96	70 - 125
1,1,2-Trichloroethane	50.0	47.5		ug/L		95	71 - 130
Trichloroethene	50.0	46.7		ug/L		93	70 - 125
Trichlorofluoromethane	50.0	46.7		ug/L		93	55 - 128
1,2,3-Trichloropropane	50.0	44.7		ug/L		89	50 - 133
1,2,4-Trimethylbenzene	50.0	45.3		ug/L		91	70 - 123
1,3,5-Trimethylbenzene	50.0	44.9		ug/L		90	70 - 123
Vinyl chloride	50.0	47.5		ug/L		95	64 - 126
Xylenes, Total	100	93.8		ug/L		94	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*
Dibromofluoromethane (Surr)	*102*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 120*

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

Client Sample ID: TW-1
Date Collected: 02/01/23 12:15
Date Received: 02/02/23 11:40

Lab Sample ID: 500-228923-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	697050	JDD	EET CHI	02/03/23 13:54

Client Sample ID: TW-3
Date Collected: 02/01/23 10:50
Date Received: 02/02/23 11:40

Lab Sample ID: 500-228923-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	697050	JDD	EET CHI	02/03/23 14:18

Client Sample ID: D-18
Date Collected: 02/01/23 11:30
Date Received: 02/02/23 11:40

Lab Sample ID: 500-228923-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	697050	JDD	EET CHI	02/03/23 14:42

Client Sample ID: Trip Blank
Date Collected: 02/01/23 00:00
Date Received: 02/02/23 11:40

Lab Sample ID: 500-228923-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	697050	JDD	EET CHI	02/03/23 12:42

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-228923-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Connor Lanzon	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-109766-45830.1
Client Contact: Mr Mark Manthey	Phone: (262) 203-1294	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 1 of 1
Company: Tetra Tech GEO	PWSID:	**Analysis Requested**		Job #: 500-228923
Address: 13555 Bishops Ct Suite 201	Due Date Requested: standard			**Preservation Codes**
City: Brookfield	TAT Requested (days): standard			
State, Zip: WI 53005	Compliance Project: Δ Yes Δ No			
Phone: 262 792 1282(Tel)	PO #:			
Email: mark.manthey@tetratech.com	WO #:			
Project Name: Pentair Delavan	Project #: 50006640			
Site:	SSOW#:			Other:

500-228923 COC

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

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B VOCs Wisconsin	PCE, TCE, 1,1,1-TCA, 1,1,2-TCA, and VC (8260B)	Total Number of containers	Special Instructions/Note
					Preservation Code:	X	X	A	A	X	
1	TW-1	2/1/23	1215	G	Water				X	3	
2	TW-3	2/1/23	10 50	G	Water				X	3	
3	D-1B	2/1/23	11.30	G	Water				X	3	
4	Trip Blank	—	—	—	Water			X		1	
					Water						

Possible Hazard Identification
☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Connor Lanzon	2/1/23 16 00	Tetra Tech	[signature]	2/2/23 1140	EETA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4→1.5

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-228923-1

Login Number: 228923
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Manthey
Tetra Tech GEO
13555 Bishops Ct
Suite 201
Brookfield, Wisconsin 53005

Generated 5/30/2023 3:45:49 PM

JOB DESCRIPTION

Pentair Delavan

JOB NUMBER

500-234036-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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 Chicago Project Manager.

Authorization

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Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Case Narrative

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-234036-1

Job ID: 500-234036-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-234036-1

Receipt
The samples were received on 5/19/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.9º C.

GC/MS VOA
Method 8260B: The matrix spike duplicate (MSD) recoveries for analytical batch 500-715368 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-234036-1

Client Sample ID: TW-01 — Lab Sample ID: 500-234036-1

No Detections.

Client Sample ID: TW-03 — Lab Sample ID: 500-234036-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.38	J	1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: D-18 — Lab Sample ID: 500-234036-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.1		1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	0.63		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-234036-4

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-234036-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-234036-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-234036-1	TW-01	Water	05/18/23 12:55	05/19/23 10:00
500-234036-2	TW-03	Water	05/18/23 11:30	05/19/23 10:00
500-234036-3	D-18	Water	05/18/23 12:15	05/19/23 10:00
500-234036-4	Trip Blank	Water	05/18/23 00:00	05/19/23 10:00

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-234036-1

Client Sample ID: TW-01
Date Collected: 05/18/23 12:55
Date Received: 05/19/23 10:00

Lab Sample ID: 500-234036-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/25/23 22:18	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/25/23 22:18	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/25/23 22:18	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/25/23 22:18	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/25/23 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*05/25/23 22:18*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 120*		*05/25/23 22:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*05/25/23 22:18*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*05/25/23 22:18*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-234036-1

Client Sample ID: TW-03
Date Collected: 05/18/23 11:30
Date Received: 05/19/23 10:00

Lab Sample ID: 500-234036-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.38	J	1.0	0.37	ug/L			05/25/23 22:43	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/25/23 22:43	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/25/23 22:43	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/25/23 22:43	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/25/23 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*05/25/23 22:43*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 120*		*05/25/23 22:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*05/25/23 22:43*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*05/25/23 22:43*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-234036-1

Client Sample ID: D-18
Date Collected: 05/18/23 12:15
Date Received: 05/19/23 10:00

Lab Sample ID: 500-234036-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1.1**		1.0	0.37	ug/L			05/25/23 23:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/25/23 23:07	1
1,1,2-Trichloroethane	<0.35	F1	1.0	0.35	ug/L			05/25/23 23:07	1
Trichloroethene	**0.63**		0.50	0.16	ug/L			05/25/23 23:07	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/25/23 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*05/25/23 23:07*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*05/25/23 23:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*05/25/23 23:07*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/25/23 23:07*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-234036-1

Client Sample ID: Trip Blank
Date Collected: 05/18/23 00:00
Date Received: 05/19/23 10:00

Lab Sample ID: 500-234036-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/24/23 14:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/24/23 14:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/24/23 14:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/24/23 14:52	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/24/23 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*05/24/23 14:52*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 120*		*05/24/23 14:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*		*05/24/23 14:52*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/24/23 14:52*	*1*

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-234036-1

Qualifiers

GC/MS 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

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-234036-1

GC/MS VOA

Analysis Batch: 714970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234036-4	Trip Blank	Total/NA	Water	8260B	
MB 500-714970/7	Method Blank	Total/NA	Water	8260B	
LCS 500-714970/31	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 715368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-234036-1	TW-01	Total/NA	Water	8260B	
500-234036-2	TW-03	Total/NA	Water	8260B	
500-234036-3	D-18	Total/NA	Water	8260B	
MB 500-715368/6	Method Blank	Total/NA	Water	8260B	
LCS 500-715368/4	Lab Control Sample	Total/NA	Water	8260B	
500-234036-3 MS	D-18	Total/NA	Water	8260B	
500-234036-3 MSD	D-18	Total/NA	Water	8260B	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-234036-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-234036-1	TW-01	105	102	95	93
500-234036-2	TW-03	108	111	105	90
500-234036-3	D-18	102	97	90	95
500-234036-3 MS	D-18	102	101	101	94
500-234036-3 MSD	D-18	101	103	108	94
500-234036-4	Trip Blank	102	92	88	95
LCS 500-714970/31	Lab Control Sample	101	86	83	96
LCS 500-715368/4	Lab Control Sample	99	96	83	98
MB 500-714970/7	Method Blank	103	92	88	95
MB 500-715368/6	Method Blank	106	98	89	96

Surrogate Legend

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-714970/7
Matrix: Water
Analysis Batch: 714970

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/24/23 14:00	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/24/23 14:00	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/24/23 14:00	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/24/23 14:00	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/24/23 14:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*05/24/23 14:00*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 120*		*05/24/23 14:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*		*05/24/23 14:00*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/24/23 14:00*	*1*

Lab Sample ID: LCS 500-714970/31
Matrix: Water
Analysis Batch: 714970

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	40.0	46.8		ug/L		117	70 - 128
1,1,1-Trichloroethane	40.0	38.1		ug/L		95	70 - 125
1,1,2-Trichloroethane	40.0	40.6		ug/L		101	71 - 130
Trichloroethene	40.0	43.9		ug/L		110	70 - 125
Vinyl chloride	40.0	43.4		ug/L		108	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*
Dibromofluoromethane (Surr)	*86*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*
Toluene-d8 (Surr)	*96*		*75 - 120*

Lab Sample ID: MB 500-715368/6
Matrix: Water
Analysis Batch: 715368

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/25/23 21:55	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/25/23 21:55	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/25/23 21:55	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/25/23 21:55	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/25/23 21:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*05/25/23 21:55*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*05/25/23 21:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*05/25/23 21:55*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*05/25/23 21:55*	*1*

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

Lab Sample ID: LCS 500-715368/4
Matrix: Water
Analysis Batch: 715368

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tetrachloroethene			50.0	51.7		ug/L		103	70 - 128		
1,1,1-Trichloroethane			50.0	46.0		ug/L		92	70 - 125		
1,1,2-Trichloroethane			50.0	50.6		ug/L		101	71 - 130		
Trichloroethene			50.0	49.2		ug/L		98	70 - 125		
Vinyl chloride			50.0	44.5		ug/L		89	64 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane (Surr)	*96*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 120*

Lab Sample ID: 500-234036-3 MS
Matrix: Water
Analysis Batch: 715368

Client Sample ID: D-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Tetrachloroethene	1.1		50.0	47.3		ug/L		92	70 - 128		
1,1,1-Trichloroethane	<0.38		50.0	43.4		ug/L		87	70 - 125		
1,1,2-Trichloroethane	<0.35	F1	50.0	61.3		ug/L		123	71 - 130		
Trichloroethene	0.63		50.0	48.7		ug/L		96	70 - 125		
Vinyl chloride	<0.20		50.0	42.3		ug/L		85	64 - 126		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*
Toluene-d8 (Surr)	*94*		*75 - 120*

Lab Sample ID: 500-234036-3 MSD
Matrix: Water
Analysis Batch: 715368

Client Sample ID: D-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene	1.1		50.0	48.9		ug/L		96	70 - 128	3	20
1,1,1-Trichloroethane	<0.38		50.0	45.7		ug/L		91	70 - 125	5	20
1,1,2-Trichloroethane	<0.35	F1	50.0	67.3	F1	ug/L		135	71 - 130	9	20
Trichloroethene	0.63		50.0	50.2		ug/L		99	70 - 125	3	20
Vinyl chloride	<0.20		50.0	45.5		ug/L		91	64 - 126	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*
Toluene-d8 (Surr)	*94*		*75 - 120*

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-234036-1

Client Sample ID: TW-01
Date Collected: 05/18/23 12:55
Date Received: 05/19/23 10:00

Lab Sample ID: 500-234036-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	715368	EA	EET CHI	05/25/23 22:18

