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July 27, 2018

Mr. Matt Thompson  
Wisconsin Department of Natural Resources  
1300 W. Clairemont Avenue  
Eau Claire, WI 54701

Subject: 2017 Annual Groundwater Monitoring Report  
BRRTS #02-37-000006  
Wauleco, Inc.  
Wausau, Wisconsin

Dear Mr. Thompson:

On behalf of Wauleco, Inc., TRC Environmental Corporation (TRC) is submitting one copy of the 2017 Annual Groundwater Monitoring Report for the Wauleco, Inc. site in Wausau, Wisconsin. This report includes the results of sampling and laboratory analysis for the semi-annual (winter and summer) groundwater monitoring events at the Wauleco site.

If you have any questions or comments regarding this information, please call.

Sincerely,

TRC Environmental Corporation

  
Ken Quinn  
Senior Hydrogeologist

  
Bruce Iverson  
Project Manager

Enclosure: 2017 Annual Groundwater Monitoring Report (1 copy)

cc: Evan Schreiner – Wauleco (3 copies)  
Tom Dushek – TRC, Wauleco (1 copy)  
David Crass – Michael, Best & Friedrich, L.L.P. (1 copy)

**2017 ANNUAL GROUNDWATER MONITORING REPORT**

**WAULECO, INC.  
WAUSAU FACILITY  
WAUSAU, WISCONSIN**

**July 2018**

**Prepared For:  
Wauleco, Inc.  
Wausau, Wisconsin**

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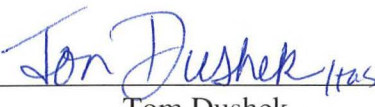
**Prepared By:  
TRC, Inc.  
Madison, Wisconsin**


**Project No. 189597**


**2017 ANNUAL GROUNDWATER MONITORING REPORT**

**WAULECO, INC.  
WAUSAU FACILITY  
WAUSAU, WISCONSIN**

**July 2018**

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# **2017 ANNUAL GROUNDWATER MONITORING REPORT**

## **WAULECO, INC. WAUSAU FACILITY**

### **INTRODUCTION**

This 2017 Annual Groundwater Monitoring Report presents a summary of the groundwater quality data collected from the Wauleco, Inc. facility in Wausau, Wisconsin (see Drawing 1). The focus of this report is on groundwater quality data collected through the year and analyses from groundwater samples collected during the semi-annual rounds (winter and summer) for 2017. For comparison purposes, this report includes historical groundwater data collected at the site since January 1987.

### **BACKGROUND**

Periodic groundwater sampling has been conducted and recorded at the Wauleco Wausau facility since January 1987. A formal Groundwater Monitoring Plan (GMP) was prepared for the site in January 1992 and, with slight modifications, the first sampling round conducted under the GMP occurred during February 1992. Since 1992, the following changes have been made to the groundwater extraction and treatment system at the Wauleco property:

- The infiltration gallery was discontinued in 1992.
- Pumping well PW9 was added in 1992 and PW10 through PW16 were added in 1993.
- Eleven new extraction wells (PW17 through PW27) were installed in the fall of 1998 and an additional two extraction wells (PW28 and PW29) were installed near the northern property line in September 1999.
- An upgraded control system, with additional monitoring and control capabilities, was added in 1999.
- In the fall of 2007, four focused pumping wells, FP1, FP2, FP3, and FP4 were installed and added to the system. These wells were started in January 2008. Extraction wells PW9, PW22, PW28, and PW29 were taken off the piping system to make room for the new focused pumping wells.
- In early 2011 it was concluded that mobile product recovery was complete and that the mobile product recovery system should be shut down (see correspondence with Wisconsin Department of Natural Resources (WDNR) in Appendix A). Further, the groundwater recovery pumping rate would be revised to assess what effect it had on groundwater concentrations as part of a long term closure evaluation. The plan agreed upon with the WDNR included:

- Reducing the groundwater extraction system's pumping rate from 40-45 gpm to 22-30 gpm, which is close to the 20 gpm rate used prior to implementation of the enhanced product recovery rate in 1999.
- Monthly water level monitoring and preparation of water table maps for a period of three months and then quarterly to assess seasonal changes. This was extended through October 2012 to measure the effect of the water supply lateral leak (as discussed in more detail in this report under Groundwater Elevations).
- Based on this plan, the reduced pumping approach was implemented on March 2, 2011 by reducing the pumping rate to approximately 29 gpm. The pumping rate was further reduced from approximately 29 gpm to 22 gpm on June 7, 2012. WDNR concurrence was secured before each of these pumping rate reductions were implemented.

In addition to changes in the extraction and treatment system, the following changes have been made to the groundwater monitoring program:

- Monitoring wells W6, W15, W20, W37, and W38 were abandoned in 1993.
- Monitoring well W43 was lost during utility work prior to 1993.
- Monitoring wells W6R, W68A, W68B, W69, and W70B were installed in 1993.
- Groundwater sampling moved from a quarterly basis to a semi-annual basis (summer and winter) in 1997. The wells and parameters included in the semi-annual monitoring program are summarized in Table 1.
- Beginning in January 2010, five groundwater monitoring wells on the 3M site, located north of the Wauleco site, were added to the semi-annual monitoring program for pentachlorophenol (PCP) analysis. Results are listed in the tables in Appendix B2.
- As agreed upon in November 2010, Wauleco continued to remove apparent mobile product using the socks in wells approach, to assess whether product in wells is representative of mobile product on the water table or due to product trapped in the wells.
- A group of eight wells in the spring and nine wells in the fall of 2011, and nine wells in the spring of 2012 were sampled for PCP to determine if the reduced pumping rate had an adverse effect on groundwater concentrations near the site. Results are listed in the tables in Appendix B2.
- With WDNR approval, in July, 2012 VOCs, except naphthalene, were eliminated from the July 2012 groundwater sampling event. Starting in 2013, VOC analysis was limited to naphthalene, 1,2,4 trimethylbenzene, and xylenes.
- With WDNR approval, in 2013 and 2014 (refer to TRC letter dated October 30, 2013 regarding revisions to groundwater monitoring plan, and WDNR approval letter dated March 18, 2014 with conditions), the groundwater monitoring program was changed to

include natural attenuation parameters; dissolved iron and manganese, sulfate, and total organic carbon. Chloride was eliminated, along with nitrite plus nitrate which was replaced with nitrate. Wells W14 and W69 were eliminated, and wells FP2 and PW17 were added. 3M wells DFOMW9 and DFOMW10A were also eliminated and abandoned in 2015.

- In 2015, monitoring wells PW2 and W70B, that were located within the footprint of the Soil Mound, were abandoned during Soil Mound removal activities. Well Sealing Reports (i.e., abandonment forms) for these two wells were submitted to the WDNR in the TRC document titled “Soil Mound Removal Documentation” dated December 1, 2015. Additional monitoring wells W71, W72, W73, and W74 were installed to provide additional information concerning water elevations and water quality to the south and west of the Wauleco site. Boring and Well Construction Logs for these four new wells were submitted to the WDNR in the TRC document titled “Groundwater Quality Data Memo” dated October 22, 2015.
- In 2015, monthly water level monitoring and quarterly water table map preparation was discontinued as recommended in the TRC document titled “2014 Annual Groundwater Report” dated April 2015. Beginning in 2015, quarterly water level monitoring and semi-annual water table map preparation was performed.
- The Groundwater Monitoring Report is submitted on an annual basis following completion of the year.

The term “free product” has historically been used in this project to describe the light, non-aqueous phase liquid (LNAPL) that could move into a monitoring well or extraction well. In this report the term “free product” is being replaced by “mobile product.” The term “mobile product” is limited to the observation that the LNAPL has moved into a monitoring well or extraction well. Use of the term does not suggest that the product is migrating on a larger scale.

## SAMPLING EVENT SUMMARY

This report provides a presentation and interpretation of data collected at Wauleco beginning in 1987 and continuing through December 2017. Sampling activities since 1992 have been conducted in general accordance with Wauleco’s Groundwater Monitoring Plan and the WDNR’s conditional approvals. During each sampling event, water levels and product thickness measurements were first recorded, followed by the purging of each well sampled. Groundwater monitoring wells sampled during 2017 are summarized in Table 1. The locations of the groundwater monitoring wells and extraction wells are shown on Drawing 2. The wells sampled during the first (January) and second (July) semi-annual round are summarized in Table 2. No wells planned to be sampled contained mobile product, so groundwater quality samples were collected from all planned wells. Groundwater elevation measurements collected during the January 9, and July 7, 2017 rounds are included in Table 3. Groundwater elevations collected during the Lake Wausau drawdown period are included in Table 4.



Groundwater samples were submitted as appropriate for laboratory analysis of; nitrate (Method EPA 9056A); dissolved mercury (Method EPA 7470A); dissolved iron and manganese (Method EPA 6010C); sulfate (Method EPA 9056A); total organic carbon (Method EPA 9060A); naphthalene (EPA Method 8020A); phenolic compounds (Method EPA 8270D); volatile organic compounds (VOC's) (Method EPA 8020A); and total petroleum hydrocarbons (TPH) (Method EPA 8015). A summary of the January and July, 2017 groundwater analytical results is provided in Tables 5a and 5b, respectively; and laboratory reports are included in Appendices D1 and D2, respectively.

## PRESENTATION OF RESULTS

Discussions of the following data are presented in the subsections below:

- Groundwater Elevations
- Apparent Product Thickness
- Product Recovery
- Dissolved PCP Recovery
- Total PCP Recovered
- Groundwater Quality

### Groundwater Elevations

Figure 1 shows the historic groundwater elevation at this site as the average water level deviation<sup>1</sup>. As shown on Figure 1, the groundwater elevation has generally risen throughout 2009 and 2010, and by July 2010 the groundwater elevation was at an average water level deviation of >1.0 ft. The groundwater elevation spiked up to an average water level deviation of 4.85 ft in June 2011 due to a major leak in the City of Wausau's (City) water supply lateral near the intersection of Thomas Street and Cleveland Avenue. This leak was repaired in late June 2011 and then the average water level deviation dropped to 0.83 ft. in December 2011. The groundwater elevation in 2012 returned to a normal pattern and was at an average water level deviation between 0.0 and 1.0 ft. In 2013, the groundwater elevation ranged from an average water level deviation between 0.0 and 2.5 ft. indicating a wet spring and summer. In 2014, the average water level deviation rose above 1.5 ft in April, and stayed between 1.2 and 2.5 ft. the rest of the year, indicating a wet spring and fall. In 2015, groundwater elevation measurements were reduced to quarterly beginning in April. The average water level deviation stayed between 0.57 and 1.5 ft. the entire year. In 2017, the average water level deviation began the year at -0.06 ft and increased to +2.36 ft. in July.

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<sup>1</sup> The average water level deviation is an index for tracking the average change in groundwater at the site and consists of calculating, for selected on-site wells, the deviation of each month's water level from the well's historical average, and then averaging the deviations for all selected wells.

As discussed above, Lake Wausau was drawn down in the fall of 2016 for dam work to be completed and Wauleco took advantage of this change in water levels to determine whether water level changes would mobilize residual phase product. Analysis of the drawdown in the 2016 Annual Report demonstrated that the current residual phase product on and off the Wauleco Site has insufficient saturation to create mobile, and recoverable product. As shown in the graph in Table 4, the complete recovery of the groundwater elevation occurred by about April 24, 2017.

As agreed upon with WDNR in February 2011 (see correspondence in Appendix A), the product recovery system was terminated which included reducing the groundwater extraction rates. The pumping rate was reduced from approximately 43 gpm (January and February 2011 average) to between 22.5 and 32 gpm beginning in March, 2011. The pumping rate was further reduced from approximately 28 gpm to 22 gpm beginning in June, 2012. The configuration of the January and July, 2017 water table maps (Drawing 3 and 4, respectively) show a capture zone extending to approximately 100 ft. downgradient of the east property line adjacent to extraction wells FP01 and FP02.

### Apparent Product Thickness

The apparent product thicknesses during January and July 2017 are shown on Drawings 5 and 6, respectively. Apparent product thickness represents a measurable thickness of product that has moved into a monitoring well. As shown in the following table, only four monitoring wells and four extraction wells showed apparent mobile product in 2017, and sporadically at that. This illustrates that the apparent mobile product at the site is thin and isolated to very small areas.

<b>Well</b>	<b>January 2017 Apparent Product Thickness (ft)</b>	<b>April 2017 Apparent Product Thickness (ft)</b>	<b>July 2017 Apparent Product Thickness (ft)</b>	<b>October 2017 Apparent Product Thickness (ft)</b>
W04A	0.0	0.0	0.01	0.01
W07	0.05	0.70	0.03	0.0
W35	0.07	0.08	0.31	0.17
W40	0.13	0.63	0.04	0.11
PW16	0.0	0.0	0.15	0.0
PW26	0.13	0.0	0.0	0.0
PW29	0.02	0.0	0.0	0.0
FP02	0.05	0.0	0.0	0.0

In late 2009, several wells were tested to assess whether the apparent mobile product present in the wells were representative of mobile product outside the well or whether the product was trapped in the monitoring well and not representative of mobile product outside the well. This test was conducted by inserting an absorbent sock in the well to remove the product and then monitoring for recovery of product. This test was effective to determine where there was apparent mobile product outside the well and has been continued from 2010 through 2017. This method continues to be used only at locations where free product has recovered. In 2017, it was used at all of the wells listed in the above table.

As shown in the table above, mobile product was detected at only 4 wells at 3 or 4 events throughout the year and at 4 other wells on one occasion. The wells with product on one occasion in January 2017 (PW26, PW29, and FP02) are likely related to the Lake Wausau drawdown that was completed in November 2016. Each of these product appearances occurred while pumping 14 extraction wells and demonstrates that very limited areas of mobile product exists on-site and around well W40.

### Product Recovery

Historical product recovery is summarized in the following table. No product was recovered in 2017.

Year	Product Recovery (gallons)
1991 through 1997	38,705
1998	12,901
1999 – 1 <sup>st</sup> year with new wells	37,500
2000	31,540
2001	13,987
2002	3,287
2003	822.1
2004	457.6
2005	760.1
2006	3,513.2
2007	547.7
2008 – 1 <sup>st</sup> year with 4 new focused pumping wells	1,964.4
2009	1,198.3
2010	80.8
2011	4.8
2012	0.0
2013	0.0
2014	0.0
2015	0.0
2016	0.0
2017	0.0
Total	147,269

### Dissolved PCP Recovery

PCP is removed in dissolved phase through groundwater extraction. The dissolved phase PCP concentration, as influent to the treatment system, is shown in Table 6. During 2017, a total of 11.36 million gallons of water were treated through the fluidized bed reactor (FBR) system. The average PCP concentration of the influent water was 4,845 micrograms per liter ( $\mu\text{g/L}$ ), and the average PCP concentration in the treatment system effluent was 3.36  $\mu\text{g/L}$ . This translates to 459 pounds (lb) of PCP removed during 2017 or, assuming 5 percent PCP in the original product formulation and using 0.8 as the specific gravity for the product, an equivalent of 1,376 gallons of product removed.

The average PCP concentration, as shown in the following table, has been generally declining for the treatment system influent.

Year	Average Annual Treatment System Influent Concentration (µg/L)
2000	10,226
2001	11,988
2002	9,979
2003	8,566
2004	7,097
2005	7,958
2006	7,199
2007	9,159
2008	7,533
2009	6,213
2010	4,678
2011	5,104
2012	4,966
2013	4,966
2014	5,142
2015	4,377
2016	4,223
2017	4,845

### Total PCP Recovered

The mass of PCP recovered for each of the last 21 years is as follows:

Total PCP Recovered			
Year	PCP in Product Recovered <sup>1</sup> (lbs)	PCP in Water <sup>2</sup> (lbs)	Total PCP Recovered (lbs)
Jan. 1991 – Sept. 1996	10,274	5,518	15,792
Oct. 1996 – Sept. 1997	1,942	1,220	3,162
1998 prior to new wells	4,077	1,460	5,537
1999 1 <sup>st</sup> year with new wells	12,645	2,550	15,195
2000	10,635	2,212	12,847
2001	4,716	2,146	6,862 <sup>3</sup>
2002	1,108	1,766	2,874
2003	277	1,408	1,685
2004	153	1,182	1,335
2005	254	1,332	1,586
2006	1,172	1,359	2,531
2007	183	1,628	1,811
2008	655	1,380	2,035
2009	400	1,194	1,594
2010	27	886	913
2011	2	671	673

Total PCP Recovered			
Year	PCP in Product Recovered <sup>1</sup> (lbs)	PCP in Water <sup>2</sup> (lbs)	Total PCP Recovered (lbs)
2012	0	510	510
2013	0	473	473
2014	0	481	481
2015	0	422	422
2016	0	406	406
2017	0	459	459
Total Project to Date	48,520	30,663	79,183

1. Assumes 5 percent PCP in product, based on the original product used and a product specific gravity of 0.8.
2. For Jan. 1991 through Jan. 1999 the calculations use an estimated 10,000 ug/L average PCP in influent and measured pumping rates. For Feb. 1992 through current the calculations use the average concentration removed based on results from three to five sampling rounds per month and measured pumping rates.
3. The Total PCP recovered for 2001 was corrected from previous reports.

The decreasing mass of PCP recovered through groundwater recovery and no mass of PCP recovered by product recovery in 2012 through 2017 supports the decision to have discontinued product recovery in 2011.

## Groundwater Quality

The historical analytical results for each monitoring well location are provided in Appendix B, and the analytical results for the 2017 sampling rounds are summarized in Tables 5a and 5b. Time trend graphs for PCP are provided in Appendix C. Isoconcentration maps for PCP; naphthalene; total petroleum hydrocarbons (TPH); 1,2,4-Trimethylbenzene; and total xylene concentrations are provided on Drawings 7 through 11, respectively.

Historically, wells with product present have not been sampled for groundwater quality. However, as described above, product has been removed from all wells in the routine monitoring program. As a result, all planned wells were sampled during both sampling events in 2017.

Following is a summary of changes or trends by compound compared to the 2016 Annual Report:

- **PCP**

**3M Wells** – The distribution of PCP concentrations on Drawing 7 includes several 3M wells north of the site. As shown on this drawing, there is a lobe of dissolved phase PCP present north of the site, extending from well W2 through 3M wells DFOMW-12 and DFOMW-11. Based on groundwater flow directions and downgradient groundwater quality, this lobe of PCP is shown to be naturally biodegrading. The bases for this observation are as follows:

- Groundwater flow in this area of PCP between wells W2 and DFOMW-11 (see Drawings 3 and 4) is toward well W28. Historically, well W28 has had PCP concentrations of up to 10,000 ug/L (see 1988 in Appendix C), but declined to non-detect in 2002. Well W28 has stayed at non-detect or very low concentrations since that time. A similar history has occurred at adjacent wells W9 and W18, although W18 showed a relatively small increase in 2011 (relative to concentrations at adjacent well W10A).

- The redox conditions in this area of the PCP plume appears to be more aerobic than the remainder of the plume, based on the presence of nitrate-N and the low concentration of TPH (see Appendix B1) in well W28. Similar redox conditions have been present at adjacent well W18 for the majority of time since 1999 and occasionally at W9. At W28 in 2011, the nitrate-N decreased and TPH increased, indicating somewhat more reducing conditions. This is consistent with the small rise in PCP concentration at W28 in 2011. The cause for these less anaerobic conditions is probably due to a combination of the lower TPH concentrations in this area and the infusion of dissolved oxygen into the plume from the sides of the plume and from surface recharge.
- Based on the groundwater flow directions in this area, the history of redox and PCP concentrations, it appears that biodegradation of PCP is occurring in the area between DFOMW-11 and W28. The biodegradation of PCP in this area would be occurring in the same manner as in the FBR, that is, in an area with some dissolved oxygen.
- The biodegradation shown at downgradient well W28, etc. is also occurring within the upgradient, higher concentration areas (i.e., at wells W02, DFOMW11 and DFOMW12). This is demonstrated by the very distinct decline in PCP in upgradient well W02 over its history (from mobile phase LNAPL and PCP concentrations over 10,000 ug/L prior to 2003 to less than 1,000 ug/L in 2017). This is supported by the potential declines in PCP at wells DFOMW-11 and DFOMW-12 (see time-concentration graphs in Appendix C).

**Wells W12, W16, W18, W26, and W29** – A significant rise and fall in PCP concentration between 2010 and 2013 was seen at W12, W16, W18, W26, and W29, as shown in the table below.

Date Sampled	W12 (µg/L)	W16 (µg/L)	W18 (µg/L)	W26 (µg/L)	W29 (µg/L)
July, 2009	<3	<3	1.5	190	7.7
July, 2010	<3	<3	1.5	2,900	50
July, 2011	<1.2	3000	230	1,100	1,700
July, 2012	420	<3	2.6	540	1,800
July, 2013	<3	<3	<3	120	6.4
July, 2014	<3	<3	<3	33	690
July, 2015	<3	<3	<3	2,000	3,300
July, 2016	<3	<3	<3	570	6,600
July, 2017	<3	<3	<3	19	5,100

This spike in PCP concentrations at wells W12, W16, and W26 in 2011/2012 is likely due to the water lateral leak found near the intersection of Thomas Street and Cleveland Ave. in 2011. The mound of water formed by this leak pushed PCP present south and east of the leak (e.g., near well W41) further south to W16. After repair of the leak in June 2011, and groundwater flow returned to normal, groundwater with no PCP moved back into the area of well W16. This spike in PCP concentration at well W16 then moved downgradient, resulting in the spike in PCP concentration at well W12 in 2012.

The PCP concentration at well W18 continues to be non-detect, downgradient of significant PCP concentrations. This pattern at W18, and adjacent wells W09 and W28, demonstrates the effectiveness of natural attenuation in this area.

The 2011 and 2012 increase in PCP concentrations at well W29 may also be due to the water lateral leak that pushed PCP concentrations to the east, with a subsequent decline following repair of the leak. The increase in PCP concentrations at wells W26 and W29 after July 2014 and 2013, respectively, may be due to a change in groundwater flow directions following the change in groundwater extraction rates between March 2011 (approximately 43 gpm) and June 2012 (approximately 22 gpm). During the higher pumping rate, flow in the vicinity of wells W26 and W29 may have been primarily to the east. Flow after the reduction in pumping rate appears, at times, to have a south to southeast direction, resulting in a shorter flow distance between the residual phase product and well W29 than during easterly flow. This shorter flow distance would result in less degradation of PCP than in the longer flow distance with straight easterly flow. This is illustrated by the configuration of the PCP isoconcentration map (Drawing 7) that shows a separation in PCP concentrations around W29 (originating to the northwest of the well) from the PCP to the west, originating from the vicinity of W41/W27 and migrating to W11. However, under either condition, the downgradient wells, W21 to the south and W31 to the east, are non-detect. Therefore, under either flow condition, the downgradient wells indicate non-detect and that natural degradation is occurring and effective.

**Well W19** – The history of PCP concentrations (see graph in Appendix C) showed a large decline shortly after extraction started in the early 1990s. PCP increased in 2011 from typically less than 100 µg/L to 710 µg/L. Concentrations have been fluctuating between 100 µg/L and 700 µg/L since 2011. This increase at W19 does not reflect an expansion of the extent of PCP, simply a small increase in concentration inside the areal extent.

**Wells W2, W3A, W6R, and W40** – Concentrations from the wells that had product removed in 2009 (W2, W3A, W6R, and W40) ranged from 170 ug/L at W6R to 19,000 ug/L at W40. Results since 2009 are summarized as follows:

<b>Date</b>	<b>W2</b>	<b>W3A</b>	<b>W6R</b>	<b>W40</b>
July, 2010	2,500	1,300	4,500	8,100
July, 2011	970	640	3,900	6,400
July, 2012	2,000	800	1,000	10,000
July, 2013	1,700	540	3,300	8,300
July, 2014	3,000	450	1,500	8,500
July, 2015	1,900	380	3,200	6,800
July, 2016	1,500	780	210	9,500
July, 2017	830	680	170	19,000

Monitoring wells W2, W3A, W6R, and W40 are within the residual phase product footprint. Therefore, these fluctuations are to be expected following removal of mobile phase product in an area. However, W6R does appear to be declining further. For 2017, the concentration at W40 is attributed to a small amount of mobile product likely being present in the sample (refer to Apparent Product Thickness section).

**Well W36** – PCP concentrations at well W36, located within the central part of the site, have gone from having mobile product in the early 1990s, to PCP concentrations greater than 6,000 µg/L in the early 1990s to having <15 µg/L since 2007. The presence of chloroform from at least 1996 through at least 2011 at this well (see data in Appendix B3) probably indicates it has received dilution from the documented water supply lateral leak. The same occurrence of chloroform occurred at well W22 when its PCP declined when the nearby water supply lateral leak occurred in 2010 and 2011. In November 2012 the City Water Utility found and repaired a water lateral leak, characterized as about 10 gpm, at the intersection of Rosecrans Street and First Avenue. This leak could have recharged groundwater at this location or flowed along the water line trench, to recharge at some location along the trench. This water line and trench extends east along Rosecrans Street, between 3M and Wauleco, with an abandoned water line in a trench extending south, beneath the Wauleco property, just west of well W36. It is not known whether the leak at Rosecrans Street and First Avenue affected water quality at well W36. If it did, and with its repair completed, the PCP concentration would be expected to increase at well W36, although as of July 2017, the PCP concentration is still low at well W36.

**Areal Extent** – The areal extent and distribution of PCP (Drawing 7) is generally similar to the 2014, 2015, and 2016 isoconcentration maps. The primary difference is the separation of the localized high concentration at well W29 from the southern most lobe of PCP. While W29 has had similar PCP concentrations in the past, the PCP concentration reduction in upgradient wells W11 and W26, has separated what appear to be two lobes of the PCP plume in this area. The southern lobe has its highest concentrations at wells W41 and W27, which are in close proximity to residual phase LNAPL and extends to somewhat downgradient of well W11. This concentration-distance trend through this southern lobe is shown on Figure E-2, illustrating the decrease in concentration from near 10,000 ug/L to near 1 ug/L occurs in less than the distance from wells W27 and W21 (i.e., less than 920 ft.).

Appendix E includes PCP concentration-distance graphs along each of the three profiles, shown on the map in Figure E-1, to illustrate the concentration decline down the groundwater gradient southeast, east, and northeast of Wauleco:

- Figure E-2 shows the concentration-distance profile southeast of Wauleco, from well W41 to W21. This shows that the concentration trend is flat between wells W41 and W27, in the vicinity where there is residual phase product present. However, downgradient of well W27 the PCP concentration degrades rapidly to essentially non-detect at well W21.
- Figures E-3 and E-4 show the concentration distance profile east of Wauleco, through wells W22 to W21. Figure E-3 shows the profile for all dates, which is "noisy" due to the variable concentrations at wells W26 and W29. Figure E-4 shows the same profile for selected dates, when the apparent groundwater flow direction occurs in an easterly direction, so that the concentrations at well W29 are not due to southerly flow, causing the PCP concentration to be elevated due to the short flow path from residual phase product to well W29. This situation is described further under the paragraph titled Wells W12, W16, W18, W26, and W29.



- Figure E-5 shows the concentration-distance profile northeast of Wauleco, from well DFOMW12 to well W18. This shows the concentration decline from over 1,000 ug/L at DFOMW12 (i.e., between 2,300 ug/L in July 2017 and 9,500 ug/L in July 2012) down to less than 10 ug/L at well W13 and generally non-detect at well W18.
- **Naphthalene** – The areal extent of naphthalene concentrations is similar to 2016, with concentration above 100 µg/L (the NR 140 ES) centered around well W40 (see Drawing 8). Changes of note include: naphthalene concentrations have declined from 91 µg/L at W02 to 10 µg/L, and increased from <0.90 ug/L to 28 ug/L at well W10A.
- **TPH** – The areal extent of the total petroleum hydrocarbon (TPH) concentrations in 2017 (see Drawing 9) has a similar distribution as the PCP plume in that there is a southern lobe of the plume with a small increase at well W29. The 10 mg/L contour line is slightly larger around well W40 due to increases in concentration at W40 from 28 mg/L to 250 mg/L. The increased concentration at W40 is attributed to a small amount of mobile product likely being present in the sample (refer to Apparent Product Thickness section).
- **1,2,4-Trimethylbenzene** – The areal extent for 1,2,4-Trimethylbenzene is similar to 2016, with the highest concentration centered at well W40 (see Drawing 10), although the concentration at well W10A in 2017 (57 ug/L) has decreased from the 2016 concentration (150 ug/L). Concentrations in excess of the NR-140 are limited to wells W40, W27, and W03A.
- **Total Xylenes** – The concentrations of total xylenes across the site are less than the NR 140 PAL (400 µg/L) except for well W40 at 529 µg/L (see Drawing 11). The areal extent for total xylenes is similar to 2016 contours.

## SUMMARY AND CONCLUSIONS

Groundwater quality around the Wauleco site has remained similar to, or has generally decreased concentrations in 2017 (refer to graphs in Appendix C illustrating trends in PCP concentrations). Therefore, the current groundwater extraction rate of approximately 22 gpm compared to the higher pumping rate prior to 2011 (i.e., approximately 40 gpm) has not had a detrimental effect on the natural biodegradation of PCP and mineral spirit constituents.

This stability of the PCP plume is illustrated by the observation that the areal extent of the plume has remained constant since 2011. Therefore, the discontinuation of product recovery and reduced pumping has been successful in maintaining the environmental performance of the remedy.

Detailed summary and conclusions are organized by product, groundwater containment, and groundwater quality.

## **Product**

Apparent product observed during 2017 on the site is limited to four monitoring wells and four extraction wells, is thin, and isolated to very small areas. The apparent product observed in early 2017 is likely attributed to the effects of the Lake Wausau drawdown that occurred during the last quarter of 2016. During October 2017, apparent product was only observed in three groundwater monitoring wells, which is consistent with observations prior to the Lake Wausau drawdown.

Consistent with this observation, an insignificant volume of product was removed using absorbent socks, so there was no recovery. As agreed to with the WDNR, product recovery was discontinued in March, 2011 with the beginning of reduced pumping rates. Since the implementation of additional wells and modifications to the system operation in 1999, the recovery of PCP from product and as dissolved phase in groundwater has decreased from 15,195 pounds per year (lbs/yr) in 1999, to 459 lbs/yr in 2017, now with all of the PCP recovered coming from the groundwater extraction system. Product recovery and extent of apparent product thickness over the last several years have demonstrated that the product recovery implemented in 1999 was effective and that it reached its useful end.

## **Groundwater Containment**

Containment of groundwater on the Wauleco site in 2017 is evident as shown in Drawings 3 and 4 for pumping at approximately 22 gpm, extending 100 ft. beyond the downgradient property line.

## **Groundwater Quality**

The areal extent of PCP has remained stable and concentrations within the plume have remained generally stable to declining. Although the PCP concentrations have fluctuated since 2011 at select wells, the areal extent of the plume has not changed. The PCP at well W29 may be due to a change in groundwater flow direction following the reduction in groundwater extraction rates. In addition, the reduction in concentrations at wells W11 and W26 have illustrated the separation in the southern lobe of the plume, originating near well W41, from the lobe centered on well W29.

The mineral spirits constituents (TPH, 1,2,4 trimethylbenzene, and xylenes) show similar configurations from 2014 to 2016.

## **RECOMMENDATIONS**

TRC recommends the following:

- Continue operation of the groundwater remediation system without product recovery.
- Continue to implement the reduced pumping approach.
- Continue to perform semi-annual groundwater monitoring during 2018.

- Continue to assess the effect of reduced pumping rates near the site through quarterly water level monitoring and preparation of water table maps in January, and July.
- Continue removal of apparent mobile product in groundwater monitoring wells W04A, W07 and W35, and extraction wells, if present, and where it is thought that the product is not representative of mobile product outside the well. This will use absorbent socks to remove product and monitoring to assess if product re-accumulates.

These recommendations would be applicable while the current pump and treatment remediation system is operated. If changes are made to the operation of the pump and treatment system, then these recommendations would be revised accordingly.

**TABLE 1**

**2017 GROUNDWATER MONITORING PROGRAM  
WAULECO, INC.  
WAUSAU, WISCONSIN**

<b>Well Location</b>	<b>Semi-Annual - January</b>	<b>Annual - July</b>
W1A		S
W2		S
W3A	W	S + M
W3B		S
W6R	W	S + M
W8	W + M	S + M
W9		S
W10A	M	S + M
W10B		S
W11	M	S + M
W12	M	S + M
W13	W + M	S + M
W16	M	S + M
W17	W + M	S + M
W18		S + M
W19	W	S + M
W21		S
W22	W + M	S + M
W25	W	S
W26	W + M	S + M
W27	M	S + M
W28	M	S + M
W29		S + M
W32		S
W33	W + M	S + M
W36		S
W39	W	S
W40	W	S + M
W41	W	S + M
DFOMW5	P	P + V + T
DFOMW11	P	P
DFOMW12	P	P
FP2	M	M
PW17	M	M
W71	P	P + V + T
W72	P	P + V + T
W73	P	P + V + T + M
W74	P	P + V + T

Notes:

W = Designates well locations to be sampled during the winter sampling round and analyzed for: phenolic compounds, nitrate, field pH, and field specific conductance.

S = Designates well locations to be sampled during the summer sampling round and analyzed for: phenolic compounds, total petroleum hydrocarbons, naphthalene, xylenes, 1,2,4-trimethylbenzene, nitrate, dissolved mercury, field pH, and field specific conductance.

M = Designates well locations to be sampled for MNA parameters: dissolved manganese and iron, sulfate, total organic carbon, and total petroleum hydrocarbons. field pH, and field specific conductance in the summer and winter sampling rounds.

P = Designates well locations to be sampled for pentachlorophenol.

V = VOC's

T = TPH

Updated : T. Dushek, 11/2/17

Checked : A. Voit, 12/15/17

**TABLE 2**

**SUMMARY OF 2017 GROUNDWATER SAMPLING LOCATIONS  
WAULECO, INC.  
WAUSAU, WISCONSIN**

<b>Well Location</b>	<b>January 2017</b>	<b>July 2017</b>
W1A		X
W2		X
W3A	X	X
W3B		X
W6R	X	X
W8	X	X
W9		X
W10A	X	X
W10B		X
W11	X	X
W12	X	X
W13	X	X
W16	X	X
W17	X	X
W18		X
W19	X	X
W21		X
W22	X	X
W25	X	X
W26	X	X
W27	X	X
W28	X	X
W29		X
W32		X
W33	X	X
W36		X
W39	X	X
W40	X	X
W41	X	X
DFOMW5	X	X
DFOMW11	X	X
DFOMW12	X	X
FP2	X	X
PW17	X	X
W71	X	X
W72	X	X
W73	X	X
W74	X	X

Notes:

January 2017 (Winter Sampling Round) samples collected on January 16, 19, and 23, 2017.

July 2017 (Summer Sampling Round) samples collected on July 10, 11, 13, 17, 18, and 20, 2017.

X - indicates groundwater sample obtained and sent to laboratory.

Product - indicates a sample was not collected due to the presence of product in the well.

Updated : T. Dushek, 12/5/17

Checked : A. Voit, 12/15/17

**TABLE 3**  
**2017 Groundwater Elevation Data**  
**Wauleco, Inc.**  
**Wausau, Wisconsin**

Well No.	Current	January 9, 2017		April 24, 2017		July 7, 2017		October 12, 2017	
	Top of Casing Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)
PW01	1192.22 <sup>3</sup>	0.00	1162.38	0.00	1163.86	0.00	1164.90	0.00	1163.69
PW02	1197.16	-----	Abandoned	-----	Abandoned	-----	Abandoned	-----	Abandoned
PW03	1190.49	0.00	1162.44	0.00	1164.08	0.00	1164.76	0.00	1163.63
PW3S	1189.55	0.00	1161.56	0.00	1163.35	0.00	1165.23	0.00	1162.91
PW04	1190.52	0.00	1161.43	0.00	1163.25	0.00	1164.04	0.00	1162.77
PW05	1188.48	0.00	1161.46	0.00	1163.24	0.00	1163.97	0.00	1162.74
PW06	1191.97	0.00	1161.74	0.00	1163.43	0.00	1164.15	0.00	1163.02
PW07	1189.82	0.00	1161.61	0.00	1155.07	0.00	1149.34	0.00	1162.83
PW08	1191.84	0.00	1162.71	0.00	1164.23	0.00	1165.11	0.00	1163.92
PW9I	1188.58	-----	-----	-----	-----	-----	-----	-----	-----
PW9O	1189.98	0.00	1161.47	0.00	1163.57	0.00	1164.09	0.00	1162.83
PW10	1191.62	0.00	1161.62	0.00	1163.35	0.00	1164.30	0.00	1162.95
PW11	1188.69	0.00	1160.29	0.00	1162.41	0.00	1162.74	0.00	1161.27
PW12	1192.12	0.00	1161.69	0.00	1163.48	0.00	1164.42	0.00	1163.33
PW13	1192.2	0.00	1161.56	0.00	1163.29	0.00	1164.23	0.00	1162.85
PW14	1188.83	0.00	1161.08	0.00	1163.65	0.00	1163.71	0.00	1162.49
PW15	1189.34	0.00	1161.09	0.00	1163.73	0.00	1163.84	0.00	1162.60
PW16	1191.91	0.00	1161.63	0.00	1162.98	0.15	1163.73	0.00	1162.66
PW17	1191.9	0.00	1162.11	0.00	1163.03	0.00	1163.49	0.00	1162.43
PW18	1190.19	0.00	1161.44	0.00	1163.44	0.00	1164.19	0.00	1162.84
PW19	1190.66	0.00	1153.54	0.00	1162.90	0.00	1163.67	0.00	1162.45
PW20	1191.34	0.00	1160.46	0.00	1162.65	0.00	1164.12	0.00	1162.37
PW21	1190.33	0.00	1160.85	0.00	1162.91	0.00	1163.64	0.00	1162.24
PW22	1192.32	0.00	1161.49	0.00	1163.23	0.00	1163.98	0.00	1162.77
PW23	1189.49	0.00	1161.40	0.00	1163.21	0.00	1163.90	0.00	1162.68
PW24	1188.28	0.00	1159.29	0.00	1162.01	0.00	1162.47	0.00	1161.20
PW25	1189.51	0.00	1157.37	0.00	1161.51	0.00	1161.86	0.00	1160.08
PW26	1188.79	0.13	1158.61	0.00	1161.61	0.00	1162.04	0.00	1160.67
PW27	1188.47	0.00	1149.99	0.00	1161.85	0.00	1162.43	0.00	1160.65
PW28	1193.6	0.00	1162.53	0.00	1163.99	0.00	1164.76	0.00	1163.70
PW29	1193.65	0.02	1162.58	0.00	1164.02	0.00	1164.88	0.00	1163.79
P01	1191.48	0.00	1161.41	0.00	1163.26	0.00	1164.04	0.00	1162.77
OW01	1194.62 <sup>3</sup>	0.00	1163.57	0.00	1165.04	0.00	1166.09	0.00	1164.92
W01A	1194.08	0.00	1162.69	0.00	1164.10	0.00	1165.26	0.00	1164.06
W01B	1194.92	0.00	1162.72	0.00	1164.13	0.00	1165.31	0.00	1164.10
W02	1193.71	0.00	1162.20	0.00	1163.73	0.00	1164.51	0.00	1163.42
W03A	1187.76	0.00	1160.85	0.00	1163.29	0.00	1163.19	0.00	1162.04
W03B	1187.77	0.00	1161.46	0.00	1162.93	0.00	1162.86	0.00	1162.16

**TABLE 3**  
**2017 Groundwater Elevation Data**  
**Wauleco, Inc.**  
**Wausau, Wisconsin**

Well No.	Current	January 9, 2017		April 24, 2017		July 7, 2017		October 12, 2017	
	Top of Casing Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)
W04A	1192.32	0.00	1161.75	0.00	1163.42	0.01	1164.11	0.01	1163.00
W04B	1192.26	0.00	1161.74	0.00	1163.41	0.00	1164.16	0.00	1163.00
W05	1190.63	0.00	1161.45	0.00	1163.24	0.00	1164.09	0.00	1162.80
W06R	1194.06	0.00	1162.65	0.00	1164.06	0.00	1165.19	0.00	1163.99
W07	1192.37 <sup>3</sup>	0.05	1162.40	0.70	1163.88	0.03	1164.94	0.00	1163.74
W08	1206.73	0.00	1172.81	0.00	1174.29	0.00	1175.07	0.00	1172.41
W09	1172.80	0.00	1161.97	0.00	1163.56	0.00	1163.45	0.00	1162.66
W10A	1182.59	0.00	1161.23	0.00	1162.38	0.00	1161.46	0.00	1161.15
W10B	1182.44	0.00	1161.14	0.00	1162.11	0.00	1161.48	0.00	1161.21
W11	1175.25	0.00	1160.83	0.00	1161.93	0.00	1161.36	0.00	1161.12
W12	1173.95	0.00	1160.43	0.00	1161.30	0.00	1160.91	0.00	1160.73
W13	1188.73	0.00	1161.62	0.00	1163.58	0.00	1162.62	0.00	1162.18
W14	1172.41	0.00	1160.65	0.00	1161.42	0.00	1161.23	0.00	1161.06
W16	1180.60	0.00	1161.29	0.00	1163.04	0.00	1162.90	0.00	1162.27
W17	1187.4	0.00	1161.10	0.00	1163.67	0.00	1163.50	0.00	1162.41
W18	1172.92	0.00	1161.47	0.00	1162.19	0.00	1161.36	0.00	1161.22
W19	1194.26	0.00	1162.01	0.00	1163.59	0.00	1164.44	0.00	1163.42
W21	1170.14	0.00	1160.93	0.00	1161.66	0.00	1161.12	0.00	1160.99
W22	1186.01	0.00	1160.80	0.00	1162.96	0.00	1162.88	0.00	1161.80
W23	1171.55	0.00	1160.66	0.00	1161.56	0.00	1161.31	0.00	1161.09
W24A	1171.77	0.00	1160.66	0.00	1161.51	0.00	1161.29	0.00	1161.09
W25	1194.48	0.00	1162.71	0.00	1164.09	0.00	1165.26	0.00	1164.03
W26	1176.90	0.00	1161.11	0.00	1161.96	0.00	1161.49	0.00	1161.15
W27	1180.19	0.00	1161.13	0.00	1162.67	0.00	1162.42	0.00	1161.77
W28	1174.36	0.00	1161.55	0.00	1162.21	0.00	1161.38	0.00	1161.21
W29	1172.60	0.00	1161.12	0.00	1161.80	0.00	1161.13	0.00	1161.03
W30	1189.97	0.00	1161.41	0.00	1163.24	0.00	1164.03	0.00	1162.75
W31	1169.67	0.00	1161.28	0.00	1161.63	0.00	1161.04	0.00	1160.98
W32	1169.43	0.00	1161.30	0.00	1161.62	0.00	1161.04	0.00	1161.00
W33	1188.51	0.00	1161.59	0.00	1163.24	0.00	1163.96	0.00	1162.83
W34	1191.16	0.00	1161.51	0.00	1163.20	0.00	1163.94	0.00	1162.78
W35	1191.93	0.07	1161.56	0.08	1163.32	0.31	1164.18	0.17	1162.92
W36	1192.34	0.00	1162.04	0.00	1163.60	0.00	1164.54	0.00	1163.35
W39	1187.78	0.00	1161.55	0.00	1163.26	0.00	1163.91	0.00	1162.79
W40	1180.69	0.13	1160.95	0.63	1162.74	0.04	1162.57	0.11	1161.63
W41	1185.04	0.00	1161.44	0.00	1163.24	0.00	1163.72	0.00	1162.62
W42	1194.61	0.00	1162.08	0.00	1163.66	0.00	1164.54	0.00	1163.38
W44	1190.82	0.00	1161.42	0.00	1163.25	0.00	1163.99	0.00	1162.74

**TABLE 3**  
**2017 Groundwater Elevation Data**  
**Wauleco, Inc.**  
**Wausau, Wisconsin**

Well No.	Current	January 9, 2017		April 24, 2017		July 7, 2017		October 12, 2017	
	Top of Casing Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)	Oil Thickness (ft)	Water Table Elevation (ft msl)
W45	1190.69	0.00	1161.61	0.00	1164.00	0.00	1164.21	0.00	1163.38
W46	1191.49	0.00	1161.28	0.00	1163.09	0.00	1163.91	0.00	1162.61
W47	1189.37	0.00	1160.28	0.00	1162.46	0.00	1162.80	0.00	1161.28
W48	1189.7	0.00	1160.60	0.00	1163.13	0.00	1163.35	0.00	1162.07
W49	1189.2	0.00	1161.05	0.00	1163.78	0.00	1163.87	0.00	1162.58
W66	1192.41	0.00	1162.57	0.00	1163.99	0.00	1164.96	0.00	1163.84
W67	1191.85	0.00	1162.52	0.00	1163.95	0.00	1164.91	0.00	1163.79
W68A	1190.94	0.00	1162.64	0.00	1164.05	0.00	1165.05	0.00	1163.89
W68B	1191.42	0.00	1162.52	0.00	1163.95	0.00	1164.85	0.00	1163.75
W69	1192.23	0.00	1161.73	0.00	1163.39	0.00	1164.65	0.00	1163.04
W70B	1200.29	0.00	Abandoned	0.00	Abandoned	0.00	Abandoned	0.00	Abandoned
River	1164.19	-----	-----	-----	-----	-----	-----	-----	-----
IW01	1190.8	0.00	1161.42	0.00	1163.22	0.00	1164.08	0.00	1162.78
IW01A	1190.74	0.00	1161.44	0.00	1163.24	0.00	1164.08	0.00	1162.79
FP01	1188.04	0.00	1157.96	0.00	1162.08	0.00	1162.31	0.00	1160.63
FP02	1187.6	0.05	1158.94	0.00	1162.12	0.00	1162.43	0.00	1160.19
FP03	1186.66	0.00	1158.97	0.00	1160.83	0.00	1161.56	0.00	1159.99
FP04	1188.29	0.00	1159.24	0.00	1162.18	0.00	1162.52	0.00	1161.27
3M Basin		0.00	Water in both Basins	0.00	Water in both Basins	0.00	Water in both Basins	0.00	Water in both Basins
DFOWM 5	1188.3	0.00	1162.46	-----	-----	0.00	1164.40	-----	-----
DFOWM 9	1187.56	0.00	Abandoned	0.00	Abandoned	0.00	Abandoned	0.00	Abandoned
DFOWM 10A	1187.7	0.00	Abandoned	0.00	Abandoned	0.00	Abandoned	0.00	Abandoned
DFOWM 11	1188.8	0.00	1161.71	-----	-----	0.00	1162.79	-----	-----
DFOWM 12	1187.78	0.00	1162.19	-----	-----	0.00	1164.35	-----	-----
W71	1191.95	0.00	1164.41	0.00	1165.56	0.00	1167.17	0.00	1165.90
W72	1190.97	0.00	1162.91	0.00	1164.35	0.00	1165.67	0.00	1164.37
W73	1192.20	0.00	1161.95	0.00	1163.59	0.00	1164.32	0.00	1163.27
W74	1183.13	0.00	1161.65	0.00	1163.35	0.00	1163.68	0.00	1162.75

**Notes:**

1. ft msl = feet mean sea level
2. PW90 denotes the outer well and PW9I denotes the inner well
3. Re-surveyed after Soil Mound removal in 2015

Updated : T. Dushek, 11/2/17

Checked : K. Quinn, 6/27/18



**TABLE 4**  
**Groundwater Measurements During Lake Wausau Drawdown**  
**Wauleco, Inc.**  
**Wausau, Wisconsin**

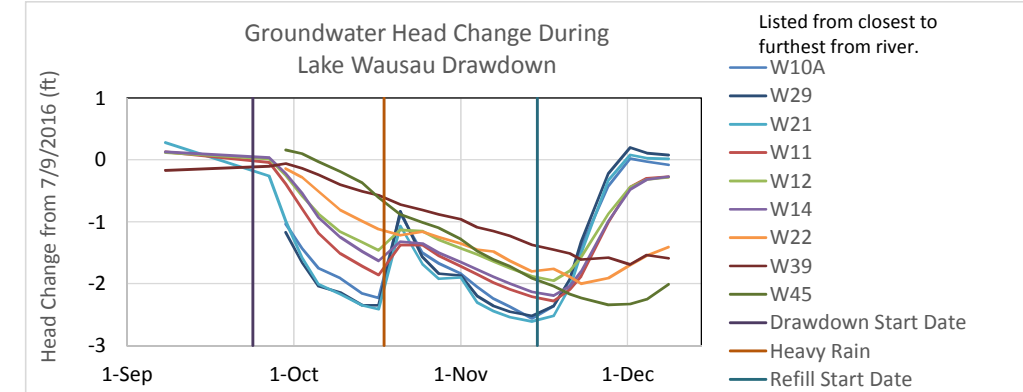
Well	Approximate Elev. Of Residual Phase Product		Groundwater Elevation																									
	Top Elev. (ft)	Bottom Elev. (ft)	7/19/2016	9/8/2016	9/24/2016	9/27/2016	9/30/2016	10/3/2016	10/6/2016	10/10/2016	10/14/2016	10/17/2016	10/21/2016	10/25/2016	10/28/2016	11/1/2016	11/4/2016	11/7/2016	11/10/2016	11/14/2016	11/18/2016	11/21/2016	11/23/2016	11/28/2016	12/2/2016	12/5/2016	12/9/2016	
W10A	1161.1	1159.7	<b>1160.98</b>	-	Start Lake Wausau Drawdown	-	<b>1159.95</b>	<i>1159.55</i>	<i>1159.23</i>	<i>1159.07</i>	<i>1158.82</i>	<i>1158.75</i>	<b>1160.11</b>	<i>1159.48</i>	<i>1159.31</i>	<i>1159.14</i>	<i>1158.93</i>	<i>1158.74</i>	<i>1158.61</i>	<i>1158.42</i>	<i>1158.62</i>	<i>1159.04</i>	<i>1159.57</i>	<b>1160.56</b>	<b>1161.00</b>	<b>1160.95</b>	<b>1160.90</b>	
W11	None present	None present	1160.94	1161.07		1160.9	1160.55	1160.15	1159.76	1159.43	1159.22	1159.08	1159.08	1159.57	1159.57	1159.39	1159.22	1159.09	1158.96	1158.85	1158.73	1158.66	1158.85	1159.06	1159.93	1160.5	1160.64	1160.67
W12	None present	None present	1160.58	1160.7		1160.6	1160.33	1160	1159.71	1159.42	1159.25	1159.12	1159.45	1159.43	1159.29	1159.15	1159.05	1158.94	1158.83	1158.7	1158.63	1158.79	1159.01	1159.71	1160.14	1160.26	1160.3	
W14	None present	None present	1159.62	1159.75		1159.66	1159.4	1159.08	1158.69	1158.37	1158.14	1157.99	1158.3	1158.27	1158.12	1157.97	1157.85	1157.73	1157.62	1157.49	1157.43	1157.58	1157.82	1158.63	1159.14	1159.3	1159.35	
W21	None present	None present	1160.78	1161.06		1160.52	1159.79	1159.2	1158.77	1158.61	1158.43	1158.37	1159.71	1159.1	1158.86	1158.88	1158.48	1158.34	1158.24	1158.17	1158.26	1158.73	1159.27	1160.45	1160.86	1160.81	1160.8	
W22	1160.5	1159.5	1161.68	-		-	1161.54	1161.4	1161.17	1160.87	1160.69	1160.56	<b>1160.46</b>	1160.52	<b>1160.43</b>	<b>1160.33</b>	<b>1160.23</b>	<b>1160.2</b>	<b>1160.05</b>	<b>1159.88</b>	<b>1159.92</b>	<b>1159.79</b>	<b>1159.68</b>	<b>1159.77</b>	<b>1159.98</b>	<b>1160.13</b>	<b>1160.27</b>	
W29	None present	None present	1160.81	-		-	1159.64	1159.15	1158.77	1158.67	1158.46	1158.46	1159.98	1159.24	1158.97	1158.94	1158.61	1158.45	1158.36	1158.29	1158.45	1158.89	1159.49	1160.59	1161.01	1160.92	1160.89	
W39	1160.3	1159.5	1162.76	1162.59		1162.66	1162.7	1162.62	1162.52	1162.36	1162.25	1162.19	1162.04	1161.95	1161.88	1161.8	1161.67	1161.61	1161.53	1161.39	1161.31	1161.25	1161.15	1161.18	1161.07	1161.22	1161.17	
W45	1161	1156	1163.35	-		-	1163.51	1163.45	1163.32	1163.16	1162.98	1162.74	1162.47	1162.34	1162.25	1162.07	1161.88	1161.74	1161.63	1161.44	1161.31	1161.18	1161.12	1161.01	1161.02	1161.1	1161.34	
W3A	1160.5	1159.2	1161.81	-		-	-	-	-	1160.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
W17	1160.5	1159.2	1162.05	-		-	-	-	-	1161.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
W18	None present	None present	1160.98	-		-	-	-	-	1159.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
W26	None present	None present	1160.98	-		-	-	-	-	1159.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
W40	1160	1159.6	1161.63	-		-	-	-	-	1160.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Lake Wausau Stage Notes: Oct. 4, 2016: 4.8 ft. drawdown in Lake Wausau.  
 Oct. 18, 2016: Large amount of rain north of Wausau resulted in 3-4 ft rise in river level.  
 Nov. 15, 2016: Refilling started at 2"/day, increasing to 6"/day by Nov. 19, 2016.

**Bold = Groundwater elevation below top of residual phase product**  
**Bold Italics = Groundwater elevation below bottom of residual phase product**

Footnotes:  
<sup>(1)</sup> Only apparent product thickness detected was at well W40 on 11/14/2016.

Well	Head Changes from July 9, 2016 Groundwater Elevations																										
W10A																											
W11		0.13																									
W12		0.12																									
W14		0.13																									
W21		0.28																									
W22																											
W29																											
W39		-0.17																									
W45																											
W3A																											
W17																											
W18																											
W26																											
W40																											



Prepared by: K. Quinn 3/24/2017  
 Checked by: T. Dushek 3/29/2017

TABLE 5a

**2017 Winter Groundwater Monitoring Analytical Results  
January 16, 19, 23, 2017  
Wauleco, Inc. - Wausau Facility  
Wausau, Wisconsin**

Sample ID	ES	PAL	W03A	W06R	W08	W10A	W10A Duplicate	W11	W12	W13	W16	W17	W19	W22	W22 Duplicate	W25	W26	W27
<b>Indicators</b>																		
Total sulfate (mg/L)	250	125			23	15	15	13	26	12	25	5		11	8.1		28	26
Nitrate nitrogen (mg/L)	10	2	<0.040	0.8	<b>4.1</b>					0.89		0.099	<b>3.4</b>	<0.24	<0.040	<b>4.2</b>	1.7	
Total organic carbon (mg/L)	None	None			1.6	7.6	7.2	2.1	1.8	3.9	1.8	4.5		11	10		3.7	18
Dissolved iron	300	150			<59	<b>981</b>	<b>974</b>	<59	<59	<59	<59	<b>250</b>		<b>392</b>	<59		<59	<b>7,550</b>
Dissolved manganese	50	25			<2.2	<b>1,970</b>	<b>1,950</b>	<b>485</b>	<2.2	14.1	<2.2	<b>310</b>		<b>3,310</b>	<b>3,250</b>		<b>76.1</b>	<b>22,100</b>
TPH as mineral spirits (ug/L)	None	None			<33	1500	1400	270	<34	<34	<33	650		5200	5800		420	9800
<b>Phenols</b>																		
2,3,4,6-Tetrachlorophenol	None	None	17	370	<3.0					0.66		3.6	25	430	460	0.6	69	
2,4,5-Trichlorophenol	None	None	<3.0	<24	<3.0					<3.0		<3.0	<3.0	<24	<24	<3.0	<3.0	
2,4,6-Trichlorophenol	None	None	<5.0	<100	<3.0					<3.0		<3.0	<5.1	<100	<100	<3.0	<10	
2,4-Dichlorophenol	None	None	<3.0	<26	<3.0					<3.0		<3.0	<3.0	<26	<26	<3.0	<3.0	
2,4-Dimethylphenol	None	None	<3.0	<40	<3.0					<3.0		<3.0	<3.0	<40	<40	<3.0	<4.0	
2,4-Dinitrophenol	None	None	<3.0	<58	<3.0					<3.0		<3.0	<3.0	<59	<59	<3.0	<5.8	
2,6-Dichlorophenol	None	None	<4.0	<80	<3.0					<3.0		<3.0	<4.0	<81	<81	<3.0	<8.0	
2-Chlorophenol	None	None	<3.0	<24	<3.0					<3.0		<3.0	<3.0	<24	<24	<3.0	<3.0	
2-Methylphenol	None	None	<3.0	<30	<3.0					<3.0		<3.0	<3.0	<30	<30	<3.0	<3.0	
2-Nitrophenol	None	None	<3.0	<24	<3.0					<3.0		<3.0	<3.0	<24	<24	<3.0	<3.0	
3- and 4-Methylphenol	None	None	<3.0	<34	<3.0					<3.0		<3.0	<3.0	<34	<34	<3.0	<3.4	
4,6-Dinitro-2-methylphenol	None	None	<3.0	<60	<3.0					<3.0		<3.0	<3.0	<61	<61	<3.0	<6.0	
4-Chloro-3-methylphenol	None	None	<3.0	<28	<3.0					<3.0		<3.0	<3.0	<28	<28	<3.0	<3.0	
4-Nitrophenol	None	None	<3.0	<40	<3.0					<3.0		<3.0	<3.0	<40	<40	<3.0	<4.0	
Pentachlorophenol	1	0.1	<b>320</b>	<b>5500</b>	<3.0					<b>3.7</b>		<b>170</b>	<b>230</b>	<b>6100</b>	<b>6100</b>	<b>6.2</b>	<b>830</b>	
Phenol	6000	1200	<3.0	<48	<3.0					<3.0		<3.0	<3.0	<48	<48	<3.0	<4.8	
<b>Total Phenols</b>			<b>337</b>	<b>5,870</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4.36</b>	<b>0</b>	<b>173.6</b>	<b>255</b>	<b>6530</b>	<b>6560</b>	<b>6.8</b>	<b>899</b>	<b>-</b>

NOTES:  
 Units are in µg/L unless otherwise noted.  
 Bold values indicate value above the PAL.  
 Bold and boxed values indicate value above the ES.  
**J** = estimated value.  
**Q** = laboratory control sample outside acceptance limits.  
**M** = matrix spike and/or spike duplicate recovery outside acceptance limits.  
**V** = raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.  
**Y** = replicate/duplicate precision outside acceptance limits.

By: T. Dushek 11/29/17  
 Checked by: A. Voit 12/15/17

TABLE 5a

**2017 Winter Groundwater Monitoring Analytical Results**  
**January 16, 19, 23, 2017**  
**Wauleco, Inc. - Wausau Facility**  
**Wausau, Wisconsin**

Sample ID	ES	PAL	W28	W33	W39	W40	W41	DFOMW5	DFOMW11	DFOMW12	DFOMW12 Duplicate	FP2	PW17	W71	W72	W73	W74	Equipment Blank
<b>Indicators</b>																		
Total sulfate (mg/L)	250	125	15	20								3.8	21					<1
Nitrate nitrogen (mg/L)	10	2		<0.040	0.15	<0.040	0.2											<0.040
Total organic carbon (mg/L)	None	None	1.8	21								12	6.6					<0.50
Dissolved iron (mg/L)	300	150	<59	<b>2,560</b>								<b>15,600</b>	<b>M</b> 221					<59
Dissolved manganese (mg/L)	50	25	<2.2	<b>1,510</b>								<b>7,300</b>	<b>M</b> <b>1,380</b>					<2.2
TPH as mineral spirits (ug/L)	None	None	<34	9400								5500	1300					<34
<b>Phenols</b>																		
2,3,4,6-Tetrachlorophenol	None	None		2000	96	940	110											<3.0
2,4,5-Trichlorophenol	None	None		<48	<6.2	<49	<13											<3.0
2,4,6-Trichlorophenol	None	None		<200	<26	<200	<52											<3.0
2,4-Dichlorophenol	None	None		<53	<6.7	<53	<14											<3.0
2,4-Dimethylphenol	None	None		<81	<10	<82	<21											<3.0
2,4-Dinitrophenol	None	None		<120	<15	<120	<30											<3.0
2,6-Dichlorophenol	None	None		<160	<21	<160	<42											<3.0
2-Chlorophenol	None	None		<48	<6.2	<49	<13											<3.0
2-Methylphenol	None	None		<61	<7.7	<61	<16											<3.0
2-Nitrophenol	None	None		<48	<6.2	<49	<13											<3.0
3- and 4-Methylphenol	None	None		<69	<8.8	<69	<18											<3.0
4,6-Dinitro-2-methylphenol	None	None		<120	<15	<120	<31											<3.0
4-Chloro-3-methylphenol	None	None		<57	<7.2	<57	<15											<3.0
4-Nitrophenol	None	None		<81	<10	<82	<21											<3.0
Pentachlorophenol	1	0.1		<b>14,000</b>	<b>1,700</b>	<b>11,000</b>	<b>2,600</b>	<b>2.1</b>	<b>2,800</b>	<b>5,000</b>	<b>4,500</b>			<3.0	<3.0	<3.0	<3.0	<3.0
Phenol	6000	1200		<97	<12	<98	<25											<3.0
<b>Total Phenols</b>			-	<b>16,000</b>	<b>1,796</b>	<b>11,940</b>	<b>2,710</b>	<b>2.1</b>	<b>2,800</b>	<b>5,000</b>	<b>4,500</b>	-	-	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

NOTES:  
 Units are in µg/L unless otherwise noted.  
 Bold values indicate value above the PAL.  
 Bold and boxed values indicate value above the ES.  
**J** = estimated value.  
**Q** = laboratory control sample outside acceptance limits.  
**M** = matrix spike and/or spike duplicate recovery outside acceptance limits.  
**V** = raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.  
**Y** = replicate/duplicate precision outside acceptance limits.

By: T. Dushek 11/29/17  
 Checked by: A. Voit 12/15/17

**TABLE 5b**  
**2017 Summer Groundwater Monitoring Analytical Results**  
**July 10, 11, 13, 17, 18, 20, 2017**  
**Wauleco, Inc. - Wausau Facility**  
**Wausau, Wisconsin**

Sample ID	ES	PAL	W01A	W02	W02 Duplicate	W03A	W03B	W06R	W08	W09	W10A	W10A Duplicate	W10B	W11	W12	W13	W16	W17	W18	W19	W21	W22
<b>Indicators</b>																						
Total sulfate (mg/L)	250	125				3.1		83	18		9.6	10		21	22.0	19	21	3.6	8.9	16.0		11
Nitrate nitrogen (mg/L)	10	2	<b>4.2</b>	0.96	<b>2.6</b>	<0.040	<b>2.9</b>	<b>4.9</b>	<b>3</b>	0.11	<0.040	0.056	0.62	0.93	<b>6.3</b>	0.66 <b>Y</b>	<b>5.4</b>	0.07	0.15 <b>M</b>	1.6	1.8	0.25
Total organic carbon (mg/L)	None	None				4.6		8.7	0.9		9.4			2.4	1.6	3.2	2.7	4.7	1.0	4		9.9
Dissolved iron	300	150				<b>2840</b>		<59	<59		<b>1030</b>	<b>1040</b>		<59	<59	<59	<59	<b>184.0</b>	<59	<b>665</b>		<b>191</b>
Dissolved manganese	50	25				<b>4920</b>		12	<2.2		<b>3050</b>	<b>3080</b>		<b>84.2</b>	<2.2	<b>84.7</b>	<2.2	<b>1440</b>	<2.2	<b>82.6</b>		<b>1370</b> <b>M</b>
Dissolved mercury	2	0.2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.05	<0.020	<0.020	<0.020	<0.020
TPH as mineral spirits	None	None	360 <b>B</b>	3200	3000	3400	57	50	<43	<38	1,700	1,800	52	48	35 <b>B</b>	49 <b>B</b>	39 <b>B</b>	710	34 <b>B</b>	47	36 <b>B</b>	1,400
<b>Phenols</b>																						
2,3,4,6-Tetrachlorophenol	None	None	2.2	49	39	53	0.74	12	<3.0	<3.0	57	52	0.54	2.3	<3.0	<3.0	<3.0	3.2	<3.0	16	<3.0	390
2,4,5-Trichlorophenol	None	None	<3.0	<6.1	<6.2	<3.0	<3.0	<3.0	<3.0	<3.0	<12	<12	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<12
2,4,6-Trichlorophenol	None	None	<3.0	<25	<26	<13	<3.0	<3.0	<3.0	<3.0	<52	<52	<3.0	<5.1	<3.0	<3.0	<3.0	<5.1	<3.0	<5.1	<3.0	<51
2,4-Dichlorophenol	None	None	<3.0	<6.6	<6.7	<3.3	<3.0	<3.0	<3.0	<3.0	<13	<13	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<13
2,4-Dimethylphenol	None	None	<3.0	<10	<10	<5.1	<3.0	<3.0	<3.0	<3.0	<21	<21	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<20
2,4-Dinitrophenol	None	None	<3.0	<15	<15	<7.3	<3.0	<3.0	<3.0	<3.0	<30	<30	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<29
2,6-Dichlorophenol	None	None	<3.0	<20	<21	<10	<3.0	<3.0	<3.0	<3.0	<41	<41	<3.0	<4.0	<3.0	<3.0	<3.0	<4.1	<3.0	<4.0	<3.0	<40
2-Chlorophenol	None	None	<3.0	<6.1	<6.2	<3.0	<3.0	<3.0	<3.0	<3.0	<12	<12	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<12
2-Methylphenol	None	None	<3.0	<7.6	<7.7	<3.8	<3.0	<3.0	<3.0	<3.0	<15	<15	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<15
2-Nitrophenol	None	None	<3.0	<6.1	<6.2	<3.0	<3.0	<3.0	<3.0	<3.0	<12	<12	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<12
3- and 4-Methylphenol	None	None	<3.0	<8.6	<8.8	<4.3	<3.0	<3.0	<3.0	<3.0	<18	<18	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<17
4,6-Dinitro-2-methylphenol	None	None	<3.0	<15	<15	<7.6	<3.0	<3.0	<3.0	<3.0	<31	<31	<3.0	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	<3.0	<30
4-Chloro-3-methylphenol	None	None	<3.0	<7.1	<7.2	<3.5	<3.0	<3.0	<3.0	<3.0	<14	<14	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<14
4-Nitrophenol	None	None	<3.0	<10	<10	<5.1	<3.0	<3.0	<3.0	<3.0	<21	38	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<20
Pentachlorophenol	1	0.1	<b>27</b>	<b>830</b>	<b>690</b>	<b>680</b>	<b>19</b>	<b>170</b>	<3.0	<3.0	<b>1200</b>	<b>1100</b>	<b>7.5</b> <b>B</b>	<b>52</b>	<3.0	<b>0.75</b> <b>B</b>	<3.0	<b>69</b>	<3.0	<b>120</b>	<3.0	<b>4200</b>
Phenol	6000	1200	<3.0	<12	<12	<6.1	<3.0	<3.0	<3.0	<3.0	<25	<25	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<24
<b>Total Phenols</b>			<b>29.2</b>	<b>879</b>	<b>729</b>	<b>733</b>	<b>19.74</b>	<b>182</b>	<b>0</b>	<b>0</b>	<b>1257</b>	<b>1190</b>	<b>8.04</b>	<b>54.3</b>	<b>0</b>	<b>0.75</b>	<b>0</b>	<b>72.2</b>	<b>0</b>	<b>136</b>	<b>0</b>	<b>4590</b>
<b>Volatile Organics</b>																						
1,2,4-Trimethylbenzene	480 A	96 A	5.5	<b>110</b>	<b>130</b>	<b>700</b>	0.54	1.1	<0.40	<0.40	<b>490</b>	<b>590</b>	<0.40	<0.40	<0.40	<0.40	<0.40	29	<0.40	3.1	<0.40	<b>270</b>
Naphthalene	100	10	1.1	<b>10</b>	<b>12</b>	<b>53</b>	<0.90	<0.90	<0.90	<0.90	<b>28</b>	<b>33</b>	<0.90	<0.90	<0.90	<0.90	<0.90	7.1	<0.90	0.98	<0.90	<b>47</b>
m & p-Xylene	10000C	1000C	<0.80	<4.0	<4.0	18	<0.80	<0.80	<0.80	<0.80	18	19	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	12
o-Xylene	10000C	1000C	1.8	69	64	100	<0.40	1.5	<0.40	<0.40	84	100	<0.40	<0.40	<0.40	<0.40	<0.40	6.7	<0.40	1.8	<0.40	58
<b>Total VOCs</b>			<b>8.4</b>	<b>189</b>	<b>206</b>	<b>871</b>	<b>0.54</b>	<b>2.6</b>	<b>0</b>	<b>0</b>	<b>620</b>	<b>742</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>42.8</b>	<b>0</b>	<b>5.88</b>	<b>0</b>	<b>387</b>

TABLE 5b

**2017 Summer Groundwater Monitoring Analytical Results**  
**July 10, 11, 13, 17, 18, 20, 2017**  
**Wauleco, Inc. - Wausau Facility**  
**Wausau, Wisconsin**

Sample ID	ES	PAL	W25	W26	W27	W27 Duplicate	W28	W29	W32	W33	W36	W39	W40	W41	FP02	PW17	Field Blank 01	DFOMW5	DFOMW11	DFOMW12	DFOMW12 Duplicate	W71	W72	W73	W74		
<b>Indicators</b>																											
Total sulfate (mg/L)	250	125		16	69	86	10	20		12			10	22	3.3	12	<1.0								17		
Nitrate nitrogen (mg/L)	10	2	<b>6.8</b>	1.8	<0.40	<0.040	0.81	0.27	<0.040	0.44	<b>5.7</b>	<0.040	<0.040	0.14			<0.040										
Total organic carbon (mg/L)	None	None		3.2	52	47	1.5	4.9		9.3			43	20.0	9.4	7.4	<0.50								10		
Dissolved iron	300	150		<59	<b>4610</b>	<b>4860</b>	<59	<59		<b>693</b>			<b>3360</b>	<b>1380</b>	<b>16400</b>	<b>3960</b>	<59								<59		
Dissolved manganese	50	25		<b>270</b>	<b>15900</b>	<b>16500</b>	<2.2	<b>35.5</b>		<b>1850</b>			<b>8080</b>	<b>14300</b>	<b>9430</b>	<b>3790</b>	<2.2								10.1		
Dissolved mercury	2	0.2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<b>0.058</b>	<0.020	<0.020			<0.020										
TPH as mineral spirits	None	None	47 <b>B</b>	51	6300	7200	34 <b>B</b>	350	39 <b>B</b>	3,500	44 <b>B</b>	980	250,000	1,400	3,900	2,100	54 <b>B</b>	92 <b>B</b>					35 <b>B</b>	<34	39 <b>B</b>	36 <b>B</b>	
<b>Phenols</b>																											
2,3,4,6-Tetrachlorophenol	None	None	<3.0	2	250	290	<3.0	490	<3.0	1200	2.0	40	1,700	110			<3.0										
2,4,5-Trichlorophenol	None	None	<3.0	<3.0	<12	<12	<3.0	<12	<3.0	<32	<3.0	3	<60	<24			<3.0										
2,4,6-Trichlorophenol	None	None	<3.0	<3.0	<52	<51	<3.0	<50	<3.0	<130	<3.0	<10.0	<250	<100			<3.0										
2,4-Dichlorophenol	None	None	<3.0	<3.0	<13	<13	<3.0	<13	<3.0	<35	<3.0	<3.0	<65	<27			<3.0										
2,4-Dimethylphenol	None	None	<3.0	<3.0	<21	<20	<3.0	<20	<3.0	<54	<3.0	<4.0	<100	<41			<3.0										
2,4-Dinitrophenol	None	None	<3.0	<3.0	<30	<30	<3.0	<29	<3.0	<78	<3.0	<5.9	<150	<59			<3.0										
2,6-Dichlorophenol	None	None	<3.0	<3.0	<41	<41	<3.0	<40	<3.0	<110	<3.0	<8.1	<200	<82			<3.0										
2-Chlorophenol	None	None	<3.0	<3.0	<12	<12	<3.0	<12	<3.0	<32	<3.0	<3.0	<60	<24			<3.0										
2-Methylphenol	None	None	<3.0	<3.0	<15	<15	<3.0	<15	<3.0	<40	<3.0	<3.0	<75	<31			<3.0										
2-Nitrophenol	None	None	<3.0	<3.0	<12	<12	<3.0	<12	<3.0	<32	<3.0	<3.0	<60	<24			<3.0										
3- and 4-Methylphenol	None	None	<3.0	<3.0	<18	<17	<3.0	<17	<3.0	<46	<3.0	<3.4	<85	<35			<3.0										
4,6-Dinitro-2-methylphenol	None	None	<3.0	<3.0	<31	<31	<3.0	<30	<3.0	<81	<3.0	<6.1	<150	<61			<3.0										
4-Chloro-3-methylphenol	None	None	<3.0	<3.0	<14	<14	<3.0	<14	<3.0	<38	<3.0	<3.0	<70	<29			<3.0										
4-Nitrophenol	None	None	<3.0	<3.0	<21	<20	<3.0	<20	<3.0	<54	<3.0	<4.0	<100	<41			<3.0										
Pentachlorophenol	1	0.1	<b>3</b>	<b>19</b>	<b>3,700</b>	<b>3,800</b>	<3.0	<b>5100</b>	<3.0	<b>7400</b>	<b>31</b>	<b>800</b>	<b>19,000</b>	<b>4,100</b>			<3.0	<b>0.55 B</b>	<b>810</b>	<b>2300</b>	<b>2800</b>	<3.0	<3.0	<3.0	<3.0		
Phenol	6000	1200	<3.0	<3.0	<25	<24	<3.0	<24	<3.0	<65	<3.0	<4.8	<120	<49			<3.0										
<b>Total Phenols</b>			<b>3.0</b>	<b>21</b>	<b>3950</b>	<b>4090</b>	<b>0</b>	<b>5590</b>	<b>0</b>	<b>8600</b>	<b>33</b>	<b>843</b>	<b>20,700</b>	<b>4,210</b>			<b>0</b>	<b>0.55</b>	<b>810</b>	<b>2300</b>	<b>2800</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
<b>Volatile Organics</b>																											
1,2,4-Trimethylbenzene	480 A	96 A	<0.40	<0.40	<b>600</b>	<b>610</b>	<0.40	3.8	<0.40	<b>270</b>	0.5	<b>96</b>	<b>2200</b>	<b>160</b>			<0.40	<0.40					<0.40	<0.40	<0.40	<0.40	
Naphthalene	100	10	<0.90	<0.90	<b>81</b>	<b>84</b>	<0.90	<0.90	<0.90	<b>15</b>	<0.90	<b>13</b>	<b>300</b>	<b>26</b>			<0.90	3				<0.90	<0.90	<0.90	<0.90		
m & p-Xylene	10000C	1000C	<0.80	<0.80	33	33	<0.80	3.6	<0.80	<8.0	<0.80	<4.0	89	<8.0			<0.80	<0.80				<0.80	<0.80	<0.80	<0.80		
o-Xylene	10000C	1000C	<0.40	<0.40	79	80	<0.40	1.4	<0.40	25	<0.40	13	440	56			<0.40	<0.40				<0.40	<0.40	<0.40	<0.40		
<b>Total VOCs</b>			<b>0</b>	<b>0</b>	<b>793</b>	<b>807</b>	<b>0</b>	<b>8.8</b>	<b>0</b>	<b>310</b>	<b>0.5</b>	<b>122</b>	<b>3029</b>	<b>242</b>			<b>0</b>	<b>3</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		

## NOTES:

Units are in µg/L unless otherwise noted.

Bold values indicate value above the PAL.

Bold and boxed values indicate value above the ES.

A = ES and PAL for Trimethylbenzenes (1,2,4- and 1,3,5 - combined)

B = Analyte detected in the associated Method Blank

C = ES and PAL for Xylene includes meta-, ortho-, and para- (The PAL has been set at a concentration that is intended to address taste and odor concerns associated with this substance).

H = analyte hold time exceeded.

M = matrix spike and/or spike duplicate recovery outside acceptance limits.

Y = replicate/duplicate precision outside acceptance limits.

By: T. Dushek 11/29/17

Checked by: A. Voit 12/15/17

**TABLE 6**

**2017 Groundwater Treatment Removal of Pentachlorophenol (PCP)  
Wauleco, Inc.  
Wausau, Wisconsin**

Year	Month	Avg Extracted GPM <sup>(1)</sup>	Total Gallons <sup>(1)</sup>	PCP Conc 1 (ug/L)	PCP Conc 2 (ug/L)	PCP Conc 3 (ug/L)	PCP Conc 4 (ug/L)	PCP Conc 5 (ug/L)	System	
									Influent Avg PCP Conc. (ug/L)	Effluent Avg PCP Conc. (ug/L)
2017	January	21.48	958,991	4,889	4,510	6,314	3,404		4,779	3.74
	February	21.14	852,474	4,391	3,207	5,893	5,225		4,679	3.79
	March	24.04	1,072,987	3,946	3,985	3,812	3,793	5,358	4,179	14.29
	April	24.98	729,852	4,912	3,606	3,726			4,081	2.57
	May	22.81	1,018,459	3,160	3,924	4,439	5,639		4,291	1.13
	June	22.41	968,019	4,586	7,549	7,713	5,779	7,355	6,596	1.27
	July	21.56	962,594	4,562	5,810	3,513	3,475		4,340	1.19
	August	21.4	955,164	3,041	10,872	4,059	2,545		5,129	1.68
	September	22.13	955,921	2,678	2,862	3,851	3,230	4,478	3,420	1.80
	October	22.27	994,265	5,111	4,447	4,115	3,665		4,335	1.27
	November	21.54	930,590	5,069	5,686	8,844	8,645	5,980	6,845	5.07
	December	21.51	959,989	4,434	5,945	7,135	4,362		5,469	2.55
Total Discharged to POTW			11,359,305 gallons	Annual Average					4,845	3.36

Total for Year 2017 11,359,305 gallons

Pounds of PCP treated =	459 pounds
-------------------------	------------

Equivalent product removed <sup>2</sup> =	1,377 gallons
---	---------------

**NOTES:**

0.264 gallons = 1 liter.

453.6 grams = 1 pound.

PCP = pentachlorophenol.

PCP concentrations from weekly field samples (PCP Conc 1=week 1, etc.) taken of fluidized bed reactor (FBR) influent (Table 1 of Quarterly Reports).

Effluent average PCP concentrations calculated from field sample results taken of system effluent (Table 1 of Quarterly Reports).

gpm = gallons per minute.

**FOOTNOTES:**

(1) Values from Table 2 of Quarterly Reports.

(2) equation used:

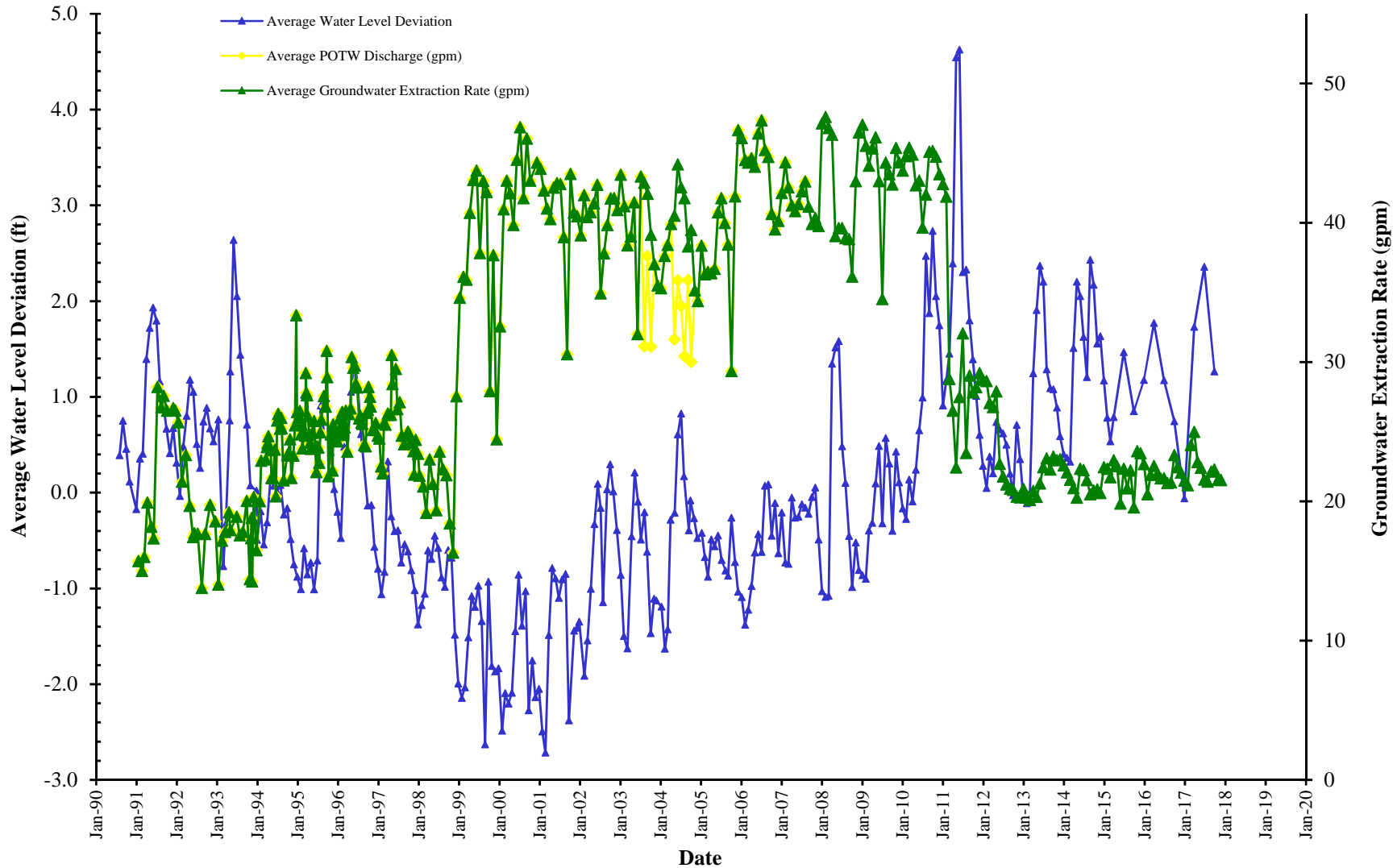
$$\text{lbs of PCP removed} / 5\% \times (1 \text{ gallon water} / 8.34 \text{ pounds water}) \times (1 \text{ pound water} / 0.80 \text{ pound product}) \times (1 \text{ gallon product} / 1 \text{ gallon water})$$

Prepared by: T. Dushek, 1/4/2018

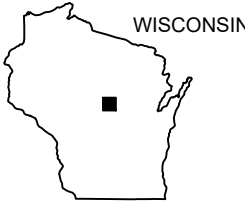
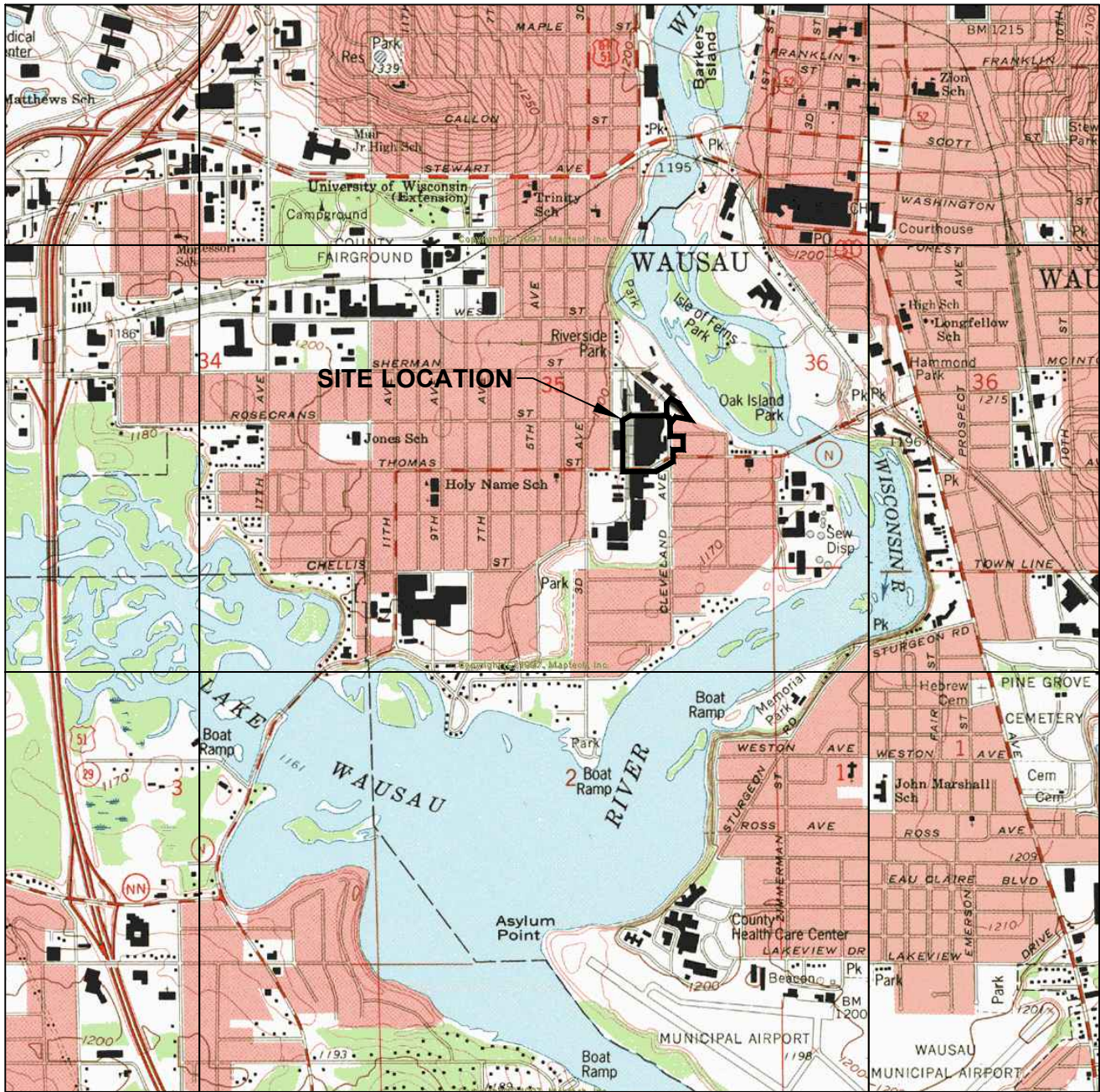
Checked by: K. Quinn, 6/28/2018

**FIGURE 1**

**Average Groundwater Extraction Rates and Water Level Deviation Versus Time  
Wauleco, Inc.  
Wausau, WI**



**Note:** The Average Groundwater Extraction Rate is a monthly average of the flow into the treatment system. The monthly average POTW discharge is less than the total extraction rate during the PPT pilot test due to the injection of treated water into IW01.



**NOTE**  
 BASE MAP DEVELOPED FROM THE WAUSAU WEST AND WAUSAU EAST, WISCONSIN 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAPS, DATED 1993. PART OF SECTION 35, T29N, R8E

QUADRANGLE LOCATION



708 Heartland Trail  
 Suite 3000  
 Madison, WI 53717  
 Phone: 608.826.3600

PROJECT: **WAULECO, INC.**  
**ANNUAL GROUNDWATER MONITORING REPORT**  
**WAUSAU, WISCONSIN**

TITLE: **SITE LOCATION MAP**

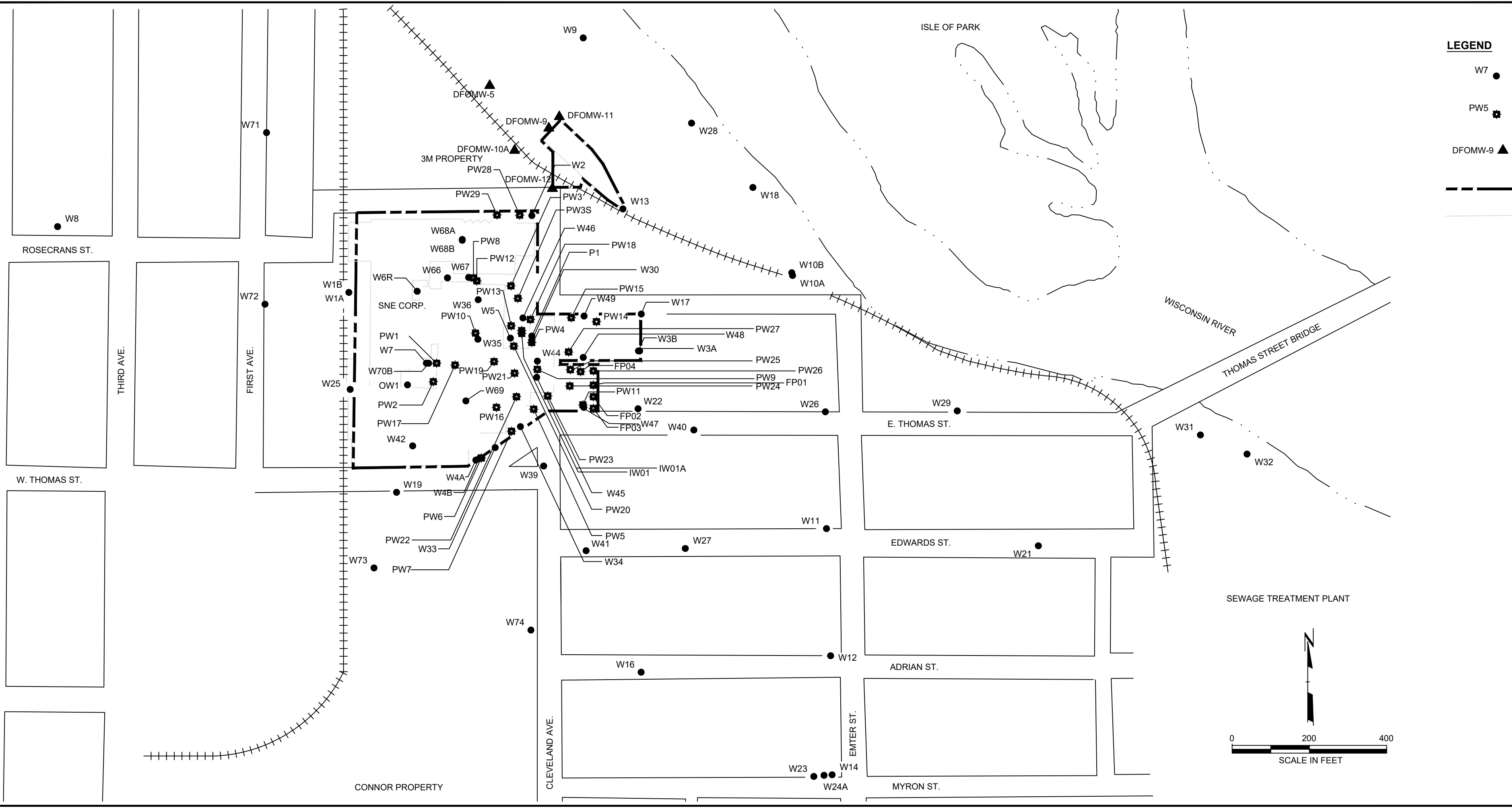
DRAWN BY: L. STORMER  
 CHECKED BY: K. QUINN  
 APPROVED BY: B. IVERSON  
 DATE: JULY 2018  
 PROJ. NO.: 189597 - ANNUAL REPORT  
 FILE: 189597.0006.01.dwg

**DRAWING 1**

8.541 - USER: K3044 - ATTACHED IMAGES: 0-EC, 0-BN, 0-ES, 0-NC, 0-WN, 0-DC, 0-EC, 0-EN, 0-ES: DRAWING NAME: J:\Wauleco\189597 - Annual\2017\0006\189597.0006.01.dwg - PLOT DATE: July 24, 2018 - 2:09PM - LAYOUT: DRAWING 1  
 Version: 2017-10-21



T:\04 - USER KQIN - ATTACHED REFS - ATTACHED IMAGES -  
 DRAWING NAME: J:\WAUCO\189597 - Annual 2017\0006 - Annual 2017\0006\_189597\_0006\_02.dwg -- PLOT DATE: July 24, 2018 - 2:08PM -- LAYOUT: DRAWING 2  
 Version: 2017-10-21



**LEGEND**

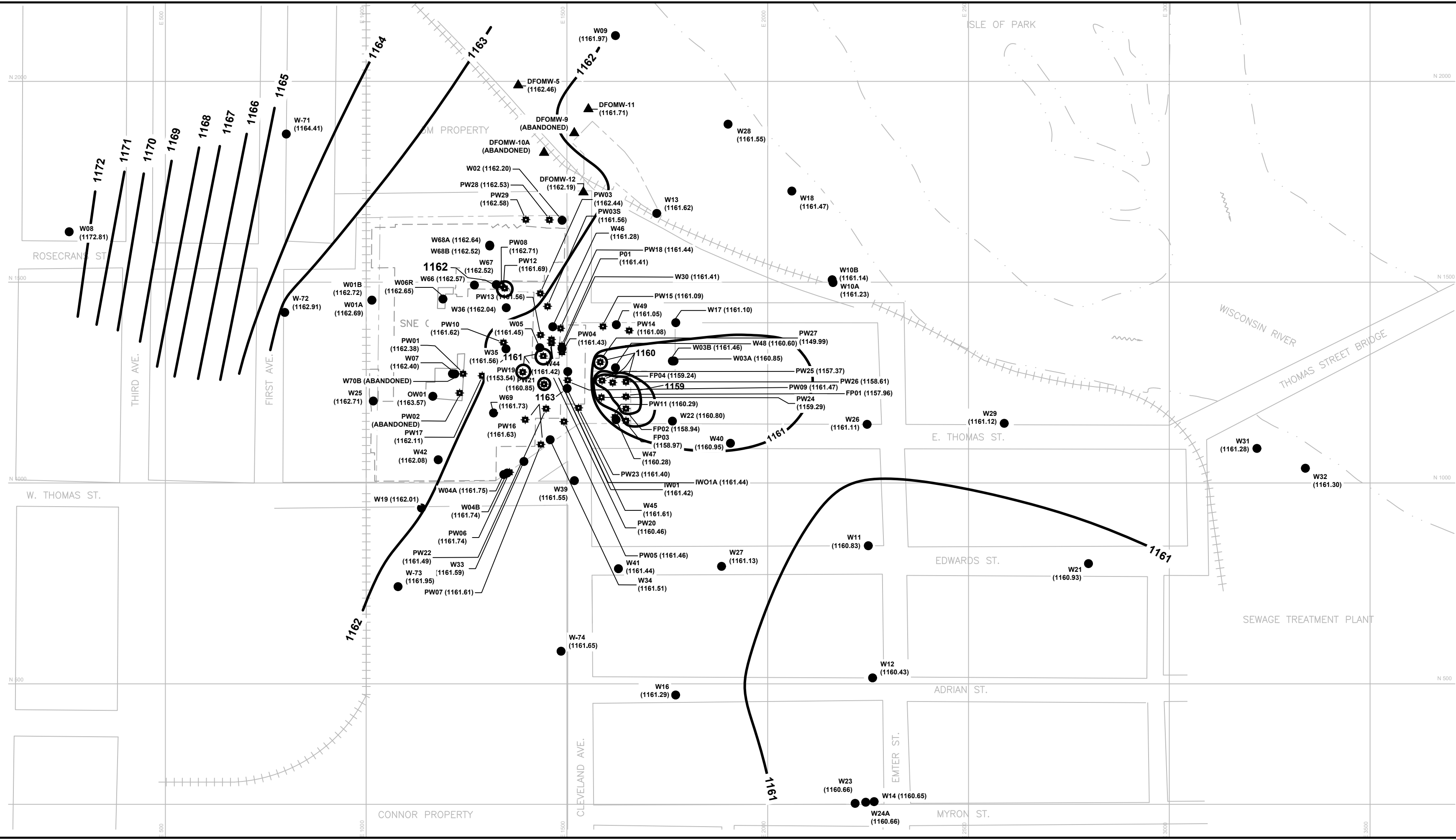
- W7 ● MONITORING WELL LOCATION AND NUMBER
- PW5 ■ EXTRACTION WELL LOCATION AND NUMBER
- DFOMW-9 ▲ (3M) GROUNDWATER MONITORING WELL AND NUMBER
- APPROXIMATE PROPERTY LINE
- FORMER BUILDING OUTLINE

SEWAGE TREATMENT PLANT

SCALE IN FEET

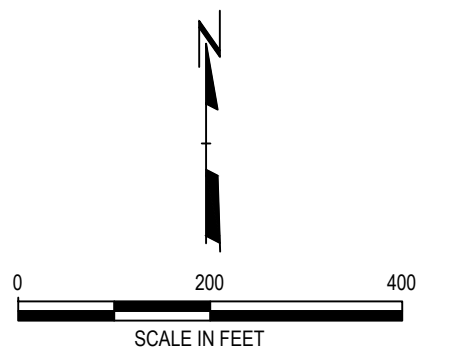
PROJECT:		<b>WAULECO, INC.</b>	
		<b>ANNUAL GROUNDWATER MONITORING REPORT</b>	
		<b>WAUSAU, WISCONSIN</b>	
TITLE:			
<b>SITE FEATURES MAP</b>			
DRAWN BY:	L. STORMER	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN		
APPROVED BY:	B. IVERSON	<b>DRAWING 2</b>	
DATE:	JULY 2018		
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600	
FILE NO.:		189597.0006.02.dwg	

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 Version: 2017-10-21

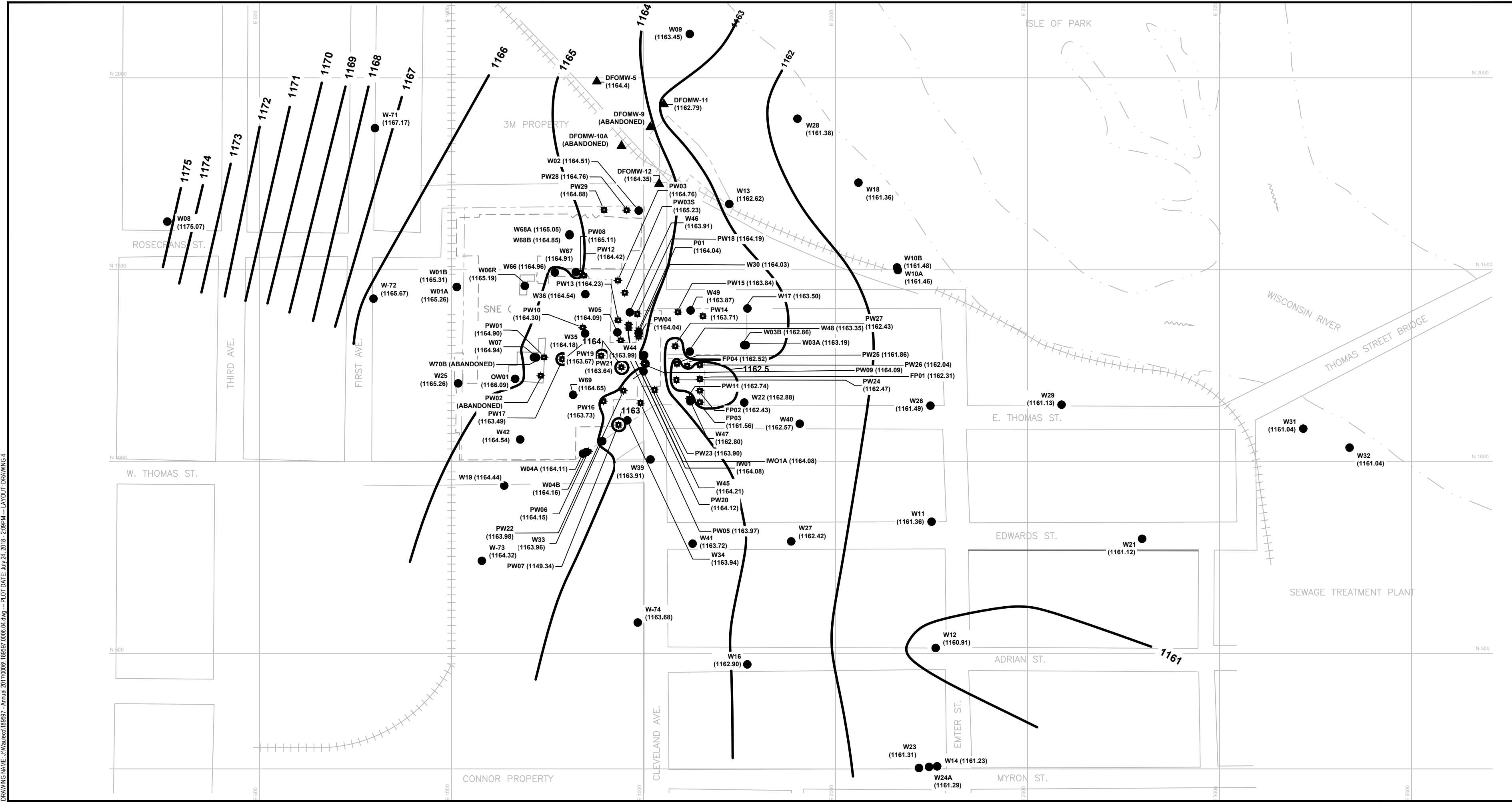


- LEGEND**
- W17 ● MONITORING WELL LOCATION, NUMBER AND WATER TABLE ELEVATION (1161.34)
  - PW12 ■ EXTRACTION WELL LOCATION, NUMBER AND WATER TABLE ELEVATION (1162.34)
  - APPROXIMATE PROPERTY LINE
  - - - FORMER BUILDING OUTLINE
  - 1161 — WATER TABLE ELEVATION CONTOUR INTERVAL VARIES (DASHED WHERE INFERRED)
  - DFOMW-5 ▲ 3M GROUNDWATER MONITORING WELL

- NOTES**
- BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
  - WATER ELEVATIONS OBTAINED BY TRC ON JANUARY 9, 2017. ON THIS DATE, THE PUMPING RATE OF THE GROUNDWATER EXTRACTION SYSTEM WAS APPROXIMATELY 22.4 GPM.
  - WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.

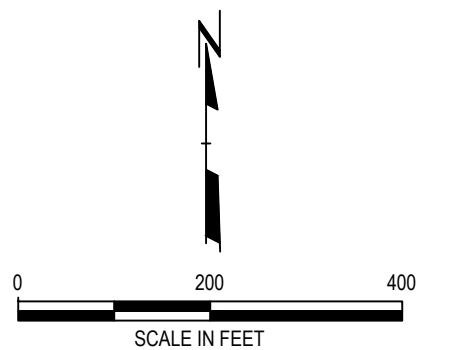


PROJECT:		<b>WAULECO, INC.</b>	
		<b>ANNUAL GROUNDWATER MONITORING REPORT</b>	
		<b>WAUSAU, WISCONSIN</b>	
TITLE:			
<b>WATER TABLE MAP JANUARY 9, 2017</b>			
DRAWN BY:	L. STORMER	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	<b>DRAWING 3</b>	
APPROVED BY:	B. IVERSON		
DATE:	JULY 2018		
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600	
FILE NO.:	189597.0006.03.dwg		



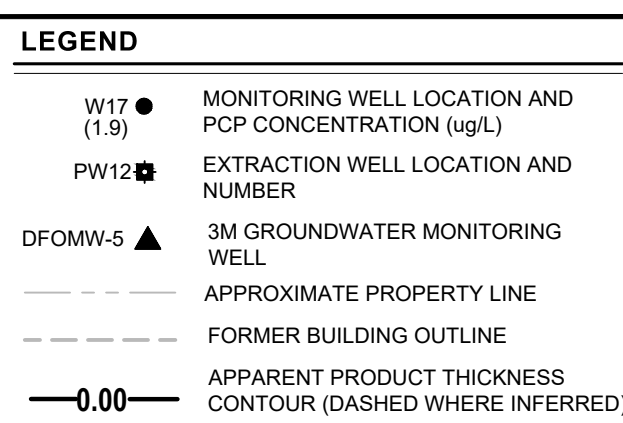
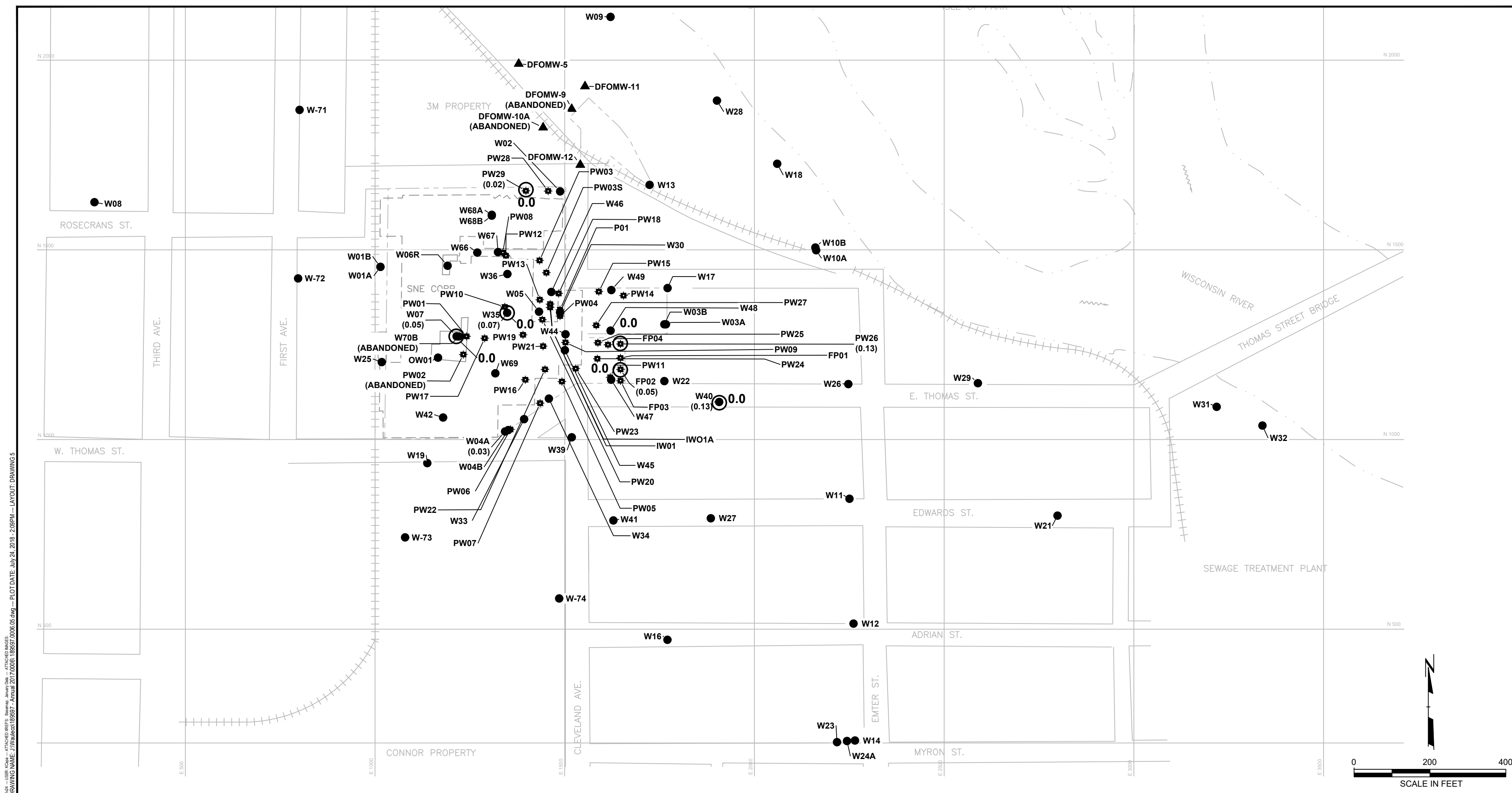
- LEGEND**
- W17 ● (1161.34) MONITORING WELL LOCATION, NUMBER AND WATER TABLE ELEVATION
  - PW12 ■ (1162.34) EXTRACTION WELL LOCATION, NUMBER AND WATER TABLE ELEVATION
  - APPROXIMATE PROPERTY LINE
  - - - - - FORMER BUILDING OUTLINE
  - 1161 — WATER TABLE ELEVATION CONTOUR. CONTOUR INTERVAL VARIES (DASHED WHERE INFERRED)
  - DFOMW-5 ▲ 3M GROUNDWATER MONITORING WELL

- NOTES**
1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
  2. WATER ELEVATIONS OBTAINED BY TRC ON JULY 7, 2017. ON THIS DATE, THE PUMPING RATE OF THE GROUNDWATER EXTRACTION SYSTEM WAS APPROXIMATELY 20.7 GPM.
  3. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.

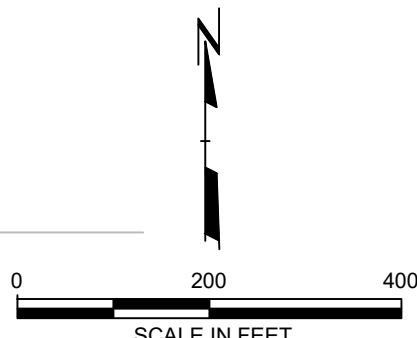


<b>PROJECT:</b>		<b>WAULECO, INC.</b>	
		<b>ANNUAL GROUNDWATER MONITORING REPORT</b>	
		<b>WAUSAU, WISCONSIN</b>	
<b>TITLE:</b>			
<b>WATER TABLE MAP JULY 7, 2017</b>			
<b>DRAWN BY:</b>	L. STORMER	<b>PROJ NO.:</b>	189597 - ANNUAL REPORT
<b>CHECKED BY:</b>	K. QUINN	<b>DRAWING 4</b>	
<b>APPROVED BY:</b>	B. IVERSON		
<b>DATE:</b>	JULY 2018		
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600	
<b>FILE NO.:</b>		189597.0006.04.dwg	

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 Version: 2017-10-21

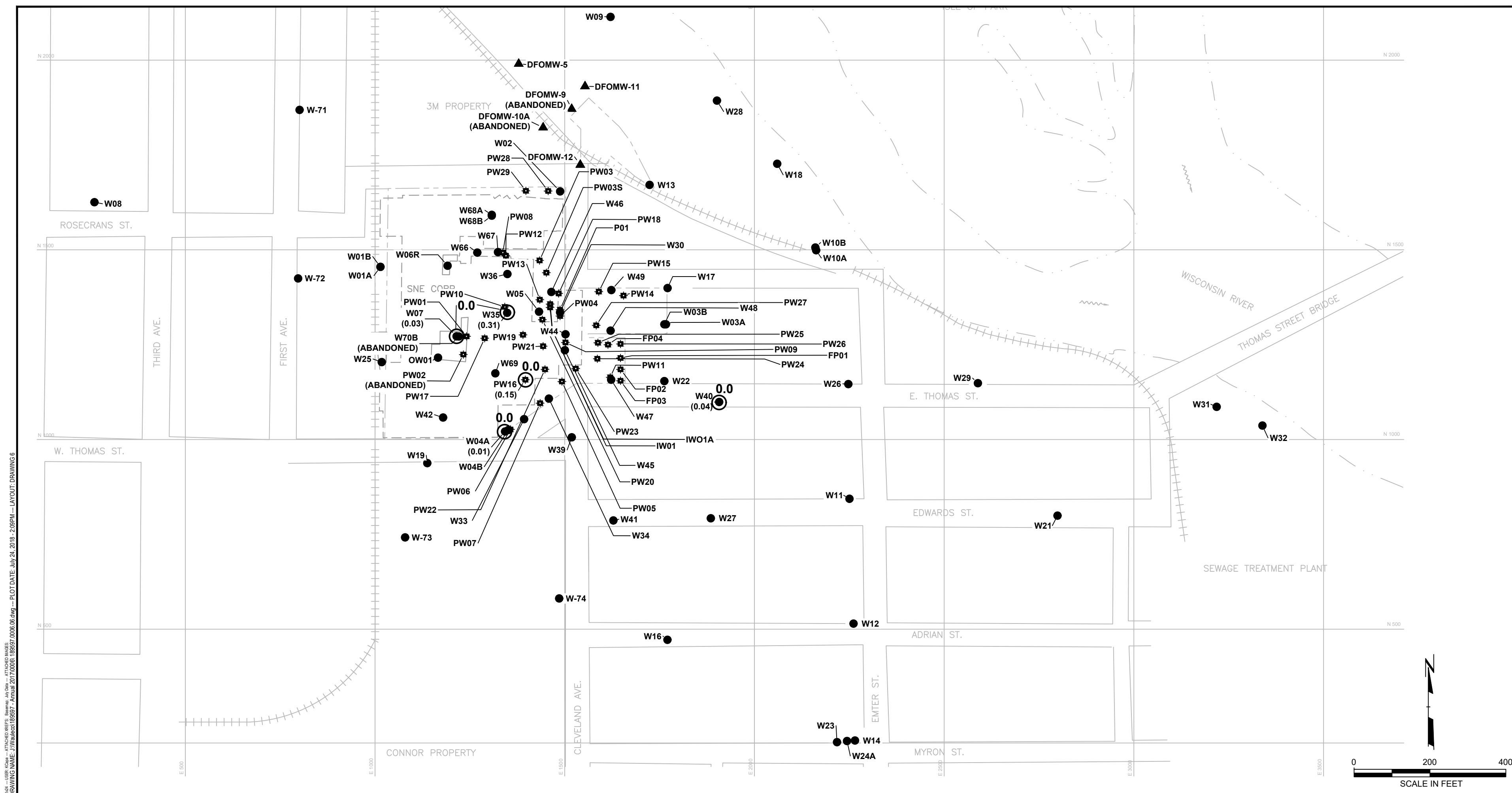


- ### NOTES
- BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
  - PRODUCT THICKNESS OBTAINED BY TRC ON JANUARY 9, 2017.
  - ALL WELLS WITH NO PRODUCT THICKNESS VALUE INDICATES A VALUE OF "0.00".
  - WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.



PROJECT:		<b>WAULECO, INC.</b>	
		<b>ANNUAL GROUNDWATER MONITORING REPORT WAUSAU, WISCONSIN</b>	
TITLE:		<b>PRODUCT (OIL) THICKNESS MAP (JANUARY 9, 2017)</b>	
DRAWN BY:	L. STORMER	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	<b>DRAWING 5</b>	
APPROVED BY:	B. IVERSON		
DATE:	JULY 2018		
DRAWING NO.:		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600	
FILE NO.:		189597.0006.05.dwg	

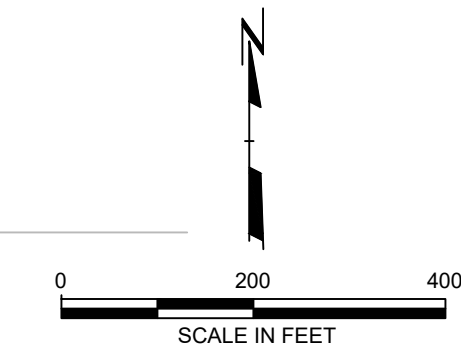
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 Version: 2017.10.21



**LEGEND**

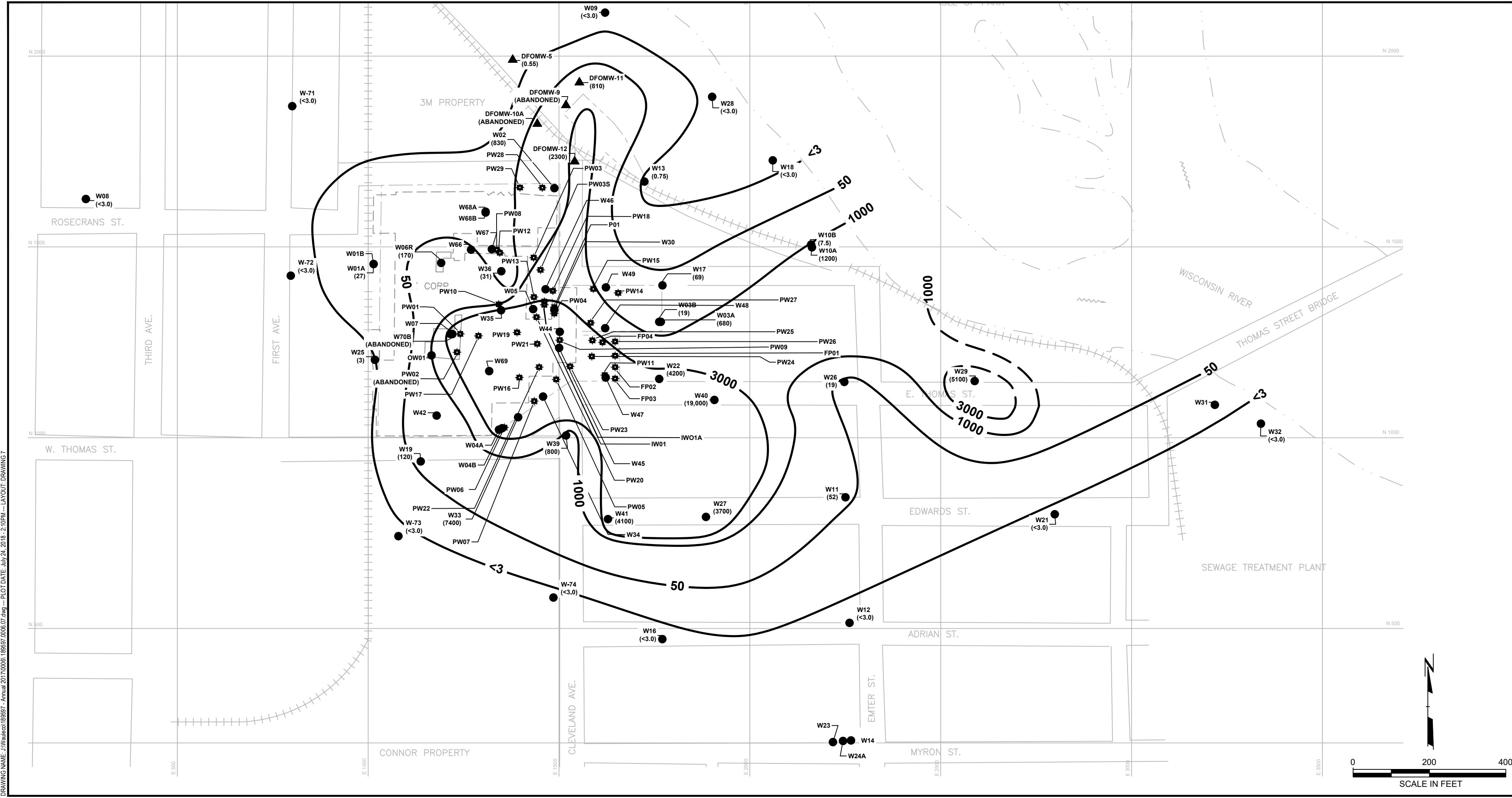
● W17 (0.00)	MONITORING WELL LOCATION AND PCP CONCENTRATION (ug/L)
⊛ PW12 (0.00)	EXTRACTION WELL LOCATION AND NUMBER
▲ DFOMW-5	3M GROUNDWATER MONITORING WELL
---	APPROXIMATE PROPERTY LINE
- - -	FORMER BUILDING OUTLINE
- 0.0 -	APPARENT PRODUCT THICKNESS CONTOUR (DASHED WHERE INFERRED)

- NOTES**
1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
  2. PRODUCT THICKNESS OBTAINED BY TRC ON JULY 7, 2017.
  3. ALL WELLS WITH NO PRODUCT THICKNESS VALUE INDICATES A VALUE OF "0.00".
  4. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC.