Client Sample ID: TW-03
Date Collected: 05/18/23 11:30
Date Received: 05/19/23 10:00

Lab Sample ID: 500-234036-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	715368	EA	EET CHI	05/25/23 22:43

Client Sample ID: D-18
Date Collected: 05/18/23 12:15
Date Received: 05/19/23 10:00

Lab Sample ID: 500-234036-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	715368	EA	EET CHI	05/25/23 23:07

Client Sample ID: Trip Blank
Date Collected: 05/18/23 00:00
Date Received: 05/19/23 10:00

Lab Sample ID: 500-234036-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	714970	W1T	EET CHI	05/24/23 14:52

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-234036-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

500-234036 COC

Chain of Custody Record

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Environment Testing

Client Information	Sampler: Kenny Rodriguez	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-112736-45830.1
Client Contact: Mr. Mark Manthey	Phone: (262) 792-1282	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Tetra Tech GEO	PWSID:			Job #: 500-234036
Address: 13555 Bishops Ct Suite 201	Due Date Requested: Standard			
City: Brookfield	TAT Requested (days):			
State, Zip: WI, 53005	Compliance Project: Δ Yes Δ No			
Phone: 262-792-1282(Tel)	PO #:			
Email: mark.manthey@tetratech.com	WO #:			
Project Name: Pentair Delavan	Project #: 50006640			
Site: Pentair Delavan	SSOW#:			

Analysis Requested

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

Sample Identification	2023 Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs - Wisconsin PCE, TCE, TCA Vinyl Chloride	Total Number of containers	Special Instructions/Note:
Preservation Code:							A		
TW-1	5/18	G	12:55	Water			3		
TW-3	5/18	G	11:30	Water			3		
D-18	5/18	G	12:15	Water			3		
Trip Blank	—	—	—	Water			1		lab prepared
				Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: FedEx

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
K. Rodriguez	5/18/2023 15:30	Tetra Tech		5/19/23 10:00	EETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.0 - 1.9

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-234036-1

Login Number: 234036
List Number: 1
Creator: Moore, Cheyenne M

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0-1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Manthey
Tetra Tech GEO
13555 Bishops Ct
Suite 201
Brookfield, Wisconsin 53005

Generated 8/3/2023 5:27:47 PM

JOB DESCRIPTION

Pentair Delavan

JOB NUMBER

500-237074-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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 Chicago Project Manager.

Authorization

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8/3/2023 5:27:47 PM

Authorized for release by
Jodie Bracken, Project Management Assistant II
Jodie.Bracken@ET.EurofinsUS.com
Designee for
Sandie Fredrick, Project Manager II
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Table of Contents

Case Narrative

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Job ID: 500-237074-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-237074-1

Receipt
The samples were received on 07/22/23 09:50. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3º C.

Receipt Exceptions
Received 1 VOA vial broken for sample 6. TW-1 (500-237074-6)

GC/MS VOA
Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: D-18 (500-237074-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: MW-2005R — Lab Sample ID: 500-237074-1

No Detections.

Client Sample ID: MW-2011 — Lab Sample ID: 500-237074-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.71	J	1.0	0.38	ug/L	1		8260D	Total/NA
Trichloroethene	3.1		0.50	0.16	ug/L	1		8260D	Total/NA

Client Sample ID: D-15 — Lab Sample ID: 500-237074-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	5.9		1.0	0.37	ug/L	1		8260D	Total/NA
Trichloroethene	6.0		0.50	0.16	ug/L	1		8260D	Total/NA

Client Sample ID: TW-3 — Lab Sample ID: 500-237074-4

No Detections.

Client Sample ID: MW-2004 — Lab Sample ID: 500-237074-5

No Detections.

Client Sample ID: TW-1 — Lab Sample ID: 500-237074-6

No Detections.

Client Sample ID: D-18 — Lab Sample ID: 500-237074-7

No Detections.

Client Sample ID: D-25R — Lab Sample ID: 500-237074-8

No Detections.

Client Sample ID: MW-1027 — Lab Sample ID: 500-237074-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.3		1.0	0.38	ug/L	1		8260D	Total/NA
Trichloroethene	30		0.50	0.16	ug/L	1		8260D	Total/NA

Client Sample ID: TW-4 — Lab Sample ID: 500-237074-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	15		1.0	0.38	ug/L	1		8260D	Total/NA
Trichloroethene	17		0.50	0.16	ug/L	1		8260D	Total/NA

Client Sample ID: MW-1026 — Lab Sample ID: 500-237074-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	12		1.0	0.38	ug/L	1		8260D	Total/NA
Trichloroethene	4.8		0.50	0.16	ug/L	1		8260D	Total/NA

Client Sample ID: EX-2R — Lab Sample ID: 500-237074-12

No Detections.

Client Sample ID: EX-3R — Lab Sample ID: 500-237074-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.6		1.0	0.38	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: EX-3R (Continued) — Lab Sample ID: 500-237074-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	5.0		0.50	0.16	ug/L	1		8260D	Total/NA

Client Sample ID: EX-7R — Lab Sample ID: 500-237074-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.5		1.0	0.37	ug/L	1		8260D	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-237074-15

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-237074-1	MW-2005R	Water	07/20/23 08:35	07/22/23 09:50
500-237074-2	MW-2011	Water	07/20/23 09:20	07/22/23 09:50
500-237074-3	D-15	Water	07/20/23 09:50	07/22/23 09:50
500-237074-4	TW-3	Water	07/20/23 10:35	07/22/23 09:50
500-237074-5	MW-2004	Water	07/20/23 11:10	07/22/23 09:50
500-237074-6	TW-1	Water	07/20/23 12:00	07/22/23 09:50
500-237074-7	D-18	Water	07/20/23 13:15	07/22/23 09:50
500-237074-8	D-25R	Water	07/21/23 09:00	07/22/23 09:50
500-237074-9	MW-1027	Water	07/21/23 09:40	07/22/23 09:50
500-237074-10	TW-4	Water	07/21/23 10:25	07/22/23 09:50
500-237074-11	MW-1026	Water	07/20/23 13:55	07/22/23 09:50
500-237074-12	EX-2R	Water	07/21/23 11:10	07/22/23 09:50
500-237074-13	EX-3R	Water	07/21/23 11:20	07/22/23 09:50
500-237074-14	EX-7R	Water	07/21/23 10:50	07/22/23 09:50
500-237074-15	Trip Blank	Water	07/20/23 00:00	07/22/23 09:50

Client Sample Results

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: MW-2005R

Date Collected: 07/20/23 08:35
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/01/23 12:21	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/01/23 12:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 12:21	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/01/23 12:21	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*72 - 124*		*08/01/23 12:21*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*08/01/23 12:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*08/01/23 12:21*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*08/01/23 12:21*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: MW-2011
Date Collected: 07/20/23 09:20
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/01/23 12:46	1
1,1,1-Trichloroethane	**0.71**	**J**	1.0	0.38	ug/L			08/01/23 12:46	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 12:46	1
Trichloroethene	**3.1**		0.50	0.16	ug/L			08/01/23 12:46	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*72 - 124*		*08/01/23 12:46*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*08/01/23 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*08/01/23 12:46*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*08/01/23 12:46*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: D-15

Date Collected: 07/20/23 09:50
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**5.9**		1.0	0.37	ug/L			08/01/23 13:11	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/01/23 13:11	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 13:11	1
Trichloroethene	**6.0**		0.50	0.16	ug/L			08/01/23 13:11	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*72 - 124*		*08/01/23 13:11*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 120*		*08/01/23 13:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*08/01/23 13:11*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*08/01/23 13:11*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: TW-3

Date Collected: 07/20/23 10:35
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/01/23 13:36	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/01/23 13:36	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 13:36	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/01/23 13:36	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*72 - 124*		*08/01/23 13:36*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*08/01/23 13:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*08/01/23 13:36*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*08/01/23 13:36*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: MW-2004
Date Collected: 07/20/23 11:10
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/01/23 14:01	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/01/23 14:01	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 14:01	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/01/23 14:01	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*72 - 124*		*08/01/23 14:01*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 120*		*08/01/23 14:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*08/01/23 14:01*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*08/01/23 14:01*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: TW-1
Date Collected: 07/20/23 12:00
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/01/23 14:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/01/23 14:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 14:26	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/01/23 14:26	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*72 - 124*		*08/01/23 14:26*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*08/01/23 14:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*08/01/23 14:26*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*08/01/23 14:26*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: D-18

Date Collected: 07/20/23 13:15
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/01/23 14:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/01/23 14:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 14:51	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/01/23 14:51	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*	*S1+*	*72 - 124*		*08/01/23 14:51*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 120*		*08/01/23 14:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*08/01/23 14:51*	*1*
Toluene-d8 (Surr)	*108*		*75 - 120*		*08/01/23 14:51*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: D-25R
Date Collected: 07/21/23 09:00
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/01/23 15:16	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/01/23 15:16	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 15:16	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/01/23 15:16	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*72 - 124*		*08/01/23 15:16*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 120*		*08/01/23 15:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*08/01/23 15:16*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*08/01/23 15:16*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: MW-1027

Date Collected: 07/21/23 09:40
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/01/23 15:41	1
1,1,1-Trichloroethane	**1.3**		1.0	0.38	ug/L			08/01/23 15:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 15:41	1
Trichloroethene	**30**		0.50	0.16	ug/L			08/01/23 15:41	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*72 - 124*		*08/01/23 15:41*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 120*		*08/01/23 15:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*08/01/23 15:41*	*1*
Toluene-d8 (Surr)	*109*		*75 - 120*		*08/01/23 15:41*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: TW-4
Date Collected: 07/21/23 10:25
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			08/02/23 23:23	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/02/23 23:23	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/02/23 23:23	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			08/02/23 23:23	1
Bromoform	<0.48		1.0	0.48	ug/L			08/02/23 23:23	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/02/23 23:23	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/02/23 23:23	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/02/23 23:23	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/02/23 23:23	1
Chloroform	<0.37		2.0	0.37	ug/L			08/02/23 23:23	1
Chloromethane	<0.32		5.0	0.32	ug/L			08/02/23 23:23	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/02/23 23:23	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/02/23 23:23	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/02/23 23:23	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/02/23 23:23	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/02/23 23:23	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/02/23 23:23	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			08/02/23 23:23	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/02/23 23:23	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/02/23 23:23	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/02/23 23:23	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/02/23 23:23	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/02/23 23:23	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/02/23 23:23	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/02/23 23:23	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/02/23 23:23	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/02/23 23:23	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/02/23 23:23	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/02/23 23:23	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/02/23 23:23	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/02/23 23:23	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/02/23 23:23	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/02/23 23:23	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/02/23 23:23	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/02/23 23:23	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/02/23 23:23	1
Naphthalene	<0.34		1.0	0.34	ug/L			08/02/23 23:23	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			08/02/23 23:23	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/02/23 23:23	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/02/23 23:23	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			08/02/23 23:23	1
Styrene	<0.39		1.0	0.39	ug/L			08/02/23 23:23	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/02/23 23:23	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			08/02/23 23:23	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/02/23 23:23	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/23 23:23	1
Toluene	<0.15		0.50	0.15	ug/L			08/02/23 23:23	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/02/23 23:23	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/02/23 23:23	1

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: TW-4
Date Collected: 07/21/23 10:25
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/02/23 23:23	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/02/23 23:23	1
1,1,1-Trichloroethane	**15**		1.0	0.38	ug/L			08/02/23 23:23	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/23 23:23	1
Trichloroethene	**17**		0.50	0.16	ug/L			08/02/23 23:23	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/02/23 23:23	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/02/23 23:23	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			08/02/23 23:23	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			08/02/23 23:23	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/23 23:23	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			08/02/23 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*		*08/02/23 23:23*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 120*		*08/02/23 23:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*08/02/23 23:23*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*08/02/23 23:23*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: MW-1026

Date Collected: 07/20/23 13:55
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/01/23 16:06	1
1,1,1-Trichloroethane	**12**		1.0	0.38	ug/L			08/01/23 16:06	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 16:06	1
Trichloroethene	**4.8**		0.50	0.16	ug/L			08/01/23 16:06	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*72 - 124*		*08/01/23 16:06*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 120*		*08/01/23 16:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*08/01/23 16:06*	*1*
Toluene-d8 (Surr)	*111*		*75 - 120*		*08/01/23 16:06*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: EX-2R

Date Collected: 07/21/23 11:10
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/01/23 16:31	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/01/23 16:31	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 16:31	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/01/23 16:31	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*72 - 124*		*08/01/23 16:31*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 120*		*08/01/23 16:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*08/01/23 16:31*	*1*
Toluene-d8 (Surr)	*108*		*75 - 120*		*08/01/23 16:31*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: EX-3R

Date Collected: 07/21/23 11:20
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/01/23 16:56	1
1,1,1-Trichloroethane	**2.6**		1.0	0.38	ug/L			08/01/23 16:56	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 16:56	1
Trichloroethene	**5.0**		0.50	0.16	ug/L			08/01/23 16:56	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*72 - 124*		*08/01/23 16:56*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 120*		*08/01/23 16:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*08/01/23 16:56*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*08/01/23 16:56*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: EX-7R

Date Collected: 07/21/23 10:50
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	3.5		1.0	0.37	ug/L			08/01/23 17:21	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/01/23 17:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 17:21	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/01/23 17:21	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*72 - 124*		*08/01/23 17:21*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 120*		*08/01/23 17:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*08/01/23 17:21*	*1*
Toluene-d8 (Surr)	*108*		*75 - 120*		*08/01/23 17:21*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: Trip Blank

Date Collected: 07/20/23 00:00
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			08/02/23 22:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/02/23 22:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/02/23 22:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			08/02/23 22:58	1
Bromoform	<0.48		1.0	0.48	ug/L			08/02/23 22:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/02/23 22:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/02/23 22:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/02/23 22:58	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/02/23 22:58	1
Chloroform	<0.37		2.0	0.37	ug/L			08/02/23 22:58	1
Chloromethane	<0.32		5.0	0.32	ug/L			08/02/23 22:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/02/23 22:58	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/02/23 22:58	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/02/23 22:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/02/23 22:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/02/23 22:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/02/23 22:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			08/02/23 22:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/02/23 22:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/02/23 22:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/02/23 22:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/02/23 22:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/02/23 22:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/02/23 22:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/02/23 22:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/02/23 22:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/02/23 22:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/02/23 22:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/02/23 22:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/02/23 22:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/02/23 22:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/02/23 22:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/02/23 22:58	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/02/23 22:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/02/23 22:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/02/23 22:58	1
Naphthalene	<0.34		1.0	0.34	ug/L			08/02/23 22:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			08/02/23 22:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/02/23 22:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/02/23 22:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			08/02/23 22:58	1
Styrene	<0.39		1.0	0.39	ug/L			08/02/23 22:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/02/23 22:58	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			08/02/23 22:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/02/23 22:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/23 22:58	1
Toluene	<0.15		0.50	0.15	ug/L			08/02/23 22:58	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/02/23 22:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/02/23 22:58	1

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: Trip Blank
Date Collected: 07/20/23 00:00
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/02/23 22:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/02/23 22:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/02/23 22:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/23 22:58	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/02/23 22:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/02/23 22:58	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/02/23 22:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			08/02/23 22:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			08/02/23 22:58	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/23 22:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			08/02/23 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*08/02/23 22:58*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*08/02/23 22:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*08/02/23 22:58*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*08/02/23 22:58*	*1*

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

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.
S1+	Surrogate recovery exceeds control limits, high biased.

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

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

GC/MS VOA

Analysis Batch: 725704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237074-1	MW-2005R	Total/NA	Water	8260D	
500-237074-2	MW-2011	Total/NA	Water	8260D	
500-237074-3	D-15	Total/NA	Water	8260D	
500-237074-4	TW-3	Total/NA	Water	8260D	
500-237074-5	MW-2004	Total/NA	Water	8260D	
500-237074-6	TW-1	Total/NA	Water	8260D	
500-237074-7	D-18	Total/NA	Water	8260D	
500-237074-8	D-25R	Total/NA	Water	8260D	
500-237074-9	MW-1027	Total/NA	Water	8260D	
500-237074-11	MW-1026	Total/NA	Water	8260D	
500-237074-12	EX-2R	Total/NA	Water	8260D	
500-237074-13	EX-3R	Total/NA	Water	8260D	
500-237074-14	EX-7R	Total/NA	Water	8260D	
MB 500-725704/7	Method Blank	Total/NA	Water	8260D	
LCS 500-725704/5	Lab Control Sample	Total/NA	Water	8260D	
500-237074-14 MS	EX-7R	Total/NA	Water	8260D	
500-237074-14 MSD	EX-7R	Total/NA	Water	8260D	

Analysis Batch: 726059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237074-10	TW-4	Total/NA	Water	8260D	
500-237074-15	Trip Blank	Total/NA	Water	8260D	
MB 500-726059/8	Method Blank	Total/NA	Water	8260D	
LCS 500-726059/5	Lab Control Sample	Total/NA	Water	8260D	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-237074-1	MW-2005R	117	97	97	106
500-237074-2	MW-2011	115	95	96	106
500-237074-3	D-15	114	93	96	107
500-237074-4	TW-3	113	98	100	106
500-237074-5	MW-2004	115	96	99	107
500-237074-6	TW-1	113	95	98	107
500-237074-7	D-18	125 S1+	96	102	108
500-237074-8	D-25R	113	96	102	103
500-237074-9	MW-1027	118	91	98	109
500-237074-10	TW-4	110	102	103	106
500-237074-11	MW-1026	124	90	98	111
500-237074-12	EX-2R	119	94	98	108
500-237074-13	EX-3R	116	94	97	107
500-237074-14	EX-7R	119	94	101	108
500-237074-14 MS	EX-7R	112	92	99	109
500-237074-14 MSD	EX-7R	112	97	96	109
500-237074-15	Trip Blank	108	98	103	106
LCS 500-725704/5	Lab Control Sample	104	100	91	102
LCS 500-726059/5	Lab Control Sample	108	97	99	109
MB 500-725704/7	Method Blank	110	97	93	106
MB 500-726059/8	Method Blank	115	96	103	109

Surrogate Legend

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

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

Lab Sample ID: MB 500-725704/7
Matrix: Water
Analysis Batch: 725704

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/01/23 10:27	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/01/23 10:27	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/01/23 10:27	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/01/23 10:27	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/01/23 10:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*		*08/01/23 10:27*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*08/01/23 10:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*08/01/23 10:27*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*08/01/23 10:27*	*1*

Lab Sample ID: LCS 500-725704/5
Matrix: Water
Analysis Batch: 725704

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	50.0	56.0		ug/L		112	70 - 128
1,1,1-Trichloroethane	50.0	50.4		ug/L		101	70 - 125
1,1,2-Trichloroethane	50.0	48.7		ug/L		97	71 - 130
Trichloroethene	50.0	48.9		ug/L		98	70 - 125
Vinyl chloride	50.0	46.8		ug/L		94	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Sample ID: 500-237074-14 MS
Matrix: Water
Analysis Batch: 725704

Client Sample ID: EX-7R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	3.5		50.0	55.1		ug/L		103	70 - 128
1,1,1-Trichloroethane	<0.38		50.0	43.7		ug/L		87	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	50.1		ug/L		100	71 - 130
Trichloroethene	<0.16		50.0	46.1		ug/L		92	70 - 125
Vinyl chloride	<0.20		50.0	43.8		ug/L		88	64 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*72 - 124*
Dibromofluoromethane (Surr)	*92*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*
Toluene-d8 (Surr)	*109*		*75 - 120*

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

Lab Sample ID: 500-237074-14 MSD
Matrix: Water
Analysis Batch: 725704

Client Sample ID: EX-7R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene	3.5		50.0	59.8		ug/L		113	70 - 128	8	20
1,1,1-Trichloroethane	<0.38		50.0	51.6		ug/L		103	70 - 125	17	20
1,1,2-Trichloroethane	<0.35		50.0	56.2		ug/L		112	71 - 130	11	20
Trichloroethene	<0.16		50.0	50.0		ug/L		100	70 - 125	8	20
Vinyl chloride	<0.20		50.0	46.4		ug/L		93	64 - 126	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*72 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*
Toluene-d8 (Surr)	*109*		*75 - 120*

Lab Sample ID: MB 500-726059/8
Matrix: Water
Analysis Batch: 726059

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			08/02/23 22:08	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/02/23 22:08	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/02/23 22:08	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			08/02/23 22:08	1
Bromoform	<0.48		1.0	0.48	ug/L			08/02/23 22:08	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/02/23 22:08	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/02/23 22:08	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/02/23 22:08	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/02/23 22:08	1
Chloroform	<0.37		2.0	0.37	ug/L			08/02/23 22:08	1
Chloromethane	<0.32		5.0	0.32	ug/L			08/02/23 22:08	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/02/23 22:08	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/02/23 22:08	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/02/23 22:08	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/02/23 22:08	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/02/23 22:08	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/02/23 22:08	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			08/02/23 22:08	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/02/23 22:08	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/02/23 22:08	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/02/23 22:08	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/02/23 22:08	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/02/23 22:08	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/02/23 22:08	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/02/23 22:08	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/02/23 22:08	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/02/23 22:08	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/02/23 22:08	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/02/23 22:08	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/02/23 22:08	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/02/23 22:08	1