PROJECT:		<b>WAULECO, INC.</b>	
		<b>ANNUAL GROUNDWATER MONITORING REPORT</b>	
		<b>WAUSAU, WISCONSIN</b>	
TITLE:		<b>PRODUCT (OIL) THICKNESS MAP</b>	
		<b>(JULY 7, 2017)</b>	
DRAWN BY:	L. STORMER	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	<b>DRAWING 6</b>	
APPROVED BY:	B. IVERSON		
DATE:	JULY 2018		
FILE NO.:		189597.0006.06.dwg	

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 Version: 2017-10-21



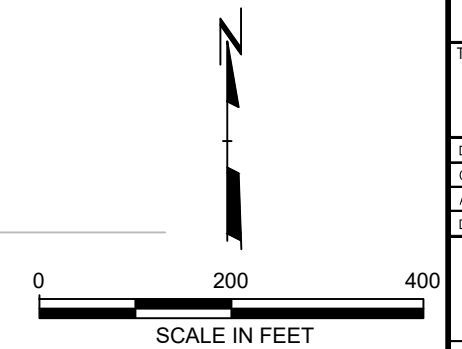
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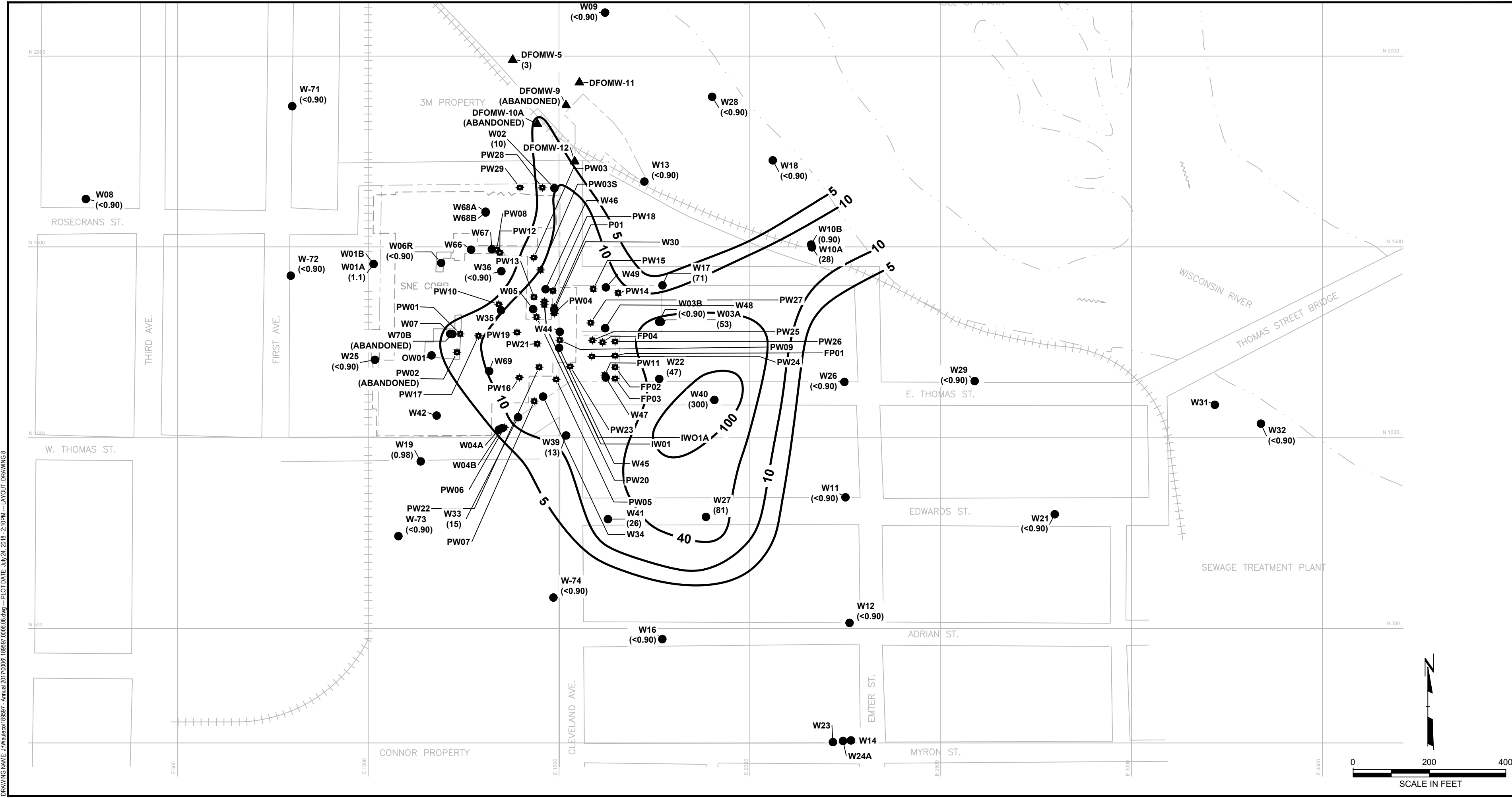
- W17 (60) MONITORING WELL LOCATION AND PCP CONCENTRATION (ug/L)
- ⊛ PW12 EXTRACTION WELL LOCATION AND NUMBER
- ▲ DFOMW-5 3M GROUNDWATER MONITORING WELL
- - - APPROXIMATE PROPERTY LINE
- - - FORMER BUILDING OUTLINE
- 50 — PCP ISOCONCENTRATION CONTOUR INTERVAL VARIES (DASHED WHERE INFERRED)

- NOTES**
1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI- ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
  2. GROUNDWATER SAMPLES OBTAINED BY TRC ON JULY 10, 11, 13, 17, 18, 20, 2017.
  3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY CT LABORATORIES, INC.
  4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.
  5. THE NR140 ENFORCEMENT STANDARD (ES) FOR PCP IS 1.0 ug/L. THE NR140 PREVENTIVE ACTION LIMIT (PAL) FOR PCP IS 0.10 ug/L.
  6. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC.

<b>PROJECT:</b>		<b>WAULECO, INC.</b>	
<b>ANNUAL GROUNDWATER MONITORING REPORT</b>		<b>WAUSAU, WISCONSIN</b>	
<b>TITLE:</b>			
<b>PCP ISOCONCENTRATION MAP</b>			
<b>(JULY 2017)</b>			
DRAWN BY:	L. STORMER	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	<b>DRAWING 7</b>	
APPROVED BY:	B. IVERSON		
DATE:	JULY 2018		
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600	
FILE NO.:		189597.0006.07.dwg	

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 Version: 2017-10-21





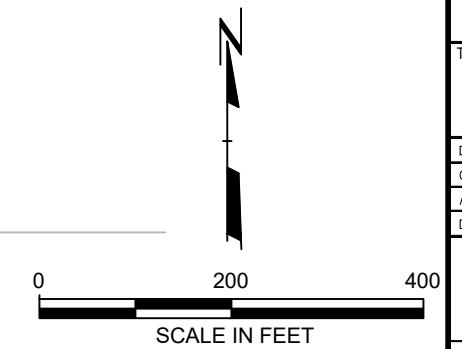
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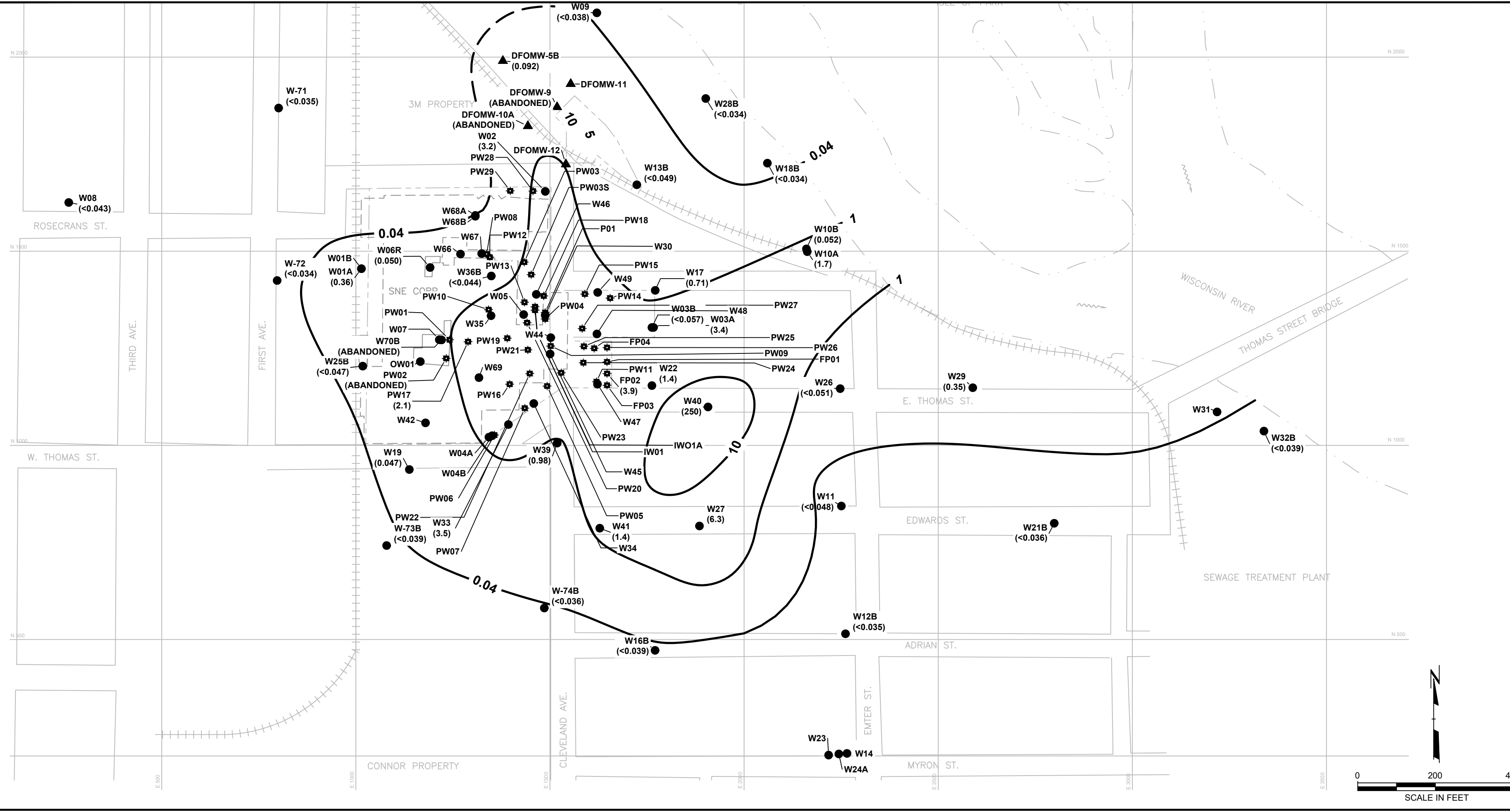
- W17 (3.4) MONITORING WELL LOCATION AND NAPHTHALENE CONCENTRATION (ug/L)
- ⊛ PW12 EXTRACTION WELL LOCATION AND NUMBER
- ▲ DFOMW-5 3M GROUNDWATER MONITORING WELL
- - - APPROXIMATE PROPERTY LINE
- - - FORMER BUILDING OUTLINE
- 40 — NAPHTHALENE ISOCONCENTRATION CONTOUR INTERVAL VARIES (DASHED WHERE INFERRED)

- ### NOTES
1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
  2. GROUNDWATER SAMPLES OBTAINED BY TRC ON JULY 10, 11, 13, 17, 18, 20, 2017.
  3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY CT LABORATORIES, INC.
  4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.
  5. THE NR140 ENFORCEMENT STANDARD (ES) FOR NAPHTHALENE IS 100 ug/L. THE NR140 PREVENTIVE ACTION LIMIT (PAL) FOR NAPHTHALENE IS 10 ug/L.
  6. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC.

<b>PROJECT:</b>		<b>WAULECO, INC. ANNUAL GROUNDWATER MONITORING REPORT WAUSAU, WISCONSIN</b>	
<b>TITLE:</b>		<b>NAPHTHALENE ISOCONCENTRATION MAP (JULY 2017)</b>	
DRAWN BY:	L. STORMER	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	<b>DRAWING 8</b>	
APPROVED BY:	B. IVERSON		
DATE:	JULY 2018		
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600	
FILE NO.:		189597.0006.08.dwg	

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 Version: 2017-10-21





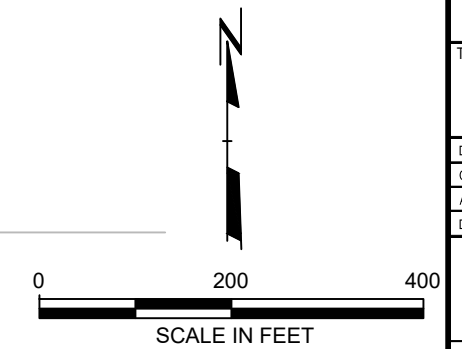
### LEGEND

- W17 (1.4) MONITORING WELL LOCATION AND TPH CONCENTRATION (mg/L)
- ⊛ PW12 EXTRACTION WELL LOCATION AND NUMBER
- ▲ DFOMW-5 3M GROUNDWATER MONITORING WELL
- - - APPROXIMATE PROPERTY LINE
- - - FORMER BUILDING OUTLINE
- 1.0 — TPH AS MINERAL SPIRITS ISOCONCENTRATION CONTOUR (mg/L) INTERVAL VARIES (DASHED WHERE INFERRED)

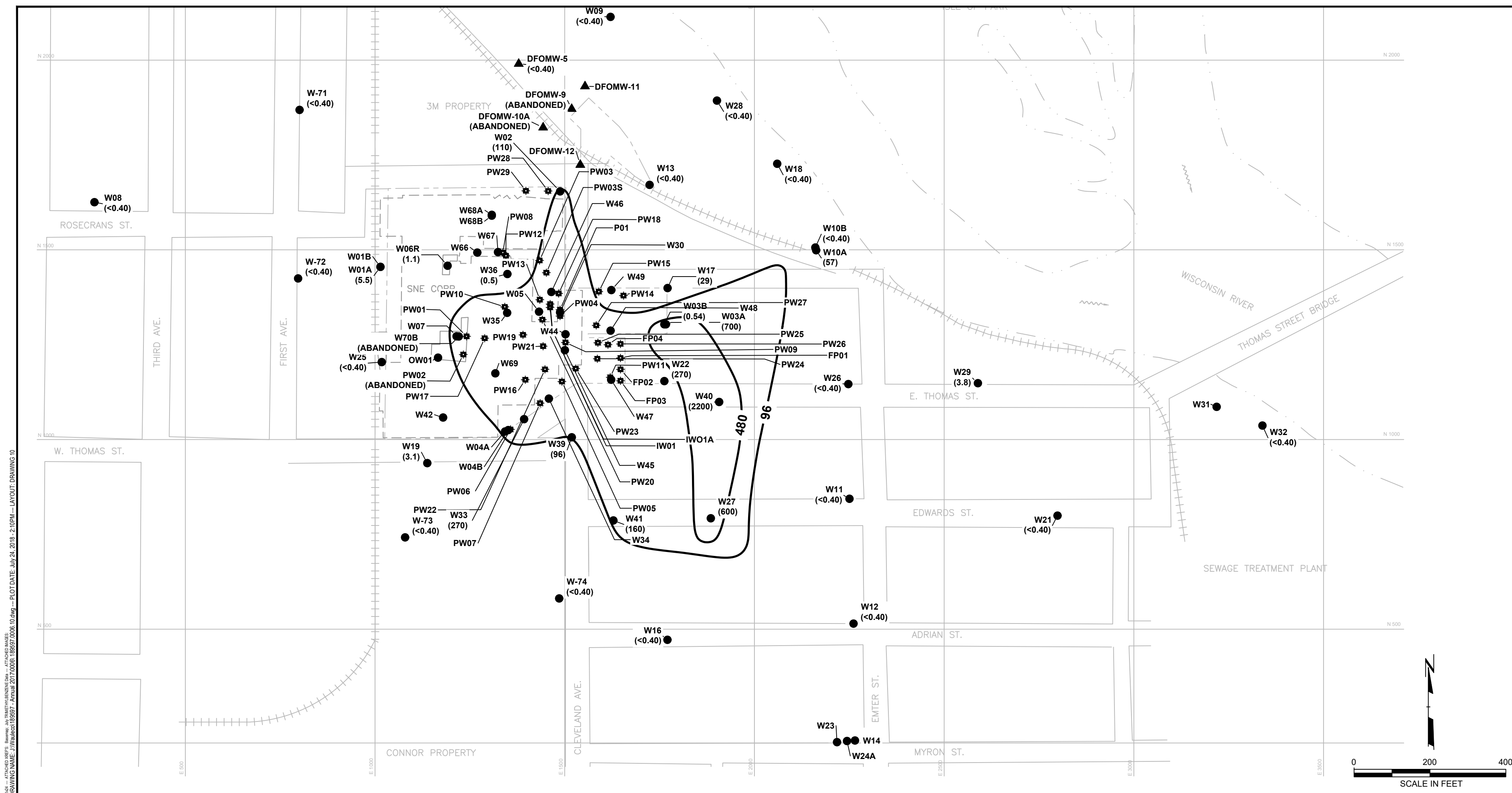
- ### NOTES
1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI- ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
  2. GROUNDWATER SAMPLES OBTAINED BY TRC ON JULY 10, 11, 13, 17, 18, 20, 2017.
  3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY CT LABORATORIES, INC.
  4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.
  5. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC.

PROJECT:		WAULECO, INC. ANNUAL GROUNDWATER MONITORING REPORT WAUSAU, WISCONSIN	
TITLE: TOTAL PETROLEUM HYDROCARBONS (TPH) AS MINERAL SPIRITS ISOCONCENTRATION MAP (JULY 2017)			
DRAWN BY:	L. STORMER	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	<b>DRAWING 9</b>	
APPROVED BY:	B. IVERSON		
DATE:	JULY 2018		
DRAWN BY:		808 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600	
FILE NO.:		189597.0006.09.dwg	

11/6/18 - ATTACHED XREFS: Baumeister, Jay (P) (Data) - ATTACHED IMAGES:  
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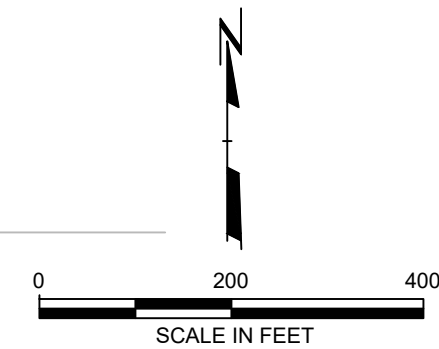


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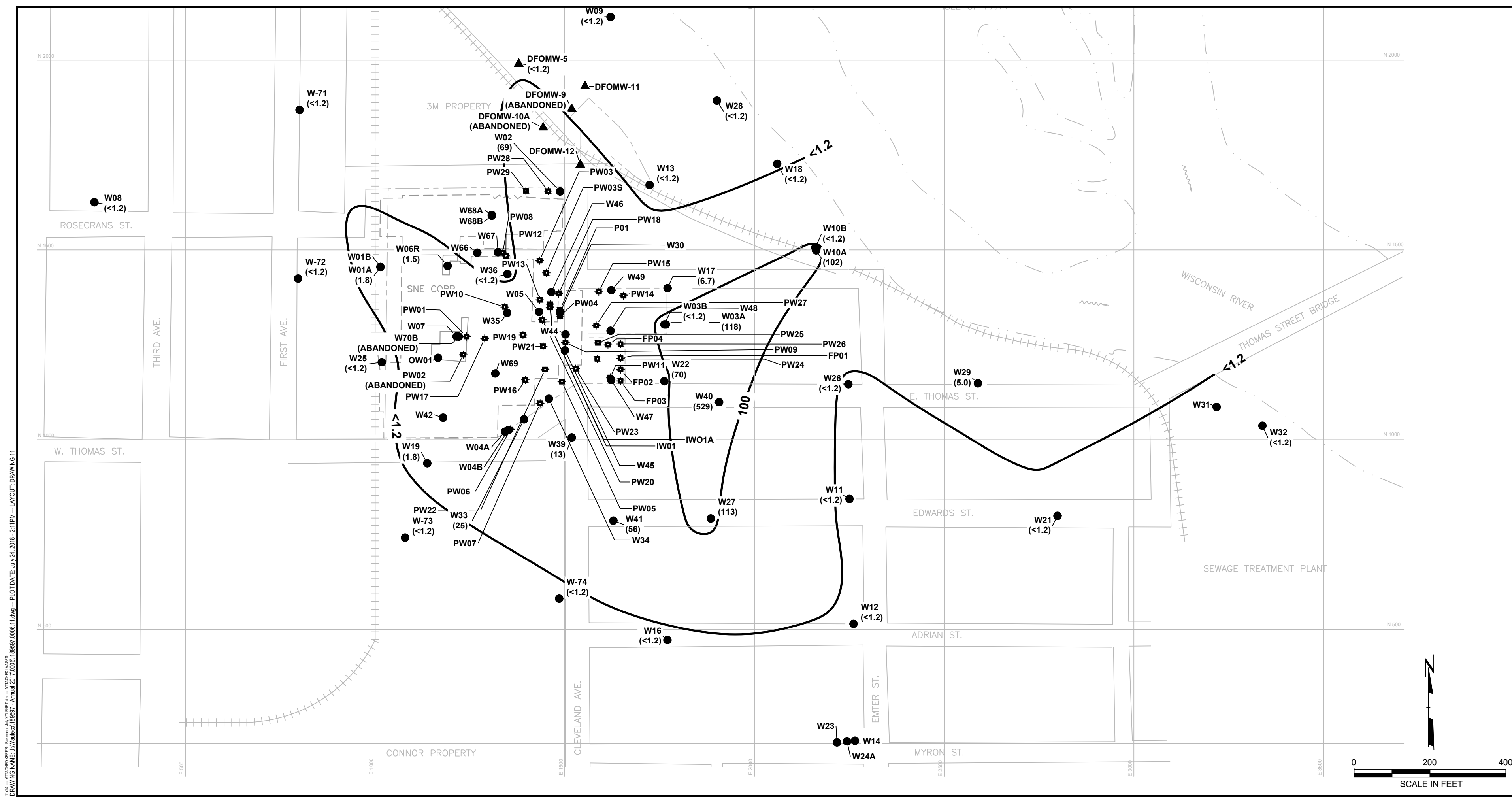
- W17 (20) MONITORING WELL LOCATION AND 1,2,4 TRIMETHYLBENZENE CONCENTRATION (ug/L)
- PW12 EXTRACTION WELL LOCATION AND NUMBER
- ▲ DFOMW-5 3M GROUNDWATER MONITORING WELL
- - - APPROXIMATE PROPERTY LINE
- - - FORMER BUILDING OUTLINE
- 480— 1,2,4 TRIMETHYLBENZENE ISOCONCENTRATION CONTOUR (ug/L) INTERVAL VARIES (DASHED WHERE INFERRED)

- ### NOTES
- BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
  - GROUNDWATER SAMPLES OBTAINED BY TRC ON JULY 10, 11, 13, 17, 18, 20, 2017.
  - ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY CT LABORATORIES, INC.
  - IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.
  - THE NR140 ENFORCEMENT STANDARD (ES) FOR TOTAL TRIMETHYLBENZENES IS 480 ug/L. THE NR140 PREVENTIVE ACTION LIMIT (PAL) FOR TOTAL TRIMETHYLBENZENES IS 96 ug/L.
  - WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC.

PROJECT:		<b>WAULECO, INC.</b>	
		<b>ANNUAL GROUNDWATER MONITORING REPORT</b>	
		<b>WAUSAU, WISCONSIN</b>	
TITLE:			
<b>1,2,4 TRIMETHYLBENZENE</b>			
<b>ISOCONCENTRATION MAP (JULY 2017)</b>			
DRAWN BY:	L. STORMER	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	<b>DRAWING 10</b>	
APPROVED BY:	B. IVERSON		
DATE:	JULY 2018		
DRAWN BY:		908 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600	
FILE NO.:		189597.0006.10.dwg	



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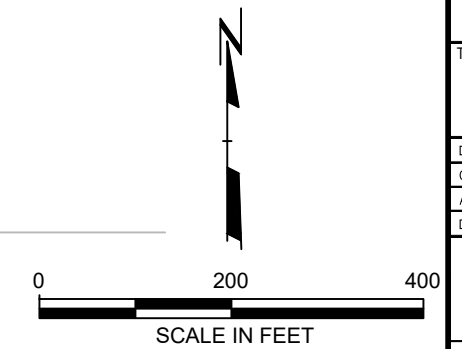


**LEGEND**

- W17 (4.1) MONITORING WELL LOCATION AND TOTAL XYLENE CONCENTRATION (ug/L)
- ⊛ PW12 EXTRACTION WELL LOCATION AND NUMBER
- ▲ DFOMW-5 3M GROUNDWATER MONITORING WELL
- - - APPROXIMATE PROPERTY LINE
- - - FORMER BUILDING OUTLINE
- 100— XYLENE ISOCONCENTRATION CONTOUR (ug/L) INTERVAL VARIES (DASHED WHERE INFERRED)

- NOTES**
1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
  2. GROUNDWATER SAMPLES OBTAINED BY TRC ON JULY 10, 11, 13, 17, 18, 20, 2017.
  3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY CT LABORATORIES, INC.
  4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.
  5. THE NR140 ENFORCEMENT STANDARD (ES) FOR TOTAL XYLENE IS 2,000 ug/L. THE NR140 PREVENTIVE ACTION LIMIT (PAL) FOR TOTAL XYLENE IS 400 ug/L.
  6. WAULECO WELLS PW02 AND W70B WERE ABANDONED ON 7/21/16 DURING SOIL MOUND REMOVAL ACTIVITIES BY TRC.

PROJECT:		<b>WAULECO, INC.</b>	
		<b>ANNUAL GROUNDWATER MONITORING REPORT</b>	
		<b>WAUSAU, WISCONSIN</b>	
TITLE:		<b>TOTAL XYLENE ISOCONCENTRATION MAP</b>	
		<b>(JULY 2017)</b>	
DRAWN BY:	L. STORMER	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	<b>DRAWING 11</b>	
APPROVED BY:	B. IVERSON		
DATE:	JULY 2018		
FILE NO.:		189597.0006.11.dwg	



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**APPENDIX A**

**WDNR CORRESPONDENCE**

**MOBILE PRODUCT RECOVERY SYSTEM SHUTDOWN**

**JANUARY AND FEBRUARY 2011**

## Quinn, Kenneth

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**From:** Gutknecht, Lisa A - DNR <Lisa.Gutknecht@Wisconsin.gov>  
**Sent:** Wednesday, February 23, 2011 10:54 AM  
**To:** Iverson, Bruce  
**Cc:** Brandt Bob; Crass, David A (22267); Quinn, Kenneth  
**Subject:** RE: Wauleco: Proposed Plan to Reduce the Pumping Rate/Responses to Comments

Bruce,

You have answered my questions and the additional activities should be added to your Proposed Plan to Reduce the Pumping Rate.

We can discuss the progress of the plan at the annual meeting or at the end of the year depending on the data that you will have collected. Thanks for addressing these issues. Lisa

 *Lisa Gutknecht*

Remediation & Redevelopment Program  
Wausau Service Center  
Wisconsin Department of Natural Resources  
5301 Rib Mountain Drive  
Wausau, WI 54401

(☎) phone: (715) 359-6514

(☎) fax: (715) 355-5253

(✉) e-mail: [Lisa.Gutknecht@Wisconsin.gov](mailto:Lisa.Gutknecht@Wisconsin.gov)

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**From:** Iverson, Bruce [mailto:[Bruce.Iverson@rmtinc.com](mailto:Bruce.Iverson@rmtinc.com)]  
**Sent:** Friday, February 11, 2011 2:36 PM  
**To:** Gutknecht, Lisa A - DNR  
**Cc:** Brandt Bob; Crass, David A (22267); Quinn, Kenneth  
**Subject:** RE: Wauleco: Proposed Plan to Reduce the Pumping Rate/Responses to Comments

Lisa:

This email responds to your questions posed during our February 3, 2010 telephone conversation which was conducted in follow-up to my January 25, 2010 email (below) regarding Wauleco's Proposed Plan to Reduce the Pumping Rate. Specifically, you had two questions:

1. How will this change affect the checking for the presence of residual product in wells?  
**Response:** As we've discussed throughout the years and most recently at the 2010 Annual Meeting, when the project moves to the natural attenuation phase, there will be some residual product left on site. At present, the volume of free phase product is small, especially when compared to historic volumes and the volume that has been removed. In addition, we have shown that measuring the apparent product is not the best indicator of actual residual product present at the site. Indeed, the apparent product at several wells has been shown to be a relic from historic presence of free product. While the free product has been removed, the relic, apparent free product remained in some wells. For example, at last year's Annual Meeting, we discussed results of the free product assessment at wells W3A, W40, and W22 that showed no apparent free product remains in the aquifer at these locations. Since that time and per my 11-

18-2010 email that presented the plan for additional free product assessment (November 2010 Product Plan), we have continued removing apparent product from wells and have seen additional improvement. In summary, we are observing the following:

- a. There are currently no off-site monitoring wells with free phase product. Therefore, the reduced pumping will not impact free phase product at off-site monitoring wells.
  - b. Over the last 15 months at on-site monitoring wells W2, W3A, W6R, W42, and W47, the product has been removed using absorbent socks and has not reappeared. There are currently three on-site wells (W4A, W7, and W35) that have had product re-accumulate after bailing and use of absorbent socks. The product has been bailed again, and use of the absorbent socks will continue.
  - c. In summary, there is relatively little free phase product remaining that could go into residual phase with the reduced pumping rate. Per our telephone conversation on December 13, 2010, once the reduced pumping rate is changed, Wauleco will implement the November 2010 Product Plan for pumping wells.
2. Because we are changing conditions, is more monitoring in wells down-gradient of the site needed to see assess groundwater concentrations?

**Response:** Wauleco proposes to perform quarterly groundwater monitoring at the site for 2011. In addition, to the groundwater monitoring currently being performed during January and July, Wauleco will perform groundwater monitoring in 2011 during: 1) the end of March/beginning of April; and 2) the end of September/beginning of October. This additional monitoring will include the following:

- a. Collect samples at off-site wells W10A, W13, W19, W22, W26, W28, W39, and W41
- b. Analyze samples for PCP.
- c. Report and evaluate results in 2011 Annual Groundwater Monitoring Report that will be prepared and submitted in early 2012. Recommendations for continuing or discontinuing this monitoring will be included in the 2011 Annual Groundwater Monitoring Report.

If you have any questions or comments regarding these responses, please contact us. Thanks, Bruce

Bruce Iverson, Director of Business Development Federal Renewable Energy | **RMT** | 744 Heartland Trail  
Madison WI 53717 Direct: 608.662.5269 | Cell: 608.235.4963 | Fax: 608.831.3334 | CREATING BALANCE

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**From:** Iverson, Bruce  
**Sent:** Tuesday, January 25, 2011 8:51 AM  
**To:** Gutknecht, Lisa A - DNR  
**Cc:** 'Brandt Bob'; 'Crass, David A (22267)'; Quinn, Kenneth  
**Subject:** Wauleco: Proposed Plan to Reduce the Pumping Rate

Lisa

In follow-up to our telephone conversation this morning, as requested following is a summary of the proposed approach at Wauleco:

1. Consistent with the remediation sequence we have previously discussed, given the lack of product recovery the past two winters, typically our greatest product recovery months, and in particular these past three months were no product was recovered, we would like to turn off the product recovery system and revise the pumping rate to assess what effect it has on groundwater concentrations as part of our long term closure strategy.

2. As part of this, we will perform monthly water table elevations, similar to what is being done as part of the quarterly reports.
3. We'll continue to implement the "socks in wells" approach as presented in my 11-18-10 email to you.
4. We'll prepare water table elevation maps monthly for the first three months to demonstrate that containment is being achieved, and then quarterly to assess seasonal changes.
5. We'll provide this information in the quarterly reports, unless we see something not expected and then we'll contact you to discuss.
6. We can discuss the results as part of our Annual Meeting that we will target for May 2011 at which time we will have 3 months of results we can discuss

As we discussed, neither of us were aware of any specific approvals needed from the WDNR for Wauleco to implement this plan. However, consistent with our approach and relationship with you to date, we wanted to keep you informed of our approach. Let's plan on touching base next week after you have had a chance to review this proposed plan. In the meantime, if you have any questions, please contact me. Thanks, Bruce

Bruce Iverson, Director of Business Development Federal Renewable Energy | **RMT** | 744 Heartland Trail  
Madison WI 53717 Direct: 608.662.5269 | Cell: 608.235.4963 | Fax: 608.831.3334 | CREATING BALANCE

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## **APPENDIX B**

### **HISTORICAL GROUNDWATER ANALYTICAL RESULTS**

- B1 Water Quality Indicators
- B2 Phenolics
- B3 Volatile Organic Compounds

**B1**

**Water Quality Indicators**



Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W01A

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Sprits (ug/L)	Sodium (ug/L)
02/19/1992							3.32		107			<630	
06/14/1992							2.94		85.2			<500	
09/17/1992			<1				1.97	1.86	89.8			<500	43,000
12/18/1992			<1				2.58		62.5			11,000	33,000
03/23/1993			0.24			2.22			83			2,500	36,600
06/28/1993			0.11			2.18			77			2,800	
12/28/1993			<0.2			2.86			92			<1000	
04/25/1994			0.27			1.36			117				
06/21/1994			0.15			1.62			96			6,000	
10/04/1994			0.24			2.3			93				
01/05/1995			0.37			1.69			103				
03/10/1995			0.23			2.2			115				
07/05/1995	<0.25		0.17	<0.25	<0.25	2.77			136			380	
09/13/1995			0.36			1.61			80				
12/18/1995			0.2			2.61			147				
03/21/1996			0.4			2.7			134				
07/10/1996	<0.25	<1	0.16	<0.25	<0.25	2.22			75			950	
09/25/1996			<0.1			2.26			97				
01/21/1997			<0.1			2.14			118				
07/11/1997			<0.1			2.14			89.4			49,000	
01/02/1998			<0.1			2.03			161				
06/23/1998			<0.1			2.1			110		<0.2	33,000	
01/26/1999			<0.1			3.09			245		<0.2		
06/09/1999			0.29			1.98			158			110,000	
01/11/2000			<0.1			2.98			209		<0.16		
07/18/2000			<0.02			3.07			165		<0.16	94,000	
01/31/2001			<0.02			3.80			194		<0.12	560	
07/09/2001			0.15			5.40			100		<0.14	45,000	
01/15/2002			<0.020			4.10			150				
08/06/2002			<0.020			5.80			150		<0.070	13,000	
01/14/2003			<0.070			3.60			76				
07/22/2003			0.14			2.70			51		<0.070	10,000	
01/20/2004			0.068			1.60			65				
07/13/2004			<0.030			3.04			38.1		<0.11	830 Y	
01/19/2005			<0.030			3.20			60				
07/21/2005			<0.030			2.10			66		<0.090	900	
01/17/2006			<0.023			1.73			74.3				
07/18/2006			<0.023			4.00			94		<0.060	15,000	
01/23/2007			<0.023			5.10			190				
07/11/2007			<0.021			4.10			170		0.08	1,800 Q	
01/29/2008			<0.021			5.5 Q			230 Q				
07/23/2008			<0.080			6.60			180		<0.050	500	
01/20/2009			<0.080			4.40			300				
07/06/2009			0.3			7.00			240		<0.040	14,000	
01/18/2010			<0.030			5.20			240				
07/13/2010			<0.050			5.30			290		<0.040	3,800 M	
01/24/2011			0.058			6.50			220				
07/19/2011			0.039			4.90			91		0.10	2,100	
01/23/2012			0.16			3.70			180				
07/06/2012			<0.030			5.10			140		0.020	1,800	
01/04/2013			<0.030			3.20			140				
07/05/2013			0.084			3.30			63		0.030	1,500	
07/07/2014							4.7			<0.016		3,300	
07/07/2015							4.2			<0.050		830	
07/06/2016							4.4			0.042		410	
07/11/2017							4.2			<0.020		360 B	

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W02

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)
01/08/1987				7.01				2.94	<5		436	3848	30.2						22.3	769	<10	371	<100
06/04/1987				6.62				2.73	<5		491	9260	29.9						<10	<200	<10		140
09/03/1987				3.9				3.56	<5		421	11100	20.5						<10	<200	<10		
12/03/1987				1.66				3.56	<6		347	1480	38.5										
03/02/1988				3.49				3.16	14.7		457	1590	32.4	125									
04/07/1988				3.68				3.73	<6		441	1900	27	119					<10	<200	<10		
08/10/1988				7.44				1.47	8.53		585	2040	37.9	133					<10	<200	<10		
11/15/1988				12				0.99	9.39		419	352	28.8	122					<10	<200	<10		
01/26/1989				4.37				1.94	6.45		437	629	<10	128									
04/27/1989				10.5				0.71	19.3		373	2660	31	144					<10	<200	<10		
07/27/1989				50.4				0.78	7.76		1,720	1200	32.6	103					<10	<200	<10		
10/26/1989				4.91				1.05	<6		473	1380	35.8	127					<10	<200	<10		
01/25/1990				13.3				0.3	11.4		331	1190	31.7	95.4					<10	<200	<10		
05/03/1990				10.6				0.61	<6		462	808	10.6	129					<10	<200	<10		
09/20/1990				7.24				0.66	9.21		428	1320	29.4	132					<10	<200	<10		
12/11/1990				11.9				1.83	<6		403	1900	33.6	97.5					<10	<200	<10		
01/30/1991				14.2				4.71	11.6		364	936	35.9	95.8					<10	<200	<10		
05/01/1991				23.9				4.13	20		477	894	32.5	107					<10	<200	<10		
10/08/1991				14				<0.02	12.7		450	1460	29.8	117					<10	<200	<10		
02/20/1992								<0.02	0					119									
06/14/1992								0.054						128									
09/17/1992			<1					0.023		2.52				158									
12/18/1992			<1					0.093						182									
03/24/1993			0.17					0.55						239									
04/25/1994			0.17					0.18						151									
06/22/1994			<0.1					1.46						146									
10/04/1994			0.16					0.13						117									
01/05/1995			<0.1					1.11						120									
03/10/1995			0.13					1.34						117									
07/06/1995	<0.25		0.41		<0.25	<0.25		0.79						113									
09/13/1995			0.13					0.66						114									
12/18/1995			0.14					0.69						97									
03/21/1996			0.13					0.74						89									
07/10/1996	<0.25	<1	0.13		<0.25	<0.25		1.2						58									
01/21/1997			<0.1					1.13						93									
07/11/1997			<0.1					0.17						54.5									
01/02/1998			<0.1					0.54						54.8									
06/25/1998			<0.1					1.12						76		0.4							
01/27/1999			0.1					<0.41						<41		<0.6							
01/15/2003			<0.070					2.4						120									
07/22/2003			0.077					0.96						60		2							
01/21/2004			0.21 J					0.35 J						35									
01/21/2004			0.19 JB					0.37 J						34									
07/14/2004			0.086 J					1.27						26.9		0.83							
01/20/2005			0.044Q					0.78						28									
01/20/2005			0.032Q					0.8						28									
07/21/2005			0.16					0.25						44									
7/21/2005 Duplicate			0.15					0.4						33		0.69							
01/17/2006			0.15					0.17						31.9									
1/17/2006 Duplicate			0.15					0.4						23.4									

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W02

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)
01/18/2010			0.23				1.7							83									
1/18/2010 Duplicate			0.13				3.9 V							79									
07/15/2010			0.24				1.6							180	0.49		13,000						
01/25/2011			0.12				3.1							200									
07/20/2011			0.042				1.8							84	0.86		17,000						
01/18/2012			0.28				2.3							230									
07/10/2012			0.18				1.2							150	0.8		6,100						
7/10/2012 Duplicate			0.17				1.2							200	0.82		2,800						
01/07/2013			<0.030				3.9							72									
07/08/2013			<0.040				1.6							61	0.29		6,400						
07/16/2014								1.5							<0.016		4,500						
07/08/2015								2.1							<0.050		4,600						
07/07/2016								1.6							0.063		2,400						
7/7/2016 Duplicate								1.6							0.065		2,900						
07/13/2017								0.96							<0.020		3,200						
7/13/2017 Duplicate								2.6							<0.020		3,000						

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W03A

Date	#2 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Total Sulfate (mg/L)	Total Organic Carbon (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)
01/18/2010		<0.030		<0.12 V	160							
07/15/2010		<0.050		<0.30 V	560		0.97	45,000 MY				
01/24/2011		<0.050		<0.060	35							
07/20/2011		0.031		<0.18	35		0.64	10,000				
01/18/2012		<0.17		<0.18	17							
1/18/2012 Duplicate		<0.17		<0.18	17							
07/10/2012		<0.030		<0.030	170		0.58	5,900				
01/07/2013		<0.030		<0.040	19							
07/05/2013		<0.040		<0.080	280		0.3	7,900				
01/21/2014			0.19									
07/09/2014			0.13			<0.016		4,600				
7/9/2014 Duplicate			0.13			<0.016		4,800				
01/19/2015			<0.040									
07/08/2015			<0.040			<0.050		9,700				
7/8/2015 Duplicate			<0.040			<0.050		11,000				
01/19/2016			<0.040									
07/07/2016			<0.040			0.046		2,900				
01/19/2017			<0.040									
07/17/2017			<0.040			<0.020		3,400	3.1	4.6	2840	4920

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W03B

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)
06/17/1991						4.2	18					6000		
02/22/1992						4.62	16.5	<1				1000		<1
09/17/1992			<1			4.59	12.2	<1				1100	<5000	
12/18/1992			<1			3.58	13.4					3000	5970	
03/23/1993			<0.1			3.75	14					<500	4900	
06/29/1993			0.33			3.47	18					<1000		
12/28/1993			<0.2			3.88	14					<1000		
06/22/1994			<0.1			4.23	15					<1000		
07/06/1995	<0.25		0.2	<0.25	<0.25	3.66	14					<250		
07/10/1996	<0.25	<1	<0.1	<0.25	<0.25	3.96	14					<250		
07/11/1997			<0.1			3.93	14					<260		
06/24/1998			<0.1			3.48	16.9			<0.2		<250		
06/09/1999			0.12			3.82	15.7					<100		
07/18/2000			<0.02			3.72	20.4			<0.16		<500		
01/31/2001			<0.02			3.87	18.3			<0.12		<500		
07/11/2001			<0.020			3.6	18			<0.14		<500		
08/06/2002			<0.020			4.400	23			<0.070		<500		
07/24/2003			<0.011			3.3	21			<0.070		<27		
07/13/2004			<0.030			4.09	20.8			0.13 J		<27		
07/20/2005			<0.030			3.7	29			<0.090		<27		
07/18/2006			<0.023			2.8	29			<0.060		<510		
07/11/2007			<0.021			2.6	27			<0.080		<27		
07/23/2008			<0.080			3.2	43			<0.050		78		
07/06/2009			0.31			0.74	42			<0.040		<27		
07/15/2010			<0.050			2.5	100			<0.040		430		
07/18/2011			<0.022			2.2	52			<0.030		300		
07/06/2012			<0.030			3.4	57			0.020		50		
07/01/2013			<0.040			2	140			<0.016		110		
07/09/2014							3			<0.016		<27		
07/07/2015							3.3			<0.050		45		
07/05/2016							3.9			0.090		<33		
07/13/2017							2.9			<0.020		57		

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W06R

Date	Ammonia Nitrogen Total (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Total Sulfate (mg/L)	Total Organic Carbon (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)
07/24/2003	0.018		0.49	47		1.6	140,000				
07/23/2008	0.26		1.4	170		1.6	120,000				
7/23/2008 Duplicate	0.24		1.7	170		0.54	130,000				
01/19/2010	0.096		0.59	140							
07/14/2010	0.23		9.5	96		0.37	69,000				
01/25/2011	0.11		1.7	210							
1/25/2011 Duplicate	0.18		1.4	170							
07/25/2011	<0.022		0.65	86		1.6 Y	10,000				
01/18/2012	0.35		1.6	200							
07/09/2012	0.087		1.3 M	76		0.22	3,900				
01/07/2013	0.068		1.2	77							
07/08/2013	0.14		4.8	52		0.21	14,000				
7/8/2013 Duplicate	0.12		3.9	54		0.24	13,000				
01/21/2014		1.2									
1/21/2014 Duplicate		1.2									
07/09/2014		7.6			<0.016		2,500				
01/19/2015		3									
07/09/2015		3.9			<0.050		3,200				
7/9/2015 Duplicate		3.6			<0.050		2,800				
01/19/2016		3.4									
1/19/2016 Duplicate		3									
07/12/2016		4.6			0.15		400				
01/16/2017		0.8									
07/18/2017		4.9			<0.020		50	83	8.7	<59	12



Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W08

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Alkalinity, Bicarbonate (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Sprits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Dissolved Iron (ug/L)	Iron (ug/L)	Calcium (ug/L)	Magnesium (ug/L)	Dissolved Manganese (ug/L)	Potassium (ug/L)	
01/14/2003				<0.070					5.60					98															
07/22/2003				0.015					3.90					89		<0.070	<27												
01/20/2004				<0.03					4.80					150															
07/12/2004				<0.030					4.34					76.8		<0.11	30 J												
01/19/2005				<0.030					6.90					130															
07/19/2005				<0.030					5.4					110		<0.090	42												
01/17/2006				<0.023					5.88					99.6															
07/18/2006				<0.023					6.10					60		<0.060	<660												
01/23/2007				<0.023					6.70					100															
07/09/2007				<0.021					5.50					96		<0.080	<31												
01/28/2008				<0.021					6.4 Q					100															
07/22/2008				<0.080					4.20					89		<0.050	77												
01/20/2009				<0.080					7.50					120															
07/06/2009				<0.030					6.00					92		<0.040	<26												
01/18/2010				<0.030					<0.12					130															
07/13/2010				<0.050					6.20					120		<0.040	<26												
01/25/2011				<0.050					4.50					120															
07/18/2011				<0.022					3.90					98		0.050	<27												
01/17/2012				<0.17					6.70					120															
07/06/2012				<0.030					5.00					87		0.030	<27												
01/04/2013				<0.030					4.60					82															
07/01/2013				<0.040					3.40					88		<0.016	<26												
01/22/2014					0.75					5.1			26										<5.0				<0.5		
07/07/2014					0.9					3.1			22		<0.016								12.5				<1.6		
01/15/2015					1.2					3.5			18										<10				<1.6		
07/06/2015					2.2					4			20		<0.050								<10				<1.6		
01/13/2016					1					5.5			22										135				<1.6		
07/05/2016					0.86					3.5			18		0.030								32.1				<1.6		
01/16/2017					1.6					4.1			23										<59				<2.2		
07/10/2017					0.90					3			18		<0.020								<59				<2.2		



Water Quality Indicators - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W09

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Alkalinity, Bicarbonate (mg/L)	Alkalinity, Total (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Sprits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Iron (ug/L)	Calcium (ug/L)	Magnesium (ug/L)	Potassium (ug/L)
06/04/1987					19.4					0.22	8.15		455	8790	<10	117					<10	<200	<10				
09/03/1987					7.47					0.04	11.2		381	860	<10	71.9					<10	<200	<10		3980		
12/03/1987					8.63					<0.02	<6		312	407	22	40											
03/02/1988					8.33					0.08	13.4		336	1260	13.8	51.4											
04/07/1988					7.3					0.13	<5		272	812	17.3	48					<10	<200	<10				
08/10/1988					10.6					0.02	9.35		163	6430	29.9	45.6					<10	<200	<10				
11/15/1988					8.68					0.05	<6		1330	128	<10	35					<10	<200	<10				
01/26/1989					6.83					0.03	6.47		310	294	<10	39.1											
04/27/1989					6.79					0.09	6.92		338	987	10.9	55					<10	<200	<10				
07/27/1989					31.8					0.12	<6		358	962	12.3	44.7					<10	<200	<10				
10/26/1989					8.25					0.2	<5		344	960	10	45.6					<10	<200	<10				
01/25/1990					7.84					0.07	<6		333	579	<10	58.8					<10	<200	<10				
05/03/1990					15.9					0.02	<6		366	291	<10	71					<10	<200	<10				
09/20/1990					12.1					0.04	<5		346	490	<10	32.5					<10	<200	<10				
12/11/1990					5.91					0.06	<6		416	336	12.1	98.4					<10	<200	<10				
01/29/1991					8.42					0.04	<6		493	467	11.2	153					<10	<200	<10				
05/01/1991					9.83					0.65	<6		527	454	13.1	144					<10	257	<10				
10/08/1991					70.8					0.44	<6		526	1260	<10	142					<10	<200	<10				
10/29/1991			209	209								1.25			<10	172						<200	<10		67,600	17,600	<5000
12/22/1991			223	223								2.69			<10	118				90,300 83,800		<200	<10		50,000	13,100	<5000
06/18/1992					1.36					<0.02		2.99				82.6				<500							
12/17/1992					<1					0.063						39.3				3,000	76,400						
06/28/1993					0.27					0.5						40											
12/28/1993					0.83					0.08						135											
06/22/1994					0.58					0.23						67											
07/05/1995	<0.25				0.91		<0.25	<0.25		0.1						204					<250						
07/09/1996	<0.25	<1			0.4		<0.25	<0.25		<0.02						67											
07/11/1997					0.3					0.16						37.1											
06/24/1998					0.16					<0.14						64			2.5								
06/07/1999					0.39					<0.14						48.2											
07/18/2000					0.08					<0.08						21.9			0.96								
01/30/2001					0.190					<0.08						29.0					1.1						
07/10/2001					0.280					<0.18						31.0				<0.14							
07/23/2003					0.460					<0.13						45.0					0.42						
07/12/2004					0.40					<0.13						49.5					0.53						
07/18/2005					0.36					<0.10						68				0.92							
07/18/2006					0.24					<0.13						60				1.0							
07/10/2007					0.25					0.33						46				2.6							
07/23/2008					0.26					<0.12						43				1.1							
07/07/2009					0.26					0.48						110				0.22							
07/13/2010					0.37					0.19 V						180				0.43							
07/18/2011					0.32					<0.18						370				0.34							
07/19/2012					0.36					<0.030						480				4.50							
07/02/2013					0.36					<0.080						280				3.10							
07/10/2014											0.16																
07/07/2015										<0.040																	
07/06/2016										<0.040																	
07/11/2017										0.11																	

Water Quality Indicators - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W10A

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Dissolved Iron (ug/L)	Iron (ug/L)	Dissolved Manganese (ug/L)
01/08/1987				16.2				<0.02	10.5		374	5875	30.4	68					154	1920.5	<10	<10	994		290
06/04/1987				16.9				<0.02	21.5		328	6360	31.2	74.4					<10	<200	<10	<10			4330
09/03/1987				7.62				<0.02	35.2		236	7970	24.4	46.9					<10	<200	<10	<10			
12/03/1987				7.21				0.02	8.88		224	1100	38.2	5.07											
03/03/1988				11.2				<0.02	10.5		280	2800	27.6	64.7											
04/07/1988				10.9				0.13	13.7		270	1900	26.2	59.2					<10	<200	<10	<10			
08/10/1988				15.2				<0.02	13.3		153	5930	34.8	58.8					<10	<200	<10	<10			
11/15/1988				15.2				<0.02	21.7		283	153	<10	66					<10	<200	<10	<10			
01/26/1989				13.9				<0.02	18.6		305	399	17	51.8											
04/27/1989				12.3				<0.02	9.5		303	1720	26.7	48					<10	<200	<10	<10			
07/27/1989				68.4				<0.02	15.3		315	2020	32.8	57.6					<10	<200	<10	<10			
10/26/1989				11.2				<0.02	19.3		332	1150	37.4	57					<10	<200	<10	<10			
01/25/1990				17.3				<0.02	15.4		288	1740	36.4	65.6					<10	<200	<10	<10			
05/03/1990				13.1				0.03	19.3		257	214	27.9	55					<10	<200	<10	<10			
09/20/1990				8.34				<0.02	13.7		367	804	23.3	96.8					<10	<200	<10	<10			
12/11/1990				13.4				<0.02	<6		292	684	30.9	66.1					<10	<200	<10	<10			
01/29/1991				14.2				<0.02	18		283	863	26.1	69.1					<10	<200	<10	<10			
05/01/1991				13.8				0.03	10.8		286	1170	23.6	68.3					<10	<200	<10	<10			
10/08/1991				12.5				0.41	14.9		361		25.7	77.4					<10	<200	<10	<10			
07/08/1992				<1				0.22		2.74				124					<500						
12/18/1992				<1				0.096						67				28,000	1,000						
06/30/1993				0.16				<0.02						53					1,200						
12/28/1993				<0.2				0.02						58					<1000						
06/22/1994				0.13				0.03						45					1,400						
07/06/1995	<0.25			0.38	<0.25	<0.25	<0.02							49					2,800						
07/09/1996	<0.25	<1	<0.1		<0.25	<0.25	<0.02							47					2,400						
07/11/1997				<0.1			<0.14							32.5					<260						
06/24/1998				<0.1			<0.14							59.9		0.5			3,300						
06/08/1999				<0.1			<0.14							80					<1000						
07/17/2000				<0.02			<0.08							77.7		0.55			2,900						
01/30/2001				<0.02			<0.08							80.8		<0.12			3,000						
07/10/2001				<0.02			0.30							51		<0.14			2,200						
08/06/2002				<0.020			<0.18							70		0.15			3,000						
07/23/2003				0.041			<0.13							57		0.38			3,600						
07/14/2004				<0.030			<0.13							47.9		0.36			3,500						
07/20/2005				<0.030			<0.10							40		0.15			5300M						
07/19/2006				<0.023			<0.13							48		0.12			4000 Q						
07/09/2007				<0.021			<0.19							160		0.14			3900 Q						
07/23/2008				0.094			<0.12							180		0.17			2,600						
7/23/2008 Duplicate				0.19			0.35							180		0.15			2,800						
07/06/2009				0.052			<0.12							92		0.13			4,600						
7/6/2009 Duplicate				0.6			<0.12							94		0.12			3,400						
07/15/2010				<0.050			<0.30 V							120		0.05			6,400						
07/25/2011				<0.022			<0.18							86		0.42			3,900						
7/25/2011 Duplicate				<0.022			<0.18							89		0.42			4,200						

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W10A

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Dissolved Iron (ug/L)	Iron (ug/L)	Dissolved Manganese (ug/L)
01/23/2012			<0.060				<0.18							62											
07/09/2012			<0.030				<0.030							59		0.45 B	3,900								
7/9/2012																									
Duplicate			<0.030				<0.030							65		0.40 B	4,800								
07/05/2013			<0.040				0.082							71		0.11	4,900								
7/5/2013																									
Duplicate			<0.040				<0.080							73		0.040	4,600								
01/24/2014				5									14				3,600						1,110		3,460
1/24/2014																									
Duplicate				5.1									14				4,300						1,130		3,510
07/10/2014				5.8				0.14					16		<0.016 Y		3,500						1,030		2,570 M
01/16/2015				5									13				2,200						1,140		2,510
1/16/2015																									
Duplicate				5.4									13				2,500						1,100		2,500
07/09/2015				7.9				<0.040					10		<0.050		3,300						944		3,050
7/9/2015																									
Duplicate				8				<0.040					10		<0.050		3,100						985		3,030
01/14/2016				6.3									11				1,000						876		2,150
1/14/2016																									
Duplicate				6.2									11				950						911		2,150
07/12/2016				7.3				<0.040					12		0.19		950						1,070		2,390
7/12/2016																									
Duplicate				6.5				<0.040					11		0.18		970						1,070		2,390
01/19/2017				7.6									15				1,500						981		1,970
1/19/2017																									
Duplicate				7.2									15				1,400						974		1,950
07/18/2017				9.4				<0.040					9.6		<0.020		1,700						1,030		3,050
7/18/2017																									
Duplicate				8.7				0.056					10		<0.020		1,800						1,040		3,080

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W10B

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)
07/08/1992			<1				0.191	0.279	37			<500	6680
12/18/1992			<1				0.427		3.57			600	6680
06/29/1993			<0.1			0.37			3			<1000	
12/28/1993			<0.2			0.36			<2			<1000	
06/22/1994			0.16			0.42			<2			<1000	
07/06/1995	<0.25		0.3	<0.25	<0.25	0.33			<2			<250	
07/09/1996	<0.25	<1	<0.1	<0.25	<0.25	0.43			<2			<250	
07/11/1997			<0.1			0.36			2.34			<0.27	
06/24/1998			<0.1			0.35			1.05		<0.2	<250	
06/08/1999			<0.1			0.37			1.16			<100	
07/17/2000			<0.02			0.28			1.85		<0.16	<500	
01/30/2001			<0.02			0.33			1.15		<0.12	<500	
07/10/2001			<0.020			0.37			1.2		<0.14	<500	
08/06/2002			<0.020			1.3			9.7		<0.070	<500	
07/23/2003			<0.011			0.38			3.2		<0.070	<28	
07/14/2004			<0.030			0.750			4.46		<0.11	<27 Q	
07/14/2004			<0.030			0.750			3.42		<0.11	110 Q	
07/20/2005			<0.030			0.610			2.1		<0.090	<27	
7/20/2005 Duplicate			<0.030			0.540			2.2		<0.090	<27	
07/19/2006			<0.023			0.910			2.6		<0.060	<520	
07/09/2007			<0.021			0.420			1.5		<0.080	<26	
07/23/2008			<0.080			0.670			8.8		<0.050	83	
07/06/2009			<0.030			0.280			4.3		<0.040	<27	
07/15/2010			<0.050			0.810			2.5		<0.040	47	
07/20/2011			<0.022			0.510			6.3		<0.030	190	
01/23/2012			<0.060			0.370			3				
07/06/2012			<0.030			0.420			3.5		<0.016	98	
07/05/2013			<0.040			0.380			6.2		<0.016	81	
07/08/2014							0.5			<0.016		<27	
07/07/2015							0.58			<0.050		<27	
07/07/2016							0.6			0.051		<34	
07/17/2017							0.62			<0.020		52	



Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W12

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Dissolved Iron (ug/L)	Dissolved Manganese (ug/L)	Sulfate (ug/L)	Total Organic Carbon (ug/L)
06/18/1992			<1				9.28	1.35	159			<500					
12/17/1992			<1				10.3		140			<500	63,000				
06/29/1993			<0.1			11.3			126			<1000					
12/28/1993			0.22			8.14			108			<1000					
06/21/1994			<0.1			7.43			102			<1000					
07/06/1995	<0.25		0.28	<0.25	<0.25	6.25			105			<250					
07/08/1996	<0.25	<1	<0.1	<0.25	<0.25	7.7			89			<250					
07/11/1997			<0.1			5.5			83.6			<260					
06/23/1998			<0.1			3.97			100	<0.2		<250					
06/08/1999			<0.1			3.25			107			<100					
07/17/2000			<0.02			3.675			103.5	<0.16		<500					
01/30/2001			<0.02			5.30			106	<0.12		<500					
07/10/2001			<0.02			8.40			94	<0.14		<500					
08/05/2002			<0.020			8.50			110	<0.070		<500					
07/22/2003			0.05			8.20			94	0.08		29					
07/13/2004			<0.030			7.08			76	<0.11		<27					
07/19/2005			<0.030			3.60			93	<0.090		<27					
07/19/2006			<0.023			8.70			150	<0.060		<540					
07/09/2007			<0.021			8.40			150	<0.080		<26					
07/23/2008			<0.080			9.10			120	<0.050		88					
07/06/2009			<0.030			9.50			140	<0.040		<27					
07/14/2010			<0.050			8.200			150	<0.040		<26					
07/18/2011			<0.022			4.80			160	<0.030		<27					
01/23/2012			<0.060			1.90			91								
07/09/2012			<0.030			2.00			81	0.020 B		300					
07/01/2013			<0.040			5.80			310	<0.016		<26					
01/24/2014												<27		<5.0	<0.50	26	1.2
07/07/2014							6.8			<0.016		<27		<10	<1.6	31	2.2
01/12/2015												<27		<10	<1.6	31	1.1
07/06/2015							6.5			<0.050		<27		<10	<1.6	25	1.8
01/12/2016												<26		50.4	<1.6	<1.0	1.6
07/05/2016							6.1			0.093		<33		<10	<1.6	25	1.8
01/16/2017												<34		<59	<2.2	26	1.8
07/11/2017							6.3			<0.020		35 B		<59	<2.2	22	1.6

Water Quality Indicators - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W13

Sampled	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Dissolved Iron (ug/L)	Dissolved Manganese (ug/L)	Sulfate (ug/L)	Total Organic Carbon (ug/L)
06/22/1992			<1					0.825	4.46	77.4			<500					
12/19/1992			<1					1.48		146			<500	83300				
06/30/1993			<0.1				1.38			80			<1000					
12/27/1993			<0.2				5.01			200			<1000					
04/25/1994			<0.1				2.36			167								
06/22/1994			<0.1				2.84			152			<1000					
10/04/1994			0.2				5.590			132								
03/10/1995			<0.1				7.22			184								
07/06/1995	<0.25		0.3	<0.25	<0.25		6.66			163			<250					
09/13/1995			<0.1				4.59			96								
03/20/1996			0.1				4.65			133								
07/10/1996	<0.25	<1	<0.1	<0.25	<0.25		4.87			83			<250					
09/25/1996			<0.1				4.37			101								
07/11/1997			<0.1				<0.14			75.5			<270					
01/02/1998			<0.1				4.41			211								
06/24/1998			<0.1				3.57			150		<0.2	<250					
01/26/1999			<0.1				4.97			135		<0.2						
06/09/1999			<0.1				3.045			89.4			<100					
01/11/2000			<0.1				1.37			106		0.26						
07/18/2000			<0.02				4.05			119		<0.16	<500					
01/30/2001			<0.02				1.24			135		<0.12	<500					
07/10/2001			<0.02				7.9			95		<0.14	<500					
01/15/2002			0.096				2.6			94								
08/06/2002			<0.020				6.9			84		<0.070	<500					
01/14/2003			<0.070				3.5			210								
07/23/2003			<0.011				4.7			82		0.11	<27					
01/21/2004			<0.03				1.1			130								
01/21/2004			<0.03				0.90			120								
07/14/2004			<0.030				2.42			57.1		<0.11	36 J.Q					
01/19/2005			<0.030				4.9			150								
07/21/2005			<0.030				2.1			76		0.11	67					
01/17/2006			<0.023				1.36			40.3								
07/18/2006			<0.023				1.6			78		0.07	<510					
01/23/2007			<0.023				1.7			36								
1/23/2007 Duplicate			<0.023				1.6			35								
07/09/2007			<0.021				1.9			180		<0.080	<31					
01/28/2008			<0.021				2.3 Q			77								
07/24/2008			<0.080				1.2			75		0.05	83					
01/20/2009			<0.080				2.1			210								
07/06/2009			0.23				<0.12			630		<0.040	<27					
01/18/2010			<0.030				1			85								
07/13/2010			<0.050				1.7			220		0.04	29					
01/25/2011			<0.050				0.51			60								
07/19/2011			<0.022				1.0			50		0.060	42					
01/17/2012			<0.17				0.77			88								
07/06/2012			<0.030				1.00			540		<0.016	34					
01/08/2013			<0.030				1.30			120								
07/10/2013			<0.040				1.10			56		<0.016	46					
01/22/2014							1.6						<27		<5.0	11.7	12	1.6
07/16/2014							1.2				<0.016		58		<10	51.6	20	1.2
01/19/2015							0.67						<27		43.2	77.5	8.2	1.1
07/08/2015							1.3				<0.050		51		38.5 M	43.7	21	2.1
01/14/2016							1						<27		<10	19.4	9.4	2.5
07/11/2016							0.99				0.095		<33		128	40.7	16	3.1
01/23/2017							0.89						<34		<59	14.1	12	3.9
07/20/2017							0.66 Y				<0.020		49 B		<59	84.7	19	3.2

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W14

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Sprits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)
01/08/1987				4.51				5.51	<5		574	1684	30.5	128				32.6	1356.5	<10	239	<100
06/04/1987				2.22				4.46	30		443	1670	<10	123				<10	<200	<10		
09/03/1987				6.5				3.76	30.1		434	820	18.3	127				<10	<200	<10		
12/03/1987				2.05				4.69	<5		413	2260	32.2	127								
03/03/1988				3.78				6.34	8.74		439	972	22.7	128								
04/07/1988				2.93				6.19	<6		429	1540	21.2	101				<10	<200	<10		
08/10/1988				2.99				5.34	5.7		338	4660	32.2	109				<10	<200	<10		
11/15/1988				2.85				5.96	<5		473	70	<10	115				<10	<200	<10		
01/26/1989				1.71				5.37	<6		469	458	<10	118								
04/27/1989				3.42				5.52	<6		439	2600	22.5	112				<10	<200	<10		
07/27/1989				64.6				5.7	<6		596	2910	23.5	137				<10	<200	<10		
10/26/1989				2.54				5.57	<6		470	1,190	29.2	104				<10	<200	<10		
01/25/1990				1.74				5.31	<6		418	1,800	24.3	87.7				<10	<200	<10		
05/03/1990				4.92				4.46	<5		389	553	22.5	95				<10	<200	<10		
09/21/1990				2.12				5.33	<5		425	912	23.2	107				<10	<200	<10		
12/11/1990								6.07														
12/12/1990				12.4					<6		497	664	21.3	116				<10	253	<10		
01/30/1991				2.86				6.62	<6		463	621	23.8	116				<10	249	<10		
05/01/1991				8.06				6.3	<5		463	1,460	24.7	115				<10	212	<10		
06/18/1991								2														
10/08/1991				1.78				6.47	<6		490	1,320	22.4	114				<10	<200	<10		
06/24/1992								6.04	6	1.96				114				<500				
12/18/1992				<1				5.78						94.7			41,200	<1	<200	<10		
06/29/1993				<0.1				5.76						110				<1000				
12/28/1993				<0.2				4.68						113				<1000				
06/21/1994				<0.1				4.18						112				<1000				
07/06/1995	<0.25			0.4	<0.25	<0.25		4.51						117				<250				
07/08/1996	<0.25	<1		<0.1	<0.25	<0.25		4.98						120				<250				
07/11/1997				<0.1				2.44						186				<260				
06/23/1998				<0.1				1.76						241	<0.2			<250				
06/07/1999				<0.1				2.88						125				<100				
07/17/2000				<0.02				3.63						112	<0.16			<500				
01/30/2001				<0.02				3.88						122	<0.12			<500				
07/10/2001				<0.02				3.8						110	<0.14			<500				
08/05/2002				<0.020				4.0						130	<0.070			<500				
07/22/2003				0.026				5.4						130	<0.070			<29				
07/12/2004				<0.030				5.12						208	<0.11			<28				
07/19/2005				<0.030				5.5						83	<0.090			<27				
07/18/2006				<0.023				5.1						100	<0.060			<740				
07/09/2007				<0.021				4.4						130	<0.080			<29				
07/22/2008				0.12				4.8						210	<0.050			75				
07/06/2009				<0.030				5.1						170	<0.040			<27				
07/13/2010				<0.050				5.9						170	<0.040			<27				
07/18/2011				<0.022				5.3						160	<0.030			<27 M				
07/09/2012				<0.030				5.3						110	<0.016			<27				
07/01/2013				<0.040				4.8						170	<0.016			<26				

Note:

WDNR letter dated March 18, 2014 concurred with TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.





Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W17

Date	Ammonia Nitrogen Total (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Dissolved Iron (ug/L)	Dissolved Manganese (ug/L)	Sulfate (ug/L)	Total Organic Carbon (ug/L)
07/24/2003	<0.011		<0.13	44		0.09	1,600				
07/13/2004	<0.030		<0.13	48.6		<0.11	13,000 Y				
01/20/2005	<0.030		0.31 J	51							
1/20/2005 Duplicate	<0.030		0.30 J	52							
07/20/2005	<0.030		0.77	380		<0.090	1,800				
07/18/2006	<0.023		0.19	200		0.11	1,500				
01/23/2007	<0.023		<0.13	21							
01/23/2007 Duplicate	<0.023		<0.13	23							
07/09/2007	<0.021		0.62	220		0.09	570				
01/28/2008	<0.021		<0.19	32							
07/23/2008	<0.080		0.32	66		0.06	260 M.Y				
07/06/2009	0.2		<0.12	370		<0.040	1,000				
7/6/2009 Duplicate	0.24		<0.12	280		<0.040	<27				
01/18/2010	<0.030		<0.12	30							
07/15/2010	<0.050		<0.30 V	67		0.26	8,800				
01/24/2011	0.069		<0.060	19							
07/19/2011	0.042		0.68	36		0.27	4,600				
01/23/2012	<0.060		<0.18	29							
07/06/2012	0.050		0.036	82		0.12 B	7,300				
7/6/2012 Duplicate	0.092		0.062	81		0.13 B	2,600				
01/07/2013	<0.030		<0.040	27							
07/02/2013	<0.040		0.16	51		0.05	330				
01/22/2014		0.11					760	489	601	3.5	2.9
07/16/2014		0.12			<0.016		2,100	407	2,250	2.3	3.5
01/15/2015		0.16					1,100	262	550	2.2	4.0
1/15/2015 Duplicate		0.16					2,300	250	565	2.1	2.4
07/09/2015		<0.040			<0.050		1,800	366	1,160	5.6	6.6
01/14/2016		<0.040					1,500	305	467	2.2	7.0
1/14/2016 Duplicate		<0.040					3,400	599	827	2.5	7.1
07/07/2016		<0.040			0.052		1,400	850	1,410	2.7	87.0
01/16/2017		0.099					650	250	310	5.0	4.5
07/17/2017		0.070			0.050		710	184	1,440	3.6	4.7

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W18

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Total Sulfate (mg/L)	Total Organic Carbon (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)
02/25/1992							<0.02		52.4			1,000					
07/08/1992			<1				<0.02	4.02	131			<500					
09/17/1992			<1				<0.02	1.6	50.5			<500	21,100				
12/17/1992			<1				0.05		52.7			1,000	22,800				
03/23/1993			0.14			<0.02			52			2,100	21,800				
06/29/1993			<0.1			0.04			43			<1000					
12/28/1993			<0.2			<0.02			69			1,000					
06/22/1994			<0.1			<0.02			45			<1000					
07/05/1995	<0.25		0.22	<0.25	<0.25	<0.02			39			1,900					
07/09/1996	<0.25	<1	<0.1	<0.25	<0.25	<0.02			28			940					
07/11/1997			<0.1			<0.14			40.7			<260					
06/24/1998			<0.1			<0.14			37.1	<0.2		250					
06/08/1999			<0.1			1.26			23.3			<100					
07/18/2000			<0.02			2.01			34.2	0.27		<500					
01/31/2001			<0.02			0.380			10.8	<0.12		<500					
07/11/2001			<0.020			2.1			25	<0.14		<500					
08/06/2002			<0.020			3.9			29	<0.070		<500					
07/23/2003			<0.011			2.7			45	0.09		<28					
07/12/2004			<0.030			1.840			22.2	<0.11		<27					
07/18/2005			<0.030			2.1			120	<0.090Y		62					
07/18/2006			<0.023			3.0			92	<0.060		<510					
07/09/2007			<0.021			1.2			42	<0.080		<27					
07/23/2008			<0.080			3.0			64	<0.050		66					
07/07/2009			<0.030			1.9			140	<0.040		<26					
07/13/2010			<0.050			2.8			86	<0.040		<27					
07/19/2011			<0.022			<0.18			200	<0.030		330					
01/17/2012			<0.17			0.60			72								
07/19/2012			<0.030			0.45			50	<0.016		38					
07/02/2013			<0.040			1.20			270	<0.016		<27					
07/10/2014							0.92			<0.016		<27					
07/07/2015							0.69			<0.050		<27					
07/06/2016							0.60			<0.020		<34					
07/11/2017							0.15 M			<0.020		34 B	8.9	1	<59	<2.2	

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W19

Date	Ammonia Nitrogen Total (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Total Sulfate (mg/L)	Total Organic Carbon (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)
06/24/92				388							
12/18/92				270							
06/30/93				87							
12/28/93				154							
04/25/94				164							
06/21/94				53							
10/04/94				48							
03/10/95				235							
07/06/95				238							
09/13/95				68							
03/20/96				43							
07/10/96				140							
09/25/96				188							
07/11/97				221							
12/31/97				1220							
06/01/1998				648							
07/18/2000	<0.02		3.66	1,610		1	41,000				
07/11/2001	<0.020		4.1	530		0.65	19,000				
01/15/2002	<0.020		3.3	2000							
08/06/2002	<0.020		4.6	630		0.47	37,000				
01/14/2003	<0.070		3.9	400							
07/22/2003	0.046		4.4	260		1.3	16,000				
01/20/2004	0.13 J		4.7	390							
07/13/2004	0.074 J		4.26	653		1.6	12,000 Q				
01/20/2005	<0.030		3.70	720							
07/20/2005	<0.030		3.90	520		0.58	1,100				
01/17/2006	<0.023		4.53	387							
07/20/2006	<0.023		5.30	610		0.47	30000 Q				
01/23/2007	<0.023		3.80	1500							
07/11/2007	<0.021		3.30	880		0.98	5700 Q				
7/11/2007 Duplicate	<0.021		3.00	740		1.3	10000 Q				
01/28/2008	<0.021		3.8 Q	560							
07/24/2008	0.12		4.30	520		0.68	2,100				
01/20/2009	<0.080		5.70	580							
07/07/2009	0.085		3.70	660		1.1	5,900				
01/18/2010	0.088		4.3 V	660							
07/14/2010	<0.050		4.30	440		0.35	330				
01/25/2011	<0.050		2.50	300							
07/19/2011	<0.022		1.50	600		1.4	360				
01/17/2012	0.24		3.10	500							
07/06/2012	<0.030		3.20	430		0.56 B	430				
01/04/2013	<0.030		2.40	450							
07/01/2013	0.047		1.10	370		1.6	330				
01/21/2014		2.10									
07/08/2014		1.50			0.020 B		410				
01/15/2015		1.50									
07/08/2015		2.10			<0.050		430				
01/14/2016		3.10									
07/07/2016		1.60			0.074		310				
01/16/2017		3.40									
07/17/2017		1.60			<0.020		47	16	4	665	82.6



Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W22

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Dissolved Iron (ug/L)	Dissolved Manganese (ug/L)	Sodium (ug/L)	Sulfate (ug/L)	Total Organic Carbon (ug/L)
02/25/1992								<0.02		386			3000					
06/14/1992								0.14		299			550					
09/17/1992			<1					0.675	0.632	19.6			<500			11300		
12/18/1992			<1					0.081		313			3000			131000		
03/24/1993			<0.1				0.02			307			9900			124000		
06/30/1993			<0.1				0.73			25			<1000					
12/28/1993			0.22				0.06			356			2000					
04/25/1994			0.24				0.13			247								
06/22/1994			<0.1				0.05			180			<1000					
10/04/1994			<0.1				0.15			240								
01/05/1995			<0.1				0.27			248								
03/09/1995			0.13				0.21			196								
07/06/1995	<0.25		0.49	<0.25	<0.25		0.02			167			2000					
09/13/1995			<0.1				0.22			119								
12/18/1995			0.13				<0.1			183								
03/21/1996			0.12				<0.1			138								
07/10/1996	<0.25	<1	<0.1	<0.25	<0.25		0.28			95			1800					
09/25/1996			<0.1				<0.08			100								
01/21/1997			<0.1				0.15			118								
07/11/1997			<0.1				0.2			184			2800					
01/02/1998			<0.1				<0.14			392								
06/24/1998			<0.1				0.16			428		0.3	2900					
01/26/1999			<0.1				<0.14			432.5		1.05						
08/07/2002			<0.020				<0.18			230		0.23	51,000					
01/14/2003			<0.070				<0.18			140								
01/20/2005			<0.030				0.47			150								
07/21/2005			<0.030				<0.10			280		0.36	230,000					
01/17/2006			<0.023				<0.10			441								
07/20/2006			<0.023				<0.13			640		0.27	38000 Q					
01/23/2007			<0.023				0.2			510								
07/11/2007			<0.021				0.41 Y			170		0.33	1900 Q					
01/28/2008			<0.021				<0.019 Q			150 Q								
07/24/2008			<0.080				<0.12			160		0.51	3,000					
01/21/2009			<0.080				0.76			91								
07/07/2009			<0.030				0.26			450		0.2	2,400					
01/19/2010			<0.030				1			68								
07/15/2010			<0.050				2.9			160		0.1	2,400					
7/15/2010 Duplicate			<0.050				2.8			160		0.27	5,100					
01/25/2011			<0.050				1.9			82								
07/19/2011			<0.022				0.55			40		0.70	54					
01/18/2012			<0.17				0.51			190								
07/10/2012			<0.030				1.7			270		0.21	3,800					
01/07/2013			<0.030				0.26			240								
1/7/2013 Duplicate			<0.030				0.11			220								
07/08/2013			<0.040				0.43			230		0.62	4,300					
01/22/2014								0.33					3,700	<5.0	2600		13	9.3
07/08/2014								0.56			<0.016		3,400	13.8	768		21	11
01/15/2015								0.32					2,900	22.2	614		11	6.7
07/09/2015								0.51			<0.050		2,900	<10	790		16	9
01/13/2016								0.57					2,100	23.5	965		18	10
07/11/2016								0.6			0.12		1,700	21.1	1010		14	8.9
01/19/2017								<0.24					5,200	392	3310		11	11
1/19/2017 Duplicate								<0.040					5,800	<59	3250		8.1	10
07/18/2017								0.25			<0.020		1,400	191	1370 M		11	9.9

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W25

Date	#2 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Springs (ug/L)	Sodium (ug/L)
02/19/1992							7.64		75.8			<610	
07/29/1992							4.66		60.4			<500	
09/17/1992		<1					6.04	1.96	34.6			<500	31900
12/17/1992		<1					6.52		39.3			<500	33700
03/23/1993		<0.1				4.37			77			<500	40200
06/28/1993		0.2				4.2			71			<1000	
12/28/1993		0.26				8.07			136			<1000	
04/25/1994		0.2				1.14			90				
06/21/1994		0.17				2.69			84			1600	
10/04/1994		<0.1				6.02			89				
03/10/1995	<0.25	0.23	<0.25	<0.25		0.58			68				
07/05/1995		0.71				2.58			91			850	
09/13/1995		<0.1				1.14			25				
03/21/1996		0.11				4.55			54				
07/11/1997		<0.1				5.5			156			<260	
01/02/1998		<0.1				3.4			81.2				
06/23/1998		<0.1				2.61			110	<0.2		<250	
01/26/1999		<0.1				4.5			144	<0.2			
06/09/1999		0.2				4.9			187			<100	
01/11/2000		<0.1				4.75			207	<0.16			
07/18/2000		<0.02				5.74			186	<0.16		<500	
01/30/2001		<0.02				5.18			308	144		<500	
07/10/2001		<0.02				4.4			160	<0.14		<500	
01/15/2002		<0.020				5.0			240				
08/05/2002		<0.020				8.4			140	<0.070		<500	
01/14/2003		<0.070				10.0			110				
07/22/2003		0.023				5.6			150	<0.070		<27	
01/20/2004		0.042				3.2			230				
07/13/2004		<0.030				7.70			40.7	<0.11		27 J	
01/19/2005		<0.030				6.30			88				
07/21/2005		<0.030				3.60			120	<0.090		340	
7/21/2005 Duplicate		<0.030				3.8			120	<0.090		380	
07/18/2006		<0.023				2.20			82	<0.060		<530	
7/18/2006 Duplicate		<0.023				2.1			89	<0.060		<530	
01/23/2007		<0.023				2.80			200				
07/11/2007		<0.021				4.8			220	0.14		65	
01/29/2008		<0.021				4.5 Q			190 Q				
07/23/2008		<0.080				7.30			71	0.05		92 Q	
01/20/2009		<0.080				12.00			250M				
07/06/2009		<0.030				6.60			120	<0.04		86	
01/18/2010		<0.030				5.40			150				
07/13/2010		<0.050				4.90			180	0.06		630	
7/13/2010 Duplicate		<0.050				5.10			180	0.04		570	
01/24/2011		<0.050				4.80			46				
07/19/2011		<0.022				4.30			16	0.090		100	
7/19/2011 Duplicate		<0.022				4.30			15	0.160		130	
01/23/2012		0.09				3.90			110				
07/06/2012		<0.030				4.10			150	0.060 B		230	
01/04/2013		<0.030				2.60			60				
07/05/2013		<0.040				4.90			28	0.030		54 MY	
01/21/2014							4.5						
07/09/2014							5.8			<0.016		<27	
01/19/2015							5.2						
07/08/2015							5.4			<0.050		45	
01/14/2016							6						
07/06/2016							5.9			0.050		<33	
01/16/2017							4.2						
07/11/2017							6.8			<0.020		47 B	

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W26

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Dissolved Iron (ug/L)	Dissolved Manganese (ug/L)	Sodium (ug/L)	Sulfate (ug/L)	Total Organic Carbon (ug/L)
02/25/1992							0.034	103					1,000					
06/14/1992							0.093	130					<500					
09/17/1992			<1				0.031	166	1.96				650			62,800		
12/18/1992			<1				0.337	139					1,000			66,000		
03/24/1993			0.18				0.12	136					4,800			52,800		
06/30/1993			0.19				0.12	133					<1000					
12/27/1993			<0.2				0.16	155					1,000					
04/25/1994			0.11				<0.02	212										
06/22/1994			<0.1				<0.02	181					1,200					
10/04/1994			<0.1				<0.02	178										
03/09/1995			0.12				0.05	169										
07/06/1995	<0.25		0.24	<0.25	<0.25		0.04	143					4,400					
09/13/1995			<0.1				<0.02	245										
03/21/1996			0.16				<0.04	118										
07/09/1996	<0.25	<1	<0.1	<0.25	<0.25		0.81	488					900					
09/25/1996			<0.1				<0.08	359										
07/11/1997			<0.1				0.25	207					<260					
01/02/1998			<0.1				<0.14	287										
06/24/1998			<0.1				<0.14	349				0.2	3,800					
01/27/1999			<0.1				<0.14	691				<0.2						
06/09/1999			<0.1				<0.14	677					<1000					
01/11/2000			<0.1				<0.14	193.5				0.355						
07/18/2000			<0.02				<0.08	375				<0.16	4,800					
01/31/2001			<0.02				<0.08	254				<0.12	2,600					
07/11/2001			<0.020				0.95	420				<0.14	1,700					
01/15/2002			<0.020				<0.18	56										
08/06/2002			<0.020				<0.18	250				<0.070	1,300					
01/14/2003			<0.070				<0.18	340										
07/24/2003			0.042				0.27	300				0.19	410					
01/21/2004			0.045				<0.13	260										
07/13/2004			<0.030				0.60	230				<0.11	230					
01/20/2005			<0.030				0.78	390										
07/20/2005			<0.030				0.84	320				<0.090	850					
01/17/2006			<0.023				0.36	373										
07/20/2006			<0.023				0.68	400				0.10	1600 Q					
7/20/2006 Duplicate			<0.023				0.53	420				0.10	1800 Q					
01/23/2007			<0.023				0.14	1100										
07/09/2007			<0.021				<0.19	460				0.18	320					
7/9/2007 Duplicate			<0.021				<0.19	530				0.21	380					
01/28/2008			<0.021				<0.19	350										
01/28/2008 Duplicate			<0.021				<0.19	410										
07/24/2008			<0.080				<0.12	270				0.06	1,000					
01/20/2009			<0.080				0.310	67										
07/07/2009			<0.030				0.120	22				0.14	<27					
7/7/2009 Duplicate			<0.030				0.140	22				0.13	<27					



Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W26

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Dissolved Iron (ug/L)	Dissolved Manganese (ug/L)	Sodium (ug/L)	Sulfate (ug/L)	Total Organic Carbon (ug/L)
01/18/2010			<0.030				<0.12			100								
07/15/2010			<0.050				2.20			370		<0.040	3,400					
01/25/2011			<0.050				3.10			560								
07/20/2011			<0.022				4.70			700		0.090	960					
7/20/2011 Duplicate			<0.022				4.70			660		0.090	970					
01/23/2012			<0.060				3.80			620								
07/10/2012			<0.030				3.10			770		<0.016	360					
01/04/2013			<0.030				1.20			590								
07/02/2013			<0.040				1.30			780		<0.016	49					
01/22/2014								3.5					50	<5.0	599		26	2.6
07/07/2014								2.5			<0.016		<26	<10	259		29	3.9
01/15/2015								3.7					<27	<10	138		42	3.3
07/09/2015								1.4			<0.050		1,100	<10	263		44	5.2 Y
01/13/2016								3.1					60	<10	265		36	2.3
07/07/2016								2.7			0.042		<33	<10	221		40	3.7
01/16/2017								1.7					420	<59	76.1		28	3.7
07/17/2017								1.8			<0.020		51	<59	270		16	3.2

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W27

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Dissolved Iron (ug/L)	Dissolved Manganese (ug/L)	Sulfate (ug/L)	Total Organic Carbon (ug/L)
06/24/1992							0.926	103			500						
12/17/1992			<1				0.324	140			2,000	58,000	<1				
06/30/1993			<0.1			2.62		162			<1000						
12/28/1993			0.26			0.39		129			1,000						
06/22/1994			<0.1			0.36		116			<1000						
07/06/1995	<0.25		0.47	<0.25	<0.25	1.41		123			3,800						
07/09/1996	<2.5	<10	<0.1	<2.5	<2.5	0.16		173			6,500						
07/11/1997			<0.1			0.32		214			<250						
06/24/1998			<0.1			0.64		187		1	4,900						
06/08/1999			0.25			0.42		359			2,800						
07/18/2000			<0.02			0.295		341.5		0.87	3,850						
01/31/2001			<0.02			0.180		232		0.37	5,300						
07/11/2001			0.12			1.1		520		0.17	<500						
08/06/2002			<0.020			0.81		710		0.31	2,700						
07/22/2003			0.35			0.55		240		0.53	2,800						
07/13/2004			0.44			1.32		189		0.41	3,500						
07/19/2005			0.55			0.72		190		0.4	4,600						
07/19/2006			0.50			0.43		140		0.24	4,100						
07/09/2007			0.64			0.46		260		0.27	3600 Q						
07/23/2008			1.30			0.39		330		0.17	3,200						
07/07/2009			0.54			0.44		280		0.21	3,600						
07/14/2010			0.59			0.94		260		0.12	14,000						
7/14/2010 Duplicate			0.57			1.2 Y		260		0.1	17,000						
07/25/2011			0.15			0.22		46		0.33	7,900						
07/10/2012			0.25			0.051		61		0.15	9,900						
07/05/2013			0.26			1.400		110		0.06	9,000						
01/24/2014											4,900			4,480	11,800	18	8.9
07/09/2014							0.2		<0.016		4,400			5,450	18,800	22 M	17
01/16/2015											6,200			5,290	13,700	22	9.3
07/09/2015							0.23		<0.050		9,200			9,120	20,100	40	22
01/13/2016											7,000			7,020	17,800	38	18
07/11/2016							0.17		0.17		4,300			8,550	19600 M	47	23
01/19/2017											9,800			7,550	22,100	26	18
07/18/2017						<0.040			<0.020		6,300			4,610	15,900	69	52
7/18/2017 Duplicate						<0.040			<0.020		7,200			4,860	16,500	86	47

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W28

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Dissolved Iron (ug/L)	Iron (ug/L)	Dissolved Manganese (ug/L)
01/08/1987				7.31				<0.02	<5		485	8170	36.8	102					30.45	2285	<10	965		<100	
06/04/1987				4.6				0.29	5.08		385	4290	37.3	88.4					<10	<200	<10			370	
09/03/1987				29.5				0.14	29		343	1650	20.2	102					<10	<200	<10				
12/03/1987				5.64				0.15	<6		351	768	42.7	14											
03/03/1988				12				<0.02	9.52		471	2070	43.5	129											
04/07/1988				8.47				<0.02	<5		386	3300	47.2	123					<10	<200	<10				
08/10/1988				4.63				0.23	8.32		206	4310	53	107					<10	<200	<10				
11/15/1988				4.84				0.18	10.5		402	1970	19.6	100					<10	<200	<10				
01/26/1989				4.66				<0.02	9.28		423	567	<10	121											
04/27/1989				7.26				0.04	7.68		392	1020	35.2	115					<10	<200	<10				
07/27/1989				35.6				0.19	<6		388	2450	38.5	94.3					<10	<200	<10				
10/26/1989				2.77				0.2	<6		365	1050	46.5	85.5					<10	<200	<10				
01/25/1990				4.05				0.11	<6		466	1130	33.6	93.5					<10	<200	<10				
05/03/1990				12				<0.02	<6		384	540	37.1	96					<10	<200	<10				
09/20/1990				4.55				<0.02	<5		317	918	33.6	89.9					<10	<200	<10				
12/11/1990				5.62				0.19	<6		324	528	33.8	79					<10	<200	<10				
01/29/1991				4.41				<0.02	<6		293	963	31.6	76.1					<10	<200	<10				
05/01/1991				7.05				0.08	7.56		281	1400	30.1	74.8					<10	<200	<10				
10/08/1991				4.99				<0.02	<5		329	840	23.3	73.4					<10	<200	<10				
07/08/1992			<1					0.115		0.918						<500									
12/17/1992			<1					0.051						98.3		<500	49,100								
06/29/1993			0.17				<0.02							88		<1000									
12/28/1993			<0.2				0.13							158		<1000									
06/22/1994			<0.1				0.03							130		<1000									
07/05/1995	<0.25		0.14	<0.25	<0.25		0.25							99		<250									
07/09/1996	<0.25	<1	<0.1	<0.25	<0.25		0.1							65		<250									
07/11/1997			<0.1				<0.14							75.5		<270									
06/24/1998			<0.1				0.19							57.2	<0.2	<250									
06/08/1999			<0.1				0.24							53.6		<100									
07/18/2000			<0.02				0.21							50.9	0.24	<500									
01/30/2001			<0.02				0.160							47.4	3.9	<500									
07/10/2001			<0.02				0.84							32	<0.14	<500									
08/06/2002			<0.020				0.80							28	<0.070	<500									
07/23/2003			<0.011				0.77							26	<0.070	110									
07/12/2004			<0.030				0.75							59.2	<0.11	28 J									
07/18/2005			<0.030				1.10							70	<0.090	<27									
07/18/2006			<0.023				2.10							110	<0.060	<520									
07/09/2007			<0.021				1.70							87	<0.080	<31									
07/23/2008			<0.080				2.10							53	<0.050	320									
07/07/2009			<0.030				1.10							78	<0.040	<26									
07/13/2010			<0.050				0.33							190	<0.040	<27									
07/18/2011			<0.022				0.50							150	<0.030	90									
01/17/2012			<0.060				0.31							180											
07/19/2012			<0.030				<0.030							56	<0.016	31									
07/02/2013			<0.040				0.64							270	<0.016	<27									
01/24/2014				0.73									20			49							<5.0	23.2	
07/10/2014				0.58				0.99					15	<0.016		<26							15.7	13.3	
01/16/2015				1.2									17			<27							54.1	<1.6	
07/07/2015				1.8				1.2 H					16	<0.050		<27							<10	<0.050	
01/12/2016				1.3									16			<27							<10	<1.6	
07/06/2016				1				1.2					15	<0.020		<33							<10	<1.6	
01/16/2017				1.8									15			<34							<59	<2.2	
07/11/2017				1.5				0.81					10	<0.020		34 B							<59	<2.2	

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W29

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)
01/08/1987				18.9				0.53	9.8	446	3785	41.1	87.4					50	676	<10	310	2820		
06/04/1987				26.3				0.23	16.8	436	2740	46.1	117					<10	<200	<10		4060		
09/03/1987				27.7				0.95	12.2	308	765	21.3	70.9					<10	<200	<10				
12/03/1987				22.8				0.16	20.2	452	2220	48.1	118											
03/03/1988				16				0.42	13.7	327	1470	34	66.8											
04/07/1988				5.46				2.8	<5	154	1050	30.2	13.2					<10	<200	<10				
08/10/1988				25.2				0.39	20.3	224	5150	55.7	95.6					<10	<200	<10				
11/15/1988				34.3				0.19	27.9	366	1620	48.9	99.5					<10	<200	<10				
01/26/1989				25.3				0.23	28.7	374	361	<10	86.2											
04/27/1989				27.8				<0.02	32.9	408	2060	32.4	81					<10	<200	<10				
07/27/1989				69.8				0.07	16.6	502	1120	50	116					<10	<200	<10				
10/26/1989				15.8				0.34	15.3	395	372	40.2	87.4					<10	<200	<10				
01/25/1990				11.6				0.32	<6	218	758	25.7	45.3					<10	<200	<10				
05/03/1990				4.36				2.07	<6	159	170	11.9	17					<10	<200	<10				
09/21/1990				5.23				0.69	<5	158	376	16.3	23					<10	<200	<10				
12/11/1990				14.3				0.26	<6	192	297	34	19.8					<10	<200	<10				
01/30/1991				5.26				0.28	<6	165	291	13.1	15.1					<10	<200	<10				
05/01/1991				13.1				0.31	<6	190	500	14.4	17.4					<10	<200	<10				
06/25/1992								0.027					21.1			<500								
12/18/1992				<1				0.231					25.9			<500	22,100	<1						
06/30/1993				0.15				0.44					43			<1000								
12/28/1993				<0.2				0.1					24			<1000								
06/22/1994				<0.1				0.6					157			<1000								
07/05/1995	<0.25			0.97	<0.25	<0.25	<0.02						35			<250								
07/09/1996	<0.25	<1	<0.1	<0.25	<0.25	0.08							60			690								
07/11/1997				<0.1		0.15							30.4			<260								
06/23/1998				<0.1		0.14							95.2	<0.2		470								
06/08/1999				<0.1		0.66							354			<100								
07/18/2000				<0.02		1.04							98.7	0.21		<500								
01/30/2001				<0.02		0.290							34.1	<0.12		<500								
07/11/2001				<0.020		0.31							53	<0.14		<500								
08/07/2002				<0.020		<0.18							28	<0.070		<500								
07/24/2003				<0.011		0.24							31	<0.070		<28								
07/13/2004				<0.030		0.400 J							43.1	<0.11		<27								
07/20/2005				<0.030		0.55							13	<0.090		150								
07/19/2006				<0.023		<0.13							30	<0.060		<540								
07/09/2007				<0.021		0.62							18	<0.080		<27								
07/24/2008				<0.080		0.32							79	<0.050		85								
7/24/2008 Duplicate				<0.080		0.35							75	<0.050		86								
07/07/2009				<0.030		<0.12							46	<0.040		<26								
07/14/2010				<0.050		0.57							67	<0.040		31								
07/19/2011				<0.022		<0.18							89	<0.030		1300 M								
07/09/2012				0.073		0.15							120	<0.016		1,000								
07/02/2013				<0.040		0.56							70	<0.016		<26								
07/07/2014								0.22						<0.016		140								
07/07/2015								0.29 H						<0.050		1,300								
07/11/2016								1.3						<0.020 M		600								
7/11/2016 Duplicate								1.1						<0.020		600								
07/17/2017				4.9				0.27				20		<0.020		350						<59	35.5	

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W32

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Carbon, Total Organic (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Oil and Grease (mg/L)	Phosphorus, Phosphate (mg/L)	Solids, Total Dissolved (mg/L)	Solids, Total Suspended (mg/L)	Sulfate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Chromium (ug/L)	Chromium, Total (ug/L)	Iron (ug/L)
01/08/1987				34.1				0.03	<5		168	2210	45.9	15.5					48.4	712	<10	361	30500
06/04/1987				23.9				<0.02	<5		221	1730	53	17.6					<10	<200	<10		49500
09/03/1987				14.8				<0.02	<5		191	245	36.2	12.5					<10	<200	<10		
12/03/1987				14.5				<0.02	<6		175	182	57.8	14							<10		
03/03/1988				11.5				<0.02	8.62		89	416	32.6	7.19									
04/07/1988				9.31				<0.02	<5		124	87	32.4	8.11					<10	<200	<10		
08/10/1988				21.1				<0.02	<6		21	1410	58.8	13.8					<10	<200	<10		
11/15/1988				15.7				<0.02	<6		181	342	56.4	15					<10	<200	<10		
01/26/1989				9.35				<0.02	<6		196	91	75.5	12.1									
04/27/1989				16.7				<0.02	<6		193	373	9.8	20					<10	<200	<10		
07/27/1989				42.8				<0.02	<6		224	171	1.5	16.9					<10	<200	<10		
10/26/1989				8				<0.02	<6		136	90	25.1	8.55					<10	<200	<10		
01/25/1990				9.81				<0.02	7.64		111	140	5.7	10.6					<10	<200	<10		
05/03/1990				10.6				<0.02	<6		140	18	4	11					<10	<200	<10		
09/21/1990				13.9				<0.02	<5		81	41	<1	6.1					<10	<200	<10		
12/11/1990				14.1				<0.02	<6		130	30	<1	5.8					<10	<200	<10		
01/30/1991				15.1				<0.02	<6		108	24	<1	4					<10	<200	<10		
05/01/1991				29.2				<0.02	<6		477	109	46.4	72.9					<10	269	<10		
10/08/1991				15.1				<0.02	<5		183	86	<1	5.96					<10	<200	<10		
06/24/1992								<0.02		2.8				27.2					<500				
12/19/1992			1.96					0.052						25.9					<500	21,800			
06/29/1993			1.8				0.07							56					<1000				
12/28/1993			1.31				0.08							7					<1000				
06/22/1994			1.21				0.04							11					<1000				
07/05/1995	<0.25		1.46		<0.25	<0.25	0.03							12					<250				
07/08/1996	<0.25	<1	1.72		<0.25	<0.25	<0.06							38					<250				
07/11/1997			0.9				0.15							9.4					<270				
06/23/1998			0.92				<0.14							12.1		<0.2			<250				
06/07/1999			1.49				0.15							21.9					<100				
07/17/2000			1.02				<0.08							14.9		<0.16			<500				
01/30/2001			<0.02				<0.08							7.11		0.60			<500				
07/10/2001			1.1				<0.18							23		<0.14			<500				
08/06/2002			<0.020				<0.18							17		<0.070			<500				
07/24/2003			0.99				<0.13							8.5		0.19			<27				
07/13/2004			1.6				<0.13							35.6		<0.11			28 J				
07/20/2005			1.1				<0.10							8.5		<0.090			<27				
07/18/2006			1.2				<0.13							11		<0.060			<540				
07/09/2007			1.3				<0.19							14		<0.080			<33				
07/22/2008			1.4				<0.12							56		<0.050			77				
07/07/2009			1.4				<0.12							45		<0.040			<26				
07/14/2010			1.4				<0.30 V							27		<0.040			39				
07/18/2011			1				0.46							22		<0.030			<28				
07/09/2012			0.94				<0.030							14		<0.016			41				
07/01/2013			1.10				0.27 MY							65		<0.016			<26				
07/07/2014								0.13								<0.016			<27				
07/06/2015								<0.040								<0.050			<27				
07/05/2016								<0.040								0.092			<34				
07/10/2017								<0.040								<0.020			39 B				

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W33

Date	Ammonia Nitrogen Total (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Dissolved Iron (ug/L)	Dissolved Manganese (ug/L)	Sulfate (ug/L)	Total Organic Carbon (ug/L)
08/07/2002	<0.020		0.98	630		3.4	100,000				
07/24/2003	0.018		1.3	370		10	86,000				
07/14/2004	<0.030		1.55	355		2.7	180,000 Q,M				
07/21/2005	<0.030		2	370		13	190,000				
01/23/2007	0.040		1	560							
07/11/2007	0.052		1.3	460		7.1	120,000 Q				
07/24/2008	0.200		1.5	440		12	28,000				
07/07/2009	<0.030		2	470		1.1	12,000				
01/19/2010	0.240		<2.4 V	440							
07/15/2010	0.075		<0.30 V	470		2.7	21,000				
01/25/2011	0.520		<0.30 V	410							
07/25/2011	0.350		0.23	57		3.7	3,800				
01/23/2012	0.230		0.93	170							
07/19/2012	0.073 M		<0.030	190		2.3	15000 M				
01/08/2013	0.150		<0.040	210							
07/08/2013	<0.040		0.23	110		4.3	17,000				
01/22/2014		0.17					26,000	3,140	2,750	20	8.6
07/07/2014		0.2			<0.016		26,000	1,810	2,030	17	11.0
01/15/2015		0.17					15,000	1,400	1,880	23	9.7
07/09/2015		0.37			<0.050		6,500	851	1360 M	12	7.0
01/14/2016		0.10					12,000	1,680	1,430	17	6.7
07/12/2016		0.15			0.21		4,800	1,600	1,500	13	6.4
01/19/2017		<0.040					9,400	2,560	1,510	20	21.0
07/18/2017		0.44			<0.020		3,500	693	1,850	12	9.3

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W36

Sampled	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)
02/20/1992							<0.02		100			1200
08/03/1992							0.048		102			1000
09/17/1992			<1				0.055	2.93	48.7			650
09/13/1995			<0.1			2.31			136			
07/10/1996	<0.25	<1	<0.1	<0.25	<0.25	0.21			120			1800
07/11/1997			<0.1			1.4			77			33000
01/02/1998			<0.1			1.33			94.2			
06/25/1998			<0.1			2.44			92.8	11.5		2400
01/27/1999			<0.1			2.8			95.1	23		
06/09/1999			0.11			2.755			96.05			<100
01/11/2000			<0.1			3.16			118	10.7		
07/18/2000			<0.02			2.88			133	4.45		1300
01/31/2001			0.250			3.27			107	6.9		<500
07/11/2001			<0.020			3.8			92	<0.14		<500
01/15/2002			0.260			3.6			110			
08/06/2002			<0.020			4			130	<0.070		<500
01/15/2003			<0.070			4.2			150			
07/22/2003			0.053			3.9			250	1.8		150
01/21/2004			<0.030			3.8			230			
07/14/2004			<0.030			4.17			190	0.49		430 Q
01/20/2005			<0.030			4.2			160			
07/21/2005			<0.030			3.6			160	0.91		230
01/18/2006			<0.023			3.420			163			
07/18/2006			<0.023			3.7			150	0.32		<520
01/23/2007			<0.023			4.7			200			
07/09/2007			<0.021			4.4			220	0.29		<28
7/9/2007 Duplicate			<0.021			4.5			220	0.32		<27 MY
01/29/2008			<0.021			5.6 Q			240			
01/29/2008 Duplicate			<0.021			5.6 Q			230			
07/23/2008			<0.080			<0.12			230	0.21		78
01/20/2009			<0.080			5.5			230			
1/20/2009 Duplicate			<0.080			5.6			220			
07/06/2009			<0.030			6.2			250	0.21		<27
01/18/2010			<0.030			6.6			290			
07/14/2010			<0.050			6.4			220	0.37		<27
01/24/2011			<0.050			5.7			210			
07/19/2011			0.042			5.2			180	0.58		<27
01/18/2012			<0.17			2.1			320			
07/09/2012			<0.030			5.2			210	0.86 B		<27
01/07/2013			<0.030			5.4			200			
07/02/2013			<0.040			5.2			200	1.5		<27
07/09/2014							5.4			<0.016		<26
07/07/2015							4.7			<0.050		<27
07/06/2016							5.4			0.049		<33
07/11/2017							5.7			<0.020		44 B

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W39

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)
06/17/1992			<1					0.461	5.36	193			<500		<1
12/18/1992								0.905		195			75,000	96,200	
06/21/1994			<0.1				0.58			185			<1000		
03/10/1995			0.3				0.4			75					
09/13/1995			0.16				0.1			62					
12/18/1995			0.45				0.24			141					
03/20/1996			0.13				<0.1			69					
07/09/1996	<13	<50	0.11	<13	<13		0.08			170			95,000		
01/21/1997			<0.1				1			122					
07/11/1997			<0.1				1.24			163			160,000		
01/02/1998			<0.1				0.57			207					
06/24/1998			<0.1				0.6			189	2.2		45,000		
06/09/1999			0.36				2.78			155			27,000		
07/19/2000			<0.02				1.4			168	3.2		240,000		
07/11/2001			<0.020				1.8			200	1.0		34,000		
08/06/2002			<0.020				2.1			97	0.25		140,000		
01/15/2003			<0.070				3.6			310					
07/22/2003			0.053				2.3			180	1.10		28,000		
01/20/2004			0.037				3.900			320					
07/14/2004			<0.030				3.41			292	1.40		33,000 Q		
01/20/2005			<0.030				3.3			290					
07/20/2005			<0.030				4			210	0.18		1,300		
01/17/2006			<0.023				2.23			297					
07/19/2006			<0.023				2.7			140	0.29		16000 Q		
7/19/2006 Duplicate			<0.023				2.0			140	0.33		15000 Q		
01/23/2007			0.25				1.1			260					
07/11/2007			0.25				1.1			170	1.50		22000 Q		
01/28/2008			<0.021				2.4 Q			190					
07/24/2008			0.59				1.6			270	4.90		9,500		
01/21/2009			<0.080				2.4			370					
07/07/2009			0.17				3.7			320	0.71		11,000		
01/19/2010			0.24				1.3 V			360					
1/19/2010 Duplicate			0.18				1.6 V			350					
07/14/2010			0.51				0.54 V			52	5.40		13,000		
01/25/2011			0.59				<0.060			81					
1/25/2011 Duplicate			0.60				<0.060			78					
07/25/2011			0.067				0.36			61	5.30		6,100		
01/17/2012			0.97				<0.18			150					
1/17/2012 Duplicate			1.00				<0.18			150					
07/10/2012			1.10				1.1			230	1.10		3,600		
01/04/2013			0.65				0.63			240					
1/4/2013 Duplicate			0.71				0.64			230					
07/08/2013			1.40				0.22			360	2.00		4,000		
01/21/2014								0.21							
07/08/2014								0.33			0.030 B		8,600		
01/15/2015								0.22							
07/09/2015								2			<0.050		3,000		
01/14/2016								0.23							
07/07/2016								0.38			0.082		2,000		
01/19/2017								0.15							
07/17/2017								<0.040			0.058		980		



Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W40

Date	Ammonia Nitrogen Total (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Total Sulfate (mg/L)	Total Organic Carbon (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)
01/19/2010	<0.030		<1.2 V	290							
07/15/2010	<0.050		<0.30 V	360		7.9	250,000				
01/25/2011	<0.050		<0.30 V	210							
07/25/2011	0.048		0.38	160		3.8	130,000				
01/18/2012	<0.17		0.69	240							
07/19/2012	<0.030		<0.030	220		4.2	56,000				
01/07/2013	<0.030		0.13	210							
07/08/2013	<0.040		<0.080	690		2.5	280,000				
01/21/2014		<0.080									
07/08/2014		<0.080			<0.016		47,000				
01/15/2015		0.15									
07/09/2015		<0.040			<0.050		38,000				
01/19/2016		<0.040									
07/12/2016		<0.040			0.12		28,000				
01/19/2017		<0.040									
07/18/2017		<0.040			<0.020		250,000	10	43	3360	8080

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W41

Date	#2 Fuel Oil (mg/L)	#6 Fuel Oil (mg/L)	Ammonia Nitrogen Total (mg/L)	Gasoline (mg/L)	Kerosene (mg/L)	Nitrate (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Nitrogen, Nitrate (mg/L)	Phosphorus, Phosphate (mg/L)	Total Chloride (mg/L)	Dissolved Mercury (ug/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)	Sodium (ug/L)	Arsenic (ug/L)	Total Sulfate (mg/L)	Total Organic Carbon (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)
02/25/1992								0.759		80.6			141,000						
06/16/1992								0.345	5.11	246			500		<1				
09/17/1992			<1					0.543	2.55	168			900	67,800					
12/19/1992			<1					0.228		211			9,000	103,000					
03/24/1993			0.66				0.34			122			7,100	107,000					
06/30/1993			0.12				0.05			124			330,000						
12/28/1993			0.34				1.75			218			5,600						
04/25/1994			0.34				0.04			115									
06/21/1994			0.22				0.04			91			2,800						
10/04/1994			0.6				0.34			44									
03/10/1995			0.47				0.53			191									
07/06/1995	<0.25		0.85	<0.25	<0.25		0.9			132			5,500						
09/13/1995			0.57				0.29			100									
03/20/1996	<2.5	<10	0.54	<2.5	<2.5		<0.2			162									
07/09/1996			0.26				<0.02			137			13,000						
09/25/1996			0.2				0.74			164									
07/11/1997			0.3				3.76			146			10,000						
01/02/1998			0.26				0.75			323									
06/24/1998			0.22				0.52			281	0.4	5,200							
01/26/1999			0.15				0.35			318	0.4								
06/08/1999			0.57				0.5			414		5,900							
01/11/2000			0.5				0.213			250	0.75								
07/19/2000			0.290				0.55			248	0.22	11,000							
01/31/2001			0.360				<0.08			206	0.21	5,600							
07/11/2001			0.40				0.64			210	0.21	6,300							
01/15/2002			0.88				<0.18			110									
08/06/2002			<0.020				0.63			230	0.12	8,600							
01/14/2003			0.53				1.1			200									
07/22/2003			0.74				1.2			170	0.48	7,000							
01/20/2004			1.10				0.62			240									
07/13/2004			0.90				0.81			1080	0.52	8300 Y							
07/13/2004			0.98				1.28			255	0.43	9300 Y							
01/20/2005			1.00				1.60			220									
07/19/2005			1.20				1.70			230	0.44	8,300							
01/17/2006			0.98				0.89			187									
07/19/2006			0.89				0.54			190	0.48	6,600							
01/23/2007			0.80				0.46			190									
07/09/2007			0.67				0.70			130	0.38	5600 Q							
01/28/2008			0.59				1.6 Q			160									
07/24/2008			0.53				1.40			220	0.62	9,100							
01/21/2009			0.85				1.20			300									
1/21/2009 Duplicate			0.94				0.68			300									
07/07/2009			0.75				1.80			280	0.28	3,300							
01/19/2010			0.77				1.7 V			250									
07/14/2010			0.21				3.80			110	0.2	2,900							
01/25/2011			0.32				1.40			89									
07/20/2011			0.13				<0.18			25	0.34	2,500							
01/17/2012			0.60				<0.18			84									
07/10/2012			0.46				0.098			140	0.94	5,600							
01/04/2013			0.51				0.350			210									
07/05/2013			0.37				<0.080			190	0.27	11,000							
01/21/2014							0.22												
07/09/2014							0.20				<0.016		9,100						
01/15/2015							0.15												
07/08/2015							<0.040				<0.050		8,200						
01/14/2016							0.27												
07/12/2016							<0.040				0.15		2,500						
01/19/2017							0.20												
07/18/2017							0.14				<0.020		1,400			22	20	1380	14300

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W69

Date	Ammonia Nitrogen Total (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	Total Chloride (mg/L)	Total Mercury (ug/L)	TPH as Mineral Spirits (ug/L)
07/24/2003	0.095	0.77	120	23	61,000
01/21/2004	0.15 J	0.23 J	130		
07/14/2004	<0.030	1.25	96.7	35.0	76,000 Q
7/14/2004 Duplicate	<0.030	1.20	75.1	16.0	72,000 Q
01/20/2005	0.048 J	0.75	83		
07/23/2008	<0.080	0.92	150	7.4	8,300
01/21/2009	<0.080	1.30	140		
01/25/2011	0.23	0.98	59		
07/25/2011	0.059	0.28	35	56.8	7,900 MY
01/18/2012	<0.17	<0.18	71		
07/10/2012	0.18	0.44	81	<0.016	8,600 M
01/07/2013	0.26	0.054 M	44		
07/08/2013	<0.040	0.120	25	12.6	6,500

Note:

WDNR letter dated March 18, 2014 concurred with TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.