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

Lab Sample ID: MB 500-726059/8
Matrix: Water
Analysis Batch: 726059

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/02/23 22:08	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/02/23 22:08	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/02/23 22:08	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/02/23 22:08	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/02/23 22:08	1
Naphthalene	<0.34		1.0	0.34	ug/L			08/02/23 22:08	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			08/02/23 22:08	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/02/23 22:08	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/02/23 22:08	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			08/02/23 22:08	1
Styrene	<0.39		1.0	0.39	ug/L			08/02/23 22:08	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/02/23 22:08	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			08/02/23 22:08	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/02/23 22:08	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/02/23 22:08	1
Toluene	<0.15		0.50	0.15	ug/L			08/02/23 22:08	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/02/23 22:08	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/02/23 22:08	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/02/23 22:08	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/02/23 22:08	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/02/23 22:08	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/02/23 22:08	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/02/23 22:08	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/02/23 22:08	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/02/23 22:08	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			08/02/23 22:08	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			08/02/23 22:08	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/02/23 22:08	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			08/02/23 22:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*72 - 124*		*08/02/23 22:08*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 120*		*08/02/23 22:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*08/02/23 22:08*	*1*
Toluene-d8 (Surr)	*109*		*75 - 120*		*08/02/23 22:08*	*1*

Lab Sample ID: LCS 500-726059/5
Matrix: Water
Analysis Batch: 726059

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	46.2		ug/L		92	70 - 120
Bromobenzene	50.0	58.1		ug/L		116	70 - 122
Bromochloromethane	50.0	46.6		ug/L		93	65 - 122
Bromodichloromethane	50.0	50.0		ug/L		100	69 - 120
Bromoform	50.0	47.8		ug/L		96	56 - 132
Bromomethane	50.0	59.0		ug/L		118	40 - 152
Carbon tetrachloride	50.0	52.8		ug/L		106	59 - 133

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

Lab Sample ID: LCS 500-726059/5
Matrix: Water
Analysis Batch: 726059

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	50.0	53.8		ug/L		108	70 - 120
Chloroethane	50.0	48.6		ug/L		97	48 - 136
Chloroform	50.0	46.2		ug/L		92	70 - 120
Chloromethane	50.0	38.1		ug/L		76	56 - 152
2-Chlorotoluene	50.0	54.0		ug/L		108	70 - 125
4-Chlorotoluene	50.0	54.7		ug/L		109	68 - 124
cis-1,2-Dichloroethene	50.0	48.3		ug/L		97	70 - 125
cis-1,3-Dichloropropene	50.0	55.9		ug/L		112	64 - 127
Dibromochloromethane	50.0	55.8		ug/L		112	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	46.7		ug/L		93	56 - 123
1,2-Dibromoethane	50.0	57.5		ug/L		115	70 - 125
Dibromomethane	50.0	53.6		ug/L		107	70 - 120
1,2-Dichlorobenzene	50.0	52.3		ug/L		105	70 - 125
1,3-Dichlorobenzene	50.0	54.7		ug/L		109	70 - 125
1,4-Dichlorobenzene	50.0	54.2		ug/L		108	70 - 120
Dichlorodifluoromethane	50.0	41.2		ug/L		82	40 - 159
1,1-Dichloroethane	50.0	50.2		ug/L		100	70 - 125
1,2-Dichloroethane	50.0	52.3		ug/L		105	68 - 127
1,1-Dichloroethene	50.0	46.7		ug/L		93	67 - 122
1,2-Dichloropropane	50.0	51.5		ug/L		103	67 - 130
1,3-Dichloropropane	50.0	57.6		ug/L		115	62 - 136
2,2-Dichloropropane	50.0	49.9		ug/L		100	58 - 139
1,1-Dichloropropene	50.0	50.0		ug/L		100	70 - 121
Ethylbenzene	50.0	49.5		ug/L		99	70 - 123
Hexachlorobutadiene	50.0	59.1		ug/L		118	51 - 150
Isopropylbenzene	50.0	56.0		ug/L		112	70 - 126
Methylene Chloride	50.0	49.4		ug/L		99	69 - 125
Methyl tert-butyl ether	50.0	47.7		ug/L		95	55 - 123
Naphthalene	50.0	44.7		ug/L		89	53 - 144
n-Butylbenzene	50.0	52.4		ug/L		105	68 - 125
N-Propylbenzene	50.0	55.5		ug/L		111	69 - 127
p-Isopropyltoluene	50.0	54.1		ug/L		108	70 - 125
sec-Butylbenzene	50.0	54.4		ug/L		109	70 - 123
Styrene	50.0	50.5		ug/L		101	70 - 120
tert-Butylbenzene	50.0	54.3		ug/L		109	70 - 121
1,1,1,2-Tetrachloroethane	50.0	53.8		ug/L		108	70 - 125
1,1,2,2-Tetrachloroethane	50.0	53.5		ug/L		107	62 - 140
Tetrachloroethene	50.0	59.4		ug/L		119	70 - 128
Toluene	50.0	51.4		ug/L		103	70 - 125
trans-1,2-Dichloroethene	50.0	48.0		ug/L		96	70 - 125
trans-1,3-Dichloropropene	50.0	54.0		ug/L		108	62 - 128
1,2,3-Trichlorobenzene	50.0	50.8		ug/L		102	51 - 145
1,2,4-Trichlorobenzene	50.0	53.7		ug/L		107	57 - 137
1,1,1-Trichloroethane	50.0	50.4		ug/L		101	70 - 125
1,1,2-Trichloroethane	50.0	54.7		ug/L		109	71 - 130
Trichloroethene	50.0	50.4		ug/L		101	70 - 125
Trichlorofluoromethane	50.0	48.5		ug/L		97	55 - 128
1,2,3-Trichloropropane	50.0	55.5		ug/L		111	50 - 133
1,2,4-Trimethylbenzene	50.0	52.6		ug/L		105	70 - 123

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

Lab Sample ID: LCS 500-726059/5
Matrix: Water
Analysis Batch: 726059

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trimethylbenzene	50.0	54.1		ug/L		108	70 - 123
Vinyl chloride	50.0	42.7		ug/L		85	64 - 126
Xylenes, Total	100	98.4		ug/L		98	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*
Toluene-d8 (Surr)	*109*		*75 - 120*

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: MW-2005R
Lab Sample ID: 500-237074-1
Date Collected: 07/20/23 08:35
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	725704	W1T	EET CHI	08/01/23 12:21

Client Sample ID: MW-2011
Lab Sample ID: 500-237074-2
Date Collected: 07/20/23 09:20
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	725704	W1T	EET CHI	08/01/23 12:46

Client Sample ID: D-15
Lab Sample ID: 500-237074-3
Date Collected: 07/20/23 09:50
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	725704	W1T	EET CHI	08/01/23 13:11

Client Sample ID: TW-3
Lab Sample ID: 500-237074-4
Date Collected: 07/20/23 10:35
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	725704	W1T	EET CHI	08/01/23 13:36

Client Sample ID: MW-2004
Lab Sample ID: 500-237074-5
Date Collected: 07/20/23 11:10
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	725704	W1T	EET CHI	08/01/23 14:01

Client Sample ID: TW-1
Lab Sample ID: 500-237074-6
Date Collected: 07/20/23 12:00
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	725704	W1T	EET CHI	08/01/23 14:26

Client Sample ID: D-18
Lab Sample ID: 500-237074-7
Date Collected: 07/20/23 13:15
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	725704	W1T	EET CHI	08/01/23 14:51

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: D-25R
Lab Sample ID: 500-237074-8
Date Collected: 07/21/23 09:00
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	725704	W1T	EET CHI	08/01/23 15:16

Client Sample ID: MW-1027
Lab Sample ID: 500-237074-9
Date Collected: 07/21/23 09:40
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	725704	W1T	EET CHI	08/01/23 15:41

Client Sample ID: TW-4
Lab Sample ID: 500-237074-10
Date Collected: 07/21/23 10:25
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	726059	W1T	EET CHI	08/02/23 23:23

Client Sample ID: MW-1026
Lab Sample ID: 500-237074-11
Date Collected: 07/20/23 13:55
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	725704	W1T	EET CHI	08/01/23 16:06

Client Sample ID: EX-2R
Lab Sample ID: 500-237074-12
Date Collected: 07/21/23 11:10
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	725704	W1T	EET CHI	08/01/23 16:31

Client Sample ID: EX-3R
Lab Sample ID: 500-237074-13
Date Collected: 07/21/23 11:20
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	725704	W1T	EET CHI	08/01/23 16:56

Client Sample ID: EX-7R
Lab Sample ID: 500-237074-14
Date Collected: 07/21/23 10:50
Matrix: Water
Date Received: 07/22/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	725704	W1T	EET CHI	08/01/23 17:21

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Client Sample ID: Trip Blank

Date Collected: 07/20/23 00:00
Date Received: 07/22/23 09:50

Lab Sample ID: 500-237074-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	726059	W1T	EET CHI	08/02/23 22:58

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-237074-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Connor Lauzon	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No.: 500-114490-45830 1
Client Contact: Mr Mark Manthey	Phone: (262) 203-1294	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: WI	Page: Page 1 of 2
Company: Tetra Tech GEO	PWSID:	Analysis Requested		Job #: 500-237074

Address: 13555 Bishops Ct Suite 201	Due Date Requested:
City: Brookfield	TAT Requested (days): standard
State Zip: WI 53005	Compliance Project: Δ Yes Δ No
Phone: 262-792-1282(Tel)	PO #:
Email: mark manthey@tetratech com	WO #:
Project Name: Pentair Delavan	Project #: 50006640
Site:	SSOW#:

500-237074 COC

Analysis Requested: Field Filtered Sample (Yes or No); Perform MS/MSD (Yes or No); 8260B VOCs - Wisconsin; PCE, TCE, TCA, Vinyl Chl; Total Number of containers

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

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample	Perform MS/MSD	8260B VOCs - Wisconsin	PCE, TCE, TCA, Vinyl Chl	Total Number of containers	Special Instructions/Note
					Preservation Code:			A			
1	MW-2005R	7/20	8 35	G	Water				X		
2	MW-2011	↓	9 20	↓	Water				↓		
3	D-15	↓	9 50	↓	Water				↓		
4	TW-3	↓	10.35	↓	Water				↓		
5	MW-2004	↓	11.10	↓	Water				↓		
6	TW-1	↓	12 00	↓	Water				↓		
7	D-18	↓	13 15	↓	Water				↓		
8	D-25R	7/21	9 00	↓	Water				↓		
9	MW-1027	↓	9.40	↓	Water				↓		
10	TW-4	↓	10 25	↓	Water			X			
11	MW-1026	7/20	13 55	↓	Water				X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by		Date	Time	Method of Shipment:	
Relinquished by: Connor Lauzon	Date/Time: 7/21/23 13 00	Company: TT	Received by: [signature]	Date/Time: 7/22/23 0950	Company: EETA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.4→2.3

Ver 06/08/2021 8/3/2023

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Connor Larson	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No.: 500-114490-45830 2
Client Contact: Mr Mark Manthey	Phone: (262) 203-1294	E-Mail: Sandra Fredrick@et eurofinsus.com	State of Origin: WI	Page: Page 2 of 2
Company: Tetra Tech GEO	PWSID:	**Analysis Requested**		Job #: 500-237074
Address: 13555 Bishops Ct Suite 201	Due Date Requested:			
City: Brookfield	TAT Requested (days): standard			
State Zip: WI 53005	Compliance Project: Δ Yes Δ No			
Phone: 262-792-1282(Tel)	PO #:			
Email: mark.manthey@tetratech com	WO #:			
Project Name: Pentair Delavan	Project #: 50006640			
Site:	SSOW#:			

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

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs - Wisconsin	PCE, TCE, TCA, Vinyl chl	Total Number of containers	Special Instructions/Note
					Preservation Code:	X	X	A		X	
12	EX-2R	7/21	11:10		Water				X		
13	EX-3R	↓	11:20		Water				X		
14	EX-7R	↓	10:50		Water				X		
15	Trip Blank	—	—	—	Water			X			
					Water						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Connor Larson	7/21/23 1300	TT	[signature]	7/22/23 0950	EETA

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

Ver 06/08/2021 8/3/2023

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-237074-1

Login Number: 237074
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3
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.	False	Containers recd broken. Sufficient sample in remaining containers for analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Manthey
Tetra Tech GEO
13555 Bishops Ct
Suite 201
Brookfield, Wisconsin 53005

Generated 11/13/2023 12:37:11 PM

JOB DESCRIPTION

Pentair Delavan

JOB NUMBER

500-242012-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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 Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization

Generated
11/13/2023 12:37:11 PM

Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Case Narrative

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-242012-1

Job ID: 500-242012-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-242012-1

Receipt
The samples were received on 11/3/2023 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

GC/MS VOA
Method 8260D: The matrix spike duplicate (MSD) for the following sample was analyzed outside the 12 hour tune window. No further action was taken.D-18 (500-242012-3)

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-242012-1

Client Sample ID: TW-1 — Lab Sample ID: 500-242012-1

No Detections.

Client Sample ID: TW-3 — Lab Sample ID: 500-242012-2

No Detections.

Client Sample ID: D-18 — Lab Sample ID: 500-242012-3

No Detections.

Client Sample ID: TB-1 — Lab Sample ID: 500-242012-4

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-242012-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-242012-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-242012-1	TW-1	Water	11/01/23 10:45	11/03/23 09:55
500-242012-2	TW-3	Water	11/01/23 11:30	11/03/23 09:55
500-242012-3	D-18	Water	11/01/23 12:00	11/03/23 09:55
500-242012-4	TB-1	Water	11/01/23 00:00	11/03/23 09:55

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-242012-1

Client Sample ID: TW-1
Date Collected: 11/01/23 10:45
Date Received: 11/03/23 09:55

Lab Sample ID: 500-242012-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/08/23 20:05	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/08/23 20:05	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/08/23 20:05	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/08/23 20:05	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/08/23 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*11/08/23 20:05*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*11/08/23 20:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*11/08/23 20:05*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*11/08/23 20:05*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-242012-1

Client Sample ID: TW-3

Date Collected: 11/01/23 11:30
Date Received: 11/03/23 09:55

Lab Sample ID: 500-242012-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/08/23 20:29	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/08/23 20:29	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/08/23 20:29	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/08/23 20:29	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/08/23 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*11/08/23 20:29*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 120*		*11/08/23 20:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*11/08/23 20:29*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*11/08/23 20:29*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-242012-1

Client Sample ID: D-18
Date Collected: 11/01/23 12:00
Date Received: 11/03/23 09:55

Lab Sample ID: 500-242012-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/08/23 20:54	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/08/23 20:54	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/08/23 20:54	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/08/23 20:54	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/08/23 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*11/08/23 20:54*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 120*		*11/08/23 20:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*11/08/23 20:54*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*11/08/23 20:54*	*1*

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-242012-1

Client Sample ID: TB-1

Date Collected: 11/01/23 00:00
Date Received: 11/03/23 09:55

Lab Sample ID: 500-242012-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/08/23 14:18	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/08/23 14:18	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/08/23 14:18	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/08/23 14:18	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/08/23 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*11/08/23 14:18*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*11/08/23 14:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*11/08/23 14:18*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*11/08/23 14:18*	*1*

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-242012-1

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

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-242012-1

GC/MS VOA

Analysis Batch: 741080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242012-1	TW-1	Total/NA	Water	8260D	
500-242012-2	TW-3	Total/NA	Water	8260D	
500-242012-3	D-18	Total/NA	Water	8260D	
500-242012-4	TB-1	Total/NA	Water	8260D	
MB 500-741080/8	Method Blank	Total/NA	Water	8260D	
LCS 500-741080/5	Lab Control Sample	Total/NA	Water	8260D	
500-242012-3 MS	D-18	Total/NA	Water	8260D	
500-242012-3 MSD	D-18	Total/NA	Water	8260D	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-242012-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-242012-1	TW-1	96	99	93	103
500-242012-2	TW-3	95	96	93	107
500-242012-3	D-18	101	96	91	103
500-242012-3 MS	D-18	91	97	88	107
500-242012-3 MSD	D-18	89	97	90	101
500-242012-4	TB-1	98	97	90	104
LCS 500-741080/5	Lab Control Sample	88	97	87	104
MB 500-741080/8	Method Blank	95	98	91	103

Surrogate Legend

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

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

Lab Sample ID: MB 500-741080/8
Matrix: Water
Analysis Batch: 741080

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/08/23 13:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/08/23 13:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/08/23 13:03	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/08/23 13:03	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/08/23 13:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*11/08/23 13:03*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*11/08/23 13:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*11/08/23 13:03*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*11/08/23 13:03*	*1*

Lab Sample ID: LCS 500-741080/5
Matrix: Water
Analysis Batch: 741080

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	44.7		ug/L		89	70 - 125
1,1,2-Trichloroethane	50.0	42.9		ug/L		86	71 - 130
Tetrachloroethene	50.0	57.5		ug/L		115	70 - 128
Trichloroethene	50.0	49.5		ug/L		99	70 - 125
Vinyl chloride	50.0	40.4		ug/L		81	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*
Toluene-d8 (Surr)	*104*		*75 - 120*

Lab Sample ID: 500-242012-3 MS
Matrix: Water
Analysis Batch: 741080

Client Sample ID: D-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	<0.38		50.0	49.2		ug/L		98	70 - 125
1,1,2-Trichloroethane	<0.35		50.0	42.4		ug/L		85	71 - 130
Tetrachloroethene	<0.37		50.0	62.8		ug/L		126	70 - 128
Trichloroethene	<0.16		50.0	51.5		ug/L		103	70 - 125
Vinyl chloride	<0.20		50.0	43.3		ug/L		87	64 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*
Toluene-d8 (Surr)	*107*		*75 - 120*

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

Lab Sample ID: 500-242012-3 MSD
Matrix: Water
Analysis Batch: 741080

Client Sample ID: D-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<0.38		50.0	52.2		ug/L		104	70 - 125	6	20
1,1,2-Trichloroethane	<0.35		50.0	41.1		ug/L		82	71 - 130	3	20
Tetrachloroethene	<0.37		50.0	58.1		ug/L		116	70 - 128	8	20
Trichloroethene	<0.16		50.0	53.6		ug/L		107	70 - 125	4	20
Vinyl chloride	<0.20		50.0	46.2		ug/L		92	64 - 126	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-242012-1

Client Sample ID: TW-1
Date Collected: 11/01/23 10:45
Date Received: 11/03/23 09:55

Lab Sample ID: 500-242012-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	741080	W1T	EET CHI	11/08/23 20:05

Client Sample ID: TW-3
Date Collected: 11/01/23 11:30
Date Received: 11/03/23 09:55

Lab Sample ID: 500-242012-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	741080	W1T	EET CHI	11/08/23 20:29

Client Sample ID: D-18
Date Collected: 11/01/23 12:00
Date Received: 11/03/23 09:55

Lab Sample ID: 500-242012-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	741080	W1T	EET CHI	11/08/23 20:54

Client Sample ID: TB-1
Date Collected: 11/01/23 00:00
Date Received: 11/03/23 09:55

Lab Sample ID: 500-242012-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	741080	W1T	EET CHI	11/08/23 14:18

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Pentair Delavan

Job ID: 500-242012-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534 5211

Chain of Custody Record

eurofins

Client Information	Sampler: Connor Lawson	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-118063-27960 1
Client Contact: Mr Mark Manthey	Phone: (262) 203 1294	E Mail: Sandra Fredrick@et eurofinsus com	State of Origin:	Page: Page 1 of 1
Company: Tetra Tech GEO	PWSID:			Job #: 500-24201 2

Address: 13555 Bishops Ct Suite 201	Due Date Requested:	Analysis Requested
City: Brookfield	TAT Requested (days): standard	
State Zip: WI 53005	Compliance Project: Δ Yes Δ No	
Phone: 262-792 1282(Tel)	PO #:	
Email: mark manthey@tetratech com	WO #:	
Project Name: Pentair Delavan	Project #: 50006640	
Site:	SSOW#:	

500-242012 COC

Preservation Codes

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

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOC-Short list	Total Number of containers	Special Instructions/Note
				Preservation Code:				A		
1	TW-1	11/1	10.45	G	Water	N	N	X		
2	TW-3	↓	11.30	↓	Water	N	N	X		
3	D-18	↓	12.00	↓	Water	N	N	X		
4	TB-1	—	—	—	Water	-	-	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested I II, III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Connor Lawson	11/2/23 12.00	Tetra Tech		11/2/23 1200	Eurofins
2		11/2/23 1700	Eurofins		11/3/23 0955	EDA
3		Date/Time	Company		Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.	Ver 06/08/2021
		1.9→1.6	

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-242012-1

Login Number: 242012
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

WASTEWATER DISCHARGE MONITORING SHORT REPORTS AND STORM SEWER OUTFALL SS-1 ANALYTICAL RESULTS

Wastewater Discharge Monitoring Short Report

For DNR Use Only

Facility Name : PENTAIR FLOW TECHNOLOGIES LLC
Contact Address : 293 S Wright St
Delavan, WI 53115
Facility Contact : Maxwell Geyer, EH&S Specialist
Phone Number : 262-728-7408
Reporting Period : 01/01/2023 - 03/31/2023
Form Due Date : 04/21/2023
Permit Number : **0046566**

Date Received:	
DOC:	511854
FIN:	7072
FID:	265010900
Region:	Southeast Region
Permit Drafter:	Drafter not set
Reviewer:	Nicholas M Lent
Office:	Milwaukee

Sample Point	Parameter #	Parameter	Date Sample	Sample Type	Sample Results	Units	Limit Type	Limit	LOD	LOQ	QC Exceed?	Lab Certification
001	377	pH Field	03/14/2023	GRAB	7.61	su	Daily Max Daily Min	9(0) 6(0)			N	
001	457	Suspended Solids, Total	03/14/2023	GRAB	2.4	mg/L	Daily Max	40(0)	2.3	6.0	Y	999580010
001	490	Tetrachloroethylene	03/14/2023	GRAB	0.40	ug/L	Monthly Avg	50(0)	0.37	1.0	Y	999580010
001	561	1,1,1-Trichloro- ethane	03/14/2023	GRAB	<0.38	ug/L	Monthly Avg	50(0)	0.38	1.0	N	999580010
001	508	Trichloro- ethylene	03/14/2023	GRAB	0.31	ug/L	Monthly Avg	50(0)	0.16	0.50	Y	999580010
001	517	Vinyl chloride	03/14/2023	GRAB	<0.20	ug/L	Monthly Avg	10(0)	0.20	1.0	N	999580010

Wastewater Discharge Monitoring Short Report

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

J: Result is less than the LOQ but greater than or equal to the LOD and the concentration is an approximate value.