Water Quality Indicators - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W71

Date	TPH as Mineral Spirits (ug/L)
07/01/2016	<34
07/10/2017	35 B

Water Quality Indicators - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W72

Date	TPH as Mineral Spirits (ug/L)
07/01/2016	<33
07/10/2017	<34

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W73

Date	TPH as Mineral Spirits (ug/L)	Nitrate Nitrogen (mg/L)	Total Sulfate (mg/L)	Total Organic Carbon (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)
07/01/2016	<34					
07/10/2017	39 B		17	10	<59	10.1

Water Quality Indicators - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W74

Date	TPH as Mineral Spirits (ug/L)
07/01/2016	<33
07/10/2017	36 B

Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - FP2

Date	Nitrate Nitrogen (mg/L)	Total Sulfate (mg/L)	Total Organic Carbon (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)	TPH as Mineral Spirits (ug/L)
01/24/2014		3.9	6.9	14,000	9,790	8,300
07/10/2014		6.3	10	12,100	8,340	5,900
01/12/2015		3.5	8.1	15,200	9,970	6,200
07/09/2015	<0.040	4.4	8.6	11,300	7,720	5,800
01/12/2016		2.5	7.9	12,200	7,000	3,700
07/06/2016		2.3	7.8	11,500	7330 M	3,000
01/16/2017		3.8	12	15600 M	7300 M	5,500
07/18/2017		3.3	9.4	16,400	9,430	3,900



Water Quality Indicators - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - PW17

Date	Nitrate Nitrogen (mg/L)	Total Sulfate (mg/L)	Total Organic Carbon (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (ug/L)	TPH as Mineral Spirits (ug/L)
01/24/2014		7.8	13	4,250 M	5,980 M	7,300
07/10/2014		16	6.7	3,910	3,150	3,500
7/10/2014 Duplicate		16	7.2	3,970	3,140	3,400
01/12/2015		16	8.3	2770	2680	5,500
07/09/2015	0.26	14	6.9	5920	3630	3,600
01/12/2016		13	7	8310	3730	1,800
07/06/2016		15	5.9	5440	3030	800
01/16/2017		21	6.6	221	1380	1300
07/18/2017		12	7.4	3960	3790	2100

Water Quality Indicators - Historical Data  
WAULECO, INC - Wausau Facility  
Well - DFOMW5

Date	TPH as Mineral Spirits (ug/L)
07/11/2016	250
07/20/2017	92 B

**B2**

**Phenolics**

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W01A

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3,8,4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol	
02/19/92		<1		<1	<0.5	<b>5.91</b>	<b>5.27</b>		<0.5		<0.5		<1	<0.5	<1		<b>101</b>	<0.5		
06/14/92		<1.02		<1.02	<0.51	<0.51	<1.02		<b>24.3</b>		<0.51		<1.02	<0.51	<1.02		<b>168</b>	<0.51		
09/17/92		<1		<b>34.3</b>	<0.5	<b>67.8</b>	<1		<0.5		<0.5		<1	<0.5	<b>42.1</b>		<b>193</b>	<0.5		
12/18/92		<1		<b>5.18</b>	<b>23.3</b>	<0.5	<b>6.69</b>		<0.5		<0.5		<1	<b>1.77</b>	<b>2.51</b>		<b>150</b>	<b>24.1</b>		
03/23/93		<20		<60	<2	<2	<6		<2		<2		<10	<10	<10		<b>219</b>	<2		
06/28/93	<b>40</b>		<20	<10	<10	<10	<b>310</b>	<10		<b>170</b>	<10	<20	37	<10	430	<10	<b>210</b>		<20	
12/28/93	<160		<320	<160	<160	<b>190</b>	<320	<160		<160	<160	<320	<160	<160	<320	<160	<b>310</b>		<b>240</b>	
04/25/94	<10		<b>59</b>	<b>55</b>	<10	<10	67	<10		<10	<10	<20	<10	<b>19</b>	<b>24</b>	<10	<b>20</b>		<20	
06/21/94	<b>69</b>		<b>160</b>	<b>120</b>	<b>130</b>	<b>29</b>	<b>110</b>	<b>27</b>		<b>64</b>	<b>200</b>	<20	<b>46</b>	<b>59</b>	<b>65</b>	<10	<b>120</b>		<20	
10/04/94	<10		<b>58</b>	<b>65</b>	<10	<b>86</b>	<b>34</b>	<10		<b>22</b>	<10	<20	<10	<b>18</b>	<20	<10	<b>89</b>		<20	
01/05/95	<b>28</b>		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<b>20</b>	<20	<10	<b>50</b>		<20	
03/10/95	<10		<b>26</b>	<b>18</b>	<b>10</b>	<b>44</b>	<20	<10		<b>44</b>	<b>50</b>	<b>41</b>	<10	<b>12</b>	<b>21</b>	<10	<b>28</b>		<b>35</b>	
07/05/95	<25		<10	<10	<10	<10	<50		<10	<10	<20	<50	<20	<50	<25	<50	<50	<10		
09/13/95	<b>20</b>		<b>70</b>	<b>130</b>	<b>53</b>	<b>42</b>	<b>89</b>	<b>24</b>	<10	<b>26</b>	<b>21</b>	<b>20</b>	<10	<b>91</b>	<b>29</b>	<10	<b>150</b>	<10		
12/18/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100	<b>180</b>	<100		
03/21/96	<10		<b>86</b>	<b>53</b>	<b>12</b>	<b>16</b>	<20	<b>13</b>	<10	<10	<10	<20	<b>20</b>	<b>48</b>	<b>24</b>	<10	<b>140</b>		<10	
07/10/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<b>14</b>	<20	<10	<b>16</b>	<20	<10	<b>64</b>		<10	
09/25/96	<b>0.77</b>		<0.73	<0.71	<0.8	<1.5	<0.72	<0.87	<1.2	<0.79	<1.5	<b>1.7</b>	<0.75	<0.69	<0.74	<0.85	<b>0.68</b>		<1	
01/21/97	<7.9		<7.5	<7.3	<8.2	<16	<7.4	<9	<12	<8.1	<16	<18	<7.7	<7.1	<7.6	<8.8	<b>185</b>	<11		
07/11/97	<0.182		<b>130</b>	<b>110</b>	<b>310</b>	<b>210</b>	<0.269	<b>690</b>	<0.194	<b>360</b>	<b>380</b>	<b>230</b>	<0.362	<b>300</b>	<b>170</b>		<b>340</b>	<b>230</b>		
01/02/98	<b>50</b>		<b>110</b>	<b>70</b>	<b>260</b>	<b>100</b>	<b>550</b>	<b>410</b>	<b>140</b>	<b>270</b>	<b>230</b>	<0.128	<b>170</b>	<b>65</b>	<0.351		<b>80</b>	<0.127		
06/23/98	<b>67</b>		<b>78</b>	<b>80</b>	<b>200</b>	<b>120</b>	<b>380</b>	<b>440</b>	<b>200</b>	<b>200</b>	<b>320</b>	<b>88</b>	<b>170</b>	<b>160</b>	<60		<b>63</b>	<b>130</b>		
01/26/99			<b>95</b>	<b>68</b>		<b>78</b>	<b>190</b>	<b>110</b>		<b>120</b>	<b>150</b>	<b>86</b>		<b>90</b>	<b>140</b>			<b>120</b>		
06/09/99	<300		<300	<300	<b>500</b>	<300	<b>440</b>	<b>630</b>	<b>2100</b>	<b>340</b>	<b>1100</b>	<b>1200</b>	<300	<300	<300		<b>520</b>	<b>4400</b>		
01/11/00	<75		<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75		<b>140</b>	<75		
07/18/00	<150		<b>970</b>	<b>210</b>	<b>2100</b>	<b>1600</b>	<150	<b>2500</b>	<b>3100</b>	<b>2000</b>	<b>2500</b>	<b>2900</b>	<b>200</b>	<b>300</b>	<b>3500</b>		<b>690</b>	<b>2700</b>		
01/31/01	<30		<30	<30	<30	<30	<30	<30	<30	<b>41</b>	<30	<30	<30	<30	<b>79</b>		<30	<30		
07/09/01	<150		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		<b>280</b>	<150		
08/06/02	<150		<150	<150	<b>200</b>	<b>210</b>	<150	<b>330</b>	<b>190</b>	<b>440</b>	<b>340</b>	<b>730</b>	<150	<b>310</b>	<150		<150	<b>860</b>		
01/14/03	<b>80</b>		<30	<b>42</b>	<b>410</b>	<30	<30	<30	<30	<b>250</b>	<b>510</b>	<30	<30	<30	<30		<b>35</b>	<30		
07/22/03	<b>9.3</b>		<6	<6	<b>59</b>	<b>21</b>	<6	<6	<6	<b>70</b>	<b>72</b>	<b>94</b>	<6	<6	<6		<b>71</b>	<b>7</b>		
01/20/04	<b>15</b>		<b>9.2</b>	<6.0 J	<b>40</b>	<b>9.9 J</b>	<b>15</b>	<6.0	<b>21</b>	<b>81</b>	<b>93</b>	<b>120</b>	<6.0 J	<6.0	<b>8.0</b>		<b>97</b>	<b>22</b>		
07/13/04	<6.0		<b>17</b>	<b>11</b>	<b>28</b>	<b>7.5 J</b>	<b>14</b>	<b>10</b>	<6.0	<b>18</b>	<b>7.7 J</b>	<b>23</b>	<6.0	<6.0	<8.0		<b>33</b>	<b>37</b>		
01/19/05	<3.0		<3.0	<3.0	<b>4.4</b>	<3.0	<3.0	<3.0	<3.0	<b>8.2</b>	<b>6</b>	<b>29</b>	<b>9.3</b>	<3.0	<3.0	<3.0		<b>7.9</b>	<b>7.7</b>	
07/21/05	<6.0 V		<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<b>22 V</b>	<b>14 V</b>	<b>62 V</b>	<b>19 V</b>	<6.0 V	<6.0 V	<6.0 V		<b>70 V</b>	<6.0 V		
01/17/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>5.6</b>	<3.0		
07/18/06	<60		<60	<60	<b>170</b>	<b>230</b>	<b>88</b>	<b>130</b>	<b>740</b>	<b>600</b>	<b>1800</b>	<b>690</b>	<b>65</b>	<b>62</b>	<60		<b>130</b>	<b>860</b>		
01/24/07	<3.0		<3.0	<3.0	<b>11</b>	<b>4.9</b>	<3.0	<3.0	<3.0	<b>7.7</b>	<b>100</b>	<b>11</b>	<3.0	<3.0	<3.0		<b>13</b>	<3.0		
07/11/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>18</b>	<3.0		
01/29/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>18</b>	<3.0		
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>22</b>	<3.0		

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W01A

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3,8,4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinitrosec	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
01/20/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0Q	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>9.5</b>	<3.0	
07/06/09	<b>3.7</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>47</b>	<3.0	
01/18/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>20</b>	<3.0	
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>20</b>	<3.0	
01/24/11	<b>4.2</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>45</b>	<3.0	
07/19/11	<b>1.6</b>		<1.3	<1.2	<1.2	<0.95	<1.7	<1.4	<1.0	<1.0	<1.0	<1.6	<1.9	<0.88	<1.3		<b>11</b>	<0.56	
01/23/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>2.5</b>	<3.0	
07/06/12	<b>2.1</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>21</b>	<3.0	
01/04/13	<b>1.4</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>14</b>	<3.0	
07/05/13	<b>4.2</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>42</b>	<3.0	
07/07/14	<b>4.1</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>42</b>	<3.0	
07/07/15	<b>5.8</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>1.1</b>	<3.0	<3.0	<3.0		<b>60</b>	<3.0	
07/06/16	<b>2.5</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>31</b>	<3.0	
07/11/17	<b>2.2</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>27</b>	<3.0	

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W02

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
01/08/87																	1220		
06/04/87																	6520		
09/03/87																	394		
12/03/87																	180		
03/02/88																	1200		
04/07/88																	10		
08/10/88																	4200		
11/15/88																	4700		
01/26/89																	455		
04/27/89																	6550		
07/27/89																	5940		
10/26/89																	2340		
01/25/90																	8450		
05/03/90																	2380		
09/20/90																	5940		
12/11/90																	6400		
01/30/91																	11400		
05/01/91																	47000		
06/18/91																	15100		
10/08/91																	14800		
02/20/92		<1		<1	<0.5	19.8	<1		<0.5		<0.5		<1	<0.5	46.3		7550	<0.5	
06/14/92		<1.05		146	<0.526	5.42	47.2		<0.526		<0.526		<1.05	<0.526	39.6		10900	<0.526	
09/17/92		39.4		<1	36.7	1.99	<1		<0.5		<0.5		2.87	<0.5	52.6		9590	<0.5	
12/18/92		12.9		<1	<0.5	<0.5	4.35		<0.5		<0.5		<1	1.77	4.93		12700	45.7	
03/24/93		<20		<6	<2	<2	<6		<2		<2		<10	<10	<10		<10	<2	
04/25/94	600		190	490	<10	89	95	110		300	68	110	75	130	110	40	1500		230
06/22/94	1300		400	290	560	110	340	370		210	410	<200	<100	<100	240	<100	5000		<200
10/04/94	1400		<1000	<500	<500	<500	<1000	<500		<500	<500	<1000	<500	<500	<1000	<500	14000		<1000
01/05/95	1400		<1000	<500	<500	<500	<1000	<500		<500	<500	<1000	<500	<500	<1000	<500	16000		<1000
03/10/95	<1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	6900		<2000
07/06/95	<2500		<1000	<1000	<1000	<1000	<5000		<1000	<1000	<1000	<2000	<5000	<2000	<5000	<2500	11000	<1000	
09/13/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	9200	<1000	
12/18/95	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000	<10000	<5000	<5000	<10000	<5000	6700	<5000	

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W02

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
03/21/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	1100	<1000	<2000	<1000	<b>11000</b>	<1000	
07/10/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000	<10000	<5000	<5000	<10000	<5000	<b>1400</b>	<5000	
01/21/97	<b>1750</b>		<75	<73	<82	<159	<74	<90	<121	<81	<159	<178	<77	<71	<76	<88	<b>10900</b>	<107	
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<b>1200</b>	<0.252	<0.104	<0.128	<0.362	<0.105	<b>2300</b>		<b>21000</b>	<0.127	
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		<b>12000</b>	<0.127	
06/25/98	<3000		<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000		<b>26000</b>	<3000	
01/27/99							<b>3200</b>		<b>3700</b>	<b>3100</b>							<b>25000</b>		
01/15/03	<b>1500</b>		<1500	<1500	<b>3900</b>	<1500	<b>4500</b>	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		<b>13000</b>	<1500	<1500
07/22/03	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		<b>10000</b>	<1500	<1500
07/13/04	<600		<600	<600J	<600	<600	<b>1100</b>	<600	<600	<600	<600	<600	<600	<600	<800		<b>6600</b>	<b>810</b>	
01/21/04	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500 J	<1500 J	<1500	<1500	<1500J	<1500	<1500J		<b>15000</b>	<1500J	
01/20/05	<b>700 JV</b>		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<b>1700 V</b>	<600 V	<600 V	<600 V	<600 V		<b>9600 V</b>	<b>690 V</b>	
1/20/2005 Duplicate	<b>640 JV</b>		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<b>2200 V</b>	<600 V	<600 V	<600 V	<600 V		<b>8700 V</b>	<b>760 V</b>	
07/21/05	<b>670 V</b>		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<b>2500 V</b>	<600 V	<600 V	<600 V	<600 V		<b>9300V</b>	<600 V	
7/21/2005 Duplicate	<600 V		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<b>920 V</b>	<600 V	<600 V	<600 V	<600 V		<b>8300V</b>	<600 V	
01/17/06	<600 V		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V		<b>7800V</b>	<600 V	
1/17/2006 Duplicate	<600 V		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<b>1200 V</b>	<600 V	<600 V	<600 V	<600 V		<b>8500V</b>	<600 V	
01/18/10	<b>140</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>31</b>	<3.0	<3.0	<3.0		<b>3200</b>	<3.0	
1/18/2010 Duplicate	<b>110</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>27</b>	<3.0	<3.0	<3.0		<b>2600</b>	<3.0	
07/15/10	<b>120 Y</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>&lt;3.0</b>	<3.0	<3.0	<3.0		<b>2500</b>	<3.0	
01/25/11	<b>100</b>		<11	<10	<10	<8.4	<15	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11		<b>1500</b>	<4.9	
07/20/11	<110		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		<b>970</b>	<0.49	
01/18/12	<b>81</b>		<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11		<b>1500</b>	<4.8	
07/09/12	<b>170</b>		<5.8	<5.3	<5.3	<4.3	<7.9	<6.3	<4.6	<4.5	<4.7	<7.4	<8.4	<4.0	<5.8		<b>2000</b>	<3.0	
7/9/2012 Duplicate	<b>190</b>		<5.7	<5.2	<5.2	<4.2	<7.7	<6.2	<4.5	<4.4	<4.6	<7.2	<8.2	<3.9	<5.7		<b>2100</b>	<3.0	
01/07/13	<b>160</b>		<56	<51	<51	<41	<76	<61	<44	<43	<45	<71	<81	<38	<56		<b>2800</b>	<24	
07/08/13	<110		<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110		<b>1700</b>	<49	
07/16/14	<220		<220	<200	<200	<170	<310	<240	<180	<180	<180	<290	<330	<160	<220		<b>3000</b>	<98	
07/08/15	<b>100</b>		<26	<6.3	<26	<9.4	<78	<21	<6.3	<21	<15	<21	<31	<14	<31		<b>1900</b>	<6.8	
07/07/16	<b>67</b>		<6.1	<26	<6.6	<10	<15	<20	<6.1	<7.7	<6.1	<8.7	<15	<7.1	<10		<b>1500</b>	<12	
7/7/2016 Duplicate	<b>57</b>		<6.1	<26	<6.6	<10	<15	<20	<6.1	<7.7	<6.1	<8.7	<15	<7.1	<10		<b>1400</b>	<12	
07/13/17	<b>49</b>		<6.1	<25	<6.6	<10	<15	<20	<6.1	<7.6	<6.1	<8.6	<15	<7.1	<10		<b>830</b>	<12	
7/13/2017 Duplicate	<b>39</b>		<6.2	<26	<6.7	<10	<15	<21	<6.2	<7.7	<6.2	<8.8	<15	<7.2	<10		<b>690</b>	<12	

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W03A

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dimoseb	Penachlorophenol	Phenol	Phenol/2-Chlorophenol
01/08/87																	1220		
06/04/87																	6520		
09/03/87																	394		
12/03/87																	180		
03/02/88																	1200		
04/07/88																	10		
08/10/88																	4200		
11/15/88																	4700		
01/26/89																	455		
04/27/89																	6550		
07/27/89																	5940		
10/26/89																	2340		
01/25/90																	8450		
05/03/90																	2380		
09/20/90																	5940		
12/11/90																	6400		
01/30/91																	11400		
05/01/91																	47000		
06/18/91																	15100		
10/08/91																	14800		
02/20/92		<1		<1	<0.5	19.8	<1		<0.5		<0.5		<1	<0.5	46.3		7550	<0.5	
06/14/92		<1.05		146	<0.526	5.42	47.2		<0.526		<0.526		<1.05	<0.526	39.6		10900	<0.526	
09/17/92		39.4		<1	36.7	1.99	<1		<0.5		<0.5		2.87	<0.5	52.6		9590	<0.5	
12/18/92		12.9		<1	<0.5	<0.5	4.35		<0.5		<0.5		<1	1.77	4.93		12700	45.7	
03/24/93		<20		<6	<2	<2	<6		<2		<2		<10	<10	<10		<10	<2	
04/25/94	600		190	490	<10	89	95	110		300	68	110	75	130	110	40	1500		230
06/22/94	1300		400	290	560	110	340	370		210	410	<200	<100	<100	240	<100	5000		<200
10/04/94	1400		<1000	<500	<500	<500	<1000	<500		<500	<500	<1000	<500	<500	<1000	<500	14000		<1000
01/05/95	1400		<1000	<500	<500	<500	<1000	<500		<500	<500	<1000	<500	<500	<1000	<500	16000		<1000
03/10/95	<1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	6900		<2000
07/06/95	<2500		<1000	<1000	<1000	<1000	<5000		<1000	<1000	<1000	<2000	<5000	<2000	<5000	<2500	11000	<1000	
09/13/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	9200	<1000	
12/18/95	<5000		<5000	<5000	<5000	<5000	<10000	<5000		<5000	<10000	<5000	<5000	<10000	<5000		6700	<5000	



Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W03A

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Penachlorophenol	Phenol	Phenol/2-Chlorophenol
03/21/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<b>1100</b>	<1000	<2000	<1000	<b>11000</b>	<1000	
07/10/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<10000	<5000	<5000	<10000	<5000		<b>1400</b>	<5000	
01/21/97	<b>1750</b>		<75	<73	<82	<159	<74	<90	<121	<81	<159	<178	<77	<71	<76	<88	<b>10900</b>	<107	
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<b>1200</b>	<0.252	<0.104	<0.128	<0.362	<0.105	<b>2300</b>		<b>21000</b>	<0.127	
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		<b>12000</b>	<0.127	
06/25/98		<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000		<b>26000</b>	<3000	
01/27/99							<b>3200</b>		<b>3700</b>	<b>3100</b>							<b>25000</b>		
01/19/10	<b>370 M</b>		<8.1	<8.8	<6.2	<12	<16 M	<9.4	<6.9	<8.9	<6.1	<6.8	<9.5	<11	<6.3 M		<b>3,700 M</b>	<3.2	
07/15/10	<b>75</b>		<45	<41	<41	<33	<61	<49	<36	<35	<37	<57	<65	<31	<45		<b>1,300</b>	<20	
01/24/11	<b>130</b>		<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11		<b>1,900</b>	<4.9	
07/20/11	<b>47</b>		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<b>2.9</b>	<1.6	<0.78	<1.1		<b>640</b>	<0.49	
10/03/11																	<b>1,500</b>		
01/18/12	<b>33</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>530</b>	<3.0	
1/18/2012 Duplicate	<b>27</b>		<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11		<b>1,100</b>	<4.8	
04/03/12																	<b>390</b>		
07/10/12	<b>44</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>800</b>	<3.0	
01/07/13	<23		<23	<21	<21	<17	<32 M	<25	<18	<18	<19	<29	<34 M	<16	<23 Y		<b>320 M</b>	<10	
07/05/13	<b>29</b>		<28	<26	<26	<21	<39	<31	<22	<22	<23	<36	<41	<20	<28		<b>540</b>	<12	
01/21/14	<31		<31	<28	<28	<23	<43 M	<34	<25	<24	<26	<40	<45	<22	<31		<b>580</b>	<14	
07/09/14	<28		<28	<26	<26	<21	<38	<31	<22	<22	<23	<36	<41	<19	<28		<b>450</b>	<12	
7/9/2014 Duplicate	<28		<28	<26	<26	<21	<39	<31	<22	<22	<23	<36	<41	<20	<28		<b>390</b>	<12	
01/19/15	<26		<13	<3.1	<13	<4.6	<38	<10	<3.1	<10	<7.1	<10	<15	<6.9	<15		<b>200</b>	<3.3	
07/08/15	<26		<13	<3.1	<13	<4.6	<39	<10	<3.1	<10	<7.2	<10	<15	<7.0	<15		<b>380</b>	<3.4	
7/8/2015 Duplicate	<b>27</b>		<13	<3.1	<13	<4.6	<39	<10	<3.1	<10	<7.2	<10	<15	<7.0	<15		<b>550</b>	<3.4	
01/19/16	<b>26</b>		<13	<3.0	<13	<4.5	<38	<10	<3.0	<10	<7.1	<10	<15	<6.8	<15		<b>440</b>	<3.3	
07/07/16	<b>39</b>		<3.0	<13	<3.3	<5.1	<7.3	<10	<3.0	<3.8	<3.0	<4.3	<7.6	<3.5	<5.1		<b>780</b>	<6.1	
01/19/17	<b>17</b>		<3.0	<5.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>320</b>	<3.0	
07/17/17	<b>53</b>		<3.0	<13	<3.3	<5.1	<7.3	<10	<3.0	<3.8	<3.0	<4.3	<7.6	<3.5	<5.1		<b>680</b>	<6.1	

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W03B

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	2,3,4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
06/17/91		<1.02		<b>5.17</b>	<0.51	<0.51	<b>2.1</b>		<0.51		<0.51		<1.02	<0.51	<1.02		<b>394</b>	<0.51
02/22/92		<1		<1	<0.5	<0.5	<1		<b>1.9</b>		<0.5		<1	<0.5	<1		<b>25.4</b>	<0.5
09/17/92		<1		<b>1.04</b>	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		<b>215</b>	<0.5
12/18/92		<1		<1	<0.5	<0.5	<1		<b>1.61</b>		<0.5		<1	<0.5	<1		<b>103</b>	<b>1.31</b>
03/23/93		<10		<3	<1	<1	<3		<1		<1		<5	<5	<5		<b>17.8</b>	<1
06/29/93	<b>75</b>		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<b>1300</b>	
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<b>24</b>	
06/22/94	<b>11</b>		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<b>180</b>	
07/06/95	<25		<10	<10	<10	<10	<50	<10		<10	<10	<20	<50	<20	<50	<25	<b>60</b>	<10
07/10/96	<10		<10	<10	<10	<10	<20	<10		<10	<10	<20	<b>11</b>	<10	<20	<10	<b>110</b>	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		<b>71</b>	<0.127
06/24/98	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<b>16</b>	<3
06/09/99	<b>3.2</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>25</b>	<3.0
07/18/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<b>4.4</b>	<3
01/31/01	<3		<b>17</b>	<3	<3	<3	<b>3.0</b>	<3	<3	<3	<3	<3	<3	<3	<3		<b>18</b>	<3
07/11/01	<b>4.4</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>9.7</b>	<3.0
08/06/02	<b>5.7</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>43</b>	<3.0
07/24/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>7.6</b>	<3.0
07/13/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<b>5.7</b>	<3.0
07/20/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>3.6</b>	<3.0
07/11/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>4</b>	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/14/10	<b>31</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>250</b>	<3.0
07/18/11	<b>10</b>		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		<b>120</b>	<0.49
07/06/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>1.9</b>	<3.0
07/01/13	<b>3.3</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>48</b>	<3.0
07/09/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>9.4</b>	<3.0
07/07/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>8.5</b>	<3.0
07/05/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>2</b>	<3.0
07/13/17	<b>0.74</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>19</b>	<3.0

Notes:

Prepared By: T. Dushek, 11/2/17      Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
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- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
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Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W06R

Date	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol
07/24/03	<3000	<3000	<3000	<b>3,600</b>	<3000	<3000	<3000	<3000	<b>6,300</b>	<b>3,700</b>	<3000	<3000	<3000	<3000	<b>7,200</b>	<3000
07/23/08	<b>410</b>	<81	<89	<63	<120	<160	<95	<70	<90	<62	<69	<96	<110	<64	<b>5,100</b>	<32
7/23/2008 Duplicate	<b>420</b>	<82	<90	<64	<130	<170	<96	<71	<91	<63	<70	<97	<110	<65	<b>5,000</b>	<32
01/19/10	<b>1,800</b>	<81	<88	<62	<120	<160	<94	<69	<89	<61	<68	<95	<110	<63	<b>15,000</b>	<32
07/14/10	<b>290</b>	<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110	<b>4,500</b>	<49
01/25/11	<b>490</b>	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	<b>5,300</b>	<49
1/25/2011 Duplicate	<b>490</b>	<110	<100	<100	<82	<150	<120	<87	<86	<90	<140	<160	<76	<110	<b>5,300</b>	<48
07/25/11	<b>490 M</b>	<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1	<b>3,900 M</b>	<0.49
01/18/12	<b>290</b>	<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11	<b>2,900</b>	<4.9
07/09/12	<b>120 M</b>	<5.8	<5.3	<5.3	<4.3	<7.9	<6.3	<4.6	<4.5	<4.7	<7.4	<8.4	<4.0	<5.8	<b>1,000 M</b>	<3.0
01/07/13	<b>750</b>	<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110	<b>9,000</b>	<49
07/08/13	<b>300</b>	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	<b>3,300</b>	<49
7/8/2013 Duplicate	<b>340</b>	<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110	<b>3,600</b>	<49
01/21/14	<b>580</b>	<120	<110	<110	<87	<160	<130	<93	<91	<96	<150	<170	<81	<120	<b>5,700</b>	<51
1/21/2014 Duplicate	<b>500</b>	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	<b>5,800</b>	<49
07/09/14	<b>120</b>	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	<b>1,500</b>	<49
01/19/15	<b>320</b>	<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61	<b>4,100</b>	<13
07/09/15	<b>230</b>	<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61	<b>3,200</b>	<13
7/9/2015 Duplicate	<b>170</b>	<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61	<b>2,300</b>	<13
01/19/16	<b>140</b>	<51	<12	<51	<18	<150	<40	<12	<40	<28	<40	<61	<27	<61	<b>1,700</b>	<13
1/19/2016 Duplicate	<b>100</b>	<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61	<b>1,300</b>	<13
07/12/16	<b>14</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>210</b>	<3.0
01/16/17	<b>370</b>	<24	<100	<26	<40	<58	<80	<24	<30	<24	<34	<60	<28	<40	<b>5,500</b>	<48
07/18/17	<b>12</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>170</b>	<3.0

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
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Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W08

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																	<1	
06/04/87																	<b>14.8</b>	
09/03/87																	<1	
12/03/87																	<1	
03/03/88																	<1	
04/07/88																	<1	
08/10/88																	<b>220</b>	
11/15/88																	<b>153</b>	
01/26/89																	<b>3.63</b>	
04/27/89																	<b>1.18</b>	
07/27/89																	<1	
10/26/89																	<1	
01/25/90																	<b>11.5</b>	
05/03/90																	<b>4.04</b>	
09/20/90																	<b>3.3</b>	
12/11/90																	<1	
01/29/91																	<b>3.21</b>	
05/01/91																	<b>36.7</b>	
06/17/91																	<b>1.12</b>	
10/08/91																	<b>4.7</b>	
02/20/92		<1		<b>1.02</b>	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		<b>11</b>	<b>3.5</b>
06/14/92		<1.05		<b>6.69</b>	<0.526	3.77	<1.05		<0.526		<0.526		<1.05	<0.526	<1.05		<b>55.3</b>	<0.526
09/17/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		<b>23</b>	<0.5
12/19/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		<b>4.85</b>	<0.5
03/23/93		<20		<6	<2	<2	<6		<2		<2		<10	<10	<10		<10	<2
06/28/93	<b>19</b>		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<b>130</b>	
12/27/93	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<b>12</b>	
04/25/94	<1		<1	<1	<1	<10	<1	<1		<10	<1	<20	<1	<10	<1	<1	<1	<1
06/21/94	10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<b>480</b>	
10/04/94	<50		<100	<50	<50	<50	<100	<50		<50	<50	<100	<50	<50	<100	<50	<b>470</b>	
01/05/95	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<b>98</b>	<10
03/09/95	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<10	<10
07/06/95	<25		<10	<10	<10	<10	<50		<10	<10	<10	<20	<50	<20	<50	<25	<50	<10
09/13/95	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	<1	<10
12/18/95	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	<1	<10
03/20/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	<b>6.4</b>	<10
07/08/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	<b>1.4</b>	<10
09/25/96	<1.5		<1.5	<1.4	<1.6	<3.1	<1.4	<1.7	<2.3	<1.6	<3.1	<3.5	<1.5	<1.4	<1.5	<1.7	<1.4	<2.1
01/21/97	<1.4		<1.3	<1.2	<1.4	<2.7	<1.3	<1.5	<2.1	<1.4	<2.7	<3	<1.3	<1.2	<1.3	<1.5	<1.2	<1.8
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<b>5.6</b>		<0.209	<0.127
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<b>8.4</b>	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<b>4.3</b>		<0.209	<0.127
06/23/98	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3
01/26/99			<b>11</b>	<b>7.7</b>	<b>3.6</b>		<b>3</b>											
06/07/99	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W08

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/11/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	
07/17/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	3.5		<3	<3	
01/30/01	<3.0		<b>12</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/15/02	<b>5.4</b>		<b>11</b>	<b>6.5</b>	<b>25</b>	<b>15</b>	<b>11</b>	<b>14</b>	<b>53</b>	<b>49</b>	<b>62</b>	<b>38</b>	<b>10</b>	<3.0	<b>31</b>	<b>14</b>	<b>57</b>	
08/05/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/14/03	<3.0		<b>5</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>6.7</b>	<3.0	
07/22/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/20/04	<3.0		<3.0 J	<3.0	<3.0 J	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0 J	
07/12/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<b>6.4</b>	<3.0	
01/19/05	<3.0		<3.0	<3.0	<3.0	<3.0 M	<3.0 MY	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0 M		<3.0	<3.0 M	
07/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/17/06	<b>8.1</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>5.6</b>	<3.0	
07/18/06	<b>45</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>18</b>	<3.0	
01/23/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/09/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/28/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/22/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/20/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0 Q	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/18/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/25/11	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/18/11	<1.1		<1.1	<1.0	<1.0	<0.82	<1.5 Q	<1.2	<0.87	<0.86	<0.90	<1.4	<1.6 Q	<0.76	<1.1	<1.1 Q	<0.48	
01/17/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/06/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/04/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/01/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/22/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/07/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/15/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>1.8</b>	<3.0	
07/06/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/13/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/05/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/16/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/10/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	

Notes: Prepared By: T. Dushek, 11/2/17 Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
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- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W09

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
06/04/87																	<b>2.2</b>	
09/03/87																	<1	
12/03/87																	<1	
03/02/88																	<1	
04/07/88																	<1	
08/10/88																	<b>1.05</b>	
11/15/88																	<1	
01/26/89																	<1	
04/27/89																	<1	
07/27/89																	<1	
10/26/89																	<1	
01/25/90																	<b>6.51</b>	
05/03/90																	<1	
09/20/90																	<b>2.37</b>	
12/11/90																	<b>1.53</b>	
01/29/91																	<b>8.59</b>	
05/01/91																	<b>2.07</b>	
06/18/91																	<1	
10/08/91																	<b>5.23</b>	
06/18/92		<b>11</b>		<b>3.79</b>	<0.515	<b>1.29</b>	<1.03		<0.515		<0.515		<1.03	<0.515	<1.03		<b>21.9</b>	<b>2.28</b>
12/17/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<b>1.77</b>		<b>26.7</b>	<0.5
06/28/93	<1		<1	<1	<1	<10	<1	<1		<10	<1	<20	<1	<10	<1	<1	<1	<1
12/28/93	<100		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	360	<b>640</b>	
06/22/94	<100		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100	<b>120</b>	
07/05/95	<26		<10	<10	<10	<10	<51		<10	<10.2	<10	<20.4	<51	<20	<51	<26	<51	<10
07/09/96	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100	<b>57</b>	<100

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W09

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		<b>250</b>	<0.127
06/24/98	<3		<b>7.7</b>	<b>5.6</b>	<3	<3	<b>8.5</b>	<3	<3	<3	<3	<3	<b>7.3</b>	<b>3.4</b>	<b>5.2</b>		<b>4.4</b>	<3
06/07/99	<b>4.00</b>		<3.0	<3.0	<3.0	<3.0	<b>20.0</b>	<3.0	<3.0	<3.0	<b>3.90</b>	<3.0	<3.0	<3.0	<3.0		<b>7.00</b>	<3.0
07/18/00	<15		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<b>62</b>	<15	<b>59</b>		<b>33</b>	<15
01/30/01	<30		<30	<30	<30	<30	<b>67</b>	<30	<30	<30	<30	<30	<30	<30	<b>140</b>		<30	<30
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
08/06/02	<b>10</b>		<b>9.7</b>	<b>7.5</b>	<b>3.1</b>	<3.0	<3.0	<3.0	<3.0	<b>3.4</b>	<b>4.2</b>	<b>3.0</b>	<3.0	<3.0	<b>7.4</b>		<b>6.1</b>	<3.0
07/23/03	<b>150</b>		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60		<b>140</b>	<60
07/12/04	<30		<30	<30	<30	<30	<b>95</b>	<30	<30	<30	<30	<30	<b>49</b>	<30	<40		<b>63</b>	<30
07/18/05	58 V		<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V		<b>49 V</b>	<30 V
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	<b>10</b>	<b>3.4</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>18</b>		<b>14</b>	<3.0
07/10/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/11	<1.2		<1.2	<1.1	<1.1	<0.86	<1.6 Q	<1.3	<0.92	<0.91	<0.95	<1.5	<1.7 Q	<0.80	<1.2		<1.2 Q	<0.51
07/19/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>5.5</b>	<3.0
07/02/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0 Y		<3.0	<3.0
07/10/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>0.26</b>	<3.0
07/11/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Notes: Prepared By: T. Dushek, 11/2/17 Checked By: A. Voit, 12/15/17

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Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W10A

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																	10,800	
06/04/87																	3,200	
09/03/87																	7,510	
12/03/87																	4,830	
03/03/88																	13,500	
04/07/88																	12,100	
08/10/88																	11,900	
11/15/88																	8,600	
01/26/89																	11,500	
04/27/89																	8,580	
07/27/89																	15,200	
10/26/89																	10,100	
01/25/90																	12,700	
05/03/90																	8,450	
09/20/90																	8,520	
12/11/90																	9,320	
01/29/91																	12,300	
05/01/91																	29,800	
06/19/91																	9,550	
10/08/91																	16,500	
07/08/92		13.1		108	<0.526	1.67	47.4		<0.526		4.82		<1.05	<0.526	3.78		7,400	0.714
12/18/92		19.7		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	12.3		11,800	60.4
06/30/93	650		220	<100	<100	<100	450	<100		<100	<100	<200	<100	<100	<200	<100	11,000	
12/28/93	1,000		<200	<100	120	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100	14,000	
06/22/94	1,600		540	450	<100	<100	470	<100		<100	<100	<200	<100	<100	240	<100	17,000	
07/06/95	960		<250	<250	<250	<250	<1300		<250	<250	<250	<500	<1300	<500	<1300	<630	6,600	<250
07/09/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000	<10000	<5000	<5000	<10000	<5000	970	<5000
07/11/97	1,700		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		24,000	800
06/24/98	<150		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		600	<150
06/08/99	<750		<750	<750	<750	<750	<750	<750	<750	<750	<750	<750	<750	<750	<750		3,450	<750
07/17/00	<300		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	340		9,900	770
01/30/01	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		16,000	<1500
07/10/01	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		4,500	<1500
08/06/02	<600		<600	<600	<600	<600	<600	<600	1,100	<600	<600	<600	<600	<600	<600		5,500	<600
07/23/03	750		<300	<300	<300	<300	<300	<300	1,300	<300	<300	<300	<300	<300	<300		7,300	<300
07/14/04	<300J		<300J	550	<300	<300	570	<300	600	<300	<300	<300	<300	<300	<400		5,100	390
07/20/05	410 V		<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		5200 V	<300 V
07/19/06	370		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		5,800	<300
07/10/07	670		<150	<180	<120	<91	<180	<230	<130	<55	<110	<99	<130	<57	<110		6,700	<46
07/23/08	700		<180	<190	<140	<270	<360	<210	<150	<200	<130	<150	<210	<250	<140		8,800	<70
7/23/2008 Duplicate	740		<180	<200	<140	<280	<370	<210	<160	<200	<140	<150	<210	<250	<140		9,300	<71
07/06/09	370		<160	<170	<120	<240	<320	<190	<140	<180	<120	<140	<190	<220	<130		5,500	<63
7/6/2009 Duplicate	410		<160	<180	<120	<240	<330	<190	<140	<180	<120	<140	<190	<220	<130		6,000	<63



Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W10A

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
07/15/10	<b>450</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>6,200</b>	<3.0
04/06/11																	<b>6,300</b>	
4/6/2011 Duplicate																	<b>5,300</b>	
07/25/11	<b>280</b>		<1.1	<1.0	<1.0	<0.85	<1.5	<1.2	<0.90	<0.89	<0.93	<1.4	<1.6	<0.78	<1.1		<b>4,200</b>	<0.49
7/25/2011 Duplicate	<b>160</b>		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		<b>2,300</b>	<0.49
10/03/11																	<b>3,900</b>	
10/3/2011 Duplicate																	<b>3,100</b>	
01/23/12	<b>280 M</b>		<11	<10	<10	<8.5	<15 M	<12	<9.0	<8.9	<9.3	<14	<16 M	<7.8 Y	<11 M		<b>4,500 M</b>	<4.9
04/03/12																	<b>4,200</b>	
4/3/2012 Duplicate																	<b>3,900</b>	
07/09/12	<b>260 V</b>		<11 V	<10 V	<10 V	<8.4 V	<15 V	<12 V	<8.9 V	<8.8 V	<9.2 V	<14 V	<16 V	<7.8 V	<11 V		<b>3,400 V</b>	<4.9 V
7/9/2012 Duplicate	<b>280 V</b>		<11 V	<10 V	<10 V	<8.3 V	<15 V	<12 V	<8.8 V	<8.7 V	<9.1 V	<14 V	<16 V	<7.7 V	<11 V		<b>3,300 V</b>	<4.8 V
07/05/13	<b>210</b>		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		<b>3,400</b>	<49
7/5/2013 Duplicate	<b>200</b>		<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110		<b>3,700</b>	<49
07/10/14	<b>170</b>		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		<b>3,700</b>	<49
07/09/15	<b>120</b>		<52	<12	<52	<19	<150	<41	<12	<41	<29	<41	<62	<28	<62		<b>2,500</b>	<13
7/9/2015 Duplicate	<b>100</b>		<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61		<b>2,300</b>	<13
07/12/16	<b>58</b>		<6.3	<26	<6.8	<11	<15	<21	<6.3	<7.9	<6.3	<8.9	<16	<7.4	<11		<b>1,400</b>	<13
7/12/2016 Duplicate	<b>61</b>		<6.1	<25	<6.6	<10	<15	<20	<6.1	<7.6	<6.1	<8.6	<15	<7.1	<10		<b>1,500</b>	<12
07/18/17	<b>57</b>		<12	<52	<13	<21	<30	<41	<12	<15	<12	<18	<31	<14	<21		<b>1,200</b>	<25
7/18/2017 Duplicate	<b>52</b>		<12	<52	<13	<21	<30	<41	<12	<15	<12	<18	<31	<14	<b>38</b>		<b>1,100</b>	<25

Notes: Prepared By: T. Dushek, 11/2/17 Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W10B

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4-Chloro-3-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Nitrophenol	Di-noseb	Pentachlorophenol	Phenol
07/08/92		<1.07		<1.07	1.31	<0.535	<1.07		<0.535		<0.535		<0.535	<1.07	<1.07		<b>39.2</b>	<0.535
12/18/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<0.5	<1	<1		<b>30.3</b>	<0.5
06/29/93	<b>1.8</b>		<1	<1	<1	<10	<1	<1		<10	<1	<20	<10	<1	<1	<1	<b>8.4</b>	
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<b>23</b>	
06/22/94	<b>66</b>		<b>27</b>	<b>16</b>	<10	<10	<20	<10		<10	<10	<20	<b>17</b>	<10	<20	<10	<b>33</b>	
07/06/95	<25		<10	<10	<10	<10	<50		<10	<10	<10	<20	<20	<50	<50	<25	<50	<10
07/09/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	<b>7.7</b>	<10
07/11/97	<b>8.5</b>		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.105	<0.362	<0.351		<b>76</b>	<0.127
06/24/98	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<b>11</b>	<3
06/08/99	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>3.4</b>	<3.0
07/17/00	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		<30	<30
01/30/01	<3.0		<b>15</b>	<3.0	<3.0	<3.0	<b>4.3</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>9.8</b>	<3.0
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>3.3</b>	<3.0
08/06/02	<b>4.9</b>		<3.0	<b>3.0</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>7.9</b>	<3.0
07/23/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/04	<3.0		<3.0	<3.0	<b>4.6</b>	<3.0	<4.0	<3.0J	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<b>25</b>	<3.0J
07/20/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>8.8</b>	<3.0
7/20/2005 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>10</b>	<3.0
07/19/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>7.4</b>	<3.0
07/10/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>5.6</b>	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>40</b>	<3.0
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>12</b>	<3.0
07/15/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>49</b>	<3.0
07/20/11	<b>9.4</b>		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		<b>120</b>	<0.49
01/23/12	<5.9		<5.9	<5.3	<5.3	<4.4	<8	<6.4	<4.6	<4.6	<4.8	<7.4	<8.5	<4.0	<5.9		<b>86</b>	<3.0
04/09/12																	<b>42</b>	
07/06/12	<b>5.5</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>87</b>	<3.0
07/05/13	<5.6		<5.6	<5.1	<5.1	<4.1	<7.6	<6.1	<4.4	<4.3	<4.5	<7.1	<8.1	<3.8	<5.6		<b>72</b>	<3.0
07/08/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>16</b>	<3.0
07/07/15	<b>1.1</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>22</b>	<3.0
07/07/16	<b>0.61</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>14</b>	<3.0
07/17/17	<b>0.54</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>7.5 B</b>	<3.0

Notes:

Prepared By: T. Dushak, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) B = Analyte detected in the associated Method Blank
- 4.) J = Estimated Value
- 5.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 6.) Q = Laboratory Control Sample outside acceptance limits.
- 7.) Y = Replicate/Duplicate precision outside acceptance limits.
- 8.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W11

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol	Dinoseb
01/08/87																2050		
06/04/87																2410		
09/03/87																49.3		
12/03/87																163		
03/03/88																824		
04/07/88																<1		
08/10/88																1000		
11/15/88																329		
01/26/89																321		
04/27/89																384		
07/27/89																142		
10/26/89																1.66		
01/25/90																300		
05/03/90																736		
09/21/90																2940		
12/12/90																2690		
01/30/91																3080		
05/01/91																2410		
06/19/91																1420		
10/08/91																891		
06/18/92		<1.02		<1.02	<0.51	<0.51	<1.02		<0.51		<0.51		<1.02	<0.51	<1.02	44.4	7.16	
12/17/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1	209	<0.5	
06/30/93	<1		<1	<1	<1	<10	<1	<1		<10	<1	<20	<1	<10	<1	82		<1
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	70		<10
06/21/94	17		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	140		<10
07/05/95	<25		<10	<10	<10	<10	<50	<10		<10	<10	<20	<50	<20	<50	<50	<10	<25
07/09/96	<10		<10	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	25	<10	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351	8.3	<0.127	
06/24/98	<15		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	88	<15	
06/08/99	<75		<75	<75	<75	<75	180	<75	<75	<75	<75	<75	<75	<75	<75	180	<75	
07/18/00	3.6		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	3.2	170	<3	
01/30/01	<60		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	600	<60	
07/11/01	3.7		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	84	<3.0	

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W11

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Penachlorophenol	Phenol	Dinoseb
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
07/22/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>43</b>	<3.0	
07/13/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0	<b>64</b>	<3.0J	
07/19/05	4.8		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>180</b>	<3.0	
07/19/06	<15		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<b>270</b>	<15	
07/10/07	<b>57</b>		<8.5	<10	<6.7	<5.1	<10	<13	<7.1	<3.1	<6.2	<5.5	<7.5	<3.2	<6.1	<b>540</b>	<3	
07/23/08	<b>13</b>		<3.4	<3.7	<3.0	<5.2	<6.9	<4.0	<3.0	<3.7	<3.0	<3.0	<4.0	<4.7	<3.0	<b>140</b>	<3.0	
07/07/09	<b>47</b>		<16	<17	<12	<24	<32	<19	<14	<18	<12	<14	<19	<22	<13	<b>660</b>	<6.3	
07/14/10	<b>46</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>440</b>	<3.0	
07/19/11	<b>12</b>		<1.1	<1.0	<1.0	<0.82	<1.5	<1.2	<0.87	<0.86	<0.90	<1.4	<1.6	<0.76	<1.1	<b>97</b>	<0.48	
07/09/12	<b>34</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>360</b>	<3.0	
07/01/13	<b>78</b>		<5.6	<5.1	<5.1	<4.2	<7.7	<6.1	<4.4	<4.4	<4.6	<7.1	<8.2	<3.9	<5.6	<b>960</b>	<3.0	
7/1/2013 Duplicate	<b>67</b>		<5.6	<5.1	<5.1	<4.2	<7.7	<6.1	<4.4	<4.4	<4.6	<7.1	<8.2	<3.9	<5.6	<b>950</b>	<3.0	
07/08/14	<b>37</b>		<5.5	<5.0	<5.0	<4.1	<7.5	<6.0	<4.4	<4.3	<4.5	<7.0	<8.0	<3.8	<5.5	<b>660</b>	<b>3.2</b>	
07/06/15	<b>18</b>		<5.2	<3.0	<5.2	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.2	<3.0	<6.2	<b>400</b>	<3.0	
07/05/16	<b>6.5</b>		<3.0	<5.2	<3.0	<3.0	<3.0	<4.2	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	<b>180</b>	<3.0	
07/17/17	<b>2.3</b>		<3.0	<5.1	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>52</b>	<3.0	

Notes:

Prepared By: T. Dushak, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W12

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	
06/18/92		<1.03		<1.03	<0.515	<0.515	<1.03		<0.515		<0.515		<1.03	<0.515			<b>2.83</b>	<b>11.4</b>	
12/17/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5			<b>3.67</b>	<0.5	
06/29/93	<1		<1	<1	<1	<10	<1	<1		<10	<1	<20	<1	<10	<1	<1	<1	<1	
12/28/93	<1.1		<1.1	<1.1	<1.1	<11	<1.1	<1.1		<11	<1.1	<22	<1.1	<11	<1.1	<1.1	<1.1	<1.1	
06/21/94	<10		<20	<10	<10	<10	<20	<10		<10	14	<20	<10	<10	<20	<10	<b>73</b>		
07/06/95	<b>47</b>		<10	<10	<10	<10	<50		<10	<10	<10	<20	<50	<20	<50	<25	<b>210</b>	<10	
07/08/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	<b>1.5</b>	<10	
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		<b>3.5</b>	<0.127	
06/23/98	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		<b>220</b>	<30	
06/08/99	<150		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		<b>290</b>	<150	
07/17/00	<b>21.5</b>		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<b>3.15</b>	<b>510</b>	<3
01/30/01	<60		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60		<b>950</b>	<60	
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
08/05/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/22/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/13/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<3.0	<3.0	
07/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/19/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/09/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/14/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/18/11	<1.2		<1.2	<1.1	<1.1	<0.88	<1.6 Q	<1.3	<0.94	<0.92	<0.97	<1.5	<1.7 Q	<0.82	<1.2		<1.2 Q	<0.52	
01/23/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>2.9</b>	<3.0	
04/09/12																	<b>450</b>		
4/9/2012 Duplicate																	<b>470</b>		
07/09/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>420</b>	<3.0	
07/01/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/07/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/06/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/05/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/11/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	

- Notes: Prepared By: T. Dushek, 11/2/17 Checked By: A. Voit, 12/15/17
- 1.) All units are in ug/L.
  - 2.) Bold Values indicate detections
  - 3.) J = Estimated Value
  - 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
  - 5.) Q = Laboratory Control Sample outside acceptance limits.
  - 6.) Y = Replicate/Duplicate precision outside acceptance limits.
  - 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W13

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	
06/22/92		<1.02		<1.02	<0.51	<0.51	<1.02		<0.51		<0.51		<1.02	<0.51	<1.02		<b>636</b>	<b>4.42</b>	
12/19/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		<b>4,550</b>	<0.5	
06/30/93	<100		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100		<b>540</b>	
12/27/93	<b>120</b>		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100		<b>1,800</b>	
04/25/94	<b>190</b>		<b>25</b>	<10	<10	<10	<b>21</b>	<10		<10	<10	<20	<b>11</b>	<10	<20	<10		<b>520</b>	
06/22/94	<b>120</b>		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100		<b>1,500</b>	
10/04/94	<b>12</b>		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10		<b>220</b>	
03/10/95	<100		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100		<b>530</b>	
07/06/95	<b>33</b>		<10	<10	<10	<10	<50	<10	<10	<10	<10	<20	<50	<20	<50	<25		<b>390</b>	<10
09/13/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100		<b>110</b>	<100
03/20/96	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100		<b>740</b>	<100
07/10/96	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100		<b>28</b>	<100
09/25/96	<b>99</b>		<0.73	<b>1.4</b>	<0.8	<1.5	<0.72	<0.87	<1.2	<0.79	<1.5	<1.7	<0.75	<0.69	<0.74	<0.85		<b>754</b>	<1
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351			<b>260</b>	<0.127
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351			<b>140</b>	<0.127
06/24/98	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30			<b>150</b>	<30
01/26/99																		<b>120</b>	
06/09/99	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30			<b>56</b>	<30
01/11/00	<b>20</b>		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15			<b>290</b>	<15
07/18/00	<b>16</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>300</b>	<3.0
01/31/01	<60		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60			<b>400</b>	<60
07/10/01	<b>12</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>150</b>	<3.0
01/15/02	<b>24</b>		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15			<b>180</b>	<15
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
01/14/03	<3.0		<3.0	<3.0	<3.0	<3.0	<b>3.3</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>3.1</b>	<3.0
07/23/03	<b>5.6</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>79</b>	<3.0
01/21/04	<15J		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15J				<b>190</b>	<15
07/14/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0			<b>45</b>	<3.0
01/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
07/21/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
01/17/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>3.7</b>	<3.0
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>&lt;3.0</b>	<3.0
01/23/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
1/23/2007 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
07/10/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W13

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3,6,4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/28/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/24/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/20/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0Q	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/18/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/25/11	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
04/05/11																<3.0		
07/19/11	<1.1		<1.1	<1.0	<1.0	<0.82	<1.5	<1.2	<0.87	<0.86	<0.90	<1.4	<1.6	<0.76	<1.1		<1.1	<0.48
10/03/11																	<b>3.2</b>	
01/17/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
04/03/12																<3.0		
07/06/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/08/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/10/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>1.4</b>	<3.0	
01/22/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/16/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>1.6</b>	<3.0	
01/19/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>2.5</b>	<3.0	
07/08/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/14/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/11/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
01/23/17	<b>0.66</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>3.7</b>	<3.0	
07/20/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>0.75 B</b>	<3.0	

Notes: Prepared By: T. Dushek, 11/2/17 Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) B = Analyte detected in the associated Method Blank
- 4.) J = Estimated Value
- 5.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 6.) Q = Laboratory Control Sample outside acceptance limits.
- 7.) Y = Replicate/Duplicate precision outside acceptance limits.
- 8.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W14

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																	<1	
06/04/87																	<1	
09/03/87																	<1	
12/03/87																	<b>4.74</b>	
03/03/88																	<1	
04/07/88																	<1	
08/10/88																	<1	
11/15/88																	<1	
01/26/89																	<b>1.93</b>	
04/27/89																	<1	
07/27/89																	<1	
10/26/89																	<1	
01/25/90																	<1	
05/03/90																	<1	
09/21/90																	<b>1.64</b>	
12/12/90																	<1	
01/30/91																	<b>1.65</b>	
05/01/91																	<b>2.79</b>	
06/18/91																	<1	
10/08/91																	<b>6.49</b>	
06/24/92		<1.02		<1.02	<b>2.39</b>	<0.51	<1.02		<0.51		<0.51		<b>1.23</b>	<b>0.582</b>	<1.02		<1.02	<0.51
12/18/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		<b>2.43</b>	<0.5
06/29/93	<1		<1	<1	<1	<10	<1	<1		<10	<1	<20	<1	<10	<1	<1	<1	
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<b>11</b>	
06/21/94	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<b>26</b>	
07/06/95	<25		<10	<10	<10	<10	<50		<10	<10	<10	<20	<50	<20	<50	<25	<50	<10
07/08/96	<10		<10	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<10	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<b>5</b>		<b>4.7</b>	<0.127
06/23/98	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>6.6</b>	<3.0
06/07/99	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/17/00	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>4</b>		<b>7.4</b>	<3.0
01/30/01	<3.0		<b>11</b>	<3.0	<3.0	<3.0	<b>4.0</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>6.7</b>		<3.0	<3.0
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0



Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W14

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
08/05/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/22/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/12/04	<3.0		<3.0	<3.0	<b>14</b>	<3.0	<4.0	<b>3.0J</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<3.0	<3.0
07/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/09/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/22/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/11	<1.2		<1.2	<1.1	<1.1	<0.86	<1.6 Q	<1.3	<0.92	<0.91	<0.95	<1.5	<1.7 Q	<0.80	<1.2		<1.2 Q	<0.51
07/09/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/01/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Notes:

Prepared By: T. Dushek, 8/5/13

Checked By: A. Voit, 9/21/13

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.
- 8.) WDNR letter dated March 18, 2014 concurred with a TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W16

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																	12.4	
06/04/87																	27.3	
09/03/87																	<1	
12/03/87																	<1	
03/03/88																	13.9	
04/07/88																	<1	
08/10/88																	13.7	
11/15/88																	19.8	
01/26/89																	2.34	
04/27/89																	265	
07/27/89																	2.04	
10/26/89																	1.49	
01/25/90																	31	
05/03/90																	1.66	
09/21/90																	3.44	
12/12/90																	1.93	
01/30/91																	4.53	
05/01/91																	<1	
06/19/91																	2.03	
10/08/91																	5.35	
06/16/92		<1.02		<1.02	<0.51	<0.51	<1.02		<0.51		<0.51		<1.02	<0.51	<1.02		<1.02	27.6
12/18/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		4.79	<0.5
06/29/93	<1		<1	<1	<1	<10	<1	<1		<10	<1	<20	<1	<10	<1	<1	<1	
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	11	
06/21/94	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	43	
07/06/95	<34		<14	<14	<14	<14	<69	<14	<13.7	<14	<14	<27.4	<69	<27	<69	<34	<69	<14
07/08/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	<1	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		2.9	<0.127
06/24/98	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
06/07/99	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/00	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3.2		9.6	<3.0
01/30/01	<3.0		10	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W16

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
08/05/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/22/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<b>3.3</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/12/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<3.0	<3.0
07/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/19/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/09/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/11	<b>190</b>		<1.2	<1.1	<1.1	<0.89	<1.6 Q	<1.3	<0.95	<0.93	<0.98	<1.5	<1.7 Q	<0.83	<1.2		<b>3,000</b>	<0.52
01/23/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
1/23/2012 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
04/09/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/01/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/08/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/05/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W17

Date	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol
07/24/03	<b>72</b>	<60	<60	<b>250</b>	<b>98</b>	<60	<60	<60	<b>340</b>	<b>340</b>	<60	<60	<60	<60	<b>1,400</b>	<b>91</b>
07/13/04	<60	<60J	<60J	<60	<60J	<b>110</b>	<b>130</b>	<60	<b>190</b>	<b>180</b>	<b>150</b>	<60	<60	<80	<b>1,000</b>	<b>390</b>
01/21/05	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<b>94 V</b>	<b>65 V</b>	<b>420 V</b>	<b>67 V</b>	<30 V	<30 V	<30 V	<b>240 V</b>	<b>110 V</b>
1/21/2005 Duplicate	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<b>95 V</b>	<b>67 V</b>	<b>420 V</b>	<b>68 V</b>	<30 V	<30 V	<30 V	<b>230 V</b>	<b>70 V</b>
07/20/05	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<b>98 V</b>	<60 V	<60 V	<60 V	<60 V	<b>810 V</b>	<60 V
07/18/06	<60	<b>91</b>	<60	<60	<60	<60	<60	<60	<60	<b>260</b>	<60	<60	<60	<60	<b>830</b>	<b>69</b>
01/23/07	<60	<60	<60	<60	<60	<60	<60	<60	<60	<b>110</b>	<60	<60	<60	<60	<b>940</b>	<60
1/23/2007 Duplicate	<60	<60	<60	<60	<60	<60	<60	<60	<60	<b>160</b>	<60	<60	<60	<60	<b>920</b>	<60
07/10/07	<b>24</b>	<15	<18	<12	<8.9	<18	<23	<12	<5.4	<11	<9.7	<13	<5.6	<11	<b>560</b>	<4.5
01/28/08	<21	<17	<20	<13	<10	<20	<26	<14	<6	<12	<11	<15	<6.3	<12	<b>620</b>	<5.1
07/23/08	<b>20</b>	<16	<18	<13	<25	<33	<19	<14	<18	<12	<14	<19	<23	<13	<b>460</b>	<6.4
07/06/09	<b>19</b>	<16	<18	<12	<24	<33	<19	<14	<18	<12	<14	<19	<22	<13	<b>570</b>	<6.3
7/6/2009 Duplicate	<b>17</b>	<16	<18	<12	<24	<33	<19	<14	<18	<12	<14	<19	<22	<13	<b>530</b>	<6.3
01/18/10	<b>25</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>440</b>	<3.0
07/15/10	<b>42</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>520</b>	<3.0
01/24/11	<b>21</b>	<11.0	<10.0	<10.0	<8.5	<15.0	<12.0	<9.0	<8.9	<9.3	<14.0	<16.0	<7.8	<11.0	<b>370</b>	<4.9
07/19/11	<b>17</b>	<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1	<b>180</b>	<0.49
01/23/12	<b>11</b>	<6	<5.5	<5.5	<4.5	<8.2	<6.6	<4.8	<4.7	<4.9	<7.7	<8.8	<4.2	<6	<b>330</b>	<3.0
07/06/12	<b>8.1</b>	<b>1.1</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>190</b>	<3.0
7/6/2012 Duplicate	<b>8.2</b>	<b>1.2</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>140</b>	<3.0
01/07/13	<11	<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11	<b>220</b>	<4.8
07/02/13	<b>16</b>	<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11	<b>370</b>	<4.9
01/22/14	<12	<12	<11	<11	<9	<16	<13	<9.6	<9.5	<9.9	<15	<18	<8.4	<12	<b>190</b>	<5.3
07/16/14	<b>11</b>	<11	<10	<10	<8.4	<15	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11	<b>230</b>	<4.9
01/15/15	<10	<5.2	<3.0	<5.2	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.2	<3.0	<6.2	<b>300</b>	<3.0
1/15/2015 Duplicate	<10	<5.1	<3.0	<5.1	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.1	<3.0	<6.1	<b>81</b>	<3.0
07/09/15	<b>11</b>	<5.2	<3.0	<5.2	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.2	<3.0	<6.2	<b>260</b>	<3.0
01/14/16	<10	<5.2	<3.0	<5.2	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.2	<3.0	<6.2	<b>110</b>	<3.0
1/14/2016 Duplicate	<10	<5.2	<3.0	<5.2	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.2	<3.0	<6.2	<b>120</b>	<3.0
07/07/16	<b>1.3</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>60</b>	<3.0
01/16/17	<b>3.6</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>170</b>	<3.0
07/11/17	<b>3.2</b>	<3.0	<5.1	<3.0	<3.0	<3.0	<4.1	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	<b>69</b>	<3.0

Notes: Prepared By: T. Dushek, 11/2/17 Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W18

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Diroseb	Pentachlorophenol	Phenol
02/25/92		<10		<b>146</b>	<5	<5	<10		<5		<b>17.3</b>		<10	<5	<10		<b>11,800</b>	<5
07/08/92		<b>17</b>		<1.02	<b>70.8</b>	<b>9.67</b>	<b>85.9</b>		<0.51		<b>3.6</b>		<1.02	<b>24.9</b>	<1.02		<b>9,380</b>	<b>27</b>
09/17/92		<b>47.8</b>		<1	<b>29.6</b>	<0.5	<1		<b>1.68</b>		<b>4.25</b>		<b>4.39</b>	<0.5	<b>102</b>		<b>11,600</b>	<0.5
12/17/92		<b>33.8</b>		<1	<b>15</b>	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		<b>19,500</b>	<b>60.7</b>
03/23/93		<20		<6	<2	<2	<6		<2		<2		<10	<10	<10		<b>7,470</b>	<2
06/29/93	<b>750</b>		<200	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100	<b>13,000</b>	
12/28/93	<b>840</b>		<b>52</b>	<b>170</b>	<10	<b>23</b>	<b>45</b>	<b>16</b>		<b>14</b>	<10	<20	<10	100	<20	<10	<b>5,600</b>	
06/22/94	<b>1,000</b>		<b>400</b>	<b>400</b>	<b>220</b>	<100	<b>350</b>	<100		<100	<100	<200	<100	<100	<200	<100	<b>11,000</b>	
07/05/95	<640		<260	<260	<260	<260	<1300	<260	<255	<260	<260	<510	<1300	<1300	<640		<b>5,100</b>	<260
07/09/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000	<10000	<5000	<10000	<5000		<b>1,100</b>	<5000
07/11/97	<0.182		<b>55</b>	<0.469	<0.344	<b>53</b>	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<b>67</b>	<0.351		<b>15,000</b>	<b>320</b>
06/24/98	<300		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		<b>2,500</b>	<300
06/08/99	<30.0		<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0		<b>250</b>	<30.0
07/18/00	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>3.3</b>		<b>80</b>	<3.0
01/31/01	<3.0		<b>9.5</b>	<3.0	<3.0	<3.0	<b>3.8</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>7.1</b>		<b>32</b>	<3.0
07/11/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>16</b>	<3.0
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>3.6</b>	<3.0
07/23/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>4.7</b>	<3.0
07/12/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<3.0	<3.0
07/18/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0 M	<3.0	<3.0	<3.0	<3.0	<3.0 M	<3.0	<3.0 M		<3.0 M	<3.0 M
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<b>5.8</b>
07/10/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/19/11	<b>19</b>		<1.2	<1.1	<1.1	<0.87	<1.6	<1.3	<0.93	<0.91	<0.96	<1.5	<1.7	<0.81	<1.2		<b>230</b>	<0.51
01/17/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>2.9</b>	<3.0
04/09/12																	<3.0	
07/19/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>2.6</b>	<3.0
07/02/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/07/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/11/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Notes: Prepared By: T. Dushak, 11/2/17 Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W19

Date	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol
07/18/00	<300	<300	<300	<b>570</b>	<300	<300	<b>630</b>	<b>870</b>	<b>910</b>	<b>1,100</b>	<b>2,400</b>	<300	<300	<b>1,000</b>	<300	<b>3,600</b>
07/11/01	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
01/15/02	<b>150</b>	<b>48</b>	<b>110</b>	<b>150</b>	<b>220</b>	<b>320</b>	<b>78</b>	<b>570</b>	<b>750</b>	<b>260</b>	<b>200</b>	<b>36</b>	<b>120</b>	<b>120</b>	<b>94</b>	<b>240</b>
08/06/02	<150	<150	<150	<b>190</b>	<b>250</b>	<150	<b>410</b>	<b>490</b>	<b>590</b>	<b>530</b>	<b>720</b>	<150	<150	<150	<150	<b>2,000</b>
01/14/03	<b>16</b>	<3.0	<b>4.9</b>	<b>45</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<b>29</b>	<3.0	<3.0	<3.0	<3.0	<b>44</b>	<3.0
07/22/03	<b>1,700</b>	<60	<60	<60	<60	<60	<60	<b>1,400</b>	<60	<b>170</b>	<60	<60	<60	<60	<b>710</b>	<b>960</b>
01/20/04	<60	<60	<60	<60J	<60	<60J	<60	<60	<b>95</b>	<60J	<60J	<60	<60	<60J	<b>50</b>	<b>200</b>
07/13/04	<60	<b>65J</b>	<60J	<b>72</b>	<60	<b>180</b>	<b>72</b>	<b>700</b>	<b>380</b>	<b>110</b>	<b>85J</b>	<60	<b>85</b>	<80	<b>210</b>	<b>640</b>
01/21/05	<b>41 V</b>	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<b>7900 V</b>	<b>4100 V</b>	<b>4600 V</b>	<b>4100 V</b>	<600 V	<600 V	<600 V	<b>72 V</b>	<b>5100 V</b>
07/20/05	<b>4.9</b>	<3.0	<3.0	<3.0	<3.0	<b>3.8</b>	<3.0	<b>20</b>	<b>13</b>	<b>4.1</b>	<b>18</b>	<b>4.4</b>	<3.0	<3.0	<b>21</b>	<3.0
01/17/06	<b>290 V</b>	<30.0	<b>96 V</b>	<1500	<1500	<b>400 V</b>	<b>280 V</b>	<b>7600 V</b>	<b>1900 V</b>	<b>23000 V</b>	<b>2200 V</b>	<b>200 V</b>	<b>280 V</b>	<b>78 V</b>	<b>260 V</b>	<b>7400 V</b>
07/20/06	<b>37.0</b>	<b>26</b>	<b>11</b>	<b>86</b>	<b>140</b>	<b>77.0</b>	<b>81</b>	<b>3,400</b>	<b>500</b>	<b>1,800.0</b>	<b>570</b>	<b>100.0</b>	<b>47</b>	<b>18</b>	<b>72</b>	<b>430</b>
01/23/07	<b>10.0</b>	<3.0	<b>3</b>	<3.0	<b>11</b>	<3.0	<3.0	<3.0	<3.0	<b>150.0</b>	<b>27</b>	<b>15.0</b>	<b>3.1</b>	<b>4.5</b>	<b>27</b>	<b>70</b>
07/11/07	<b>11.0</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
7/11/2007 Duplicate	<b>9.6</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
01/28/08	<b>6.2</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>49</b>
07/24/08	<b>9.9</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>60</b>
01/20/09	<b>3.3</b>	<3.0	<3.0	<3.0	<3.0	<3.5	<3.0Q	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
07/07/09	<b>9.0</b>	<3.0	<3.0	<3.0	<3.0	<3.3	<3.0	<3.0	<3.0	<3.0	<b>7.1</b>	<3.0	<3.0	<3.0	<3.0	<3.0
01/18/10	<b>4.5</b>	<3.0	<3.0	<3.0	<3.0	<3.3	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>28</b>
07/14/10	<b>11.0</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.2	<3.0	<3.0	<3.0	<b>59</b>
01/25/11	<b>75.0</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>430</b>
04/05/11																<b>710</b>
07/19/11	<b>27</b>	<1.1	<1.0	<1.0	<0.85	<1.6	<1.3	<0.91	<0.90	<0.94	<1.5	<1.7	<0.79	<1.1	<b>150</b>	<0.50
10/03/11																<b>210</b>
01/17/12	<b>81</b>	<b>2.6</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>570</b>
04/03/12																<b>270</b>
07/06/12	<b>85</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>640</b>
01/04/13	<b>24.0</b>	<11	<10	<10	<8.4	<15	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11	<b>260</b>	<4.9
07/01/13	<b>15.0</b>	<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11	<b>120</b>	<4.8
01/21/14	<b>50.0</b>	<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<b>35</b>	<7.8	<11	<b>310</b>	<4.9
07/08/14	<b>33.0</b>	<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11	<b>260</b>	<4.9
01/15/15	<b>40.0</b>	<5.1	<3.0	<5.1	<3.0	<15	<4.0	<3.0	<4.0	<3.0	<4.0	<6.1	<3.0	<6.1	<b>270</b>	<3.0
07/08/15	<10	<5.1	<3.0	<5.1	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.1	<3.0	<6.1	<b>250</b>	<3.0
01/14/16	<b>72.0</b>	<5.1	<3.0	<5.1	<3.0	<15	<4.1	<3.0	<4.1	<3.0	<4.1	<6.1	<3.0	<6.1	<b>610</b>	<3.0
07/07/16	<b>77.0</b>	<3.0	<5.1	<3.0	<3.0	<3.0	<4.1	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	<b>660</b>	<3.0
01/16/17	<b>25.0</b>	<3.0	<5.1	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>230</b>	<3.0
07/17/17	<b>16.0</b>	<3.0	<5.1	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>120</b>	<3.0

Notes: Prepared By: T. Dushek, 11/2/17 Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W21

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																	<b>1.96</b>	
06/04/87																	<1	
09/03/87																	<1	
12/03/87																	<1	
03/03/88																	<1	
04/07/88																	<1	
08/10/88																	<b>5.55</b>	
11/15/88																	<b>182</b>	
01/26/89																	<b>2.47</b>	
04/27/89																	<1	
07/27/89																	<1	
10/26/89																	<1	
01/25/90																	<b>3.86</b>	
05/03/90																	<b>1.09</b>	
09/21/90																	<b>8.96</b>	
12/12/90																	<b>2.36</b>	
01/30/91																	<b>1.84</b>	
05/01/91																	<1	
06/19/91																	<b>2.33</b>	
10/08/91																	<b>4.21</b>	
06/24/92		<1.02		<1.02	<0.51	<0.51	<1.02		<0.51		<0.51		<1.02	<0.51	<1.02		<1.02	<0.51
12/18/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		<b>26.5</b>	2.63
06/29/93	<1		<1	<1	<1	<10	<1	<1	<10	<1	<20	<20	<1	<10	<1	<1	<b>2.8</b>	
12/28/93	<10		<20	<10	<10	<10	<20	<10	<10	<10	<20	<20	<10	<10	<20	<10	<b>33</b>	
06/22/94	100		56	27	<10	<10	<20	<10	<10	<10	<20	<10	<10	<20	<10	<10	<b>44</b>	
07/06/95	<25		<10	<10	<10	<10	<50	<10	<10	<10	<20	<10	<50	<20	<50	<25	<50	<10
07/08/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<20	<10	<10	<20	<10	<10	<1	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		<b>3.1</b>	<0.127
06/23/98	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>5.1</b>	<3.0
06/07/99	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/17/00	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>3.4</b>		<b>10</b>	<3.0
01/30/01	<3.0		<b>7.9</b>	<3.0	<3.0	<3.0	<b>27</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>8.2</b>		<b>44</b>	<3.0
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W21

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
08/05/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/22/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/13/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<3.0	<3.0	
07/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/09/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/22/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/07/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/14/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/18/11	<1.1		<1.1	<1.0	<1.0	<0.85	<1.5 Q	<1.2	<0.90	<0.89	<0.93	<1.4	<1.6 Q	<0.78	<1.1	<b>1.3 Q</b>	<0.49	
07/09/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/01/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/08/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/07/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/05/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/10/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.



Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W22

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
02/25/92		<10		<10	<5	<5	<10		<5		<5		12	<5	<10		37,300	<5	
06/14/92		73.1		<11.1	77.9	<5.56	<11.1		<0.556		<5.56		1.7	<5.56	<1.11		33,500	<0.556	
09/17/92		<1		<1	1.62	<0.5	<1		<0.5		<0.5		<1	<0.5	1.14		117	<0.5	
12/18/92		69.9		1230	<0.5	<0.5	<1		<0.5		70.1		<1	<0.5	25.8		74,300	119	
03/24/93		<20		<6	<2	<2	<6000		<2		<2		<10	<10	<10		81,440	<2	
06/30/93	<1		<1	<1	<1	<1	<10	<1		<10	<1	<20	<1	<10	<1	<1	1		<20
12/28/93	<100		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100	1,500		460
04/25/94	430		<20	<10	140	110	45	66		17	110	<20	19	130	71	24	1,100		27
06/22/94	2,900		930	1,800	600	<100	200	310		<100	210	<200	150	300	300	<100	6,100		<200
10/04/94	190		<100	<50	<50	<50	<100	<50		<50	<50	<100	<50	<50	<100	<50	1,400		<100
03/09/95	<1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	7,300		<2000
07/06/95	<630		<250	<250	<250	<250	<1300	<250		<250	<250	<500	<1300	<500	<1300	<630	2,600		<250
09/13/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	2,000		<1000
12/18/95	<100		<100	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100	3,200		<100
03/21/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	610		<1000
07/10/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	730		<1000
09/25/96	1,280		<7.3	<7.1	<8	<15	<7.2	<8.7		<12	<7.9	<15	<17	<7.5	<6.9	<7.4	7,540		<10
01/21/97	1,180		<37	<36	<40	<78	<36	<44		<59	<40	<78	<87	<38	<35	<37	5,800		<53
07/11/97	3,100		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397		500	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351	17,000		<0.127
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397		<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351	12,000		<0.127
06/24/98	<1500		<1500	<1500	<1500	<1500	<1500	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	6,800		<1500
01/26/99							11,000	12,000		49,500	15,500	10,550	4,350				36,000	111,500	
08/07/02	1,400		920	910	3,600	3,300	<750	5,700	4,200	7,500	5,600	13,000	<750	<750	<750		3,900	19,000	
01/14/03	2,200		<750	<750	6,500	<750	3,300	<750	<750	<750	9,300	<750	<750	<750	<750		5,700	<750	
01/20/05	200 V		<60 V	<60 V	<60 V	<60 V	<60 V	<60 V		190 V	100 V	540 V	89 JV	<60 V	<60 V	<60 V	1100 V	110 V	
07/21/05	620 V		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V		3200 V	1700 V	9700 V	1300 V	<600 V	<600 V	<600 V	4500 V	<600 V	
07/20/06	1,100		<600	<600	<600	940	<600	<600		<600	3,900	17,000	3,700	710	<600	<600	5,600	<600	
01/23/07	970		<300	<300	<300	<300	<300	<300		<300	2,300	<300	<300	<300	<300		5,900	890	
07/11/07	450		<73	<87	<58	<44	<89	<110		<61	<27	<54	<48	<65	<28	<53	3,500	<22	
01/28/08	520		<82	<97	<65	<49	<99	<130		<68	<30	<60	<53	<73	<31	<59	5,000	<25	
07/24/08	470		<86	<93	<66	<130	<170	<100		<74	<95	<65	<73	<100	<120	<67	4,400	<34	
01/21/09	170		<82	<90	<64	<130	<170	<96Q		<71	<91	<63	<70	<97	<110	<65	2,300	<32	
07/07/09	580		<160	<170	<120	<240	<320	<190		<140	<180	<120	<140	<190	<220	<130	5,800	<63	
01/19/10	31		<8.2	<9	<6.4	<13	<17	<9.6		<7.1	<9.1	<6.3	<7	<9.7	<11	<6.5	480	<3.2	
07/15/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	<3.0	<3.0	<3.2	<3.0	<3.0	19	<3.0	
7/15/2010 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	52	<3.0	

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W22

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Pheno/2-Chlorophenol
01/25/11	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0 Q	<3.0	<3.0		12	<3.0	
04/05/11																	7.1		
07/19/11	1.3		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		24	<0.49	
10/03/11																	36		
01/18/12	130		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		1,100	<3.0	
04/03/12																	8,000		
07/10/12	310		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		2,600	<3.0	
01/07/13	730		<28	<26	<26	<21	<39	<31	<22	<22	<23	<36	<41	<20	<28		5200	<12	
1/7/2013 Duplicate	850		<28	<26	<26	<21	<38	<31	<22	<22	<23	<36	<41	<19	<28		6900	<12	
07/08/13	430		<29	<26	<26	<21	<39	<31	<23	<22	<23	<36	<42	<20	<29		3700	<13	
01/22/14	520		<120	<110	<110	<88	<160	<130	<94	<92	<97	<150	<170	<82	<120		5100	<52	
07/08/14	200		<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110		2900	<49	
01/15/15	190		<54	<13	<54	<20	<160	<43	<13	<43	<30	<43	<65	<29	<65		1800	<14	
07/09/15	260		<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61		2700	<13	
01/13/16	150		<52	<13	<52	<19	<160	<42	<13	<42	<29	<42	<63	<28	<63		1400	<14	
07/11/16	240		<12	<51	<13	<20	<30	<41	<12	<15	<12	<17	<31	<14	<20		3000	<24	
01/19/17	430		<24	<100	<26	<40	<59	<81	<24	<30	<24	<34	<61	<28	<40		6,100	<48	
1/19/2017 Duplicate	460		<24	<100	<26	<40	<59	<81	<24	<30	<24	<34	<61	<28	<40		6,100	<48	
07/18/17	390		<12	<51	<13	<20	<29	<40	<12	<15	<12	<17	<30	<14	<20		4,200	<24	

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W25

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
02/19/92		<1		<1	7.15	8	<1		5.85		<0.5		<1	<0.5	<1	0	3570	<0.5	0
07/29/92		10.3		1.3	9.9	1.87	3.09		<0.5		<0.5		<1	1.64	1.75	0	71.1	<0.5	0
09/17/92		<1		10.4	2.1	<0.5	1.57		0.547		<0.5		<1	<0.5	1.29		55.4	<0.5	
12/17/92		7.02		4.04	10.2	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		42.2	<0.5	
03/23/93		<20		<6	<2	<2	<6		<2		<2		<10	<10	<10		99.9	<2	
06/28/93	<10		<20	<10	<10	<10	<20	<10		12	53	<20	<10	<10	38	<10	<10		37
12/28/93	16		<1	<1	<1	<10	<1	<1		<10	<1	<20	<1	<10	<1	<1	4.3		<20
04/25/94	140		310	260	53	52	190	42		<10	19	23	17	100	28	<10	410		<20
06/21/94	280		140	110	110	32	60	32		23	77	<20	33	41	71	<10	2400		34
10/04/94	<250		<500	<250	<250	<250	<500	<250		<250	<250	<500	<250	<250	<250	<250	2300		<500
03/10/95	<1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	4500		<2000
03/23/95	12		95	220	120	65	51	<10		19	54	29	150	10	<20	<10	360		170
05/02/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	180	<100	<200	<100	1700	<100	
05/24/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	160	<100	<200	<100	1600	<100	
06/13/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	110	<100	<200	<100	1500	<100	
07/05/95	320		<10	<10	<10	<10	<50	<10	<10	<10	<10	<20	<50	<20	<50	<25	560	<10	
07/26/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	160	<100	<200	<100	180	<100	
09/07/95	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	2.8	<10	
09/13/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	810	<1000	
01/18/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	10		<20
03/21/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	<1	<10	
07/11/97	<0.182		<0.453	<0.469	150	<0.148	230	170	<0.194	140	160	<0.128	<0.362	<0.105	<0.351		590	120	
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		120	<0.127	
06/23/98	<150		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		880	<150	
01/26/99																	290		
06/09/99	<150		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		230	<150	
01/11/00	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		330	<30	
07/18/00	7.4		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		160	20	
01/30/01	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		150	<30	
07/10/01	12		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	24	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		100	<3.0	
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	4.2	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		16	<3.0	
01/14/03	<3.0		<3.0	<3.0	<3.0	<3.0	3.6	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		6.2	<3.0	
07/22/03	4.4		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		44	<3.0	
01/20/04	<15J		<15	<15	<15	<15	<15	<15	32	<15	<15	<15	<15	<15	<15J		210	<15	
01/19/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		14.0	<3.0	
07/20/05	6.3		<3.0	<3.0	3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		150	<3.0	
7/20/2005 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		59	<3.0	

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W25

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
01/17/06	<30 V		<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V			<b>310 V</b>	<30 V	
07/18/06	<15.0		<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0			<b>68</b>	<b>36</b>	
01/24/07	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30			<b>350</b>	<30	
07/11/07	<b>3.9</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>60</b>	<3.0	
01/29/08	<b>7.7</b>		<4.2	<4.9	<3.3	<3.0	<5.1	<6.4	<3.5	<3.0	<3.1	<3.0	<3.7	<3.0			<b>230 M</b>	<3.0	
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>9.6</b>	<3.0	
01/20/09	<b>8.9</b>		<4.2	<4.5	<3.2	<6.3	<8.4	<4.8Q	<3.6	<4.6	<3.2	<3.5	<4.9	<5.8	<3.3			<b>210</b>	<3.0
07/06/09	<b>11.0</b>		<4	<4.4	<3.1	<6.1	<8.2	<4.7	<3.5	<4.4	<3.1	<3.4	<4.7	<5.6	<3.2			<b>150</b>	<3.0
01/18/10	<b>5.9</b>		<4.1	<4.5	<3.2	<6.3	<8.3	<4.8	<3.5	<4.5	<3.1	<3.5	<4.8	<5.7	<3.2			<b>65</b>	<3.0
07/13/10	<b>6.1</b>		<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	<3.0	<3.0	<3.0	<3.3	<3.0	<3.0			<b>130</b>	<3.0
7/13/2010 Duplicate	<b>4.6</b>		<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	<3.0	<3.0	<3.0	<3.3	<3.0	<3.0			<b>93</b>	<3.0
01/24/11	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				<b>5.4</b>	<3.0
07/19/11	<1.1		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1			<b>3.7</b>	<0.49
7/19/2011 Duplicate	<1.1		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1			<b>5.6</b>	<0.49
01/23/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				<b>6.6</b>	<3.0
07/06/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				<b>5.4</b>	<3.0
01/04/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				<b>10</b>	<3.0
07/05/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				<b>4.2</b>	<3.0
01/21/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				<b>4.1</b>	<3.0
07/09/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				<b>4.7</b>	<3.0
01/19/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				<b>6.4</b>	<3.0
07/08/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				<b>5.0</b>	<3.0
01/14/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				<b>4.9</b>	<3.0
07/06/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				<b>3.0</b>	<3.0
01/16/17	<b>0.6</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				<b>6.2</b>	<3.0
07/11/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				<b>3.0</b>	<3.0

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W26

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
02/25/92		<10		<10	<5	<5	<10		<5		25.7		<10	<5			22,300	<5
06/14/92		69.9		<10.5	<5.26	<5.26	<1.05		<0.526		<5.26		<1.05	<5.26			26,100	<0.526
09/17/92		74		<1	177	<0.5	<1		5.74		110		<1	<0.5	139		31,700	<0.5
12/18/92		40.6		<1	<0.5	<0.5	<1		<0.5		71.2		<1	<0.5	<1		45,100	152
03/24/93		<10		<3	<1	<1	<3000		<1		<1		<5	<5			30,400	<1
06/30/93	1,600		<200	<100	130	<100	450	<100		<100	<100	<200	<100	<100	<200	<100	16,000	
12/27/93	1,600		380	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100	3,500	
04/25/94	4,800		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	32,000	
06/22/94	2,900		690	1,100	250	<100	480	270		<100	180	<200	<100	280	230	<100	6,400	
10/04/94	4,100		<500	<250	450	<250	<500	<250		<250	<250	<500	<250	<250	<500	<250	12,000	
03/09/95	<1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	2900	<1000	14,000	
07/06/95	7,600		<10	<10	<10	<10	<50		<10	<10	<10	<20	<50	<20	<50	<25	<5000	<10
09/13/95	<1000		<1000	1,100	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	2,900	<1000	<2000	<1000	4,000	<1000
03/21/96	<2000		<2000	<2000	<2000	<2000	<4000	<2000	<2000	<2000	<4000	<2000	<2000	<4000	<2000	<2000	8,200	<2000
07/09/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<10000	<5000	<5000	<10000	<5000	<5000	1,800	<5000
09/25/96	2,950		<7.3	87	<8	<15	<7.2	<8.7	<12	<7.9	<15	<17	<7.5	54	<7.4	<8.5	17,300	<10
07/11/97	5,100		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		47,000	1,100
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		14,000	<0.127
06/24/98	1,600		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		15,000	<1500
01/27/99																	18,000	
06/09/99	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		4,600	<1500
01/11/00	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		12,500	<1500
07/18/00	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	1,600		23,000	<1500
01/31/01	<15		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15		210	<15
07/11/01	1,100		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		6,500	<150
01/15/02	260		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		1,500	<150
08/06/02	890		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		6,800	<600
01/14/03	300		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60		2,700	<60
07/24/03	190		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	160	<60	<60		1,800	<60
01/21/04	<300J		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		3,600	<300J
07/13/04	<60J		<60	<60	<60	<60	<80	<60	<60	<60	<60	<60	<60	<60	<80		1,900	<60
01/20/05	<300 V		<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		2000 V	<300 V
07/20/05	<300 V		<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		1900 V	<300 V
01/17/06	360 V		<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		2800 V	<300 V
07/20/06	320		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		2,400	<300
01/23/07	120		<60	<60	<60	<60	<60	<60	<60	72	<60	<60	<60	<60	<60		960	<60
07/10/07	160		<30	<35	<24	<18	<36	<45	<25	<11	<22	<19	<26	<11	<21		1,200	<9.1
7/10/2007																		
Duplicate	160		<35	<41	<28	<21	<42	<54	<29	<13	<26	<23	<31	<13	<25		1,200	<11

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W26

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/28/08	<b>290</b>		<80	<94	<63	<48	<97	<120	<67	<29	<59	<52	<71	<30	<58		<b>3,700</b>	<24
01/28/08 Duplicate	<b>380</b>		<81	<96	<64	<48	<98	<120	<67	<29	<60	<53	<72	<30	<58		<b>4,600</b>	<25
07/24/08	<b>680</b>		<170	<180	<130	<250	<340	<190	<140	<180	<130	<140	<200	<230	<130		<b>6,500</b>	<65
01/20/09	<b>42</b>		<17	<18	<13	<25	<34	<19Q	<14	<18	<13	<14	<20	<23	<13		<b>840</b>	<6.5
07/07/09	<b>8.5</b>		<8.1	<8.8	<6.2	<12	<16	<9.4	<6.9	<8.9	<6.1	<6.8	<9.5	<11	<6.3		<b>190</b>	<3.2
7/7/2009 Duplicate	<b>8.6</b>		<8.0	<8.7	<6.2	<12	<16	<9.3	<6.9	<8.8	<6.1	<6.8	<9.4	<11	<6.3		<b>190</b>	<3.1
01/18/10	<b>99</b>		<8.4	<9.1	<6.5	<13	<17	<9.8	<7.2	<9.3	<6.4	<7.1	<9.9	<12	<6.6		<b>1,600</b>	<3.3
07/15/10	<b>380</b>		<11	<10	<10	<8.4	<15	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11		<b>2,900</b>	<4.9
01/25/11	<b>60</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>640</b>	<3.0
04/06/11																	<b>680</b>	
07/20/11	<110		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		<b>1100</b>	<0.49
7/20/2011 Duplicate	<110		<1.1	<1.0	<1.0	<0.85	<1.6	<1.3	<0.91	<0.90	<0.94	<1.5	<1.7	<0.79	<1.1		<b>1100</b>	<0.50
10/03/11																	<b>750</b>	
01/23/12	<b>27</b>		<23	<21	<21	<17	<31	<25	<18	<18	<19	<29	<33	<16	<23		<b>460</b>	<9.9
04/03/12																	<b>580</b>	
07/10/12	<b>40 V</b>		<11 V	<10 V	<10 V	<8.3 V	<15 V	<12 V	<8.8 V	<8.7 V	<9.1 V	<14 V	<16 V	<7.7 V	<11 V		<b>540 V</b>	<4.8 V
01/04/13	<b>42</b>		<12	<11	<11	<8.6	<16	<13	<9.2	<9.1	<9.5	<15	<17	<8	<12		<b>560</b>	<5.1
07/02/13	<22		<22	<20	<20	<17	<30	<24	<18	<17	<18	<28	<32	<15	<22		<b>120</b>	<9.7
01/22/14	<11		<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11		<b>59</b>	<4.9
07/07/14	<b>2.9</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>33</b>	<3.0
01/15/15	<b>11</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>92</b>	<3.0
07/09/15	<b>170</b>		<3.0	<3.0	<3.0	<3.0	<7.7	<3.0	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.1		<b>2,000</b>	<3.0
01/13/16	<b>27</b>		<3.0	<3.0	<3.0	<3.0	<7.7	<3.0	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.1		<b>260</b>	<3.0
07/07/16	<b>46</b>		<3.0	<5.1	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>570</b>	<3.0
01/16/17	<b>69</b>		<3.0	<10	<3.0	<4.0	<5.8	<8.0	<3.0	<3.0	<3.0	<3.4	<6.0	<3.0	<4.0		<b>830</b>	<4.8
07/17/17	<b>2.0</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>19</b>	<3.0

Notes: Prepared By: T. Dushek, 11/2/17 Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
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- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
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Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W27

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dimoseb	Pentachlorophenol	Phenol
06/24/92		<b>23.5</b>		<10.5	<5.26	<5.26	<10.5		<5.26		<b>32.3</b>		<10.5	<b>15.7</b>	<10.5		<b>16,600</b>	<b>74.4</b>
12/17/92		<1		<1	<b>19</b>	<b>7.9</b>	<1		<0.5		<0.5		<1	<b>81.2</b>	<1		<b>21,300</b>	<b>105</b>
06/30/93	<b>710</b>		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<100		<b>10,000</b>	
12/28/93	<b>3,000</b>		<b>400</b>	<100	<b>320</b>	<100	<200	<100		<b>110</b>	<100	<200	<b>370</b>	<100	<200	<100	<b>30,000</b>	
06/22/94	<b>3,000</b>		<b>210</b>	<b>980</b>	<b>150</b>	<100	<b>250</b>	<100		<100	<100	<200	<100	<b>270</b>	<b>340</b>	<100	<b>33,000</b>	
07/06/95	<1300		<500	<500	<500	<500	<2500		<500	<500	<500	<1000	<2500	<1000	<2500	<1300	<b>7,700</b>	<500
07/09/96	<10000		<10000	<10000	<10000	<10000	<20000	<10000	<10000	<10000	<10000	<20000	<10000	<10000	<20000	<10000	<b>3,900</b>	<10000
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		<b>25,000</b>	<b>530</b>
06/24/98	<3000		<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000		<b>16,000</b>	<3000
06/08/99	<3000		<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000		<b>14,000</b>	<3000
07/18/00	<b>1,125</b>		<b>800</b>	<150	<150	<150	<b>600</b>	<150	<150	<150	<150	<150	<150	<150	<b>400</b>		<b>13,000</b>	<b>755</b>
01/31/01	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		<b>16,000</b>	<1500
07/11/01	<b>530</b>		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<b>90</b>	<60	<60		<b>5,200</b>	<60
08/06/02	<b>760</b>		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		<b>7,000</b>	<600
07/22/03	<b>320</b>		<150	<b>340</b>	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		<b>4,900</b>	<150
07/13/04	<b>30J</b>		<b>61</b>	<b>190</b>	<30	<30	<b>99</b>	<30J	<30	<b>30J</b>	<30	<30J	<30J	<30J	<b>64</b>		<b>7,400</b>	<b>110</b>
07/19/05	<600 V		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V		<b>4500 V</b>	<600 V
07/19/06	<300		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		<b>3,500</b>	<300
07/10/07	<b>520</b>		<79	<93	<63	<47	<96	<120	<66	<29	<58	<52	<70	<30	<57		<b>5,500</b>	<24
07/23/08	<b>650</b>		<170	<180	<130	<260	<340	<200	<150	<190	<130	<140	<200	<240	<130		<b>7,800</b>	<67
07/07/09	<b>510</b>		<160	<180	<120	<240	<330	<190	<140	<180	<120	<140	<190	<220	<130		<b>6,200</b>	<63
07/14/10	<b>640</b>		<12	<11	<11	<8.9	<16 M	<13	<9.5	<9.3	<9.8 M	<15	<17	<8.3	<12 M		<b>9,600</b>	<5.2
7/14/2010 Duplicate	<b>700</b>		<12	<11	<11	<8.7	<16	<13	<9.3	<9.1	<9.6	<15	<17	<8.1	<12		<b>10,000</b>	<5.1
07/25/11	<b>290</b>		<1.1	<1.0	<1.0	<0.85	<1.5	<1.2	<0.90	<0.89	<0.93	<1.4	<1.6	<0.78	<1.1		<b>3,500</b>	<0.49
07/10/12	<b>580</b>		<5.6	<5.1	<5.1	<4.2	<7.7	<6.1	<4.4	<4.4	<4.6	<7.1	<8.2	<3.9	<5.6		<b>9,200</b>	<b>5.1</b>
07/05/13	<b>460</b>		<57	<52	<52	<43	<78	<63	<45	<45	<47	<73	<83	<40	<57		<b>6,400</b>	<25
07/09/14	<b>270</b>		<110	<100	<100	<85	<160	<130	<91	<90	<94	<150	<170	<79	<110		<b>4,600</b>	<50
07/09/15	<b>330</b>		<26	<6.2	<26	<9.3	<77	<21	<6.2	<21	<14	<21	<31	<14	<31		<b>4,300</b>	<6.7
07/11/16	<b>350</b>		<12	<51	<13	<20	<30	<41	<12	<15	<12	<17	<31	<14	<20		<b>5,200</b>	<24
07/18/17	<b>250</b>		<12	<52	<13	<21	<30	<41	<12	<15	<12	<18	<31	<14	<21		<b>3,700</b>	<25
7/18/2017 Duplicate	<b>290</b>		<12	<51	<13	<20	<30	<41	<12	<15	<12	<17	<31	<14	<20		<b>3,800</b>	<24

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

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Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W28

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																	350	
06/04/87																	887	
09/03/87																	488	
12/03/87																	2710	
03/03/88																	10000	
04/07/88																	6480	
08/10/88																	1100	
11/15/88																	466	
01/26/89																	1750	
04/27/89																	3670	
07/27/89																	57.4	
10/26/89																	226	
01/25/90																	301	
05/03/90																	4460	
09/20/90																	2260	
12/11/90																	2120	
01/29/91																	3150	
05/01/91																	4600	
06/18/91																	4600	
10/08/91																	4270	
07/08/92		<1.49		<1.49	<0.746	<0.746	<1.49		<0.746		<0.746		<1.49	<0.746	<1.49		793	<0.746
12/17/92		4.29		2.62	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		6640	3.15
06/29/93	120		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	2300	
12/28/93	46		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	800	
06/22/94	53		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	660	
07/05/95	87		<10	<10	<10	<10	<50		<10	<10	<10	<20	<50	<20	<25		380	<10
07/09/96	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100	83	<100
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		150	<0.127
06/24/98	<6		<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6		61	<6
06/08/99	<15		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15		34	<15
07/18/00	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		4.6	<3.0
01/30/01	<3.0		<60	<3.0	<3.0	<3.0	<60	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		360	<3.0
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		6.2	<3.0



Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W28

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dimoseb	Pentachlorophenol	Phenol
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
07/23/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
07/12/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0			<b>5.8</b>	<3.0
07/18/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>31</b>	<3.0
07/18/06	<b>39</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>27</b>	<3.0
07/10/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
07/07/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
07/13/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
04/05/11																	<b>31</b>	
07/18/11	<1.2		<1.2	<1.1	<1.1	<0.86	<1.6 Q	<1.3	<0.92	<0.91	<0.95	<1.5	<1.7 Q	<0.80	<1.2		<1.2 Q	<0.51
10/03/11																	<3.0	
01/17/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
04/03/12																	<b>28</b>	
07/19/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>1.9</b>	<3.0
07/02/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
07/10/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>1.1</b>	<3.0
07/07/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0
07/06/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<b>0.45</b>	<3.0
07/11/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			<3.0	<3.0

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

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- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
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Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W29

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																	10,300	
06/04/87																	33,900	
09/03/87																	12,700	
12/03/87																	18,600	
03/03/88																	16,400	
04/07/88																	560	
08/10/88																	1,600	
11/15/88																	12,800	
01/26/89																	19,000	
04/27/89																	16,500	
07/27/89																	12,700	
10/26/89																	8,520	
01/25/90																	4,960	
05/03/90																	37	
09/21/90																	1,420	
12/11/90																	921	
01/30/91																	373	
05/01/91																	419	
06/25/92		<1.02		<1.02	<0.51	<0.51	<1.02		<0.51		<0.51		<1.02	<0.51	<1.02		120	0.714
12/18/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		1,100	3.31
06/30/93	<1		<1	<1	<1	<10	<1	<1		<10	<1	<20	<1	<10	<1	<1	65	
12/28/93	81		66	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	440	
06/22/94	31		30	21	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	120	
07/05/95	140		<10	<10	<10	<10	<50	<10		<10	<10	<20	<50	<20	<50	<25	210	<10
07/09/96	<10		93	60	24	<10	73	<10	<10	<10	<10	<20	450	24	55	<10	2,300	38
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		1,500	<0.127
06/23/98	<600		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		5,500	<600
06/08/99	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/18/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	6.2		19	<3
01/30/01	<3.0		3.5	<3.0	<3.0	<3.0	5.5	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		3.7	<3.0
07/11/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		7.2	<3.0
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		16	<3.0
07/24/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		18	<3.0
07/13/04	<3.0		<3.0	<3.0	4.4	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		32	<3.0
07/20/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		12	<3.0
07/19/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		16	<3.0
07/10/07	68		5.1	<5.1	<3.4	<3.0	<5.2	<6.5	<3.6	<3.0	<3.2	<3.0	<3.8	<3.0	<3.1		260	<3.0

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W29

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
07/24/08 7/24/2008 Duplicate	<b>4.7</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>6.8</b>	<3.0
	<b>5.1</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>7.2</b>	<3.0
07/07/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>7.7</b>	<3.0
07/14/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>50</b>	<3.0
07/19/11	<b>180</b>		<1.1	<1.0	<1.0	<0.83	<1.5	<1.2	<0.88	<0.87	<0.91	<1.4	<1.6	<0.77	<1.1		<b>1,700</b>	<0.48
07/09/12	<b>200 V</b>		<11 V	<10 V	<10 V	<8.4 V	<15 V	<12 V	<8.9 V	<8.8 V	<9.2 V	<14 V	<16 V	<7.8 V	<11 V		<b>1,800 V</b>	<4.9 V
07/02/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>6.4</b>	<3.0
07/07/14	<b>80</b>		<57	<52	<52	<42	<77	<62	<45	<44	<46	<72	<82	<39	<57		<b>690</b>	<25
07/07/15	<b>300</b>		<52	<13	<52	<19	<160	<42	<13	<42	<29	<42	<63	<28	<63		<b>3,300</b>	<14
07/11/16 7/11/2016 Duplicate	<b>710</b>		<12	<51	<13	<20	<29	<40	<12	<15	<12	<17	<30	<14	<20		<b>6,600</b>	<24
	<b>660</b>		<12	<51	<13	<20	<29	<40	<12	<15	<12	<17	<30	<14	<20		<b>6,400</b>	<24
07/17/17	<b>490</b>		<12	<50	<13	<20	<29	<40	<12	<15	<12	<17	<30	<14	<20		<b>5,100</b>	<24

Notes: Prepared By: T. Dushek, 11/2/17 Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W32

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/08/87																	<1	
06/04/87																	<1	
09/03/87																	<1	
12/03/87																	<1	
03/03/88																	<1	
04/07/88																	<1	
08/10/88																	<b>1.45</b>	
11/15/88																	<1	
01/26/89																	<1	
04/27/89																	<1	
07/27/89																	<1	
10/26/89																	<1	
01/25/90																	<b>1.67</b>	
05/03/90																	<b>1.14</b>	
09/21/90																	<b>2.13</b>	
12/11/90																	<1	
01/30/91																	<b>8.36</b>	
05/01/91																	<1	
06/19/91																	<b>1.33</b>	
10/08/91																	<b>3.61</b>	
06/24/92		<1.02		<1.02	<0.51	<0.51	<b>2.05</b>		<0.51		<0.51		<1.02	<0.51	<1.02		<b>2.08</b>	<b>0.583</b>
12/19/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		<1	<0.5
06/29/93	<1		<1	<1	<1	<10	<1	<1		<10	<1	<20	<1	<10	<1	<1	<1	
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<b>10</b>	
06/22/94	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	<b>15</b>	
07/05/95	<25		<10	<10	<10	<10	<50		<10	<10	<10	<20	<50	<20	<50	<25	<50	<10
07/08/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	<b>5.1</b>	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	5.6	<0.128	<0.362	<0.105	<0.351		<b>7.2</b>	<0.127
06/23/98	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>7.9</b>	<3.0
06/07/99	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/17/00	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3	<3.0
01/30/01	<3.0		<b>13</b>	<3.0	<3.0	<3.0	<3.0	<b>15</b>	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/10/01	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W32

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
08/06/02	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/24/03	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/13/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		<3.0	<3.0	
07/20/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>3.3</b>	<3.0	
07/09/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/22/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/07/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/14/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/18/11	<1.1		<1.1	<1.0	<1.0	<0.84	<1.5 Q	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6 Q	<0.78	<1.1	<1.1 Q	<0.49	
07/09/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/01/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/07/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/06/15	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/05/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/10/17	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W33

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol
08/07/02	<b>2,000</b>		<750	<750	<750	<b>1,000</b>	<750	<b>880</b>	<b>6,500</b>	<b>6,100</b>	<b>2,300</b>	<b>3,000</b>	<750	<750	<750	<b>9,600</b>	<b>7,100</b>
07/24/03	<b>4,000</b>		<1500	<1500	<b>1600</b>	<1500	<1500	<1500	<1500	<b>3,300</b>	<b>1,600</b>	<b>2,900</b>	<1500	<1500	<1500	<b>13,000</b>	<1500
07/14/04	<1500		<1500	<1500	<b>3900</b>	<b>1500J</b>	<b>4,000</b>	<1500	<1500	<b>9,000</b>	<b>3,300</b>	<b>6,200</b>	<1500	<1500	<2000	<b>28,000</b>	<b>23,000</b>
07/21/05	<b>1400 V</b>		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<b>6200 V</b>	<b>2800 V</b>	<b>16000 V</b>	<b>2400 V</b>	<b>600 V</b>	<600 V	<600 V	<b>8600 V</b>	<600 V
01/23/07	<b>5,700</b>		<3000	<3000	<3000	<3000	<3000	<3000	<b>7,300</b>	<b>66,000</b>	<3000	<3000	<3000	<3000	<3000	<b>30,000</b>	<b>33,000</b>
07/11/07	<b>3,100</b>		<410	<490	<330	<250	<500	<630	<340	<150	<300	<270	<370	<160	<300	<b>18,000</b>	<130
07/24/08	<b>1,900</b>		<450	<490	<350	<680	<910	<520	<390	<490	<340	<380	<530	<630	<350	<b>16,000</b>	<180
07/07/09	<b>900</b>		<160	<170	<120	<240	<320	<190	<140	<180	<120	<140	<190	<220	<130	<b>7,200</b>	<63
01/19/10	<b>630</b>		<160	<180	<130	<250	<330	<190	<140	<180	<120	<140	<190	<230	<130	<b>2,500</b>	<64
07/15/10	<b>970</b>		<220	<200	<200	<160	<300	<240	<170	<170	<180	<280	<320	<150	<220	<b>7,200</b>	<96
01/26/11	<b>580</b>		<230	<210	<210	<170	<320	<250	<180	<180	<190	<290	<340 Q	<160	<230	<b>5,700</b>	<100
07/25/11	<b>150</b>		<1.1	<1.0	<1.0	<0.83	<1.5	<1.2	<0.88	<0.87	<0.91	<1.4	<1.6	<0.77	<1.1	<b>2,100</b>	<0.48
01/23/12	<b>990</b>		<57	<52	<52	<42	<77	<62	<45	<44	<46	<72	<82	<39	<57	<b>9,100</b>	<25
07/09/12	<b>530</b>		<12	<11	<11	<8.8	<16	<13	<9.4	<9.2	<9.7	<15	<17	<8.2	<12	<b>3,700</b>	<5.2
01/08/13	<b>1,000</b>		<220	<200	<200	<170	<310	<240	<180	<180	<180	<290	<330	<160	<220	<b>7,800</b>	<98
07/08/13	<b>360</b>		<220	<200	<200	<170	<300	<240	<180	<170	<180	<280	<320	<150	<220	<b>3,000</b>	<97
01/22/14	<b>760</b>		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230	<b>5,900</b>	<99
07/07/14	<b>370</b>		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230	<b>3,200</b>	<99
01/15/15	<b>1,500</b>		<100	<25	<100	<37	<310	<82	<25	<82	<58	<82	<120	<56	<120	<b>8,800</b>	<27
07/09/15	<b>220</b>		<100	<25	<100	<37	<310	<82	<25	<82	<58	<82	<120	<56	<120	<b>1,700</b>	<27
01/14/16	<b>660</b>		<110	<26	<110	<38	<320	<85	<26	<85	<60	<85	<130	<57	<130	<b>4,200</b>	<28
07/12/16	<b>430</b>		<25	<110	<27	<42	<61	<84	<25	<32	<25	<36	<63	<29	<42	<b>3,300</b>	<51
01/19/17	<b>2,000</b>		<48	<200	<53	<81	<120	<160	<48	<61	<48	<69	<120	<57	<81	<b>14,000</b>	<97
07/18/17	<b>1,200</b>		<32	<130	<35	<54	<78	<110	<32	<40	<32	<46	<81	<38	<54	<b>7,400</b>	<65

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W36

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
02/20/92		<1		<1	<0.5	<b>22.1</b>	<1		<0.5		<0.5		<1	<0.5	<1		<b>7,180</b>	<0.5
08/03/92		<1		<10	<b>11.3</b>	<0.5	<10		<5		<5		<1	<0.5	<1		<b>14,800</b>	155
09/17/92		<b>26</b>		<1	<b>132</b>	<b>29.2</b>	<b>15.2</b>		<0.5		<b>240</b>		<1	<0.5	<b>67</b>		<b>8,350</b>	<0.5
09/13/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	<b>1,700</b>	<1000
07/10/96	<500		<500	<500	<500	<500	<1000	<500	<500	<500	<500	<1000	<500	<500	<1000	<500	<b>1,800</b>	<500
07/11/97	<b>120</b>		<b>94</b>	<b>71</b>	<b>480</b>	<b>210</b>	<b>660</b>	<b>430</b>	<0.194	<b>1400</b>	<b>1200</b>	<b>440</b>	<0.362	<b>240</b>	<b>110</b>		<b>1,600</b>	<b>1600</b>
01/02/98	<b>57</b>		<0.453	<0.469	<b>310</b>	<b>170</b>	<b>430</b>	<b>230</b>	<0.194	<b>540</b>	<b>420</b>	<b>190</b>	<b>150</b>	<b>160</b>	<0.351		<b>480</b>	<0.127
06/25/98	<30		<30	<30	<30	<30	<30	<30	<b>93</b>	<b>46</b>	<b>52</b>	<30	<30	<30	<30		<b>190</b>	<b>46</b>
01/27/99			<b>30</b>						<b>89</b>	<b>43</b>		<b>33</b>					<b>240</b>	<b>60</b>
06/09/99	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		<b>67.0</b>	<30
01/11/00	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		<b>280</b>	<30
07/18/00	<3		<3	<3	<b>12.5</b>	<b>4.75</b>	<3	<b>13</b>	<b>130</b>	<b>32</b>	<b>9.75</b>	<b>52.5</b>	<3	<3	<b>9</b>		<b>65</b>	<b>62</b>
01/31/01	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		<b>360</b>	<30
07/11/01	<b>11</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>120</b>	<3.0
01/15/02	<b>5.5</b>		<3.0	<b>3.5</b>	<3.0	<3.0	<3.0	<3.0	<b>12</b>	<b>6.8</b>	<3.0	<b>4.1</b>	<3.0	<3.0	<3.0		<b>43</b>	<b>3.7</b>
08/06/02	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		<b>31</b>	<30
01/15/03	<b>14</b>		<3.0	<3.0	<b>5.9</b>	<b>4.2</b>	<b>4.6</b>	<3.0	<3.0	<3.0	<b>8.9</b>	<3.0	<3.0	<3.0	<3.0		<b>140</b>	<3.0
07/22/03	<b>4.2</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>3.2</b>	<3.0	<3.0	<3.0	<3.0	<3.0		<b>43</b>	<b>11</b>
01/21/04	<b>3.1J</b>		<3.0	<3.0	<3.0J	<3.0	<3.0	<3.0	3.9	<b>4.4</b>	<3.0	<3.0	<3.0J	<3.0	<3.0J		<b>45</b>	<b>3</b>
07/14/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0J	<3.0	<b>5.4</b>	<3.0J	<3.0J	<3.0	<3.0	<4.0		<b>65</b>	<b>22</b>
01/20/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>5</b>	<3.0	<b>8.2</b>	<b>3.1 J</b>	<3.0	<3.0	<3.0		<b>24</b>	<b>4.5</b>
07/21/05	6.5		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<b>4.9</b>	<3.0	<b>4.9</b>	<b>&lt;3.0</b>	<3.0	<3.0	<3.0		<b>81</b>	<b>21</b>
01/18/06	<b>8.5 V</b>		<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V		<b>89 V</b>	<6.0 V
07/18/06	<6.0		<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0		<b>16</b>	<6.0
01/23/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>11</b>	<3.0
07/10/07	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>11</b>	<3.0
7/10/2007 Duplicate	<b>3</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>42</b>	<3.0
01/29/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>8.1</b>	<3.0
1/29/2008 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>8.2</b>	<3.0
07/23/08	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>4.1</b>	<3.0
01/20/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0Q	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
1/20/2009 Duplicate	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0Q	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/06/09	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
01/18/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/14/10	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>8.6</b>	<3.0

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W36

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/24/11	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>3</b>	<3.0
07/19/11	<1.1		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		<b>7.8</b>	<0.49
01/18/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0
07/09/12	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>1.1</b>	<3.0
01/07/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>1.2</b>	<3.0
07/02/13	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>3.6</b>	<3.0
07/09/14	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>6.8</b>	<3.0
07/07/15	<b>1.1</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>15</b>	<3.0
07/06/16	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>5</b>	<3.0
07/11/17	<b>2.0</b>		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<b>31</b>	<3.0

**Notes:**

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.



Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W39

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
06/17/92		<b>360</b>		<b>236</b>	<b>835</b>	<b>569</b>	<10.3		<25.8		<25.8		<b>13.3</b>	<b>33.9</b>	<b>171</b>		<b>9,290</b>	<25.8
12/18/92		<b>403</b>		<b>267</b>	<b>1,710</b>	<50	<100		<50		<50		<100	<50	<b>178</b>		<b>13,900</b>	<50
06/21/94	<b>2,900</b>		<b>1,000</b>	<b>3,500</b>	<b>6,900</b>	<b>2,700</b>	<b>420</b>	<b>1,500</b>		<100	<b>5,200</b>	<b>8,400</b>	<b>310</b>	<b>550</b>	<b>1,300</b>	<100	<b>6,900</b>	
03/10/95	<1000		<2000	<1000	<1000	<b>1,500</b>	<2000	<1000		<b>3,600</b>	<b>10,000</b>	<b>3,100</b>	<1000	<1000	<2000	<1000	<b>3,700</b>	
09/13/95	<1000		<1000	<1000	<1000	<b>1,500</b>	<2000	<1000	<1000	<b>3,300</b>	<1000	<2000	<1000	<1000	<2000	<1000	<b>1,200</b>	<1000
12/18/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<b>2,100</b>	<b>2,800</b>	<b>4,400</b>	<1000	<1000	<2000	<1000	<b>2,400</b>	<1000
03/20/96	<1000		<1000	<1000	<b>1,100</b>	<b>1,500</b>	<2000	<1000	<b>5000</b>	<b>2,300</b>	<b>6,700</b>	<2000	<1000	<1000	<2000	<1000	<b>1,900</b>	<b>6900</b>
07/09/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	<b>170</b>	<b>1000</b>
01/21/97	<7.9		<7.5	<7.3	<8.2	<16	<7.4	<9	<12	<8.1	<16	<18	<7.7	<7.1	<7.6	<8.8	<b>782</b>	<11
07/11/97	<0.182		<0.453	<0.469	<b>2,800</b>	<0.148	<0.269	<b>3,400</b>	<0.194	<b>3,800</b>	<b>3,300</b>	<0.128	<0.362	<0.105	<0.351		<b>2,300</b>	<b>3600</b>
01/02/98	<0.182		<0.453	<b>310</b>	<b>2,600</b>	<0.148	<b>2,400</b>	<b>710</b>	<b>2400</b>	<b>3,800</b>	<b>2,200</b>	<0.128	<b>840</b>	<b>1,200</b>	<0.351		<b>1,100</b>	<0.127
06/24/98	<150		<150	<150	<150	<150	<150	<b>400</b>	<b>640</b>	<b>510</b>	<b>320</b>	<150	<150	<150	<150		<b>830</b>	<b>2800</b>
06/09/99	<150		<150	<150	<150	<150	<150	<150	<b>510</b>	<150	<b>180</b>	<150	<150	<150	<150		<b>1,800</b>	<b>560</b>
07/19/00	<1500		<1500	<1500	<b>3,200</b>	<1500	<1500	<b>3,900</b>	<b>10000</b>	<b>4,200</b>	<b>5,200</b>	<b>8,900</b>	<1500	<1500	<b>3,300</b>		<b>3,300</b>	<b>13000</b>
08/06/02	<b>300</b>		<b>270</b>	<b>230</b>	<b>1,200</b>	<b>1,600</b>	<b>230</b>	<b>2,600</b>	<b>2,100</b>	<b>2,300</b>	<b>3,100</b>	<b>6,100</b>	<150	<b>190</b>	<150		<b>750</b>	<b>5,300</b>
01/15/03	<b>240</b>		<150	<150	<b>720</b>	<b>300</b>	<150	<150	<150	<b>1400</b>	<b>1500</b>	<b>1200</b>	<150	<150	<150		<b>510</b>	<150
07/22/03	<b>1,100</b>		<150	<150	<150	<150	<150	<150	<b>190</b>	<b>210</b>	<150	<b>180</b>	<150	<150	<150		<b>820</b>	<150
01/20/04	<150		<150	<150	<150J	<150	<150	<150	<b>290</b>	<b>510</b>	<150J	<b>210J</b>	<150	<150	<150J		<b>550</b>	<b>230</b>
07/14/04	<300		<b>300J</b>	<300J	<300J	<b>420J</b>	<b>630</b>	<300	<b>450J</b>	<b>4,800</b>	<b>1,100</b>	<b>1,400</b>	<300J	<300	<400		<b>1,000</b>	<b>3,200</b>
01/20/05	<150 V		<150 V	<150 V	<150 V	<150 V	<150 V	<150 V	<b>710 V</b>	<b>350 V</b>	<b>1400 V</b>	<b>360 V</b>	<150 V	<150 V	<150 V		<b>1200 V</b>	<b>340 V</b>
07/20/05	<60 V		<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V		<b>330 V</b>	<60 V
01/17/06	130 V		<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<b>150 V</b>	<60 V	<b>250 V</b>	<60 V	<60 V	<60 V	<60 V		<b>1600 V</b>	<60 V
07/19/06	77		<60 V	<60	<60	100	<60	<60	<b>460</b>	<b>110</b>	<b>1,600</b>	<b>200</b>	<60	<60	<60		<b>820</b>	<b>480</b>
01/23/07	<b>950</b>		<300	<300	<300	<300	<300	<300	<300	<b>350</b>	<b>3,200</b>	<300	<300	<300	<300		<b>8,200</b>	<b>1,200</b>
07/11/07	<b>260</b>		<73	<86	<58	<43	<88	<110	<61	<26	<54	<47	<65	<27	<53		<b>2,600</b>	<22
01/28/08	<b>63</b>		<29	<34	<23	<17	<35	<44	<24	<11	<21	<19	<26	<11	<21		<b>960</b>	<8.9
07/24/08	<b>630</b>		<81	<88	<62	<120	<160	<94	<69	<89	<61	<68	<95	<110	<63		<b>4,100</b>	<32
01/21/09	<b>120</b>		<45	<49	<35	<69	<92	<53Q	<39	<50	<34	<39	<53	<63	<36		<b>1,300</b>	<18
07/07/09	<b>310</b>		<81	<89	<63	<120	<160	<95	<70	<90	<62	<69	<96	<110	<64		<b>3,400</b>	<32
01/19/10	<b>150</b>		<40	<43	<31	<61	<81	<46	<34	<44	<30	<34	<47	<56	<31		<b>910</b>	<16
1/19/2010 Duplicate	<b>130</b>		<40	<43	<31	<61	<81	<46	<34	<44	<30	<34	<47	<56	<31		<b>740</b>	<16
07/14/10	<b>1,600</b>		<57	<52	<52	<42	<77	<62	<45	<44	<46	<72	<82	<39	<57		<b>9,100</b>	<25
01/25/11	<b>1,100</b>		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330 Q	<160	<230		<b>7,300</b>	<100
1/25/2011 Duplicate	<b>1,100</b>		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330 Q	<160	<230		<b>6,900</b>	<99
04/06/11																	<b>4,000</b>	
07/25/11	<b>520</b>		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	<1.4	<1.6	<0.78	<1.1		<b>3,700</b>	<0.49
10/03/11																	<b>3,500</b>	

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W39

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/17/12	<b>220</b>		<60	<54	<54	<45	<82	<65	<47	<47	<49	<76	<87	<41	<60		<b>3,800</b>	<26
1/17/2012 Duplicate	<b>140</b>		<56	<51	<51	<41	<76	<61	<44	<43	<45	<71	<81	<38	<56		<b>2,500</b>	<24
04/03/12																	<b>2,200</b>	
07/10/12	<b>110</b>		<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11		<b>1,200</b>	<4.8
01/04/13	<b>140</b>		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		<b>2,300</b>	<49
1/4/2013 Duplicate	<110		<110	<100	<100	<85	<160	<130	<91	<90	<94	<150	<170	<79	<110		<b>1,800</b>	<50
07/08/13	<110		<110	<100	<100	<83	<150	<120	<88	<87	<91	<140	<160	<77	<110		<b>1,000</b>	<48
01/21/14	<b>170</b>		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		<b>2,700</b>	<49
07/08/14	<110		<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110		<b>1,100</b>	<49
01/15/15	<100		<52	<12	<52	<19	<150	<41	<12	<41	<29	<41	<62	<28	<62		<b>1,600</b>	<13
07/09/15	<b>54</b>		<10	<3.0	<10 M	<3.7	<31 M	<8.2	<3.0	<8.2	<5.8 M	<8.2	<12 MY	<5.6	<12		<b>970 M</b>	<3.0
01/14/16	<100		<52	<12	<52	<19	<150	<41	<12	<41	<29	<41	<62	<28	<62		<b>1,600</b>	<13
07/07/16	<b>33</b>		<3.0	<10.0	<3.0	<4.0	<5.9	<8.1	<3.0	<3.0	<3.0	<3.4	<6.1	<3.0	<4.0		<b>790</b>	<4.8
01/19/17	<b>96</b>		<6.2	<26	<6.7	<10	<15	<21	<6.2	<7.7	<6.2	<8.8	<15	<7.2	<10		<b>1,700</b>	<12
07/11/17	<b>40</b>		<b>3.0</b>	<10	<3.0	<4.0	<5.9	<8.1	<3.0	<3.0	<3.0	<3.4	<6.1	<3.0	<4.0		<b>800</b>	<4.8

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W40

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/19/10	<b>650</b>		<16	<18	<13	<25	<33	<19	<14	<18	<13	<14	<19	<23	<13		<b>6,400</b>	<6.5
07/15/10	<b>1,100</b>		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		<b>8,100</b>	<49
01/25/11	<b>1,400</b>		<560	<510	<510	<420	<770	<610	<440	<440	<460	<710	<820 Q	<390	<560		<b>13,000</b>	<240
07/25/11	<b>630</b>		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230		<b>6,400</b>	<99
01/18/12	<590		<12	<11	<11	<8.7	<16	<13	<9.3	<9.1	<9.6	<15	<17	<8.1	<12		<b>6,200</b>	<5.1
07/09/12	<b>900 M</b>		<11	<10	<10	<8.4	<15 M	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11 M		<b>10,000 M</b>	<4.9
01/07/13	<b>510</b>		<230	<210	<210	<170	<320	<260	<190	<180	<190	<300	<340	<160	<230		<b>4,400</b>	<100
07/08/13	<b>900</b>		<280	<250	<250	<210	<380	<300	<220	<220	<230	<350	<400	<190	<280		<b>8,300</b>	<120
01/21/14	<b>750</b>		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230		<b>7,800</b>	<99
07/08/14	<b>690</b>		<560	<510	<510	<410	<760	<610	<440	<430	<450	<710	<810	<380	<560		<b>8,500</b>	<240
01/15/15	<b>1,000</b>		<130	<31	<130	<46	<390	<100	<31	<100	<72	<100	<150	<70	<150		<b>10,000</b>	<34
07/09/15	<b>590</b>		<100	<25	<100	<37	<310	<82	<25	<82	<58	<82	<120	<56	<120		<b>6,800</b>	<27
01/19/16	<b>1,300</b>		<130	<30	<130	<45	<380	<100	<30	<100	<71	<100	<150	<68	<150		<b>12,000</b>	<33
07/12/16	<b>830</b>		<24	<100	<26	<40	<59	<81	<24	<30	<24	<34	<61	<28	<40		<b>9,500</b>	<48
01/19/17	<b>940</b>		<49	<200	<53	<82	<120	<160	<49	<61	<49	<69	<120	<57	<82		<b>11,000</b>	<98
07/18/17	<b>1,700</b>		<60	<250	<65	<100	<150	<200	<60	<75	<60	<85	<150	<70	<100		<b>19,000</b>	<120

Notes:

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

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- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W41

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
02/25/92		<20		<20	119	<10	<20	<10			85.9		<20	68	<20		8,610	<10
06/16/92		441		703	227	60.9	170		<5.1		143		<51	44.1	<51		16,600	<5.1
09/17/92		<1		<1	<0.5	<0.5	223		<0.5		<0.5		<1	<0.5	109		6,070	<0.5
12/19/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		16,400	<0.5
03/24/93		<8000		<2400	<800	<800	<2400		<800		<800		<4000	<4000	<4000		14,300	<800
06/30/93	3,600		<200	<100	<100	<100	<200	3,600		<100	<100	<200	<100	1,600	<200	<100	32,000	
12/28/93	710		<200	150	320	260	<200	140		180	150	<200	<100	<200	<200	<100	9,500	
04/25/94	1,000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	12,000	
06/21/94	930		980	820	430	110	1100	210		<100	330	<200	230	250	500	<100	4,900	
10/04/94	<500		<1000	<500	<500	<500	<1000	<500		<500	<500	<1000	<500	<500	<1000	<500	690	
03/10/95	<1000		<2000	<1000	<1000	<1000	<2000	<1000		<1000	<1000	<2000	<1000	<1000	<2000	<1000	3,600	
07/06/95	480		<11	<11	<11	<11	<53	<11	<10.65	<11	<21.3	<53	<21	<53	<27		3,400	<11
09/13/95	<1000		<1000	3,400	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	9,600	<1000
03/20/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	7,000	<1000
07/09/96	<2500		<2500	<2500	<2500	<2500	<5000	<2500	<2500	<2500	<2500	<5000	<2500	<2500	<5000	<2500	10,000	<2500
09/25/96	1,130		<7.3	<7.1	<8	<15	<7.2	<8.7	<12	<7.9	<15	<17	<7.5	<6.9	<7.4	<8.5	13,800	<10
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		18,000	<0.127
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	<0.351		3,700	<0.127
06/24/98	<600		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		5,200	<600
01/26/99				690	820	820	730	890	760					630			6,700	1,500
06/08/99	<600		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		5,800	<600
01/11/00	<600		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		7,800	<600
07/19/00	<150		330	<150	<150	<150	250	<150	<150	<150	<150	170	<150	<150	240		3,500	320
01/31/01	<600		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		7,600	<600
07/11/01	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		2,200	<1500
01/15/02	150		<60	120	<60	<60	74	<60	180	120	140	79	73	66	94		1,100	<60
08/06/02	<300		<300	370	<300	<300	<300	<300		<300	<300	<300	<300	<300	<300		3,100	
01/14/03	610		600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		7,200	<600
07/22/03	280		<150	220	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		4,300	160
01/20/04	190J		<150J	<150	<150J	<150	<150	<150	270	<150J	<150	<150J	<150	<150	<150J		3,500	<150
07/13/04	<300		780	<300	<300J	<300	930	<300	<300	<300	<300	<300	<300	<300J	<400		5,900	380