Submitted by Mark Manthey(mmanthey) on 4/20/2023 3:59:40 PM

GEOTRANS, INC. FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	HI 98129
PROJECT NO.	Delavan Well #4 WPDES	Conductivity	HI 98129
LOCATION	Delavan, WI	ORP	
PERSONNEL	Dennis	DO	

SAMPLE POINT		SS-1	SS-1	SS-1	SS-1	SS-1
WATER TYPE		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)		3/14/23				
CLOCK TIME (Military)		1038				
DEPTH TO WATER (ft)*		NA	NA	NA	NA	NA
MEASURED WELL DEPTH (ft)*		NA	NA	NA	NA	NA
CASING VOLUME (gallons)		NA	NA	NA	NA	NA
PURGE VOLUME (gallons)		NA	NA	NA	NA	NA
DEPTH SAMPLE TAKEN (ft)*		NA	NA	NA	NA	NA
SAMPLING DEVICE		HI98129				
FIELD TEMPERATURE (°C)		11.3				
pH		7.61				
ELEC. COND. (uS/cm)	Measured	1558				
	at 25° C					
ORP (mV)		NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)		NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)		NA	NA	NA	NA	NA
COLOR		CLEAR				
ODOR		None				
CLARITY		CLEAR				

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
TCE, 1,1,1-TCA, 1,1,2-TCA, PCE, Vinyl Chloride (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.

Comments: TCE = Trichloroethene. TCA = Trichloroethane. PCE = Tetrachloroethene.

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB	3/15/23				
SAMPLER'S NAME	Dennis				

*Measured from top of well casing.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dennis Schwind
Pentair Water
293 Wright Street
Delavan, Wisconsin 53115

Generated 3/30/2023 9:56:18 AM

JOB DESCRIPTION

Pentair - SS1 Quarterly

JOB NUMBER

500-230843-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

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Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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 Chicago Project Manager.

Authorization

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3/30/2023 9:56:18 AM

Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Definitions/Glossary

Client: Pentair Water
Job ID: 500-230843-1
Project/Site: Pentair - SS1 Quarterly

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.

General Chemistry

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

Glossary

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

Case Narrative

Client: Pentair Water
Project/Site: Pentair - SS1 Quarterly

Job ID: 500-230843-1

Job ID: 500-230843-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-230843-1

Comments
No additional comments.

Receipt
The samples were received on 3/16/2023 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

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

General Chemistry
Method SM 2540D: Elevated reporting limits are provided for the following sample due to insufficient sample provided for Total Suspended Solids preparation/analysis: SS1 (500-230843-1).

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

Client Sample Results

Client: Pentair Water
Project/Site: Pentair - SS1 Quarterly

Job ID: 500-230843-1

Client Sample ID: SS1

Date Collected: 03/14/23 10:38
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230843-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/24/23 14:46	1
Tetrachloroethene	**0.40**	**J**	1.0	0.37	ug/L			03/24/23 14:46	1
Trichloroethene	**0.31**	**J**	0.50	0.16	ug/L			03/24/23 14:46	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/24/23 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*03/24/23 14:46*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*03/24/23 14:46*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 120*		*03/24/23 14:46*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*03/24/23 14:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	**2.4**	**J**	6.0	2.3	mg/L			03/21/23 15:41	1

Client: Pentair Water
Project/Site: Pentair - SS1 Quarterly

Job ID: 500-230843-1

Client Sample ID: Trip Blank

Date Collected: 03/14/23 00:00
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230843-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/24/23 15:12	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/24/23 15:12	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/24/23 15:12	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/24/23 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*03/24/23 15:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*03/24/23 15:12*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 120*		*03/24/23 15:12*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*03/24/23 15:12*	*1*

Lab Chronicle

Client: Pentair Water
Project/Site: Pentair - SS1 Quarterly

Job ID: 500-230843-1

Client Sample ID: SS1

Lab Sample ID: 500-230843-1

Date Collected: 03/14/23 10:38

Matrix: Water

Date Received: 03/16/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	704068	AJP	EET CHI	03/24/23 14:46
Total/NA	Analysis	SM 2540D		1	703539	MB	EET CHI	03/21/23 15:41 - 03/21/23 15:45 [1]

Client Sample ID: Trip Blank

Lab Sample ID: 500-230843-2

Date Collected: 03/14/23 00:00

Matrix: Water

Date Received: 03/16/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	704068	AJP	EET CHI	03/24/23 15:12

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Accreditation/Certification Summary

Client: Pentair Water
Job ID: 500-230843-1
Project/Site: Pentair - SS1 Quarterly

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Method Summary

Client: Pentair Water
Project/Site: Pentair - SS1 Quarterly

Job ID: 500-230843-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

Sample Summary

Client: Pentair Water
Project/Site: Pentair - SS1 Quarterly

Job ID: 500-230843-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-230843-1	SS1	Water	03/14/23 10:38	03/16/23 09:40
500-230843-2	Trip Blank	Water	03/14/23 00:00	03/16/23 09:40

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

500-230843 COC

eurofins

Client Information	Sampler: Dennis	Lab PM: Fredrick Sandie	COC No: 500-109853-25416 1
Client Contact: Dennis Schwind	Phone: 262 728-[redacted]7225	E-Mail: Sandra Fredrick@et.eurofinsus.com	Page: Page 1 of 1
Company: Pentair Water	PWSID:		Job #: 500-230843
Address: 293 Wright Street	Due Date Requested:		
City: Delavan	TAT Requested (days):		
State, Zip: WI 53115	Compliance Project: Δ Yes Δ No		
Phone:	PO #: Purchase Order not required		
Email: dennis schwind@PENTAIR COM	WO #:		
Project Name: Pentair - SS1 Quarterly	Project #: 50006669		
Site: Delavan WI	SSOW#:		

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TCE	TCA	PCE	Vinyl Chloride	TSS	Total Number of containers	Special Instructions/Note
			Preservation Code:										
1 SS1	03/14/23	1038	G	Water	N		2	0	1	0	Y		
2 Trip Blank				Water									

Possible Hazard Identification
Non-Hazard, Flammable, Skin Irritant, Poison B, Unknown, Radiological

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Dennis	3/15/22 1030	Pentair		3/16/23 0940	
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks: 1.8 - 2.2

500-230843 Waybi

ORIGIN ID:RRLA (262) 202-5955
DENNIS SCHWIND
PENTAIR WATER
293 WRIGHT ST.

DELAVAN, WI 53115
UNITED STATES US

SHIP DATE: 18JAN23
ACTWGT: 15.00 LB MAN
CAD: 0269688/CAFE3616

TO SAMPLE RECIEPT
EUROFINS CHICAGO
2417 BOND STREET

UNIVERSITY PARK IL 60484
(708) 534-5200
INV.
PO: REF
DEPT:

RMA

FedEx Express

FedEx

TRK# 0221 6283 9315 4111

THU - 16 MAR AA
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US
ORD

16 Q+

Login Sample Receipt Checklist

Client: Pentair Water

Job Number: 500-230843-1
SDG Number:

Login Number: 230843
List Number: 1
Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Wastewater Discharge Monitoring Short Report

For DNR Use Only

Facility Name : PENTAIR FLOW TECHNOLOGIES LLC
Contact Address : □□
□□ , □□
Facility Contact : , □□
Phone Number : □□
Reporting Period : 04/01/2023 - 06/30/2023
Form Due Date : 07/21/2023
Permit Number : **0046566**

Date Received:	
DOC:	519293
FIN:	7072
FID:	265010900
Region:	Southeast Region
Permit Drafter:	Drafter not set
Reviewer:	Nicholas M Lent
Office:	Milwaukee

Sample Point	Parameter #	Parameter	Date Sample	Sample Type	Sample Results	Units	Limit Type	Limit	LOD	LOQ	QC Exceed?	Lab Certification
001	377	pH Field	06/07/2023	GRAB	7.48	su	Daily Max Daily Min	9(0) 6(0)			N	
001	457	Suspended Solids, Total	06/07/2023	GRAB	<2.0	mg/L	Daily Max	40(0)	2.0	5.2	N	999580010
001	490	Tetrachloroethylene	06/07/2023	GRAB	0.97	ug/L	Monthly Avg	50(0)	0.37	1.0	Y	999580010
001	561	1,1,1-Trichloro- ethane	06/07/2023	GRAB	<0.38	ug/L	Monthly Avg	50(0)	0.38	1.0	N	999580010
001	508	Trichloro- ethylene	06/07/2023	GRAB	0.61	ug/L	Monthly Avg	50(0)	0.16	0.51	N	999580010
001	517	Vinyl chloride	06/07/2023	GRAB	<0.20	ug/L	Monthly Avg	10(0)	0.20	1.0	N	999580010

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

LCS and/or LCSD is outside acceptance limits, high biased.
Compound was found in the blank and sample.
Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Submitted by Mark Manthey(mmanthey) on 7/19/2023 2:50:06 PM

GEOTRANS, INC. FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	HI 98129
PROJECT NO.	Delavan Well #4	Conductivity	HI 98129
LOCATION	Delavan, WI	ORP	
PERSONNEL	Dennis	DO	

SAMPLE POINT		SS-1	SS-1	SS-1	SS-1	SS-1
WATER TYPE		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)		6/7/23				
CLOCK TIME (Military)		1045				
DEPTH TO WATER (ft)*		NA	NA	NA	NA	NA
MEASURED WELL DEPTH (ft)*		NA	NA	NA	NA	NA
CASING VOLUME (gallons)		NA	NA	NA	NA	NA
PURGE VOLUME (gallons)		NA	NA	NA	NA	NA
DEPTH SAMPLE TAKEN (ft)*		NA	NA	NA	NA	NA
SAMPLING DEVICE		HI 98129				
FIELD TEMPERATURE (°C)		15.1				
pH		7.48				
ELEC. COND. (uS/cm)	Measured at 25° C	15.22				
ORP (mV)		NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)		NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)		NA	NA	NA	NA	NA
COLOR		Clear				
ODOR		None				
CLARITY		Clear				

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
TCE, 1,1,1-TCA, 1,1,2-TCA, PCE, Vinyl Chloride (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.

Comments: TCE = Trichloroethene. TCA = Trichloroethane. PCE = Tetrachloroethene.

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB	6/7/23				
SAMPLER'S NAME	Dennis				

*Measured from top of well casing.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dennis Schwind
Pentair Water
293 Wright Street
Delavan, Wisconsin 53115

Generated 6/20/2023 1:20:27 PM

JOB DESCRIPTION

Delavan Well #4 WPDES

JOB NUMBER

500-234991-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

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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 Chicago Project Manager.

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Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Definitions/Glossary

Client: Pentair Water
Job ID: 500-234991-1
Project/Site: Delavan Well #4 WPDES

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
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

Job ID: 500-234991-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-234991-1

Receipt
The samples were received on 6/8/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for analytical batch 500-718713 recovered outside control limits for the following analytes: Tetrachloroethene. These analytes were biased high in the LCS and were not detected above the reporting limit in the associated samples; therefore, the data have been reported.

Method 8260B: The method blank for preparation batch 718713 contained Tetrachloroethene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound above the reporting limit; therefore, re-extraction and/or re-analysis of samples were not performed.

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

General Chemistry
Method SM 2540D: Elevated reporting limit is provided for the following sample due to insufficient sample provided for analysis: SS1 (500-234991-1).

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

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-234991-1

Client Sample ID: SS1

Date Collected: 06/07/23 00:00
Date Received: 06/08/23 09:50

Lab Sample ID: 500-234991-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/15/23 17:31	1
Tetrachloroethene	**0.97**	**J B *+**	1.0	0.37	ug/L			06/15/23 17:31	1
Trichloroethene	**0.61**		0.50	0.16	ug/L			06/15/23 17:31	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/15/23 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*06/15/23 17:31*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*06/15/23 17:31*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*06/15/23 17:31*	*1*
Toluene-d8 (Surr)	*97*		*75 - 120*		*06/15/23 17:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	<2.0		5.2	2.0	mg/L			06/10/23 09:32	1

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-234991-1

Client Sample ID: Trip Blank

Date Collected: 06/07/23 00:00
Date Received: 06/08/23 09:50

Lab Sample ID: 500-234991-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/15/23 17:05	1
Tetrachloroethene	**0.54**	**J B *+**	1.0	0.37	ug/L			06/15/23 17:05	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/15/23 17:05	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/15/23 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*06/15/23 17:05*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*06/15/23 17:05*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 120*		*06/15/23 17:05*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*06/15/23 17:05*	*1*

Lab Chronicle

Client: Pentair Water
Job ID: 500-234991-1
Project/Site: Delavan Well #4 WPDES

Client Sample ID: SS1
Lab Sample ID: 500-234991-1
Date Collected: 06/07/23 00:00
Matrix: Water
Date Received: 06/08/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	718713	W1T	EET CHI	06/15/23 17:31
Total/NA	Analysis	SM 2540D		1	717902	MB	EET CHI	06/10/23 09:32 - 06/10/23 09:35 [1]

Client Sample ID: Trip Blank
Lab Sample ID: 500-234991-2
Date Collected: 06/07/23 00:00
Matrix: Water
Date Received: 06/08/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	718713	W1T	EET CHI	06/15/23 17:05

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Accreditation/Certification Summary

Client: Pentair Water
Job ID: 500-234991-1
Project/Site: Delavan Well #4 WPDES

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Method Summary

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-234991-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

Sample Summary

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-234991-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-234991-1	SS1	Water	06/07/23 00:00	06/08/23 09:50
500-234991-2	Trip Blank	Water	06/07/23 00:00	06/08/23 09:50

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone. 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Dennis	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-109162-25416 1
Client Contact: Dennis Schwind	Phone: 262 728 5551	E-Mail: Sandra Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Pentair Water	PWSID:	Analysis Requested		Job #: 500-234991
Address: 293 Wright Street	Due Date Requested			Preservation Codes: A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F - MeOH, G - Amchlor, H Ascorbic Acid, I - Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R - Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify), Other:
City: Delavan	TAT Requested (days)			
State, Zip: WI, 53115	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: dennis.schwind@PENTAIR.COM	WO #:			
Project Name: Pentair - SS1 Quarterly	Project #: 50006669			
Site:	SSOW#:			

500-234991 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TCE	TCA	PCE	Vinyl Chloride	TSS	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
1 SS1			G	Water			X	X	X	X	X		
2 Trip Blank				Water									

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested I, II, III IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Dennis Schwind	June 7, 23 1115	Pentair	[illegible]	6/8/23 0950	EEA
Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks. 3.1-73.0

500-234991 Waybi

6/20/2023

Login Sample Receipt Checklist

Client: Pentair Water

Job Number: 500-234991-1

Login Number: 234991
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Wastewater Discharge Monitoring Short Report

For DNR Use Only

Facility Name : PENTAIR FLOW TECHNOLOGIES LLC
Contact Address : □□
□□ , □□
Facility Contact : , □□
Phone Number : □□
Reporting Period : 07/01/2023 - 09/30/2023
Form Due Date : 10/21/2023
Permit Number : **0046566**

Date Received:	
DOC:	526686
FIN:	7072
FID:	265010900
Region:	Southeast Region
Permit Drafter:	Drafter not set
Reviewer:	Nicholas M Lent
Office:	Milwaukee

Sample Point	Parameter #	Parameter	Date Sample	Sample Type	Sample Results	Units	Limit Type	Limit	LOD	LOQ	QC Exceed?	Lab Certification
001	377	pH Field	08/21/2023	GRAB	7.44	su	Daily Max Daily Min	9(0) 6(0)			N	
001	457	Suspended Solids, Total	08/21/2023	GRAB	<1.9	mg/L	Daily Max	40(0)	1.9	5.0	N	999580010
001	490	Tetrachloroethylene	08/21/2023	GRAB	<0.37	ug/L	Monthly Avg	50(0)	0.37	1.0	N	999580010
001	561	1,1,1-Trichloro- ethane	08/21/2023	GRAB	<0.38	ug/L	Monthly Avg	50(0)	0.38	1.0	N	999580010
001	508	Trichloro- ethylene	08/21/2023	GRAB	0.35	ug/L	Monthly Avg	50(0)	0.16	0.50	Y	999580010
001	517	Vinyl chloride	08/21/2023	GRAB	<0.20	ug/L	Monthly Avg	10(0)	0.20	1.0	N	999580010

Wastewater Discharge Monitoring Short Report

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

J: Result is less than the LOQ but greater than or equal to the LOD and the concentration is an approximate value.

Submitted by Mark Manthey(mmanthey) on 10/20/2023 2:45:39 PM

GEOTRANS, INC. FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	HI98129
PROJECT NO.	Delavan Well #4 WPDES	Conductivity	HI98129
LOCATION	Delavan, WI	ORP	
PERSONNEL	Dennis	DO	

SAMPLE POINT	SS-1	SS-1	SS-1	SS-1	SS-1
WATER TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)	8/2/23				
CLOCK TIME (Military)	0915				
DEPTH TO WATER (ft)*	NA	NA	NA	NA	NA
MEASURED WELL DEPTH (ft)*	NA	NA	NA	NA	NA
CASING VOLUME (gallons)	NA	NA	NA	NA	NA
PURGE VOLUME (gallons)	NA	NA	NA	NA	NA
DEPTH SAMPLE TAKEN (ft)*	NA	NA	NA	NA	NA
SAMPLING DEVICE	HI98129				
FIELD TEMPERATURE (°C)	15.2				
pH	7.44				
ELEC. COND. (uS/cm) Measured at 25° C	1673				
ORP (mV)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)	NA	NA	NA	NA	NA
COLOR	Clear				
ODOR	None				
CLARITY	Clear				

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
TCE, 1,1,1-TCA, 1,1,2-TCA, PCE, Vinyl Chloride (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.

Comments: TCE = Trichloroethene. TCA = Trichloroethane. PCE = Tetrachloroethene.

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB	8/21/23				
SAMPLER'S NAME	Dennis				

*Measured from top of well casing.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Dennis Schwind
Pentair Water
293 Wright Street
Delavan, Wisconsin 53115

Generated 8/30/2023 1:23:33 PM

JOB DESCRIPTION

Pentair - SS1 Quarterly

JOB NUMBER

500-238482-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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 Chicago Project Manager.

Authorization

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8/30/2023 1:23:33 PM

Authorized for release by
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Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Definitions/Glossary

Client: Pentair Water
Job ID: 500-238482-1
Project/Site: Pentair - SS1 Quarterly

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.

Glossary

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CNF	Contains No Free Liquid
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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
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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

Case Narrative

Client: Pentair Water
Project/Site: Pentair - SS1 Quarterly

Job ID: 500-238482-1

Job ID: 500-238482-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-238482-1

Receipt
The samples were received on 8/22/2023 10:10 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 was 5.3º C.

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

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

Client: Pentair Water
Project/Site: Pentair - SS1 Quarterly

Job ID: 500-238482-1

Client Sample ID: SS1

Date Collected: 08/21/23 09:15
Date Received: 08/22/23 10:10

Lab Sample ID: 500-238482-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/24/23 13:06	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/24/23 13:06	1
Trichloroethene	**0.35**	**J**	0.50	0.16	ug/L			08/24/23 13:06	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/24/23 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*08/24/23 13:06*	*1*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*08/24/23 13:06*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 120*		*08/24/23 13:06*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*08/24/23 13:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			08/23/23 12:47	1

Client: Pentair Water
Project/Site: Pentair - SS1 Quarterly

Job ID: 500-238482-1

Client Sample ID: Trip Blank

Date Collected: 08/21/23 00:00
Date Received: 08/22/23 10:10

Lab Sample ID: 500-238482-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/24/23 11:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/24/23 11:30	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/24/23 11:30	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/24/23 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*08/24/23 11:30*	*1*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*		*08/24/23 11:30*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*08/24/23 11:30*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*08/24/23 11:30*	*1*

Lab Chronicle

Client: Pentair Water
Project/Site: Pentair - SS1 Quarterly

Job ID: 500-238482-1

Client Sample ID: SS1

Lab Sample ID: 500-238482-1

Date Collected: 08/21/23 09:15

Matrix: Water

Date Received: 08/22/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	729225	W1T	EET CHI	08/24/23 13:06
Total/NA	Analysis	SM 2540D		1	729100	SO	EET CHI	08/23/23 12:47 - 08/23/23 12:52 [1]

Client Sample ID: Trip Blank

Lab Sample ID: 500-238482-2

Date Collected: 08/21/23 00:00

Matrix: Water

Date Received: 08/22/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	729225	W1T	EET CHI	08/24/23 11:30

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Accreditation/Certification Summary

Client: Pentair Water
Job ID: 500-238482-1
Project/Site: Pentair - SS1 Quarterly

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Method Summary

Client: Pentair Water
Project/Site: Pentair - SS1 Quarterly

Job ID: 500-238482-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

Sample Summary

Client: Pentair Water
Project/Site: Pentair - SS1 Quarterly

Job ID: 500-238482-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-238482-1	SS1	Water	08/21/23 09:15	08/22/23 10:10
500-238482-2	Trip Blank	Water	08/21/23 00:00	08/22/23 10:10

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax. 708-534-5211

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Dennis	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-109163-25416 1
Client Contact: Dennis Schwind	Phone: 262-728-5551	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Pentair Water	PWSID:			Job #: 500-238482

Address: 293 Wright Street	Due Date Requested:
City: Delavan	TAT Requested (days):
State, Zip: WI, 53115	Compliance Project: Δ Yes Δ No
Phone:	PO #: Purchase Order not required
Email: dennis.schwind@PENTAIR.COM	WO #:
Project Name: Pentair - SS1 Quarterly	Project #: 50006669
Site:	SSOW#:

Analysis Requested: TCE, TCA, PCE, Vinyl Chloride, TSS

500-238482 COC

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

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TCE	TCA	PCE	Vinyl Chloride	TSS	Total Number of containers	Special Instructions/Note
					Preservation Code:									
1	SS 1	8/21/23	0915	G	Water			X	X	X	X	X		
					Water									
2	Trip Blank													

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I II III IV Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Dennis Schwind	Date/Time:	Company:	Received by: [signature]	Date/Time: 8/22/23 1010	Company: EETA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 5.7 → 5.3

Ver: 06/08/2021

ORIGIN ID:RRLA (262) 202-5955
DENNIS SCHWIND
PENTAIR WATER
293 WRIGHT ST

DELAVAN, WI 53115
UNITED STATES US

SHIP DATE: 28JUN23
ACTWGT: 15.00 LB MAN
CAD: 0269688/CAFE3707

TO SAMPLE RECIEPT
EUROFINS CHICAGO
2417 BOND STREET

UNIVERSITY PARK IL 60484
(708) 534-5200 REF
INV:
PO: DEPT

RMA

FedEx Express

TRK# 0221 6483 4234 0155

RETURNS MON-SAT
PRIORITY OVERNIGHT

FedEx
TRK# 0221 6483 4234 0155

TUE - 22 AUG AA
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US
ORD

91132 21Aug2023 JVLA 581G5/7584/C0B8

500-238482 Waybi

16qt

Login Sample Receipt Checklist

Client: Pentair Water

Job Number: 500-238482-1
SDG Number:

Login Number: 238482
List Number: 1
Creator: Schmidt, Kara

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Wastewater Discharge Monitoring Short Report

For DNR Use Only

Facility Name : PENTAIR FLOW TECHNOLOGIES LLC
Contact Address : □□
□□ , □□
Facility Contact : , □□
Phone Number : □□
Reporting Period : 10/01/2023 - 12/31/2023
Form Due Date : 01/21/2024
Permit Number : **0046566**

Date Received:	
DOC:	532793
FIN:	7072
FID:	265010900
Region:	Southeast Region
Permit Drafter:	Drafter not set
Reviewer:	Nicholas M Lent
Office:	Milwaukee

Sample Point	Parameter #	Parameter	Date Sample	Sample Type	Sample Results	Units	Limit Type	Limit	LOD	LOQ	QC Exceed?	Lab Certification
001	377	pH Field	12/11/2023	GRAB	7.85	su	Daily Max Daily Min	9(0) 6(0)			N	
001	457	Suspended Solids, Total	12/11/2023	GRAB	<1.9	mg/L	Daily Max	40(0)	1.9	5.0	N	999580010
001	490	Tetrachloroethylene	12/11/2023	GRAB	<0.37	ug/L	Monthly Avg	50(0)	0.37	1.0	N	999580010
001	561	1,1,1-Trichloro- ethane	12/11/2023	GRAB	<0.38	ug/L	Monthly Avg	50(0)	0.38	1.0	N	999580010
001	508	Trichloro- ethylene	12/11/2023	GRAB	0.28	ug/L	Monthly Avg	50(0)	0.16	0.50	Y	999580010
001	517	Vinyl chloride	12/11/2023	GRAB	<0.20	ug/L	Monthly Avg	10(0)	0.20	1.0	N	999580010

Wastewater Discharge Monitoring Short Report

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

J: Result is less than the LOQ but greater than or equal to the LOD and the concentration is an approximate value.

Submitted by Mark Manthey(mmanthey) on 1/17/2024 4:43:39 PM

GEOTRANS, INC. FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Delavan Facility Remedial Action	Temp. & pH	HI98129
PROJECT NO.	Delavan Well #4 WPDES	Conductivity	HI98129
LOCATION	Delavan, WI	ORP	
PERSONNEL	Dennis	DO	

SAMPLE POINT		SS-1	SS-1	SS-1	SS-1	SS-1
WATER TYPE		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)		12/11/23				
CLOCK TIME (Military)		1045				
DEPTH TO WATER (ft)*		NA	NA	NA	NA	NA
MEASURED WELL DEPTH (ft)*		NA	NA	NA	NA	NA
CASING VOLUME (gallons)		NA	NA	NA	NA	NA
PURGE VOLUME (gallons)		NA	NA	NA	NA	NA
DEPTH SAMPLE TAKEN (ft)*		NA	NA	NA	NA	NA
SAMPLING DEVICE		HI98129				
FIELD TEMPERATURE (°C)		12.2				
pH		7.85				
ELEC. COND. (uS/cm)	Measured	1533				
	at 25° C					
ORP (mV)		NA	NA	NA	NA	NA
DISSOLVED OXYGEN (ppm)		NA	NA	NA	NA	NA
DISSOLVED OXYGEN (% Sat.)		NA	NA	NA	NA	NA
COLOR		CLEAR				
ODOR		NONE				
CLARITY		CLEAR				

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
TCE, 1,1,1-TCA, 1,1,2-TCA, PCE, Vinyl Chloride (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.	3 – 40 ml; G; HCl – L; No.

Comments: TCE = Trichloroethene. TCA = Trichloroethane. PCE = Tetrachloroethene.

NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LAB					
SAMPLER'S NAME	Dennis				

*Measured from top of well casing.

GeoTrans

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Dennis Schwind
Pentair Water
293 Wright Street
Delavan, Wisconsin 53115

Generated 12/21/2023 11:23:58 AM

JOB DESCRIPTION

Delavan Well #4 WPDES

JOB NUMBER

500-243813-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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 Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization

Generated
12/21/2023 11:23:58 AM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Definitions/Glossary

Client: Pentair Water
Job ID: 500-243813-1
Project/Site: Delavan Well #4 WPDES

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.

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

Job ID: 500-243813-1 Eurofins Chicago

Job Narrative
500-243813-1

Receipt
The samples were received on 12/13/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2º C.

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

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

Client: Pentair Water
Job ID: 500-243813-1
Project/Site: Delavan Well #4 WPDES

Client Sample ID: SS1
Lab Sample ID: 500-243813-1
Date Collected: 12/11/23 10:45
Matrix: Water
Date Received: 12/13/23 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/15/23 16:45	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/15/23 16:45	1
Trichloroethene	**0.28**	**J**	0.50	0.16	ug/L			12/15/23 16:45	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/15/23 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*		*12/15/23 16:45*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*12/15/23 16:45*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 120*		*12/15/23 16:45*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*12/15/23 16:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	<1.9		5.0	1.9	mg/L			12/15/23 13:41	1

Client: Pentair Water
Job ID: 500-243813-1
Project/Site: Delavan Well #4 WPDES

Client Sample ID: Trip Blank
Lab Sample ID: 500-243813-2
Date Collected: 12/11/23 00:00
Matrix: Water
Date Received: 12/13/23 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/15/23 13:16	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/15/23 13:16	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/15/23 13:16	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/15/23 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*12/15/23 13:16*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*12/15/23 13:16*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 120*		*12/15/23 13:16*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*12/15/23 13:16*	*1*

Lab Chronicle

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-243813-1

Client Sample ID: SS1

Lab Sample ID: 500-243813-1

Date Collected: 12/11/23 10:45

Matrix: Water

Date Received: 12/13/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	746856	LMB	EET CHI	12/15/23 16:45
Total/NA	Analysis	SM 2540D		1	746950	SO	EET CHI	12/15/23 13:41 - 12/15/23 13:43 [1]

Client Sample ID: Trip Blank

Lab Sample ID: 500-243813-2

Date Collected: 12/11/23 00:00

Matrix: Water

Date Received: 12/13/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	746856	LMB	EET CHI	12/15/23 13:16

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Accreditation/Certification Summary

Client: Pentair Water
Job ID: 500-243813-1
Project/Site: Delavan Well #4 WPDES

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

Method Summary

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-243813-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

Sample Summary

Client: Pentair Water
Project/Site: Delavan Well #4 WPDES

Job ID: 500-243813-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-243813-1	SS1	Water	12/11/23 10:45	12/13/23 10:30
500-243813-2	Trip Blank	Water	12/11/23 00:00	12/13/23 10:30

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Dennis	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-109164-25416 1
Client Contact: Dennis Schwind	Phone: 262-728-5551	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin:	Page: Page 1 of 1
Company: Pentair Water	PWSID:			Job #: 500-243813
Address: 293 Wright Street	Due Date Requested:			
City: Delavan	TAT Requested (days):			
State, Zip: WI 53115	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: dennis schwind@PENTAIR COM	WO #:			
Project Name: Pentair - SS1 Quarterly	Project #: 50006669			
Site: Delavan Well #4 WPDES	SSOW#:			

Analysis Requested

500-243813 COC

Preservation Codes

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

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TCE	TCA	PCE	Vinyl Chloride	TSS	Total Number of containers	Special Instructions/Note
	Preservation Code:					N	N							
1	SS1	12/11/23	1045	G	Water	N	N	X	X	X	X	X		
2	Trip Blank				Water									

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested I II, III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Dennis Schwind	12 12-23 10:22	Pentair		12/13/23 1030	EETA
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		1.3 -> 1.2

Login Sample Receipt Checklist

Client: Pentair Water

Job Number: 500-243813-1

Login Number: 243813
List Number: 1
Creator: Schmidt, Kara

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	