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W41

Date	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	Pentachlorophenol	Phenol
01/19/05	<300 V		<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		<b>3700 V</b>	<300 V
07/19/05	<b>390 V</b>		<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		<b>5900 V</b>	320 V
01/17/06	<300 V		<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V	<300 V		<b>3900 V</b>	<300 V
07/19/06	<300		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		<b>4,300</b>	<300
01/23/07	<b>150</b>		<60	<60	<60	<60	<60	<60	<60	<60	<60	<b>64</b>	<60	<60	<60		<b>1,700</b>	<b>92</b>
07/10/07	<b>180</b>		<38	<44	<30	<22	<45	<57	<31	<14	<28	<24	<33	<14	<27		<b>2,000</b>	<11
01/28/08	<b>150</b>		<80	<94	<63	<48	<97	<120	<67	<29	<59	<52	<71	<30	<58		<b>2,800</b>	<24
07/24/08	<b>630</b>		<160	<180	<130	<250	<330	<190	<140	<180	<120	<140	<190	<230	<130		<b>6,500</b>	<64
01/21/09	<b>250</b>		<83	<91	<64	<130	<170	<97Q	<72	<92	<63	<71	<98	<120	<65		<b>4,400</b>	<33
1/21/2009 Duplicate	<b>230</b>		<83	<91	<64	<130	<170	<97Q	<72	<92	<63	<71	<98	<120	<65		<b>4,000</b>	<33
07/07/09	<b>140</b>		<81	<88	<62	<120	<160	<94	<69	<89	<61	<68	<95	<110	<63		<b>2,800</b>	<32
01/19/10	<b>230</b>		<85	<92	<66	<130	<170	<99	<73	<94	<65	<72	<100	<120	<67		<b>2,000</b>	<33
07/14/10	<b>72</b>		<44	<40	<40	<33	<61	<48	<35	<35	<36	<57	<65	<31	<44		<b>1,200</b>	<19
01/25/11	<b>150</b>		<110	<100	<100	<85	<160	<130	<91	<90	<94	<150	<170 Q	<79	<110		<b>2,400</b>	<50
04/05/11																	<b>1,900</b>	
07/20/11	<b>64</b>		<1.1	<1.0	<1.0	<0.85	<1.5	<1.2	<0.90	<0.89	<0.93	<b>18</b>	<1.6	<0.78	<1.1		<b>790</b>	<0.49
10/03/11																	<b>1,500</b>	
01/17/12	<b>140</b>		<57	<52	<52	<42	<77	<62	<45	<44	<46	<72	<82	<39	<57		<b>2,700</b>	<25
04/03/12																	<b>7,600</b>	
07/10/12	<b>190 V</b>		<5.6 V	<5.1 V	<5.1 V	<4.2 V	<7.7 V	<6.1 V	<4.4 V	<4.4 V	<4.6 V	<7.1 V	<8.2 V	<3.9 V	<5.6 V		<b>980 V</b>	<3.0 V
01/04/13	<b>310</b>		<110	<100	<100	<83	<150	<120	<88	<87	<91	<140	<160	<77	<110		<b>3,300</b>	<48
07/05/13	<b>820</b>		<110	<100	<100	<85	<160	<130	<91	<90	<94	<150	<170	<79	<110		<b>6,600</b>	<50
01/21/14	<b>380</b>		<120	<110	<110	<86	<160	<130	<92	<91	<95	<150	<170	<80	<120		<b>4,400</b>	<51
07/09/14	<b>850</b>		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230		<b>8,300</b>	<99
01/15/15	<b>460</b>		<100	<25	<100	<38	<310	<83	<25	<83	<58	<83	<130	<56	<130		<b>8,500</b>	<27
07/08/15	<b>430</b>		<100	<24	<100	<37	<310	<82	<24	<82	<57	<82	<120	<55	<120		<b>8,800</b>	<27
01/14/16	<b>260</b>		<100	<25	<100	<37	<310	<82	<25	<82	<58	<82	<120	<56	<120		<b>5,200</b>	<27
07/12/16	<b>140</b>		<24	<100	<27	<41	<59	<82	<24	<31	<24	<35	<61	<29	<41		<b>6,000</b>	<49
01/19/17	<b>110</b>		<13	<52	<14	<21	<30	<42	<13	<16	<13	<18	<31	<15	<21		<b>2,600</b>	<25
07/18/17	<b>110</b>		<24	<100	<27	<41	<59	<82	<24	<31	<24	<35	<61	<29	<41		<b>4,100</b>	<49

Notes: Prepared By: T. Dushek, 11/2/17 Checked By: A. Voit, 12/15/17

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- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W69

Date	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	3&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol
07/24/03	<b>2,100</b>	<1500	<1500	<1500	<1500	<1500	<1500	<b>4,700</b>	<b>2,500</b>	<1500	<b>2,600</b>	<1500	<1500	<1500	<b>14,000</b>	<b>8,600</b>
01/21/04	<b>6,700</b>	<3000	<3000	<3000J	<3000	<3000J	<3000	<b>19,000</b>	<b>11,000</b>	<3000	<3,000J	<3000	<3000	<3,000J	<b>64,000</b>	<b>19,000</b>
07/14/04	<b>870J</b>	<600	<600	<600J	<600	<b>1,300</b>	<600	<600	<b>1,200</b>	<600J	<600J	<600	<600	<800	<b>9,600</b>	<b>3,900</b>
01/20/05	<b>1,300 V</b>	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<b>2,200 V</b>	<b>910 V</b>	<b>3,100 V</b>	<b>770 JV</b>	<600 V	<600 V	<600 V	<b>11,000 V</b>	<b>1500 V</b>
01/23/08	<b>630</b>	<160	<180	<130	<250	<330	<190	<140	<180	<120	<140	<190	<230	<130	<b>6,500</b>	<64
07/24/08	<b>1,100</b>	<160	<180	<130	<250	<330	<190	<140	<180	<130	<140	<190	<230	<130	<b>10,000</b>	<65
01/21/09	<b>1,000</b>	<170	<180	<130	<250	<340	<190Q	<140	<180	<130	<140	<200	<230	<130	<b>9,800</b>	<65
01/26/11	<b>520</b>	<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330 Q	<160	<230	<b>6,200</b>	<99
07/25/11	<b>570</b>	<1.1	<1.0	<1.0	<0.83	<1.5	<1.2	<0.88	<0.87	<0.91	<1.4	<1.6	<0.77	<1.1	<b>4,300</b>	<0.48
01/18/12	<b>340 M</b>	<12	<11	<11	<8.6	<16 M	<13	9.2 MY	<9.1 Y	<9.5 M	<15	<17 MY	<8	<12 M	<b>4,100 M</b>	<5.1 Y
07/10/12	<b>140</b>	<5.6	<5.1	<5.1	<4.1	<7.6	<6.1	<4.4	<4.3	<4.5	<7.1	<8.1	<3.8	<5.6	<b>1500</b>	<3.0
01/07/13	<b>560</b>	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	<b>8,900</b>	<49
07/08/13	<b>430</b>	<120	<110	<110	<88	<160	<130	<94	<92	<97	<150	<170	<82	<120	<b>5,000</b>	<52

Notes:

Prepared By: T. Dushek, 8/5/13

Checked By: A. Voit, 9/21/13

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.
- 8.) WDNR letter dated March 18, 2014 concurred with a TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - DFOMW5

Date	Pentachlorophenol
01/19/10	<b>5.3</b>
07/13/10	<3
01/25/11	<b>6.6</b>
07/15/11	<1.1
01/17/12	<3
07/02/12	<b>4.4</b>
01/08/13	<3
07/10/13	<3
01/20/14	<b>2.0</b>
07/15/14	<3
01/19/15	<b>2.0</b>
07/08/15	<3
01/15/16	<3
07/11/16	<b>0.55</b>
01/23/17	<b>2.10</b>
07/20/17	<b>0.55 B</b>

**Notes:**

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) B = Analyte detected in the associated Method Blank
- 4.) J = Estimated Value
- 5.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 6.) Q = Laboratory Control Sample outside acceptance limits.
- 7.) Y = Replicate/Duplicate precision outside acceptance limits.
- 8.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - DFOMW9

Date	Pentachlorophenol
01/19/10	<b>160</b>
07/13/10	<b>45</b>
07/13/10 Duplicate	<b>58</b>
01/25/11	<b>210</b>
07/15/11	<b>98</b>
01/17/12	<b>95</b>
07/02/12	<b>130</b>
01/08/13	<b>77</b>
07/10/13	<b>200</b>

**Notes:**

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.
- 8.) WDNR letter dated March 18, 2014 concurred with a TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17



Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - DFOMW10A

Date	Pentachlorophenol
01/19/10	<b>3,200</b>
01/19/10 Duplicate	<b>3,300</b>
07/15/10	<b>1,500</b>
01/25/11	<b>1,800</b>
07/15/11	<b>610</b>
01/17/12	<b>2,300</b>
07/02/12	<b>590</b>
01/08/13	<b>1,800</b>
07/10/13	<b>950</b>

**Notes:**

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.
- 8.) WDNR letter dated March 18, 2014 concurred with a TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - DFOMW11

Date	Pentachlorophenol
01/19/10	<b>3,900</b>
07/13/10	<b>4,800</b>
01/25/11	<b>3,100</b>
07/15/11	<b>5,000</b>
01/17/12	<b>2,200</b>
07/02/12	<b>4,200</b>
7/2/2012 Duplicate	<b>4,000</b>
01/08/13	<b>3,300</b>
07/10/13	<b>580</b>
01/20/14	<b>2,400</b>
1/20/14 Duplicate	<b>3,000</b>
07/15/14	<b>5,800</b>
01/19/15	<b>3,100</b>
07/08/15	<b>5,300</b>
01/15/16	<b>3,100</b>
07/11/16	<b>2,900</b>
01/23/17	<b>2,800</b>
07/20/17	<b>810</b>

**Notes:**

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - DFOMW12

Date	Pentachlorophenol
01/19/10	<b>3,600</b>
07/13/10	<b>2,600</b>
01/25/11	<b>7,900</b>
1/25/2011 Duplicate	<b>7,300</b>
07/15/11	<b>4,800</b>
7/15/2011 Duplicate	<b>3,000</b>
01/17/12	<b>7,600</b>
1/17/2012 Duplicate	<b>8,400</b>
07/02/12	<b>9,500</b>
01/08/13	<b>5,400</b>
1/8/2013 Duplicate	<b>5,500</b>
07/10/13	<b>6,100</b>
7/10/2013 Duplicate	<b>5,800</b>
07/15/14	<b>5,200</b>
7/15/2014 Duplicate	<b>6,100</b>
01/19/15	<b>10,000</b>
1/19/2015 Duplicate	<b>10,000</b>
07/08/15	<b>4,500</b>
7/8/2015 Duplicate	<b>4,500</b>
01/19/16	<b>5,900</b>
07/11/16	<b>4,900</b>
7/11/2016 Duplicate	<b>4,800</b>
01/23/17	<b>5,000</b>
1/23/2017 Duplicate	<b>4,500</b>
07/20/17	<b>2,300</b>
7/20/2017 Duplicate	<b>2,800</b>

**Notes:**

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W71

Date	Pentachlorophenol
07/06/15	<3.0
01/15/16	<3.0
07/01/16	<3.0
01/23/17	<3.0
07/10/17	<3.0

**Notes:**

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W72

Date	Pentachlorophenol
07/06/15	<3.0
01/15/16	<3.0
07/01/16	<3.0
01/23/17	<3.0
07/10/17	<3.0

**Notes:**

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

Phenolics - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W73

Date	Pentachlorophenol
07/06/15	<3.0
01/15/16	<3.0
07/01/16	<3.0
01/23/17	<3.0
07/10/17	<3.0

**Notes:**

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

Phenolics - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W74

Date	Pentachlorophenol
07/06/15	<3.0
01/15/16	<3.0
07/01/16	<3.0
01/23/17	<3.0
07/10/17	<3.0

**Notes:**

- 1.) All units are in ug/L.
- 2.) Bold Values indicate detections
- 3.) J = Estimated Value
- 4.) M = Matrix spike and/or Matrix Spike duplicate recovery outside acceptance limits.
- 5.) Q = Laboratory Control Sample outside acceptance limits.
- 6.) Y = Replicate/Duplicate precision outside acceptance limits.
- 7.) V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference.

Prepared By: T. Dushek, 11/2/17

Checked By: A. Voit, 12/15/17

**B3**

**Volatile Organic Compounds**







Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W02

Parameter	06/14/92	09/17/92	12/18/92	03/24/93	06/22/94	07/06/95	07/10/96	07/11/97	06/25/98	07/22/03	07/14/04	07/21/05	7/21/2005 duplicate	07/15/10	07/20/11	07/09/12	7/9/2012 Duplicate	7/8/2013	7/16/2014	7/8/2015	7/7/2016	7/7/2016 Duplicate	7/13/2017	7/13/2017 Duplicate
1,1,1,2-Tetrachloroethane				<1	<1		<10	<0.1	<0.3	<18	<18	<25	<25	<4.8	<4.0									
1,1,1-Trichloroethane	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.3	<10	<10	<30	<30	<4.2	<2.9									
1,1,2,2-Tetrachloroethane	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2	<16	<16	<7.5	<7.5	<3.8	<b>4.5</b>									
1,1,2-Trichloroethane	<5	<50	<5	<1	<1	<20	<10	<1	<0.2	<18	<18	<20	<20	<5.2	<3.0									
1,1-Dichloroethane	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2	<10	<10	<25	<25	<4.0	<2.8									
1,1-Dichloroethene	<5	<50	<5	<1	<1	<20	<10	<0.4	<0.2	<8.0	<8.0	<25	<25	<4.8	<2.9									
1,1-Dichloropropene				<1	<1		<10	<0.2	<0.3	<10	<10	<25	<25	<4.8	<4.0									
1,2,3-Trichlorobenzene				<1	<1		<10	<0.5	<0.4	<10	<10	<30	<30	<6.0	<4.0									
1,2,3-Trichloropropane				<1	<1		<10	<0.3	<0.2	<16	<16	<30	<30	<4.2	<4.0									
1,2,4-Trichlorobenzene				<1	<1		<10	<0.5	<0.3	<10	<10	<35	<35	<6.0	<3.0									
1,2,4-Trimethylbenzene				<b>490</b>	<b>850</b>		<b>623.6</b>	<b>1400</b>	<b>1300</b>	<b>740</b>	<b>510</b>	<b>1300</b>	<b>1200</b>	<b>600</b>	<b>520</b>			<b>600</b>	<b>680</b>	<b>710</b>	<b>750</b>	<b>880</b>	<b>110</b>	<b>130</b>
1,2-Dibromo-3-chloropropane				<3	<3		<30	<0.3	<0.3	<8.0	<8.0	<55	<55	<8.0	<5.0									
1,2-Dibromoethane				<2	<2		<20	<0.2	<0.4	<6.0	<6.0	<30	<30	<3.2	<3.0									
1,2-Dichlorobenzene				<1	<1	<20	<10	<0.3	<0.3	<14	<14	<25	<25	<4.6	<4.0									
1,2-Dichloroethane	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2	<18	<18	<25	<25	<6.0	<3.0									
cis-1,2-Dichloroethene				<1	<1	<20	<10	<0.2	<0.2	<10	<10	<30	<30	<5.0	<3.0									
trans-1,2-Dichloroethene	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.3	<8.0	<8.0	<30	<30	<5.0	<3.0									
1,2-Dichloropropane	<5	<50	<5	<1	<1	<20	<10	<0.1	<0.2	<8.0	<8.0	<25	<25	<4.4	<2.9									
1,3,5-Trimethylbenzene				<b>120</b>	<b>200</b>		<b>21.291</b>	<b>420</b>	<b>415</b>	<b>360</b>	<b>300</b>	<b>530</b>	<b>530</b>	<b>260</b>	<b>200</b>									
1,3-Dichlorobenzene				<1	<1	<20	<10	<0.7	<0.4	<10	<10	<25	<25	<5.2	<3.0									
cis-1,3-Dichloropropene	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.3	<12	<12	<6	<6	<3.8	<2.8									
1,3-Dichloropropane				<1	<1		<10	<0.3	<0.6	<24	<14	<30	<30	<4.6	<3.0									
trans-1,3-Dichloropropene	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2	<14	<24	<7	<7	<3.8	<3.0									
1,4-Dichlorobenzene				<1	<1	<20	<10	<0.3	<0.3	<10	<10	<25	<25	<4.6	<3.0									
2,2-Dichloropropane				<1	<1		<10	<0.2	<0.5	<12	<12	<30	<30	<5.0	<2.8									
2-Butanone (MEK)	<10	<100	<10									<350	<350	<48	<30									
2-Chloroethyl vinyl ether						<200																		
2-Chlorotoluene				<1	<1		<10	<0.4	<0.3	<12	<12	<25	<25	<4.4	<3.0									
2-Hexanone	<10	<100	<10									<350	<350	<80	<40									
4-Chlorotoluene				<1	<1		<10	<0.3	<0.3	<12	<12	<20	<20	<4.2	<2.9									
4-Methyl-2-Pentanone (MIBK)	<10	<100	<10									<350	<350	<60	<30									
Acetone	<10	<b>1620</b>	<b>16.8</b>									<450	<450	<100	<50									
Benzene	<5	<50	<5	<b>2.8</b>	<b>4</b>	<20	<10	<0.2	<0.3	<8.0	<8.0	<20	<20	<3.8	<3.0									
Bromobenzene				<1	<1		<10	<0.3	<0.2	<10	<10	<25	<25	<4.00	<3.0									
Bromochloromethane				<1	<1		<10	<0.4	<0.2	<10	<10	<25	<25	<4.4	<4.0									
Bromodichloromethane	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.2	<8.0	<8.0	<6.5	<6.5	<4.0	<3.0									
Bromoform	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.2	<12	<12	<25	<25	<4.4	<2.4									
Bromomethane	<10	<100	<10	<2	<2	<40	<20	<0.3	<0.9	<16	<16	<40	<40	<10	<3.0									
n-Butylbenzene				<b>85</b>	<b>140</b>		<b>91.59</b>	<b>140</b>	<b>180</b>	<b>260</b>	<b>230</b>	<b>160</b>	<b>31</b>	<b>31</b>	<b>21</b>									
sec-Butylbenzene				<b>36</b>	<b>43</b>		<10	<b>30</b>	<b>72.5</b>	<b>31</b>	<b>35</b>	<b>59</b>	<b>18</b>	<b>18</b>	<b>14</b>									
tert-Butylbenzene				<1	<1		<10	<0.3	<0.3	<10	<10	<25	<25	<4.0	<b>6.2</b>									

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W02

Parameter	06/14/92	09/17/92	12/18/92	03/24/93	06/22/94	07/06/95	07/10/96	07/11/97	06/25/98	07/22/03	07/14/04	07/21/05	7/21/2005 duplicate	07/15/10	07/20/11	07/09/12	7/9/2012 Duplicate	7/8/2013	7/16/2014	7/8/2015	7/7/2016	7/7/2016 Duplicate	7/13/2017	7/13/2017 Duplicate
Carbon disulfide	<5	<50	<5									<55	<55	<10	<6.0									
Carbon tetrachloride	<5	<50	<5	<1	<1	<20	<10	<0.2	<0.4	<12	<12	<25	<25	<4.6	<4.0									
Chlorobenzene	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.3	<16	<16	<25	<25	<4.8	<3.0									
Chlorodibromomethane	<5	<50	<5	<1	<1	<20	<10	<0.3	<0.3	<8.0	<8.0	<30	<30	<3.8	<2.6									
Chloroethane	<10	<100	<10	<2	<2	<40	<20	<0.4	<0.8	<10	<10	<35	<35	<8.0	<3.0									
Chloroform	<b>6.24</b>	<50	<5	<b>3.2</b>	<b>4.3</b>	<20	<10	<0.2	<0.2	<12	<12	<25	<25	<3.0	<2.3									
Chloromethane	<10	<100	<10	<2	<2	<40	<20	<0.7	<0.9	<8.0	<8.0	<12	<12	<8.0	<4.0									
Dibromomethane				<1	<1		<10	<0.1	<0.2	<10	<10	<35	<35	<4.8	<3.0									
Dichlorodifluoromethane				<2	<2		<20	<0.3	<1.2	<10	<10	<30	<30	<5.2	<3.0									
Diisopropyl ether										<10	<10	<25	<25	<4.0	<3.0									
Ethylbenzene	<b>25.1</b>	<50	<b>25.2</b>	<b>17</b>	<b>18</b>	<20	<10	<b>35</b>	<b>67.5</b>	<10	<10	<25	<b>9.7</b>	<b>9.7</b>	<b>11</b>									
Hexachlorobutadiene				<1	<1		<10	<0.5	<0.6	<10	<10	<30	<30	<6.0	<4.0									
Isopropylbenzene				<b>38</b>	<b>35</b>		<b>11</b>	<b>60</b>	<b>85</b>	<b>21</b>	<b>22</b>	<b>29</b>	<b>29</b>	<3.6	<b>22</b>									
p-Isopropyltoluene				<1	<1		<10	<0.4	<b>72.5</b>	<b>48</b>	<b>47</b>	<b>80</b>	<b>87</b>	<b>25</b>	<b>26</b>									
Methyl tert-butyl ether (MTBE)										<10	<10	<30	<30	<5.8	<3.0									
Methylene chloride	<5	<b>745</b>	<b>10.4</b>	<3	<3	<60	<30	<0.3	<0.5	<20	<b>92</b>	<b>28</b>	<b>25</b>	<b>25</b>	<b>9.2 B</b>									
Naphthalene	<b>55.4</b>	<b>84.6</b>	<b>74</b>	<b>140</b>	<b>49</b>	<b>73</b>	<b>85</b>	<b>180</b>	<b>195</b>	<b>120</b>	<b>93</b>	<b>150 A</b>	<b>140 A</b>	<b>85</b>	<b>82</b>	<b>49</b>	<b>45</b>	<b>90</b>	<b>89</b>	<b>87</b>	<b>91</b>	<b>110</b>	<b>10</b>	<b>12</b>
n-Propylbenzene				<b>43</b>	<b>49</b>		<b>67.52</b>	<0.3	<b>140</b>	<b>46</b>	<b>31</b>	<b>48</b>	<b>47</b>	<b>24</b>	<b>35</b>									
Styrene	<5	<50	<5	<b>16</b>	<1		<10	<0.2	<0.2	<b>24</b>	<10	<25	<25	<4.0	<3.0									
Tetrachloroethene	<5	<50	<5	<1	<b>7.6</b>	<20	<10	<0.3	<0.6	<10	<10	<20	<20	<6.0	<3.0									
Tetrahydrofuran												<350	<350	<60	<40									
Toluene	<b>5.61</b>	<50	<5	<b>3.5</b>	<b>3.8</b>	<20	<10	<0.2	<b>40</b>	<10	<10	<20	<20	<4.4	<3.0									
Trichloroethene	<b>51.1</b>	<50	<b>27.6</b>	<b>16</b>	<b>10</b>	<20	<10	<0.2	<0.3	<12	<12	<7.5	<7.5	<4.2	<4.0									
Trichlorofluoromethane				<1	<1	<20	<10	<0.5	<0.6	<8.0	<8.0	<25	<25	<4.0	<4.0									
Vinyl acetate	<10	<100	<10									<400	<400	<60	<40									
Vinyl chloride	<10	<100	<10	<1	<1	<20	<10	<0.3	<0.5	<6.0	<6.0	<6.0	<6.0	<3.6	<1.9									
Xylene, m & p-				<b>83</b>	<b>52</b>	<40	<b>155</b>	<b>180</b>	<b>210</b>	<b>35</b>	<b>24</b>	<50	<50	<b>25</b>	<b>23</b>			<b>17</b>	<20	<22	<b>31</b>	<b>49</b>	<4.0	<4.0
Xylene, o-				<b>170</b>	<b>200</b>	<b>97</b>	<b>218</b>	<b>550</b>	<b>440</b>	<b>280</b>	<b>240</b>	<b>290</b>	<b>270</b>	<b>160</b>	<b>120</b>			<b>83</b>	<b>91</b>	<b>90</b>	<b>95</b>	<b>120</b>	<b>69</b>	<b>64</b>
Xylenes, Total	<b>181</b>	<b>257</b>	<b>292</b>	<b>253</b>	<b>252</b>	<b>97</b>	<b>373</b>	<b>730</b>	<b>650</b>	<b>315</b>	<b>264</b>	<b>290</b>	<b>270</b>	<b>185</b>	<b>143</b>			<b>100</b>	<b>91</b>	<b>90</b>	<b>126</b>	<b>169</b>	<b>69</b>	<b>64</b>

Prepared By: T. Dushek, 11/7/17

Checked by: A. Voit, 12/15/17

**NOTES:**

- All Units are in ug/L
- Bold values indicate detections
- A = Analyte averaged calibration criteria within acceptable limit
- B = Analyte detected in associated Method Blank
- M = Matrix spike or matrix spike duplicate outside acceptance limits
- J = Estimated Value
- Q = Lab Control Sample outside acceptance limit
- \* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W03A

Parameter	07/15/10	07/20/11	07/10/12	07/05/13	07/09/14	7/9/2014 Duplicate	7/8/2015	7/8/2015 Duplicate	7/7/2016	7/17/2017
1,1,1,2-Tetrachloroethane	<4.8	<8.0								
1,1,1-Trichloroethane	<4.2	<5.8								
1,1,2,2-Tetrachloroethane	<3.8	<6.0								
1,1,2-Trichloroethane	<5.2	<6.0								
1,1-Dichloroethane	<4.0	<5.6								
1,1-Dichloroethene	<4.8	<5.8								
1,1-Dichloropropene	<4.8	<8.0								
1,2,3-Trichlorobenzene	<6.0	<8.0								
1,2,3-Trichloropropane	<4.2	<8.0								
1,2,4-Trichlorobenzene	<6.0	<6.0								
1,2,4-Trimethylbenzene	<b>1,400</b>	<b>630</b>		<b>470</b>	<b>650</b>	<b>490</b>	<b>500</b>	<b>390</b>	<b>310</b>	<b>700</b>
1,2-Dibromo-3-chloropropane	<8.0	<10								
1,2-Dibromoethane	<3.2	<6.0								
1,2-Dichlorobenzene	<4.6	<8.0								
1,2-Dichloroethane	<6.0	<6.0								
cis-1,2-Dichloroethene	<5.0	<6.0								
trans-1,2-Dichloroethene	<5.0	<6.0								
1,2-Dichloropropane	<4.4	<5.8								
1,3,5-Trimethylbenzene	<b>500</b>	<b>92</b>								
1,3-Dichlorobenzene	<5.2	<6.0								
cis-1,3-Dichloropropene	<3.8	<5.6								
1,3-Dichloropropane	<4.6	<6.0								
trans-1,3-Dichloropropene	<3.8	<6.0								
1,4-Dichlorobenzene	<4.6	<6.0								
2,2-Dichloropropane	<5.0	<5.6								
2-Butanone (MEK)	<48	<60								
2-Chloroethyl vinyl ether										
2-Chlorotoluene	<4.4	<6.0								
2-Hexanone	<80	<80								
4-Chlorotoluene	<b>48</b>	<5.8								
4-Methyl-2-Pentanone (MIBK)	<60	<60								
Acetone	<100	<100								
Benzene	<3.8	<6.0								
Bromobenzene	<4.0Q	<6.0								
Bromochloromethane	<4.4	<8.0								
Bromodichloromethane	<4.0	<6.0								
Bromoform	<4.4	<4.8								
Bromomethane	<10	<6.0								
n-Butylbenzene	<b>94</b>	<b>25</b>								
sec-Butylbenzene	<b>71</b>	<b>37</b>								
tert-Butylbenzene	<b>13</b>	<b>11</b>								
Carbon disulfide	<10	<12								
Carbon tetrachloride	<4.6	<8.0								
Chlorobenzene	<4.8	<6.0								
Dibromochloromethane	<3.8	<5.2								
Chloroethane	<8.0	<6.0								
Chloroform	<3.0	<4.6								
Chloromethane	<8.0	<8.0								
Dibromomethane	<4.8	<6.0								
Dichlorodifluoromethane	<5.2	<6.0								
Diisopropyl Ether	<4.0	<6.0								
Ethylbenzene	<b>18</b>	<b>13</b>								
Hexachlorobutadiene	<6.0	<8.0								
Isopropylbenzene	<b>22</b>	<b>41</b>								

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W03A

Parameter	07/15/10	07/20/11	07/10/12	07/05/13	07/09/14	7/9/2014 Duplicate	7/8/2015	7/8/2015 Duplicate	7/7/2016	7/17/2017
p-Isopropyltoluene	<b>78</b>	<b>18</b>								
Methyl tert-butyl ether	<5.8	<6.0								
Methylene chloride	<b>19</b>	<b>23 B</b>								
Naphthalene	<b>95</b>	<b>55</b>	<b>18</b>	<b>47</b>	<b>40</b>	<b>34</b>	<b>38</b>	<b>25</b>	<b>27</b>	<b>53</b>
n-Propylbenzene	<b>74</b>	<b>33</b>								
Styrene	<4.0	<6.0								
Tetrachloroethene	<6.0	<6.0								
Tetrahydrofuran	<60	<80								
Toluene	<4.4	<6.0								
Trichloroethene	<4.2	<8.0								
Trichlorofluoromethane	<4.0	<8.0								
Vinyl acetate	<60	<80								
Vinyl chloride	<3.6	<3.8								
Xylene, m & p-	<b>55</b>	<b>21</b>		<b>16</b>	<20	<20	<22	<22	<b>21</b>	<b>18</b>
Xylene, o-	<b>200</b>	<b>87</b>		<b>72</b>	<b>90</b>	<b>66</b>	<b>67</b>	<b>45</b>	<b>59</b>	<b>100</b>
Xylenes, Total	<b>255</b>	<b>108</b>		<b>88</b>	<b>90</b>	<b>66</b>	<b>67</b>	<b>45</b>	<b>80</b>	<b>118</b>

Prepared By: T. Dushek, 11/7/17

Checked by: A. Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W03B

Parameter	02/22/92	09/17/92	12/18/92	03/23/93	06/29/93	12/28/93	06/22/94	07/06/95	07/10/96	07/11/97	06/24/98	06/09/99	07/18/00	01/31/01	07/11/01	08/06/02
1,1,1,2-Tetrachloroethane				<1		<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90
1,1,1-Trichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50
1,1,2,2-Tetrachloroethane		<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80
1,1,2-Trichloroethane		<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90
1,1-Dichloroethane		<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50
1,1-Dichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40
1,1-Dichloropropene				<1		<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50
1,2,3-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50
1,2,3-Trichloropropane				<1		<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80
1,2,4-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50
1,2,4-Trimethylbenzene				<1	<b>5</b>	<b>3.8</b>	<b>8.2</b>		<b>4.6</b>	<0.7	<b>5.8</b>	<b>1.3</b>	<0.2	<0.10	<0.2	<0.50
1,2-Dibromo-3-chloropropane				<3	<5	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40
1,2-Dibromoethane				<2	<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30
1,2-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70
1,2-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90
cis-1,2-Dichloroethene				<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50
trans-1,2-Dichloroethene		<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40
1,2-Dichloropropane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40
1,3,5-Trimethylbenzene				<1	<b>2.4</b>	<b>1.8</b>	<b>3.3</b>		<b>2.4</b>	<0.4	<b>3.2</b>	<b>1.3</b>	<0.3	<0.10	<0.3	<0.50
1,3-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50
cis-1,3-Dichloropropene	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60
1,3-Dichloropropane				<1	<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2
trans-1,3-Dichloropropene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70
1,4-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50
2,2-Dichloropropane				<1	<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60
2-Butanone (MEK)	<10	<100	<10													
2-Chloroethyl vinyl ether								<10								
2-Chlorotoluene				<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60
2-Hexanone	<10	<100	<10													
4-Chlorotoluene				<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60
4-Methyl-2-Pentanone (MIBK)	<10	<100	<10													
Acetone	<b>12.3</b>	<b>1040</b>	<10													
Benzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40
Bromobenzene				<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50
Bromochloromethane				<1		<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50
Bromodichloromethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W03B

Parameter	02/22/92	09/17/92	12/18/92	03/23/93	06/29/93	12/28/93	06/22/94	07/06/95	07/10/96	07/11/97	06/24/98	06/09/99	07/18/00	01/31/01	07/11/01	08/06/02
Bromoform	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60
Bromomethane	<10	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80
n-Butylbenzene				<1	<1	<b>1.6</b>	<b>3</b>		<b>3.6</b>	<0.6	<b>3.2</b>	<b>3.1</b>	<0.4	<0.10	<0.4	<0.50
sec-Butylbenzene				<1	<b>1.6</b>	<1	<1		<b>1.1</b>	<0.3	<b>1.1</b>	<0.2	<0.3	<0.20	<0.3	<0.50
tert-Butylbenzene				<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	<0.10	<0.1	<0.50
Carbon disulfide	<5	<50	<5													
Carbon tetrachloride	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60
Chlorobenzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80
Chlorodibromomethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40
Chloroethane	<10	<100	<10	<2	<10	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50
Chloroform	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.60
Chloromethane	<10	<100	<10	<2	<20	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40
Dibromomethane				<1		<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50
Dichlorodifluoromethane				<2	<40	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50
Diisopropyl Ether					<1							<0.3	<0.1	<0.10	<0.1	<0.50
Ethylbenzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50
Hexachlorobutadiene				<1	<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50
Isopropylbenzene				<1	<1	<1	<1		<1	<0.2	<b>0.8</b>	<0.2	<0.1	<0.10	<0.1	<0.50
p-Isopropyltoluene				<1	<1	<1	<1		<b>1.6</b>	<0.4	<b>1.4</b>	0.8	<0.2	<0.10	<0.2	<0.50
Methyl tert-butyl ether					<1							<0.2	<1.1	<0.30	<1.1	<0.50
Methylene chloride	<5	<b>534</b>	<10	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0
Naphthalene	<10	<b>91.6</b>	<10	<1	<b>1.5</b>	<1	<1	<1	<b>1.4</b>	<0.8	<b>1.3</b>	<1.1	<0.7	<0.20	<0.7	<0.50
n-Propylbenzene				<1	<1	<1	<1		<b>1.1</b>	<0.3	<b>1.1</b>	<0.2	<0.3	<0.10	<0.3	<0.50
Styrene	<5	<50	<5	<1		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50
Tetrachloroethene	<5	<50	<5	<1	<1	<1	<1	<b>1.3</b>	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<0.50
Tetrahydrofuran																
Toluene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50
Trichloroethene	<5	<50	<5	<1	<b>8.9</b>	<1	<b>2.2</b>	<b>1.8</b>	<b>4.4</b>	<b>1</b>	<b>3.5</b>	<b>0.3</b>	<b>0.55</b>	<b>0.76</b>	<b>0.46 e</b>	<b>2.1</b>
Trichlorofluoromethane				<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40
Vinyl acetate	<10	<100	<10													
Vinyl chloride	<10	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30
Xylene, o-				<1	<b>6.4</b>	<1	<b>1.9</b>	<1	<b>2.2</b>	<0.2	<0.5	<0.5	<0.1	<0.20	<0.2	<0.60
Xylene, m & p-				<2	<2	<2	<2	<2	<2	<0.4	<b>1.4</b>	<0.3	<0.2	<0.10	<0.1	<0.50
Xylenes, Total	<5	<50	<5	<3	<b>6.4</b>	<3	<b>1.9</b>	<3	<b>2.2</b>	<0.6	<b>1.4</b>	<0.8	<0.3			



Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W03B

Parameter	07/24/03	07/13/04	07/20/05	07/18/06	07/11/07	07/23/08	07/06/09	07/15/10	07/18/11	07/06/12	07/01/13	07/09/14	07/07/15	07/05/16	07/13/17
1,1,1,2-Tetrachloroethane	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40						
1,1,1-Trichloroethane	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29						
1,1,2,2-Tetrachloroethane	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30						
1,1,2-Trichloroethane	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30						
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28						
1,1-Dichloroethene	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29						
1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40						
1,2,3-Trichloropropane	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40						
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30						
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<b>12</b>	<b>11</b>		<0.40	<0.60	<0.50	<0.40	<b>0.54</b>
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50						
1,2-Dibromoethane	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30						
1,2-Dichlorobenzene	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40						
1,2-Dichloroethane	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30						
cis-1,2-Dichloroethene	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<b>0.58</b>	<b>0.4</b>						
trans-1,2-Dichloroethene	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30						
1,2-Dichloropropane	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29						
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<b>1.6</b>	<0.30						
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30						
cis-1,3-Dichloropropene	<0.60	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28						
1,3-Dichloropropane	<1.2	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30						
trans-1,3-Dichloropropene	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30						
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30						
2,2-Dichloropropane	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28						
2-Butanone (MEK)			<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0						
2-Chloroethyl vinyl ether															
2-Chlorotoluene	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30						
2-Hexanone			<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0						
4-Chlorotoluene	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29						
4-Methyl-2-Pentanone (MIBK)			<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0						
Acetone			<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0						
Benzene	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30						
Bromobenzene	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20Q	<0.30						
Bromochloromethane	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40						
Bromodichloromethane	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30						

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W03B

Parameter	07/24/03	07/13/04	07/20/05	07/18/06	07/11/07	07/23/08	07/06/09	07/15/10	07/18/11	07/06/12	07/01/13	07/09/14	07/07/15	07/05/16	07/13/17
Bromoform	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24						
Bromomethane	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30						
n-Butylbenzene	<0.50	14	<0.60	<0.40	<0.24	<0.24	<0.24	<b>0.57</b>	<b>0.38</b>						
sec-Butylbenzene	<0.50	8	<0.50	<0.50	<0.29	<0.29	<0.29	<b>3.6</b>	<b>2.3</b>						
tert-Butylbenzene	<0.50	5.6	<0.50	<0.50	<0.23	<0.23	<0.23	<b>0.88</b>	<b>1.1</b>						
Carbon disulfide			<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60						
Carbon tetrachloride	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40						
Chlorobenzene	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30						
Chlorodibromomethane	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26						
Chloroethane	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30						
Chloroform	<0.60	<0.60	<0.50	<0.50	<b>0.3</b>	<b>0.88</b>	<b>0.36</b>	<b>0.93</b>	<b>1.2</b>						
Chloromethane	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	<b>0.93B</b>	<0.40	<0.40						
Dibromomethane	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30						
Dichlorodifluoromethane	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30						
Diisopropyl Ether	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30						
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<b>1.7</b>	<b>0.31</b>						
Hexachlorobutadiene	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40						
Isopropylbenzene	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<b>3</b>	<b>0.96</b>						
p-Isopropyltoluene	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30						
Methyl tert-butyl ether	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30						
Methylene chloride	<1.0	<b>3.1 J,A,B,Q</b>	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40						
Naphthalene	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<b>3.9</b>	<b>2.2</b>	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90
n-Propylbenzene	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<b>3.8</b>	<b>0.81</b>						
Styrene	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30						
Tetrachloroethene	<0.50	<0.50	<0.40	<0.29	<0.40	<0.40	<0.40	<b>0.33</b>	<0.30						
Tetrahydrofuran		0.60	<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0						
Toluene	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30						
Trichloroethene	<b>2.1</b>	<b>&lt;0.15</b>	<b>3.6 M</b>	<b>2.8</b>	<b>2.9</b>	<b>7.7</b>	<b>3.4</b>	<b>8.8</b>	<b>6.5</b>						
Trichlorofluoromethane	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40						
Vinyl acetate			<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0						
Vinyl chloride	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19						
Xylene, o-	<0.60	<0.60	<0.40	<0.9	<0.50	<0.50	<0.50	<b>0.5</b>	<b>3.2</b>		<0.90	<1.0	<1.1	<0.80	<0.80
Xylene, m & p-	<0.50	<0.50	<1.0	<0.60	<0.50	<0.50	<0.50	<b>15</b>	<0.60		<0.50	<0.50	<0.50	<0.40	<0.40
Xylenes, Total				<1.5	<1.0	<1.0	<1.0	<b>15.5</b>	<b>3.2</b>		<1.4	<1.5	<1.6	<1.2	<1.2

Prepared By: T. Dushek, 11/7/17

Checked by: A. Voit, 12/15/17

**NOTES:**

All Units are in ug/L

**B** = Analyte detected in associated Method Blank

**J** = Estimated Value

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W6R

Parameter	07/24/03	07/23/08	7/23/2008 Duplicate	07/14/10	07/25/11	07/09/12	07/08/13	7/8/2013 Duplicate	07/09/14	07/09/15	7/9/2015 Duplicate	07/12/16	07/18/17
1,1,1,2-Tetrachloroethane	<90	<30	<30	<6.0	<2.0								
1,1,1-Trichloroethane	<50	<30	<30	<5.3	<1.5								
1,1,2,2-Tetrachloroethane	<80	<7	<7	<4.8	<1.5								
1,1,2-Trichloroethane	<90	<25	<25	<6.5	<1.5								
1,1-Dichloroethane	<50	<20	<20	<5.0	<1.4								
1,1-Dichloroethene	<40	<20	<20	<6.0	3.9								
1,1-Dichloropropene	<50	<25	<25	<6.0	<2.0								
1,2,3-Trichlorobenzene	<50	<25	<25	<7.5	<2.0								
1,2,3-Trichloropropane	<80	<15	<15	<5.3	<2.0								
1,2,4-Trichlorobenzene	<50	<20	<20	<7.5	<1.5								
1,2,4-Trimethylbenzene	1500	1400	1800	1000	230		200	280	66	49	61	13	1.1
1,2-Dibromo-3-chloropropane	<40	<20	<20	<10	<2.5								
1,2-Dibromoethane	<30	<6.5	<6.5	<4.0	<1.5								
1,2-Dichlorobenzene	<70	<20	<20	<5.8	<2.0								
1,2-Dichloroethane	<90	<15	<15	<7.5	<1.5								
cis-1,2-Dichloroethene	<50	<20	<20	<6.3	<1.5								
trans-1,2-Dichloroethene	<40	<25	<25	<6.3	<1.5								
1,2-Dichloropropane	<40	<11	<11	<5.5	<1.5								
1,3,5-Trimethylbenzene	680	560	720	520	150								
1,3-Dichlorobenzene	<50	<20	<20	<6.5	<1.5								
cis-1,3-Dichloropropene	<60	<7	<7	<4.8	<1.4								
1,3-Dichloropropane	<120	<9.5	<9.5	<5.8	<1.5								
trans-1,3-Dichloropropene	<70	<7	<7	<4.8	<1.5								
1,4-Dichlorobenzene	<50	<25	<25	<5.8	<1.5								
2,2-Dichloropropane	<60	<15	<15	<6.3	<1.4								
2-Butanone (MEK)		<200	<200	<60	<15								
2-Chloroethyl vinyl ether													
2-Chlorotoluene	<60	<15	<15	<5.5	<1.5								
2-Hexanone		<200	<200	<100	<20								
4-Chlorotoluene	<60	<15	<15	<5.3	<1.5								
4-Methyl-2-Pentanone (MIBK)		<150	<150	<75	<15								
Acetone		<350	<350	<130	<25								
Benzene	<40	<8	<8	<4.8	<1.5								
Bromobenzene	<50	<15	<15	<5.0Q	<1.5								
Bromochloromethane	<50	<11	<11	<5.5	<2.0								
Bromodichloromethane	<40	<9.5	<9.5	<5.0	<1.5								
Bromoform	<60	<25	<25	<5.5	<1.2								
Bromomethane	<80	<20	<20	<13	<1.5								
n-Butylbenzene	400	96	130	66	34								
sec-Butylbenzene	<50	55	76	48	20								
tert-Butylbenzene	<50	14	20	<5.0	6.7								
Carbon disulfide		<25	<25	<13	<3.0								
Carbon tetrachloride	<60	<20	<20	<5.8	<2.0								
Chlorobenzene	<80	<15	<15	<6.0	<1.5								
Chlorodibromomethane	<40	<12	<12	<4.8	<1.3								
Chloroethane	<50	<20	<20	<10	<1.5								
Chloroform	<60	<11	<11	<3.8	1.7								

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W6R

Parameter	07/24/03	07/23/08	7/23/2008 Duplicate	07/14/10	07/25/11	07/09/12	07/08/13	7/8/2013 Duplicate	07/09/14	07/09/15	7/9/2015 Duplicate	07/12/16	07/18/17
Chloromethane	<40	<15	<15	<10	<2.0								
Dibromomethane	<50	<20	<20	<6.0	<1.5								
Dichlorodifluoromethane	<50	<20	<20	<6.5	<1.5								
Diisopropyl Ether	<50	<25	<25	<5.0	<1.5								
Ethylbenzene	<50	<14	<14	<b>7.6</b>	<b>5.9</b>								
Hexachlorobutadiene	<50	<30	<30	<7.5	<2.0								
Isopropylbenzene	<50	<b>45</b>	<b>53</b>	<b>8.1</b>	<b>17</b>								
p-Isopropyltoluene	<b>66</b>	<b>76</b>	<b>110</b>	<b>51</b>	<b>27</b>								
Methyl tert-butyl ether	<50	<12	<12	<7.3	<1.5								
Methylene chloride	<100	<25	<25	<b>33</b>	<b>2.3 B</b>								
Naphthalene	<b>200</b>	<b>100</b>	<b>110</b>	<b>96</b>	<b>36</b>	<b>2.1</b>	<b>25</b>	<b>26</b>	<b>11</b>	<b>12</b>	<b>12</b>	<b>1.6</b>	<0.90
n-Propylbenzene	<b>78</b>	<b>74</b>	<b>96</b>	<b>79</b>	<b>28</b>								
Styrene	<50	<15	<15	<5.0	<1.5								
Tetrachloroethene	<50	<20	<20	<b>7.7</b>	<b>4.8</b>								
Tetrahydrofuran		<200	<200	<75	<20								
Toluene	<50	<10	<10	<5.5	<1.5								
Trichloroethene	<60	<7.5	<7.5	<5.3	<b>22</b>								
Trichlorofluoromethane	<40	<20	<20	<5.0	<2.0								
Vinyl acetate		<55	<55	<75	<20								
Vinyl chloride	<30	<7.5	<7.5	<4.5	<0.95								
Xylene, m & p-	<b>82</b>	<b>40</b>	<b>42</b>	<b>22</b>	<b>12</b>		<9.0	<9.0	<b>2.7</b>	<b>5.7</b>	<b>5.7</b>	<b>1.5</b>	<0.80
Xylene, o-	<b>300</b>	<b>190</b>	<b>210</b>	<b>170</b>	<b>93</b>		<b>48</b>	<b>45</b>	<b>40</b>	<b>41</b>	<b>41</b>	<b>9.2</b>	<b>1.5</b>
Xylenes, Total	<b>382</b>	<b>230</b>	<b>252</b>	<b>192</b>	<b>105</b>		<b>48</b>	<b>45</b>	<b>42.7</b>	<b>46.7</b>	<b>46.7</b>	<b>10.7</b>	<b>1.5</b>

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

**A** = Analyte averaged calibration criteria within acceptable limits

**B** = Analyte detected in associated Method Blank

**M** = Matrix spike or matrix spike duplicate outside acceptance limits.

**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W08

Parameter	06/14/92	09/17/92	12/19/92	03/23/93	06/28/93	12/27/93	06/21/94	07/06/95	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00	01/30/01	07/10/01
1,1,1,2-Tetrachloroethane				<1		<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4
1,1,1-Trichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3
1,1,2,2-Tetrachloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4
1,1,2-Trichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2
1,1-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4
1,1-Dichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9
1,1-Dichloropropene				<1		<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4
1,2,3-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5
1,2,3-Trichloropropane				<1		<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3
1,2,4-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5
1,2,4-Trimethylbenzene				<1	<1	<1	<1		<1	<0.7	<0.6	<0.6	<0.2	<0.10	<0.2
1,2-Dibromo-3-chloropropane				<3	<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3
1,2-Dibromoethane				<2	<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3
1,2-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3
1,2-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4
cis-1,2-Dichloroethene				<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4
trans-1,2-Dichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8
1,2-Dichloropropane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3
1,3,5-Trimethylbenzene				<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3	<0.10	<0.3
1,3-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4
cis-1,3-Dichloropropene	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2
1,3-Dichloropropane				<1	<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4
trans-1,3-Dichloropropene	<5	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5
1,4-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4
2,2-Dichloropropane				<1	<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2
2-Butanone (MEK)	<10	<100	<10												
2-Chloroethyl vinyl ether								<10							
2-Chlorotoluene				<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4
2-Hexanone	<10	<100	<10												
4-Chlorotoluene				<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3
4-Methyl-2-Pentanone (MIBK)	<10	<100	<10												
Acetone	<10	<b>1980</b>	<10												
Benzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1
Bromobenzene				<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5
Bromochloromethane				<1		<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4
Bromodichloromethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2

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Parameter	06/14/92	09/17/92	12/19/92	03/23/93	06/28/93	12/27/93	06/21/94	07/06/95	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00	01/30/01	07/10/01	
Bromoform	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	
Bromomethane	<10	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	
n-Butylbenzene				<1	<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4	<0.10	<0.4	
sec-Butylbenzene				<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.20	<0.3	
tert-Butylbenzene				<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	<0.10	<0.1	
Carbon disulfide	<5	<50	<5											<0.10	<0.3	
Carbon tetrachloride	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3			
Chlorobenzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	
Chlorodibromomethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	
Chloroethane	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	
Chloroform	<b>8.76</b>	<50	<5	<b>1.8</b>	<b>1.6</b>	<1	<b>1.3</b>	<1	<1	<b>0.9</b>	<b>1.6</b>	<b>1.6</b>	<0.2	<0.5	<b>1.4</b>	<b>1.6</b>
Chloromethane	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	
Dibromomethane				<1		<1	<1		<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	
Dichlorodifluoromethane				<2	<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	
Diisopropyl Ether					<1							<0.3	<0.1	<0.10	<0.1	
Ethylbenzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	
Hexachlorobutadiene				<1	<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	
Isopropylbenzene				<1	<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	
p-Isopropyltoluene				<1	<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2	<0.10	<0.2	
Methyl tert-butyl ether					<1							<0.2	<1.1	<0.30	<1.1	
Methylene chloride	<5	<b>1210</b>	<10	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	
Naphthalene	<11	<10	<10	<1	<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7	<0.20	<0.7	
n-Propylbenzene				<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	
Styrene	<b>6.24</b>	<50	<5	<1		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	
Tetrachloroethene	<5	<b>7</b>	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	
Tetrahydrofuran																
Toluene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	
Trichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3	<0.20	<0.3	
Trichlorofluoromethane				<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	
Vinyl acetate	<10	<100	<10													
Vinyl chloride	<10	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	
Xylene, m & p-				<2	<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	
Xylene, o-				<1	<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	
Xylenes, Total	<5	<50	<5													

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Parameter	08/05/02	07/22/03	07/12/04	07/19/05	07/18/06	07/09/07	07/22/08	07/06/09	07/13/10	07/18/11	07/06/12	07/01/13	07/07/14	07/06/15	07/05/16	07/10/17
1,1,1,2-Tetrachloroethane	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40						
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29						
1,1,2,2-Tetrachloroethane	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30						
1,1,2-Trichloroethane	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30						
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28						
1,1-Dichloroethene	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29						
1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40						
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40						
1,2,3-Trichloropropane	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40						
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30						
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.20	<0.30	<0.40 MY	<0.60 Y	<0.50	<0.40	<0.40	
1,2-Dibromo-3-chloropropane	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.50						
1,2-Dibromoethane	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30						
1,2-Dichlorobenzene	<0.70	<0.70	<0.70	<0.50	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40						
1,2-Dichloroethane	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30						
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30						
trans-1,2-Dichloroethene	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30						
1,2-Dichloropropane	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29						
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<0.23	<0.30						
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30						
cis-1,3-Dichloropropene	<0.60	<0.60	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28						
1,3-Dichloropropane	<1.2	<1.2	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30						
trans-1,3-Dichloropropene	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30						
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30						
2,2-Dichloropropane	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28						
2-Butanone (MEK)				<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0						
2-Chloroethyl vinyl ether																
2-Chlorotoluene	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30						
2-Hexanone				<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0						
4-Chlorotoluene	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29						
4-Methyl-2-Pentanone (MIBK)				<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0						
Acetone				<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0						
Benzene	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30						
Bromobenzene	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30						
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40						
Bromodichloromethane	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30						

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WAULECO, INC - Wausau Facility  
Well - W08

Parameter	08/05/02	07/22/03	07/12/04	07/19/05	07/18/06	07/09/07	07/22/08	07/06/09	07/13/10	07/18/11	07/06/12	07/01/13	07/07/14	07/06/15	07/05/16	07/10/17
Bromoform	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24						
Bromomethane	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30						
n-Butylbenzene	<0.50	<0.50	14	<0.60	<0.40	<0.24	<0.24	<0.24	<0.23	<0.29						
sec-Butylbenzene	<0.50	<0.50	8	<0.50	<0.50	<0.29	<0.29	<0.29	<0.21	<0.30						
tert-Butylbenzene	<0.50	<0.50	5.6	<0.50	<0.50	<0.23	<0.23	<0.23	<0.20	<0.40						
Carbon disulfide				<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60						
Carbon tetrachloride	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40						
Chlorobenzene	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30						
Chlorodibromomethane	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26						
Chloroethane	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30						
Chloroform	<0.60	<0.60	<0.60	<0.50	<0.50	<0.22	<b>0.26</b>	<0.22	<0.15	<b>0.76</b>						
Chloromethane	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	<b>0.58B</b>	<b>0.5B</b>	<0.40						
Dibromomethane	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30						
Dichlorodifluoromethane	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30						
Diisopropyl Ether	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30						
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29						
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40						
Isopropylbenzene	<0.50	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	<0.30						
p-Isopropyltoluene	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30						
Methyl tert-butyl ether	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30						
Methylene chloride	<1.0	<1.0	3 J, A, B, Q	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40						
Naphthalene	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90
n-Propylbenzene	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30						
Styrene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30						
Tetrachloroethene	<0.50	<0.50	<0.50	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	<0.30						
Tetrahydrofuran			0.60	<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0						
Toluene	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30						
Trichloroethene	<0.60	<0.60	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	<0.40						
Trichlorofluoromethane	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40						
Vinyl acetate				<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0						
Vinyl chloride	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19						
Xylene, m & p-	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60	<0.90 MY	<1.0 Y	<1.1	<0.80	<0.80	<0.80
Xylene, o-	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29	<0.50 MY	<0.50 Y	<0.50	<0.40	<0.40	<0.40
Xylenes, Total					<1.5	<1.0	<1.0	<1.0	<1.0	<0.89	<1.4 MY	<1.5	<1.6	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 11/7/17

Checked by: A. Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.





Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W09

Parameter	12/17/92	06/28/93	12/28/93	06/22/94	07/05/95	07/09/96	07/11/97	06/24/98	06/07/99	07/18/00	01/30/01	07/10/01	08/06/02	07/23/03	07/12/04	07/18/05	07/18/06	07/10/07	07/23/08	07/07/09	07/13/10	07/18/11	07/19/12	07/02/13	07/10/14	07/07/15	07/06/16	07/11/17	
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	<b>1.4</b>	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30							
Methyl tert-butyl ether		<1							<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30							
Methylene chloride	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	J,A,B,Q	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40							
Naphthalene		<1	<1	<b>2.2</b>	<1	<b>3.1</b>	<b>7.7</b>	<b>4.6</b>	<b>1.8</b>	<b>0.81</b>	<0.20	<0.7	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.33	<b>1.2</b>	<b>1.3</b>	<b>1.6</b>	<b>1.8</b>	<0.90	
n-Propylbenzene		<b>1.7</b>	<1	<b>3.2</b>		<b>7.8</b>	<b>12</b>	<b>4.8</b>	<b>0.8</b>	<0.3	<b>1.9</b>	<0.3	<0.50	<b>1.8</b>	<b>1.1</b> J	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.30						
Styrene	<5		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30							
Tetrachloroethene	<5	<1	<1	<1	<b>1.3</b>	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	<0.30							
Tetrahydrofuran																<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0							
Toluene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30							
Trichloroethene	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	<0.40							
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40							
Vinyl acetate	<10															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0							
Vinyl chloride	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<b>0.83</b>	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19							
Xylene, m & p-		<2	<2	<2	<2	<2	<b>1.3</b>	<b>1.8</b>	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60	<0.90	<1.0	<1.1	<0.80	<0.80		
Xylene, o-		<1	<1	<1	<1	<b>1.1</b>	<0.2	<b>1.4</b>	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29	<0.50	<0.50	<0.50	<0.40	<0.40		
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89	<1.4	<1.5	<1.6	<1.2	<1.2		

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.



Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W10A

Parameter	12/18/92	06/30/93	12/28/93	06/22/94	07/06/95	07/09/96	07/11/97	06/24/98	06/08/99	07/17/00	01/30/01	07/10/01	08/06/02	07/23/03	07/14/04	07/20/05	07/19/06	07/10/07	07/23/08	7/23/2008 Duplicate	07/06/09	7/6/2009 Duplicate	07/15/10	07/25/11	7/25/2011 Duplicate	07/09/12	7/9/2012 Duplicate	07/05/13	7/5/2013 Duplicate	07/10/14	07/09/15	7/9/2015 Duplicate	07/12/16	7/12/2016 Duplicate	7/18/2017	7/18/2017 Duplicate			
p-Isopropyltoluene		<1	<1	<b>3.4</b>		<10	<0.4	<b>35</b>	<b>7</b>	<4	<2.0	<b>16 j</b>	<13	<13	<0.50	<0.40	<20 *	<8.5	<8.5	<b>12</b>	<4.3	<4.3	<4.6	<6.0	<6.0														
Methyl tert-butyl ether		<1								<4	<22	<6.0	<28	<13	<13	<0.50	<0.60	<20 *	<12	<12	<12	<5.8	<5.8	<5.8	<6.0	<6.0													
Methylene chloride	<10	<3	<3	<3	<30	<30	<0.3	<0.5	<10	<38	<8.0	<48	<25	<25	<b>4.7 A,B,Q</b>	<0.40	<b>65 Q*</b>	<b>170 A</b>	<25	<25	<13	<13	<b>23</b>	<b>27 B</b>	<b>27 B</b>														
Naphthalene	<b>62.6</b>	<b>70</b>	<b>100</b>	<b>12</b>	<b>110</b>	<b>79.4</b>	<b>66</b>	<b>140</b>	<b>125</b>	<b>130</b>	<b>110</b>	<b>140</b>	<b>120</b>	<b>110</b>	<b>4.4</b>	<b>120 A</b>	<b>77 *</b>	<b>150</b>	<b>180</b>	<b>170</b>	<b>110</b>	<b>130</b>	<b>160</b>	<b>90</b>	<b>100</b>	<b>11 V</b>	<b>11 V</b>	<b>55</b>	<b>57</b>	<b>46</b>	<b>8.6</b>	<b>8.8</b>	<9.0	<9.0	<b>28</b>	<b>33</b>			
n-Propylbenzene		<b>38</b>	<b>57</b>	<1		<b>63.5</b>	<b>34</b>	<b>78</b>	<b>49</b>	<b>54</b>	<b>48</b>	<b>50</b>	<b>59</b>	<b>66</b>	<b>2.4</b>	<b>64</b>	<b>40 *</b>	<b>90</b>	<b>89</b>	<b>87</b>	<b>67</b>	<b>66</b>	<b>93</b>	<b>46</b>	<b>51</b>														
Styrene	<5	<1	<1		<10	<0.2	<0.2	<4	<4	<2.0	<5.0	<13	<13	<0.50	<0.50	<25 *	<15	<15	<15	<15	<7.5	<7.5	<4.0	<6.0	<6.0														
Tetrachloroethene	<5	<1	<b>3.6</b>	<b>2.8</b>	<10	<10	<0.3	<0.6	<12	<8	<2.0	<13	<13	<0.50	<b>1.8</b>	<15 *	<20	<20	<20	<20	<10	<10	<6.0	<6.0	<6.0														
Tetrahydrofuran																<7.0	<350 *	<200	<200	<200	<100	<100	<60	<80	<80														
Toluene	<b>11.3</b>	<b>8.9</b>	<b>12</b>	<b>10</b>	<b>57</b>	<10	<0.2	<b>18</b>	<4	<b>7.1</b>	<4.0	<2.5	<13	<13	<0.50	0.4	<20 *	<10	<10	<10	<5.0	<5.0	<4.4	<6.0	<6.0														
Trichloroethene	<b>31.5</b>	<b>22</b>	<b>30</b>	<b>25</b>	<b>20</b>	<b>25.6</b>	<0.2	<b>35</b>	<6	<6	<b>19</b>	<b>9.4 j</b>	<15	<15	<b>0.67</b>	<b>17</b>	<7.5 *	<b>23</b>	<b>19</b>	<b>29</b>	<b>17</b>	<b>16</b>	<b>21</b>	<b>9</b>	<b>9.7</b>														
Trichlorofluoromethane		<1	<1	<1	<10	<10	<0.5	<0.6	<12	<8	<4.0	<10	<10	<10	<0.40	<0.50	<35 *	<20	<20	<20	<10	<10	<4.0	<8.0	<8.0														
Vinyl acetate	<10															<8.0	<85 *	<55	<55	<55	<28	<28	<60	<80	<80														
Vinyl chloride	<10	<1	<1	<1	<10	<10	<0.3	<0.5	<10	<8	<2.0	<10	<7.5	<7.5	<0.30	<0.12	<7.5 *	<7.5	<7.5	<7.5	<3.8	<3.8	<3.6	<3.8	<3.8														
Xylene, m & p-		<b>65</b>	<b>61</b>	<b>16</b>	<b>300</b>	<b>92.1</b>	<b>20</b>	<b>68</b>	<b>37</b>	<b>49</b>	<b>25</b>	<b>47</b>	<b>55</b>	<b>52</b>	<b>1.8 j</b>	<b>34</b>	<45 *	<b>51</b>	<b>54</b>	<b>58</b>	<b>33</b>	<b>32</b>	<b>41</b>	<b>30</b>	<b>32</b>			<b>25</b>	<b>25</b>	<20	<11	<11	<b>15</b>	<b>16</b>	<b>18</b>	<b>19</b>			
Xylene, o-		<b>180</b>	<b>200</b>	<b>210</b>	<b>350</b>	<b>172.8</b>	<b>80</b>	<b>170</b>	<b>96</b>	<b>110</b>	<b>9.4</b>	<b>140</b>	<b>110</b>	<b>83</b>	<b>3.1</b>	<b>23</b>	<b>32 *</b>	<b>60</b>	<b>88</b>	<b>93</b>	<b>34</b>	<b>28</b>	<b>32</b>	<b>87</b>	<b>94</b>			<b>84</b>	<b>79</b>	<b>58</b>	<b>39</b>	<b>38</b>	<b>28</b>	<b>31</b>	<b>84</b>	<b>100</b>			
Xylenes, Total	<b>252</b>															<b>57</b>	<b>32 *</b>	<b>111</b>	<b>142</b>	<b>151</b>	<b>67</b>	<b>60</b>	<b>185</b>	<b>117</b>	<b>126</b>			<b>109</b>	<b>104</b>	<b>58</b>	<b>39</b>	<b>38</b>	<b>43</b>	<b>47</b>	<b>102</b>	<b>119</b>			

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference

\* = Suspected methylene chloride laboratory contamination.

















Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W13

Parameter	12/19/92	06/30/93	12/27/93	06/22/94	07/06/95	07/10/96	07/11/97	06/24/98	06/09/99	07/18/00	01/31/01	07/10/01	08/06/02	07/23/03	07/14/04	07/20/05	07/18/06	07/10/07	07/24/08	07/06/09	07/13/10	07/19/11	07/06/12	07/10/13	07/16/14	07/08/15	07/11/16	07/20/17	
Toluene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.22	<0.30								
Trichloroethene	<b>10.6</b>	<b>2.3</b>	<b>4.9</b>	<b>3.4</b>	<b>4.6</b>	<b>1.98</b>	<b>3.3</b>	<b>2.95</b>	<b>1.8</b>	<b>1.5</b>	<b>0.72 J</b>	<0.60	<b>0.61</b>	<b>1.1 J</b>	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	<0.40								
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40							
Vinyl acetate	<10														<8.0	<1.7	<1.1	<1.1	<1.1	<1.1	<3.0	<4.0							
Vinyl chloride	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19							
Xylene, m & p-		<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60	<0.90	<1.0	<1.1	<0.80	<0.80		
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89	<1.4	<1.5	<1.6	<1.2	<1.2		

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

**A** = Analyte averaged calibration criteria within acceptable limits

**B** = Analyte detected in associated Method Blank

**M** = Matrix spike or matrix spike duplicate outside acceptance limits.

**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W14

Parameter	12/18/92	06/29/93	12/28/93	06/21/94	07/06/95	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00	01/30/01	07/10/01	08/05/02	07/22/03	07/12/04	07/19/05	07/18/06	07/09/07	07/22/08	07/06/09	07/13/10	07/18/11	07/09/12	07/01/13
1,1,1,2-Tetrachloroethane			<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.60	<0.24	<0.40	
1,1,1-Trichloroethane	<5	<1	<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.60	<0.21	<0.29	
1,1,2,2-Tetrachloroethane	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30	
1,1,2-Trichloroethane	<5	<1	<1	<1	<10	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30	
1,1-Dichloroethane	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28	
1,1-Dichloroethene	<5	<1	<1	<1	<10	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.40	<0.24	<0.29	
1,1-Dichloropropene			<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40	
1,2,3-Trichlorobenzene			<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40	
1,2,3-Trichloropropane			<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40		
1,2,4-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30		
1,2,4-Trimethylbenzene		<1	<1	<1		<1	<0.7	<0.6	<0.6	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.24	<0.20	<0.30	<0.40
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<0.40	<1.1	<0.30	<0.30	<0.40	<0.40	<0.40	<0.50	
1,2-Dibromoethane		<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30		
1,2-Dichlorobenzene		<1	<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40		
1,2-Dichloroethane	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	
cis-1,2-Dichloroethene		<1	<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30	
trans-1,2-Dichloroethene	<5	<1	<1	<1	<10	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30		
1,2-Dichloropropane	<5	<1	<1	<1	<10	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29		
1,3,5-Trimethylbenzene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30	
1,3-Dichlorobenzene		<1	<1	<1	<10	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30	
cis-1,3-Dichloropropene	<5		<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.14	<0.19	<0.28	
1,3-Dichloropropane		<1	<1	<1		<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30	
trans-1,3-Dichloropropene	<5		<1	<1	<10	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30	
1,4-Dichlorobenzene		<1	<1	<1	<10	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.23	<0.30	
2,2-Dichloropropane		<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28		
2-Butanone (MEK)	<10															<7.0	<5.0	<4.0	<4.0	<4.0	<4.0	<2.4	<3.0	
2-Chloroethyl vinyl ether					<100																			
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.22	<0.30	
2-Hexanone	<10															<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
4-Chlorotoluene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.30	<0.21	<0.29	
4-Methyl-2-Pentanone (MIBK)	<10															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Acetone	<b>13.3</b>															<9.0	<10.0	<7.0	<7.0	<7.0	<7.0	<5.0	<5.0	
Benzene	<5	<1	<1	<1	<10	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30		
Bromobenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.30	<0.20	<0.30	
Bromochloromethane			<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40		
Bromodichloromethane	<5	<1	<1	<1	<b>30</b>	<1	<0.2	0.3	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30		





Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W16

Parameter	12/18/92	06/29/93	12/28/93	06/21/94	07/06/95	07/08/96	07/11/97	06/24/98	06/07/99	07/18/00	01/30/01	07/10/01	08/05/02	07/22/03	07/12/04	07/19/05	07/19/06	07/09/07	07/23/08	07/06/09	07/13/10	07/18/11	07/09/12	07/01/13	07/08/14	07/06/15	07/05/16	07/10/17	
Toluene	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30							
Trichloroethene	<5	<b>1.3</b>	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	<b>0.44</b>							
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40							
Vinyl acetate	<10															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0							
Vinyl chloride	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19							
Xylene, m & p-		<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<b>0.9</b>		<0.50	<0.50	<0.50	<0.40	<0.40	
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	<b>0.9</b>		<1.4	<1.5	<1.6	<1.2	<1.2	

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

**A** = Analyte averaged calibration criteria within acceptable limits

**B** = Analyte detected in associated Method Blank

**M** = Matrix spike or matrix spike duplicate outside acceptance limits.

**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.



Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W17

Parameter	07/13/04	07/20/05	07/18/06	07/10/07	07/23/08	07/06/09	7/6/2009 Duplicate	07/15/10	07/19/11	07/06/12	7/6/2012 Duplicate	7/2/2013	7/16/2014	7/9/2015	7/7/2016	7/17/2017
1,1,1,2-Tetrachloroethane	<4.5	<5.0	<0.70	<3.0	<3.0	<3.0	<3.0	<0.24	<0.40							
1,1,1-Trichloroethane	<2.5	<6.0	<0.50	<3.0	<3.0	<3.0	<3.0	<0.21	<0.29							
1,1,2,2-Tetrachloroethane	<4.0	<1.5	<0.13	<0.70	<b>6.7</b>	<0.70	<0.70	<0.19	<0.30							
1,1,2-Trichloroethane	<4.5	<4.0	<0.50	<2.5	<2.5	<2.5	<2.5	<0.26	<0.30							
1,1-Dichloroethane	<2.5	<5.0	<0.40	<2.0	<2.0	<2.0	<2.0	<0.20	<0.28							
1,1-Dichloroethene	<2.0	<5.0	<0.30	<2.0	<2.0	<2.0	<2.0	<0.24	<0.29							
1,1-Dichloropropene	<2.5	<5.0	<0.60	<2.5	<2.5	<2.5	<2.5	<0.24	<0.40							
1,2,3-Trichlorobenzene	<2.5	<6.0	<0.50	<2.5	<2.5	<2.5	<2.5	<0.30	<0.40							
1,2,3-Trichloropropane	<4.0	<6.0	<0.70	<1.5	<1.5	<1.5	<1.5	<0.21	<0.40							
1,2,4-Trichlorobenzene	<2.5	<7.0	<0.70	<2.0	<2.0	<2.0	<2.0	<0.30	<0.30							
1,2,4-Trimethylbenzene	<b>150</b>	<b>200</b>	<b>95</b>	<b>180</b>	<b>190</b>	<b>260</b>	<b>270</b>	<b>92</b>	<b>60</b>			<b>92</b>	<b>78</b>	<b>71</b>	<b>20</b>	<b>29</b>
1,2-Dibromo-3-chloropropane	<2.0	<11.	<0.30	<2.0	<2.0	<2.0	<2.0	<0.40	<0.50							
1,2-Dibromoethane	<1.5	<6.0	<0.50	<0.65	<0.65	<0.65	<0.65	<0.16	<0.30							
1,2-Dichlorobenzene	<3.5	<5.0	<0.50	<2.0	<2.0	<2.0	<2.0	<0.23	<0.40							
1,2-Dichloroethane	<4.5	<5.0	<0.50	<1.5	<1.5	<1.5	<1.5	<0.30	<0.30							
cis-1,2-Dichloroethene	<2.5	<6.0	0.78	<2.0	<2.0	<2.0	<2.0	<0.25	<0.30							
trans-1,2-Dichloroethene	<2.0	<6.0	<0.40	<2.5	<2.5	<2.5	<2.5	<0.25	<0.30							
1,2-Dichloropropane	<2.0	<5.0	<0.50	<1.1	<1.1	<1.1	<1.1	<0.22	<0.29							
1,3,5-Trimethylbenzene	<b>57</b>	<b>72</b>	<b>33</b>	<b>72</b>	<b>79</b>	<b>110</b>	<b>120</b>	<b>39</b>	<b>19</b>							
1,3-Dichlorobenzene	<2.5	<5.0	<0.40	<2.0	<0.95	<2.0	<2.0	<0.26	<0.30							
cis-1,3-Dichloropropene	<3.0	<1.2	<0.15	<0.70	<0.70	<0.70	<0.70	<0.19	<0.28							
1,3-Dichloropropane	<6.0	<6.0	<0.50	<0.95	<0.95	<0.95	<0.95	<0.23	<0.30							
trans-1,3-Dichloropropene	<3.5	<1.4	<0.14	<0.70	<0.70	<0.70	<0.70	<0.19	<0.30							
1,4-Dichlorobenzene	<2.5	<5.0	<0.60	<2.5	<2.5	<2.5	<2.5	<0.23	<0.30							
2,2-Dichloropropane	<3.0	<6.0	<0.60	<1.5	<1.5	<1.5	<1.5	<0.25	<0.28							
2-Butanone (MEK)		<7.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.4	<3.0							
2-Chloroethyl vinyl ether																
2-Chlorotoluene	<3.0	<5.0	<0.50	<1.5	<1.5	<1.5	<1.5	<0.22	<0.30							
2-Hexanone		<7.0	<8.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0							
4-Chlorotoluene	<3.0	<4.0	<0.60	<1.5	<1.5	<1.5	<1.5	<0.21	<0.29							
4-Methyl-2-Pentanone (MIBK)		<7.0	<6.0	<1.5	<1.5	<1.5	<1.5	<3.0	<3.0							
Acetone		<9.0	<b>23</b>	<35	<35	<35	<35	<5.0	<5.0							
Benzene	<2.0	<4.0	<0.40	<0.80	<0.80	<0.80	<0.80	<0.19	<0.30							
Bromobenzene	<2.5	<5.0	<0.60	<1.5	<1.5	<1.5	<1.5	<0.20Q	<0.30							
Bromochloromethane	<2.5	<5.0	<0.70	<1.1	<1.1	<1.1	<1.1	<0.22	<0.40							
Bromodichloromethane	<2.0	<1.3	<0.15	<0.95	<0.95	<0.95	<0.95	<0.20	<0.30							
Bromoform	<3.0	<5.0	<0.21	<2.5	<2.5	<2.5	<2.5	<0.22	<0.24							
Bromomethane	<4.0	<8.0	<0.90	<2.0	<2.0	<2.0	<2.0	<0.50	<0.30							
n-Butylbenzene	<b>78</b>	<b>42</b>	<b>9.1</b>	<b>20</b>	<1.2	<b>37</b>	<b>41</b>	<b>9</b>	<b>4.4</b>							
sec-Butylbenzene	<b>21</b>	<b>16</b>	<b>12</b>	<b>15</b>	<b>15</b>	<b>27</b>	<b>26</b>	<b>8.3</b>	<b>17</b>							
tert-Butylbenzene	<2.5	<b>7.2</b>	<b>4.8</b>	<b>6.8</b>	<b>7.5</b>	<b>8.9</b>	<b>9</b>	<b>4</b>	<b>6.2</b>							
Carbon disulfide		<11.	<1.0	<2.5	<2.5	<2.5	<2.5	<0.50	<0.60							
Carbon tetrachloride	<3.0	<5.0	<0.50	<2.0	<2.0	<2.0	<2.0	<0.23	<0.40							
Chlorobenzene	<4.0	<5.0	<0.40	<1.5	<1.5	<1.5	<1.5	<0.24	<0.30							
Chlorodibromomethane	<2.0	<6.0	<0.60	<1.2	<1.2	<1.2	<1.2	<0.19	<0.26							
Chloroethane	<2.5	<7.0	<0.60	<2.0	<2.0	<2.0	<2.0	<0.40	<0.30							

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W17

Parameter	07/13/04	07/20/05	07/18/06	07/10/07	07/23/08	07/06/09	7/6/2009 Duplicate	07/15/10	07/19/11	07/06/12	7/6/2012 Duplicate	7/2/2013	7/16/2014	7/9/2015	7/7/2016	7/17/2017
Chloroform	<3.0	<5.0	<0.50	<1.1	<1.1	<1.1	<1.1	<0.15	<0.23							
Chloromethane	<2.0	<2.4	<b>0.32</b>	<1.5	<1.5	<1.5	<1.5	<0.40	<0.40							
Dibromomethane	<2.5	<7.0	<0.80	<2.0	<2.0	<2.0	<2.0	<0.24	<0.30							
Dichlorodifluoromethane	<2.5	<6.0	<0.29	<2.0	<2.0	<2.0	<2.0	<0.26	<0.30							
Diisopropyl Ether	<2.5	<5.0	<0.40	<2.5	<2.5	<2.5	<2.5	<0.20	<0.30							
Ethylbenzene	<2.5	<5.0	<0.50	<1.4	<1.4	<1.4	<1.4	<b>2.1</b>	<b>2</b>							
Hexachlorobutadiene	<2.5	<6.0	<0.90	<3.0	<3.0	<3.0	<3.0	<0.30	<0.40							
Isopropylbenzene	<b>4.1 J</b>	<4.0	<b>3.2</b>	<b>3.3</b>	<b>6.4</b>	<b>5</b>	<b>5.4</b>	<b>3.4</b>	<b>8.8</b>							
p-Isopropyltoluene	<b>16</b>	<b>28 A</b>	<b>12</b>	<b>24</b>	<b>21</b>	<b>41</b>	<b>45</b>	<b>7.4</b>	<b>4.2</b>							
Methyl tert-butyl ether	<2.5	<6.0	<0.40	<1.2	<1.2	<1.2	<1.2	<0.29	<0.30							
Methylene chloride	<b>19 J,A,B,Q</b>	<4.0	<1.0	<b>3</b>	<2.5	<2.5	<2.5	<0.40	<0.40							
Naphthalene	<b>16</b>	<6.0	<b>17</b>	<b>13</b>	<b>24</b>	<b>32</b>	<b>38</b>	<b>4.6</b>	<0.40	<0.32	<0.32	<b>19</b>	<b>8.5</b>	<b>6.9</b>	<b>3.4</b>	<b>7.1</b>
n-Propylbenzene	<2.5	<4.0	<b>1.9</b>	<b>2</b>	<b>1.5</b>	<b>4.6</b>	<b>4.9</b>	<b>3.5</b>	<b>4</b>							
Styrene	<2.5	<5.0	<0.50	<1.5	<1.5	<1.5	<1.5	<0.20	<0.30							
Tetrachloroethene	<2.5	<4.0	0.43	<2.0	<2.0	<2.0	<2.0	<b>0.73</b>	<b>0.67</b>							
Tetrahydrofuran		<7.0	<7.0	<20	<20	<20	<20	<3.0	<4.0							
Toluene	<2.5	<4.0	<0.40	<1.0	<1.0	<1.0	<1.0	<0.22	<0.30							
Trichloroethene	<b>11</b>	<b>18</b>	<b>14</b>	<b>10</b>	<b>10</b>	<b>7.6</b>	<b>8.4</b>	<b>1.1</b>	<b>0.75</b>							
Trichlorofluoromethane	<2.0	<5.0	<0.70	<2.0	<2.0	<2.0	<2.0	<0.20	<0.40							
Vinyl acetate		<80.	<1.7	<5.5	<5.5	<5.5	<5.5	<3.0	<4.0							
Vinyl chloride	<1.5	<1.2	<0.15	<0.75	<0.75	<0.75	<0.75	<0.18	<0.19							
Xylene, m & p-	<b>5.2 J</b>	<10.	<b>4.4</b>	<b>4.9</b>	<b>3.7</b>	<b>5</b>	<b>5.8</b>	<b>3.9</b>	<b>2.9</b>			<b>2.8</b>	<2.0	<2.2	<1.6	<0.80
Xylene, o-	<b>27</b>	<b>12</b>	<b>16</b>	<b>17</b>	<b>20</b>	<b>20</b>	<b>21</b>	<b>18</b>	<b>4.4</b>			<b>22</b>	<b>22</b>	<b>8.9</b>	<b>4.1</b>	<b>6.7</b>
Xylenes, Total		<b>12</b>	<b>20.4</b>	<b>21.9</b>	<b>23.7</b>	<b>25</b>	<b>26.8</b>	<b>21.9</b>	<b>7.3</b>			<b>24.8</b>	<b>22</b>	<b>8.9</b>	<b>4.1</b>	<b>6.7</b>

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W18

Parameter	07/08/92	09/17/92	12/17/92	03/23/93	06/29/93	12/28/93	06/22/94	07/05/95	07/09/96	07/11/97	06/24/98	06/08/99	01/31/01	07/11/01	08/06/02	07/23/03
1,1,1,2-Tetrachloroethane				<1		<1	<1		<1	<0.1	<0.3	<0.3	<0.20	<0.4	<0.90	<0.90
1,1,1-Trichloroethane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50
1,1,2,2-Tetrachloroethane	<50	<50	<5	<1	<1	<1	<1	<b>1.3</b>	<1	<0.2	<0.2	<0.2	<0.20	<0.4	<0.80	<0.80
1,1,2-Trichloroethane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90
1,1-Dichloroethane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.4	<0.50	<0.50
1,1-Dichloroethene	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.20	<0.9	<0.40	<0.40
1,1-Dichloropropene				<1		<1	<1		<1	<0.2	<0.3	<0.3	<0.20	<0.4	<0.50	<0.50
1,2,3-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.30	<0.5	<0.50	<0.50
1,2,3-Trichloropropane				<1		<1	<1		<1	<0.3	<0.2	<0.2	<0.10	<0.3	<0.80	<0.80
1,2,4-Trichlorobenzene				<1	<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.30	<0.5	<0.50	<0.50
1,2,4-Trimethylbenzene				<b>600</b>	<b>330</b>	<b>600</b>	<b>480</b>		<b>204.1</b>	<b>380</b>	<b>50</b>	<0.6	<0.10	<0.2	<0.50	<0.50
1,2-Dibromo-3-chloropropane				<3	<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40
1,2-Dibromoethane				<2	<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.10	<0.3	<0.30	<0.30
1,2-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70
1,2-Dichloroethane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.20	<0.4	<0.90	<0.90
cis-1,2-Dichloroethene				<1	<1	<1	<1	<1	<1	<0.2	0.2	0.2	<0.20	<0.4	<0.50	<0.50
trans-1,2-Dichloroethene	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.8	<0.40	<0.40
1,2-Dichloropropane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.20	<0.3	<0.40	<0.40
1,3,5-Trimethylbenzene				<b>3.4</b>	<b>28</b>	<b>11</b>	<b>10</b>		<b>5.4</b>	<0.4	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50
1,3-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50
cis-1,3-Dichloropropene	<50	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.10	<0.2	<0.60	<0.60
1,3-Dichloropropane				<1	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.10	<0.4	<1.2	<1.2
trans-1,3-Dichloropropene	<50	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.5	<0.70	<0.70
1,4-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.10	<0.4	<0.50	<0.50
2,2-Dichloropropane				<1	<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.20	<0.2	<0.60	<0.60
2-Butanone (MEK)	<100	<100	<10													
2-Chloroethyl vinyl ether								<10								
2-Chlorotoluene				<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.10	<0.4	<0.60	<0.60
2-Hexanone	<100	<100	<10													
4-Chlorotoluene				<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60
4-Methyl-2-Pentanone (MIBK)	<100	<100	<10													
Acetone	<100	<b>1950</b>	<b>25</b>													
Benzene	<50	<50	<5	<b>2.1</b>	<b>1.7</b>	<b>3.2</b>	<b>2.3</b>	<1	<1	<0.2	<b>1.1</b>	<0.3	<0.10	<0.1	<0.40	<0.40
Bromobenzene				<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.10	<0.5	<0.50	<0.50
Bromochloromethane				<1		<1	<1		<1	<0.4	<0.2	<0.2	<0.10	<0.4	<0.50	<0.50
Bromodichloromethane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40
Bromoform	<50	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.20	<0.1	<0.60	<0.60
Bromomethane	<100	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.40	<0.4	<0.80	<0.80
n-Butylbenzene				<b>100</b>	<b>40</b>	<b>45</b>	<b>41</b>		<b>27.1</b>	<b>22</b>	<b>6.5</b>	<0.3	<0.10	<0.4	<0.50	<0.50
sec-Butylbenzene				<b>28</b>	<b>14</b>	<b>21</b>	<b>21</b>		<b>16.1</b>	<b>14</b>	<b>10</b>	<b>0.7</b>	<0.20	<0.3	<0.50	<0.50
tert-Butylbenzene				<1	<1	<1	<b>180</b>		<1	<0.3	<b>3.8</b>	<0.3	<0.10	<0.1	<0.50	<0.50
Carbon disulfide	<50	<50	<5													
Carbon tetrachloride	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.10	<0.3	<0.60	<0.60
Chlorobenzene	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80
Chlorodibromomethane	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.20	<0.4	<0.40	<0.40
Chloroethane	<100	<100	<10	<2	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.40	<0.5	<0.50	<0.50
Chloroform	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.5	<0.60	<0.60
Chloromethane	<100	<100	<10	<2	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.20	<0.3	<0.40	<0.40
Dibromomethane				<1		<1	<1		<1	<0.1	<0.2	<0.2	<0.20	<0.4	<0.50	<0.50
Dichlorodifluoromethane				<2	<5	<2	<2		<2	<0.3	<1.2	<1.2	<0.10	<0.5	<0.50	<0.50

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W18

Parameter	07/08/92	09/17/92	12/17/92	03/23/93	06/29/93	12/28/93	06/22/94	07/05/95	07/09/96	07/11/97	06/24/98	06/08/99	01/31/01	07/11/01	08/06/02	07/23/03
Diisopropyl Ether					<1							<0.3	<0.10	<0.1	<0.50	<0.50
Ethylbenzene	<50	<50	29.8	21	18	34	20	8.3	8.3	<0.2	1.6	<0.2	<0.10	<0.1	<0.50	<0.50
Hexachlorobutadiene				<1	<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50
Isopropylbenzene				36	19	33	28		15.1	16	6.6	<0.2	<0.10	<0.1	<0.50	<0.50
p-Isopropyltoluene				<1	5.7	<1	1.8		<1	<0.4	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50
Methyl tert-butyl ether					<1							<0.2	<0.30	<1.1	<0.50	<0.50
Methylene chloride	742	644	<10	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<0.40	<1.9	<1.0	<1.0
Naphthalene	44	46.3	59.3	100	70	90	18	75	68.1	54	70	<1.1	<0.20	<0.7	<0.50	<0.50
n-Propylbenzene				33	30	54	40		20.2	26	7.2	<0.2	<0.10	<0.3	<0.50	<0.50
Styrene	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50
Tetrachloroethene	<50	<50	<5	<1	<1	2.5	2.2	<1	1.3	<0.3	2	<0.6	<0.10	<0.4	<0.50	<0.50
Tetrahydrofuran																
Toluene	<50	<50	6.47	<1	4.1	3.3	1.3	1.2	<1	<0.2	<0.2	<0.2	<0.20	<0.1	<0.50	<0.50
Trichloroethene	<50	<50	<5	6.3	4.3	7.4	4.4	2.8	2.9	<0.2	2.3	<0.3	<0.20	<0.3	<0.60	<0.60
Trichlorofluoromethane				<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.20	<0.4	<0.40	<0.40
Vinyl acetate	<100	<100	<10													
Vinyl chloride	<100	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.10	<0.4	<0.30	<0.30
Xylene, m & p-				19	34	39	32	12	10.7	<0.4	3.2	<0.3	<0.20	<0.2	<0.60	<0.60
Xylene, o-				160	120	170	16	29	34.5	54	4.8	<0.5	<0.10	<0.1	<0.50	<0.50
Xylenes, Total	123	122	195													

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W18

Parameter	07/12/04	07/18/05	07/18/06	07/10/07	07/23/08	07/07/09	07/13/10	07/19/11	07/19/12	07/02/13	07/10/14	07/07/15	07/06/16	07/11/17
1,1,1,2-Tetrachloroethane	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40						
1,1,1-Trichloroethane	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29						
1,1,2,2-Tetrachloroethane	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30						
1,1,2-Trichloroethane	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30						
1,1-Dichloroethane	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28						
1,1-Dichloroethene	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29						
1,1-Dichloropropene	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40						
1,2,3-Trichlorobenzene	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40						
1,2,3-Trichloropropane	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40						
1,2,4-Trichlorobenzene	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30						
1,2,4-Trimethylbenzene	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.20	<0.30		<0.40	<0.60	<0.50	<0.40	<0.40
1,2-Dibromo-3-chloropropane	<0.40	<1.1	<0.30	<0.40	<0.40M	<0.40	<0.40	<0.50						
1,2-Dibromoethane	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30						
1,2-Dichlorobenzene	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40						
1,2-Dichloroethane	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30						
cis-1,2-Dichloroethene	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30						
trans-1,2-Dichloroethene	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30						
1,2-Dichloropropane	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29						
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.40	<0.19	<0.19	<0.19	<0.23	<0.30						
1,3-Dichlorobenzene	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30						
cis-1,3-Dichloropropene	<0.60	<0.12	<0.15	<0.14	<0.14	<0.14	<0.19	<0.28						
1,3-Dichloropropane	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30						
trans-1,3-Dichloropropene	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30						
1,4-Dichlorobenzene	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30						
2,2-Dichloropropane	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28						
2-Butanone (MEK)		<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0						
2-Chloroethyl vinyl ether														
2-Chlorotoluene	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30						
2-Hexanone		<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0						
4-Chlorotoluene	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29						
4-Methyl-2-Pentanone (MIBK)		<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0						
Acetone		<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0						
Benzene	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30						
Bromobenzene	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30						
Bromochloromethane	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40						
Bromodichloromethane	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30						
Bromoform	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24						
Bromomethane	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30						
n-Butylbenzene	<0.50	14	<0.40	<0.24	<0.24	<0.24	<0.23	<b>0.41</b>						
sec-Butylbenzene	<0.50	8	<0.50	<0.29	<0.29	<0.29	<0.21	<b>17</b>						
tert-Butylbenzene	<0.50	5.6	<0.50	<0.23	<0.23	<0.23	<0.20	<b>5.7</b>						
Carbon disulfide		<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60						
Carbon tetrachloride	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40						
Chlorobenzene	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30						
Chlorodibromomethane	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26						
Chloroethane	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30						
Chloroform	<0.60	<0.50	<0.50	<0.22	<0.22	<0.22	<0.15	<0.23						
Chloromethane	<0.40	<0.24	<0.30	<0.30	<0.30	<b>1.1AB</b>	<0.40	<0.40						
Dibromomethane	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30						
Dichlorodifluoromethane	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30						

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W18

Parameter	07/12/04	07/18/05	07/18/06	07/10/07	07/23/08	07/07/09	07/13/10	07/19/11	07/19/12	07/02/13	07/10/14	07/07/15	07/06/16	07/11/17
Diisopropyl Ether	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30						
Ethylbenzene	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29						
Hexachlorobutadiene	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40						
Isopropylbenzene	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	<0.30						
p-Isopropyltoluene	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30						
Methyl tert-butyl ether	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30						
Methylene chloride	<b>3.1 J,A,B,Q</b>	<0.40	<1.0	<0.50	<0.50	<0.50	<b>0.4</b>	<0.40						
Naphthalene	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90
n-Propylbenzene	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30						
Styrene	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30						
Tetrachloroethene	<0.50	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	<b>0.44</b>						
Tetrahydrofuran		0.60	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0						
Toluene	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30						
Trichloroethene	<0.60	<b>&lt;0.15</b>	<b>0.47</b>	<b>0.31</b>	<0.15	<b>0.37</b>	<b>0.28</b>	<0.40						
Trichlorofluoromethane	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40						
Vinyl acetate		<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0						
Vinyl chloride	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19						
Xylene, m & p-	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60	<0.90	<1.0	<1.1	<0.80	<0.80	<0.80
Xylene, o-	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40
Xylenes, Total			<1.5	<1.0	<1.0	<1.0	<1.0	<0.89	<1.4	<1.5	<1.6	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 11/7/17

Checked by: A. Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

**A** = Analyte averaged calibration criteria within acceptable limits

**B** = Analyte detected in associated Method Blank

**M** = Matrix spike or matrix spike duplicate outside acceptance limits.

**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W19

Parameter	07/11/01	07/22/03	07/13/04	07/20/05	07/20/06	07/11/07	7/11/2007 Duplicate	07/24/08	07/07/09	07/14/10	07/19/11	07/06/12	07/01/13	07/08/14	07/08/15	07/07/16	07/17/17
1,1,1,2-Tetrachloroethane	<4.0	<0.9	<1.8	<0.50	<0.70	<0.60	<0.60	<0.60	<0.60	<0.60	<0.24	<0.40					
1,1,1-Trichloroethane	<3.0	<0.5	<1.0	<0.60	<0.50	<0.60	<0.60	<0.60	<0.60	<0.21	<0.29						
1,1,2,2-Tetrachloroethane	<4.0	<0.8	<1.6	<0.15	<0.13	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30						
1,1,2-Trichloroethane	<2.0	<0.9	<1.8	<0.40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30						
1,1-Dichloroethane	<4.0	<0.5	<1.0	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28						
1,1-Dichloroethene	<9.0	<0.4	<0.80	<0.50	<0.30	<0.40	<0.40	<0.40	<0.40	<0.24	<0.29						
1,1-Dichloropropene	<4.0	<0.5	<1.0	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.24	<0.40						
1,2,3-Trichlorobenzene	<5.0	<0.5	<1.0	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40						
1,2,3-Trichloropropane	<3.0	<0.8	<1.6	<0.60	<0.70	<0.30	<0.30	<0.30	<0.30	<0.21	<0.40						
1,2,4-Trichlorobenzene	<5.0	<0.5	<1.0	<0.70	<0.70	<0.40	<0.40	<0.40	<0.40	<0.30	<0.30						
1,2,4-Trimethylbenzene	<b>310</b>	<b>10</b>	<b>26</b>	<b>1.9</b>	<b>2.9</b>	<b>13</b>	<b>13</b>	<b>6.3</b>	<b>7.8</b>	<b>5.7</b>	<b>11</b>		<b>10</b>	<b>20</b>	<b>12</b>	<b>52</b>	<b>3.1</b>
1,2-Dibromo-3-chloropropane	<3.0	<0.4	<0.80	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50						
1,2-Dibromoethane	<3.0	<0.3	<0.60	<0.60	<0.50	<0.13	<0.13	<0.13	<0.13	<0.16	<0.30						
1,2-Dichlorobenzene	<3.0	<0.7	<1.4	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40						
1,2-Dichloroethane	<4.0	<0.9	<1.8	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30						
cis-1,2-Dichloroethene	<4.0	<0.5	<1.0	<0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30						
trans-1,2-Dichloroethene	<8.0	<0.4	<0.80	<0.60	<0.40	<0.50	<0.50	<0.50	<0.50	<0.25	<0.30						
1,2-Dichloropropane	<3.0	<0.4	<0.80	<0.50	<0.50	<0.21	<0.21	<0.21	<0.21	<0.22	<0.29						
1,3,5-Trimethylbenzene	<b>140</b>	<b>9.9</b>	<b>17</b>	<b>1.5</b>	<b>3.8</b>	<b>6.6</b>	<b>7</b>	<b>2.7</b>	<b>3.8</b>	<b>3.4</b>	<b>5.1</b>						
1,3-Dichlorobenzene	<4.0	<0.5	<1.0	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30						
cis-1,3-Dichloropropene	<2.0	<0.6	<1.2	<0.12	<0.15	<0.14	<0.14	<0.14	<0.14	<0.19	<0.28						
1,3-Dichloropropane	<4.0	<1.2	<1.4	<0.60	<0.50	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30						
trans-1,3-Dichloropropene	<5.0	<0.7	<2.4	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30						
1,4-Dichlorobenzene	<4.0	<0.5	<1.0	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.23	<0.30						
2,2-Dichloropropane	<2.0	<0.6	<1.2	<0.60	<0.60	<0.30	<0.30	<0.30	<0.30	<0.25	<0.28						
2-Butanone (MEK)				<7.0	<b>7.8</b>	<b>11</b>	<b>9.9</b>	<4.0	<4.0	<2.4	<3.0						
2-Chlorethyl vinyl ether																	
2-Chlorotoluene	<4.0	<0.6	<1.2	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.22	<0.30						
2-Hexanone				<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0						
4-Chlorotoluene	<3.0	<0.6	<1.2	<0.40	<0.60	<0.30	<0.30	<0.30	<0.30	<0.21	<0.29						
4-Methyl-2-Pentanone (MIBK)				<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0						
Acetone				<9.0	<10.0	<7.0	<7.0	<7.0	<7.0	<5.0	<5.0						
Benzene	<1.0	<0.40	<0.80	<0.40	<0.40	<0.16	<0.16	<0.16	<0.16	<0.16	<0.19	<0.30					
Bromobenzene	<5.0	<0.5	<1.0	<0.50	<0.60	<0.30	<0.30	<0.30	<0.30	<0.30	<0.20Q	<0.30					
Bromochloromethane	<4.0	<0.5	<1.0	<0.50	<0.70	<0.21	<0.21	<0.21	<0.21	<0.22	<0.40						
Bromodichloromethane	<2.0	<0.4	<0.80	<0.13	<0.15	<0.19	<0.19	<0.19	<0.19	<0.19	<0.30						
Bromoform	<1.0	<0.6	<1.2	<0.50	<0.21	<0.50	<0.50	<0.50	<0.50	<0.22	<0.24						
Bromomethane	<4.0	<0.8	<1.6	<0.80	<0.90	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30						
n-Butylbenzene	<b>180</b>	<b>15</b>	<b>26</b>	<0.60	<b>2.9</b>	<b>2</b>	<b>2.3</b>	<b>1</b>	<b>1.3</b>	<b>0.37</b>	<b>1.3</b>						
sec-Butylbenzene	<b>29</b>	<b>6.7</b>	<b>4.6</b>	<b>1.4</b>	<b>3.5</b>	<b>2.9</b>	<b>3</b>	<b>3.8</b>	<b>1.7</b>	<b>2.4</b>	<b>2.5</b>						
tert-Butylbenzene	<1.0	<b>9.0</b>	<b>5.3</b>	<0.50	<b>1.3</b>	<b>1.1</b>	<b>1.1</b>	<b>1.1</b>	<b>0.62</b>	<b>0.39</b>	<b>1.1</b>						
Carbon disulfide				<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60						
Carbon tetrachloride	<3.0	<0.6	<1.2	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40						
Chlorobenzene	<3.0	<0.8	<1.6	<0.50	<0.40	<0.30	<0.30	<0.30	<0.30	<0.24	<0.30						
Chlorodibromomethane	<4.0	<0.4	<0.80	<0.60	<0.60	<0.23	<0.23	<0.23	<0.23	<0.19	<0.26						
Chloroethane	<5.0	<b>1.8</b>	<1.0	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.30						
Chloroform	<5.0	<b>2.0</b>	<b>1.4 J</b>	<b>1.4</b>	<b>1.1</b>	<b>0.5</b>	<b>0.55</b>	<b>0.39</b>	<b>0.31</b>	<b>0.3</b>	<0.23						
Chloromethane	<3.0	<0.4	<0.80	<0.24	<0.30	<0.30	<0.30	<0.30	<b>0.92AB</b>	<0.40	<0.40						
Dibromomethane	<4.0	<0.5	<1.0	<0.70	<0.80	<0.40	<0.40	<0.40	<0.40	<0.24	<0.30						

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W19

Parameter	07/11/01	07/22/03	07/13/04	07/20/05	07/20/06	07/11/07	7/11/2007 Duplicate	07/24/08	07/07/09	07/14/10	07/19/11	07/06/12	07/01/13	07/08/14	07/08/15	07/07/16	07/17/17
Dichlorodifluoromethane	<5.0	<0.5	<1.0	<0.60	<0.29	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30						
Diisopropyl ether	<1.0	<0.5	<1.0	<0.50	<0.40	<0.50	<0.50	<0.50	<0.50	<0.20	<0.30						
Ethylbenzene	<1.0	<0.5	<1.0	<0.50	<0.50	<b>0.33</b>	<b>0.34</b>	<0.28	<0.28	<b>0.29</b>	<0.29						
Hexachlorobutadiene	<6.0	<0.5	<1.0 <b>M</b>	<0.60	<0.90	<0.60	<0.60	<0.60	<0.60	<0.30	<0.40						
Isopropylbenzene	<b>24</b>	<b>7.5</b>	<b>4.7</b>	<b>0.62</b>	<b>0.77</b>	<b>2</b>	<b>2</b>	<b>1.8</b>	<b>1.1</b>	<b>1.4</b>	<b>2.8</b>						
p-Isopropyltoluene	<b>29</b>	<b>8.2</b>	<b>7.5</b>	<b>0.55</b>	<b>2.5</b>	<b>2.4</b>	<b>2.8</b>	<b>1.2</b>	<b>1.2</b>	<0.23	<b>0.78</b>						
Methyl tert-butyl ether	<11	<0.5	<1.0	<0.60	<0.40	<0.23	<0.23	<0.23	<0.23	<0.29	<0.30						
Methylene chloride	<19	<1.0	<b>7.3 A,B,Q</b>	<0.40	<1.0	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40						
Naphthalene	<b>27</b>	<b>2.4</b>	<b>2.2 J</b>	<0.60	<0.70	<b>1.4</b>	<b>1.4</b>	<b>0.85</b>	<b>1.4</b>	<0.40	<b>1.8</b>	<0.32	<b>2.3</b>	<b>2.2</b>	<b>1.8</b>	<b>3.5</b>	<b>0.98</b>
n-Propylbenzene	<b>56.0</b>	<b>7.2</b>	<b>5.6</b>	<b>1.1</b>	<b>1.2</b>	<b>3.2</b>	<b>3.3</b>	<b>2</b>	<b>1.8</b>	<b>2.8</b>	<b>3.9</b>						
Styrene	<2.0	<b>16</b>	<b>15</b>	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.20	<0.30						
Tetrachloroethene	<4.0	<b>2.8</b>	<b>2.3 J</b>	<0.40	<b>0.29</b>	<0.40	<0.40	<0.40	<b>0.45</b>	<0.30	<b>0.38</b>						
Tetrahydrofuran				<7.0	<7.0	<4.0	<4.0	<4.0	<4.0	<3.0	<4.0						
Toluene	<1.0	<0.5	<1.0	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.22	<0.30						
Trichloroethene	<3.0	<b>0.63</b>	<1.2	<b>0.8</b>	<b>0.43</b>	<b>0.33</b>	<b>0.31</b>	<b>0.33</b>	<b>0.25</b>	<b>0.68</b>	<0.40						
Trichlorofluoromethane	<4.0	<0.4	<0.80	<0.50	<0.70	<0.40	<0.40	<0.40	<0.40	<0.20	<0.40						
Vinyl acetate				<8.0	<1.7	<1.1	<1.1	<1.1	<1.1	<3.0	<4.0						
Vinyl chloride	<4.0	<0.3	<0.60	<0.12	<0.15	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19						
m & p-Xylene	<b>5.6</b>	<b>2.6</b>	<b>1.8 J</b>	<1.0	<0.9	<b>0.61</b>	<b>0.62</b>	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<b>2.9</b>	<0.80
o-Xylene	<b>23</b>	<b>5.0</b>	<1.0	<b>0.86</b>	<0.60	<b>2.4</b>	<b>2.6</b>	<b>1.7</b>	<b>1.6</b>	<b>10</b>	<b>7.4</b>		<b>4.2</b>	<b>6.9</b>	<b>4.8</b>	<b>12</b>	<b>1.8</b>
Xylenes, Total				<b>0.86</b>	<1.5	<b>3.01</b>	<b>3.22</b>	<b>1.7</b>	<b>1.6</b>	<b>10</b>	<b>7.4</b>		<b>4.2</b>	<b>6.9</b>	<b>4.8</b>	<b>14.9</b>	<b>1.8</b>

Prepared By: T. Dushak, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L.

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.





Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W21

Parameter	12/18/92	06/29/93	12/28/93	06/22/94	07/06/95	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00	01/30/01	07/10/01	08/05/02	07/22/03	07/13/04	07/19/05	07/18/06	07/09/07	07/22/08	07/07/09	07/14/10	07/18/11	07/09/12	07/01/13	07/08/14	07/07/15	07/05/16	07/10/17	
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40							
Vinyl acetate	<10															<8.0	<1.7	<1.1	<1.1	<1.1	<1.1	<3.0	<4.0						
Vinyl chloride	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19						
Xylene, m & p-		<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50	<0.50	<0.50	<0.40	<0.40	
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.5	<1.6	<1.2	<1.2	

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

**A** = Analyte averaged calibration criteria within acceptable limits

**B** = Analyte detected in associated Method Blank

**M** = Matrix spike or matrix spike duplicate outside acceptance limits.

**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.



Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W22

Parameter	06/14/92	09/17/92	12/18/92	03/24/93	06/30/93	12/28/93	06/22/94	07/06/95	07/10/96	07/11/97	06/24/98	08/07/02	07/21/05	07/20/06	07/11/07	07/24/08	07/07/09	07/15/10	7/15/2010 Duplicate	07/19/11	07/10/12	07/08/13	07/08/14	07/09/15	07/11/16	07/18/17
Isopropylbenzene				<b>100</b>	<b>3.3</b>	<b>63</b>	<b>50</b>		<b>15</b>	<b>14</b>	<b>62</b>	<b>130</b>	<b>42</b>	<b>23 *</b>	<b>25</b>	<b>40</b>	<b>31</b>	<b>3.3</b>	<b>1.9</b>	<b>9.9</b>						
p-Isopropyltoluene				<10	<1	<b>28</b>	<b>58</b>		<b>13</b>	<0.4	<b>45</b>	<b>180</b>	<b>170 A</b>	<b>5 *</b>	<b>12</b>	<b>9.2</b>	<b>8.1</b>	<b>29</b>	<b>24</b>	<b>11</b>						
Methyl tert-butyl ether					<1							<13	<12.0	<2.0 *	<1.2	<1.2	<2.3	<0.29	<0.29	<0.30						
Methylene chloride	<5	<b>946</b>	<b>142</b>	<30	<3	<3	<3	<60	<15	<0.3	<0.5	<25	<8.0	<b>15 Q*</b>	<2.5	<2.5	<5	<0.40	<0.40	<b>1.2 B</b>						
Naphthalene	<b>122</b>	<10	<b>108</b>	<b>260</b>	<1	<b>140</b>	<b>110</b>	<b>130</b>	<b>70</b>	<b>70</b>	<b>110</b>	<b>95</b>	<b>51</b>	<b>82 *</b>	<b>26</b>	<b>47</b>	<b>64</b>	<b>1.7</b>	<b>1.4</b>	<b>2.8</b>	<b>22</b>	<b>97</b>	<b>36</b>	<b>36</b>	<b>45</b>	<b>47</b>
n-Propylbenzene				<b>120</b>	<b>1.6</b>	<b>120</b>	<b>120</b>		<b>25</b>	<b>28</b>	<b>92</b>	<b>120</b>	<b>98</b>	<b>11 *</b>	<b>17</b>	<b>30</b>	<b>28</b>	<b>14</b>	<b>10</b>	<b>8.8</b>						
Styrene	<5	<50	<50	<10	<1	<25			<5	<0.2	<0.2	<b>440</b>	<10.0	<2.5 *	<1.5	<1.5	<3	<0.20	<0.20	<0.30						
Tetrachloroethene	<5	<50	<50	<10	<1	<b>3.9</b>	<b>4</b>	<20	<5	<0.3	<0.6	<b>69</b>	<8.0	<1.5 *	<2.0	<2.0	<4	<0.30	<0.30	<0.30						
Tetrahydrofuran												<140	<35 *	<20	<20	<40	<3.0	<3.0	<4.0							
Toluene	<b>100</b>	<50	<b>114</b>	<b>140</b>	<1	<b>90</b>	<b>55</b>	<20	<b>6</b>	<0.2	<b>25</b>	<b>20</b>	<8.0	<b>2.8 *</b>	<b>1.8</b>	<b>8</b>	<b>4.9</b>	<0.22	<0.22	<0.30						
Trichloroethene	<b>72</b>	<50	<b>92</b>	<b>85</b>	<1	<b>71</b>	<b>28</b>	<20	<b>15</b>	<b>24</b>	<b>32</b>	<15	<b>13</b>	<b>14 *</b>	<b>5.7</b>	<b>7</b>	<b>10</b>	<0.21	<0.21	<0.40						
Trichlorofluoromethane				<10	<1	<1	<1	<20	<5	<0.5	<0.6	<10	<10.0	<3.5 *	<2.0	<2.0	<4	<0.20	<0.20	<0.40						
Vinyl acetate	<10	<100	<100									<160	<8.5 *	<5.5	<5.5	<11	<3.0	<3.0	<4.0							
Vinyl chloride	<10	<100	<100	<10	<1	<1	<1	<20	<5	<0.3	<0.5	<7.5	<2.4	<0.75 *	<0.75	<0.75	<1.5	<0.18	<0.18	<0.19						
Xylene, m & p-				<b>700</b>	<2	<b>440</b>	<b>350</b>	<b>110</b>	<b>22</b>	<b>20</b>	<b>80</b>	<b>82</b>	<b>23</b>	<b>9.5 *</b>	<b>15</b>	<b>41</b>	<b>27</b>	<b>4.3</b>	<b>3.1</b>	<b>3</b>		<b>38</b>	<b>11</b>	<b>13</b>	<b>26</b>	<b>12</b>
Xylene, o-				<b>640</b>	<b>2.3</b>	<b>590</b>	<b>400</b>	<b>260</b>	<b>61</b>	<b>190</b>	<b>250</b>	<13	<b>89</b>	<b>110 *</b>	<b>80</b>	<b>150</b>	<b>120</b>	<b>4.7</b>	<b>3.5</b>	<b>3.2</b>		<b>170</b>	<b>65</b>	<b>97</b>	<b>89</b>	<b>58</b>
Xylenes, Total	<b>472</b>	<50	<b>871</b>										<b>112</b>	<b>119.5 *</b>	<b>95</b>	<b>191</b>	<b>147</b>	<b>9</b>	<b>6.6</b>	<b>6.2</b>		<b>208</b>	<b>76</b>	<b>110</b>	<b>115</b>	<b>70</b>

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

**A** = Analyte averaged calibration criteria within acceptable limits

**B** = Analyte detected in associated Method Blank

**M** = Matrix spike or matrix spike duplicate outside acceptance limits.

**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W25

Parameter	02/19/92	09/17/92	12/17/92	03/23/93	06/28/93	12/28/93	06/21/94	07/05/95	07/11/97	06/23/98	06/09/99	07/18/00	01/30/01	07/10/01	08/06/02	07/22/03	07/13/04	07/20/05	7/20/2005 duplicate	
1,1,1,2-Tetrachloroethane				<1		<1	<1		<0.1	<0.3	<1.5	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	
1,1,1-Trichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.60	
1,1,2,2-Tetrachloroethane	<5	<50	<5	<1	<1	<1	<1	<b>55</b>	<0.2	<0.2	<1	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.15	
1,1,2-Trichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<1	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.40	
1,1-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<1	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50	
1,1-Dichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<1	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.50	
1,1-Dichloropropene				<1	<1	<1	<1		<0.2	<0.3	<1.5	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50	
1,2,3-Trichlorobenzene				<1	<1	<1	<1		<0.5	<0.4	<2	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.60	
1,2,3-Trichloropropane				<1	<1	<1	<1		<0.3	<0.2	<1	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.60	
1,2,4-Trichlorobenzene				<1	<1	<1	<1		<0.5	<0.3	<1.5	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	
1,2,4-Trimethylbenzene				<b>8.8</b>	<b>5.2</b>	<b>5.2</b>	<b>47</b>		<b>7</b>	<b>58</b>	<b>28</b>	<b>37</b>	<b>1.8</b>	<b>32</b>	<0.50	<0.50	<b>0.73 J</b>	<b>40</b>	<b>22</b>	
1,2-Dibromo-3-chloropropane				<3	<3	<3	<3		<0.3	<0.3	<1.5	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<1.1	
1,2-Dibromoethane				<2	<2	<2	<2		<0.2	<0.4	<2	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.60	
1,2-Dichlorobenzene				<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	
1,2-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<1	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	
cis-1,2-Dichloroethene				<b>44</b>	<1	<b>17</b>	<b>3</b>	<1	<b>8</b>	<b>18</b>	<b>14</b>	<b>7.7</b>	<b>8.6</b>	<b>2.2</b>	<b>2.3</b>	<b>2.8</b>	<0.50	<b>1.8</b>	<b>1.4</b>	
trans-1,2-Dichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<1.5	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.60	
1,2-Dichloropropane	<5	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<1	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	
1,3,5-Trimethylbenzene				<b>2.6</b>	<b>3.7</b>	<1	<b>12</b>		<b>2.8</b>	<b>20</b>	<b>12</b>	<b>15</b>	<b>0.60</b>	<b>13</b>	<b>1.4</b>	<b>1.5</b>	<0.50	<b>14</b>	<b>6.9</b>	
1,3-Dichlorobenzene				<1	<1	<1	<1	<1	<0.7	<0.4	<2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50	
cis-1,3-Dichloropropene	<5	<50	<5	<1		<1	<1	<1	<0.3	<0.3	<1.5	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.12	
1,3-Dichloropropane				<1	<1	<1	<1	<1	<0.3	<0.6	<3	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.60	
trans-1,3-Dichloropropene	<5	<50	<5	<1		<1	<1	<1	<0.2	<0.2	<1	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	
1,4-Dichlorobenzene				<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50	
2,2-Dichloropropane				<1	<1	<1	<1		<0.2	<0.5	<2.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	
2-Butanone (MEK)	<10	<100	<10																<7.0	<7.0
2-Chloroethyl vinyl ether								<10												
2-Chlorotoluene				<1	<1	<1	<1		<0.4	<0.3	<1.5	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	
2-Hexanone	<10	<100	<10																<7.0	<7.0
4-Chlorotoluene				<1	<1	<1	<1		<0.3	<0.3	<1.5	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.40	
4-Methyl-2-Pentanone (MIBK)	<10	<100	<10																<7.0	<7.0
Acetone	<10	<b>108</b>	<b>13.1</b>																<9.0	<9.0
Benzene	<5	<50	<5	<1	<1	<1	<1	<1	<0.2	<b>2</b>	<1.5	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	
Bromobenzene				<1	<1	<1	<1		<0.3	<0.2	<1	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	
Bromochloromethane				<1		<1	<1		<0.4	<0.2	<1	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50	
Bromodichloromethane	<5	<50	<5	<b>5.4</b>	<1	<1	<1	<1	<0.2	<0.2	<1	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.13	<0.13	
Bromoform	<5	<50	<5	<1		<1	<1	<1	<0.3	<0.2	<1	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.50	
Bromomethane	<10	<100	<10	<2		<2	<2	<2	<0.3	<0.9	<4.5	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.80	

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W25

Parameter	02/19/92	09/17/92	12/17/92	03/23/93	06/28/93	12/28/93	06/21/94	07/05/95	07/11/97	06/23/98	06/09/99	07/18/00	01/30/01	07/10/01	08/06/02	07/22/03	07/13/04	07/20/05	7/20/2005 duplicate	
n-Butylbenzene				6.8	3.8	2	6		<0.6	6.2	7.5	6.9	0.11	4.5	0.98	0.66	<0.50	2.8 A	14	
sec-Butylbenzene				1.9	2.6	<1	9.3		<0.3	6.8	5.5	4.5	0.39	2.5	0.8	<0.5	<0.50	2.8	8	
tert-Butylbenzene				<1	<1	<1	<1		<0.3	26	<1.5	<0.1	0.12	<0.1	2.8	<0.5	<0.50	0.83	5.6	
Carbon disulfide	<5	<50	<5																<1.1	<1.1
Carbon tetrachloride	<5	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<2	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.60	<0.50	<0.50
Chlorobenzene	<5	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.80	<0.50	<0.50
Chlorodibromomethane	<5	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<1.5	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.40	<0.60	<0.60
Chloroethane	<10	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<4	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.50	<0.70	<0.70
Chloroform	<5	<50	<5	2.3	<1	<1	<1	<1	<0.2	<0.2	<1	<0.5	1.1	<0.5	<0.60	<0.60	<0.60	<0.60	0.62	0.58
Chloromethane	<10	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<4.5	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.40	<0.24	<0.24
Dibromomethane	<1			<1	<1	<1	<1	<1	<0.1	<0.2	<1	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.70
Dichlorodifluoromethane				<2	<2	<2	<2		<0.3	<1.2	<6	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60
Diisopropyl Ether					<1						<1.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<5	<50	<5	<1	<1	<1	3.4	2	<0.2	2.8	<1	<0.5	0.21	1.2	0.57	<0.50	<0.50	<0.50	1.6	0.91
Hexachlorobutadiene				<1	<1	<1	<1		<0.5	<0.6	<3	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60
Isopropylbenzene				4.2	6.3	<1	16		<0.2	5.6	8.5	3.2	0.34	2.8	0.85	0.52	<0.50	<0.50	4.2	2.3
p-Isopropyltoluene				<1	<1	<1	<1		<0.4	2.6	<1	2	<0.10	0.98	<0.50	<0.50	<0.50	<0.50	0.59	<0.40
Methyl tert-butyl ether					<1						<1	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60
Methylene chloride	<5	128	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<2.5	<1.9	<0.40	<1.9	<1.0	<1.0	3.0 J,A,B,Q	<0.40	<0.40	
Naphthalene	28	<10	<10	3.2	<1	<1	19	30.5	<0.8	11	11	6.1	1.5	7.1	<0.50	<0.50	<0.50	<0.50	4.7	3.6
n-Propylbenzene				<1	2.1	<1	11		<0.3	8.2	4.5	5.9	0.44	5.5	0.93	0.75	<0.50	<0.50	7.8	4.2
Styrene	<5	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<1	<0.2	<0.10	<0.2	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<0.3	3	<3	<0.4	0.58	0.62 J	1.5	0.98	1.0 J	0.78	0.73	
Tetrahydrofuran																			<7.0	0.60
Toluene	<5	<50	<5	<1	<1	<1	1.1	1.25	<0.2	1.8	<1	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	
Trichloroethene	221	<50	41.3	380	11	130	95	49.5	48	130	95	49	39	43	31	34	14	37	<0.15	
Trichlorofluoromethane				<1	<1	<1	<1	<1	<0.5	<0.6	<3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.40	<0.50	<0.50
Vinyl acetate	<10	<100	<10																<8.0	<8.0
Vinyl chloride	<10	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<2.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.30	<0.12	<0.12
Xylene, m & p-				<2	<2	<2	16	8.1	<0.4	6	<1.5	2.1	0.22	2.2	0.99	<0.60	<0.60	<0.60	1.7	<1.0
Xylene, o-				3.1	2.4	1.6	100	29.5	1.6	28	13	15	1.3	11	2.6	5.2	<0.50	12	5.8	
Xylenes, Total	62	<50	<5																	5.8

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W25

Parameter	07/18/06	7/18/2006 duplicate	07/11/07	07/23/08	07/06/09	07/13/10	7/13/2010 Duplicate	07/19/11	7/19/2011 Duplicate	7/6/2012	7/5/2013	7/9/2014	7/8/2015	7/6/2016	7/11/2017
1,1,1,2-Tetrachloroethane	<0.70	<0.70	<1.2	<0.60	<0.60	<0.24	<0.24	<0.40	<0.40						
1,1,1-Trichloroethane	<0.50	<0.50	<1.2	<0.60	<0.60	<0.21	<0.21	<0.29	<0.29						
1,1,2,2-Tetrachloroethane	<0.13	<0.13	<0.28	<0.14	<0.14	<0.19	<0.19	<0.30	<0.30						
1,1,2-Trichloroethane	<0.50	<0.50	<1.0	<0.50	<0.50	<0.26	<0.26	<0.30	<0.30						
1,1-Dichloroethane	<0.40	<0.40	<0.80	<0.40	<0.40	<0.20	<0.20	<0.28	<0.28						
1,1-Dichloroethene	<0.30	<0.30	<0.80	<0.40	<0.40	<0.24	<0.24	<0.29	<0.29						
1,1-Dichloropropene	<0.60	<0.60	<1.0	<0.50	<0.50	<0.24	<0.24	<0.40	<0.40						
1,2,3-Trichlorobenzene	<0.50	<0.50	<1.0	<0.50	<0.50	<0.30	<0.30	<0.40	<0.40						
1,2,3-Trichloropropane	<0.70	<0.70	<0.60	<0.30	<0.30	<0.21	<0.21	<0.40	<0.40						
1,2,4-Trichlorobenzene	<0.70	<0.70	<0.80	<0.40	<0.40	<0.30	<0.30	<0.30	<0.30						
1,2,4-Trimethylbenzene	<b>110</b>	<b>110</b>	<b>49</b>	<b>1</b>	<b>11</b>	<b>42</b>	<b>71</b>	<b>42</b>	<b>40</b>		<0.40	<0.60	<0.50	<b>2.8</b>	<0.40
1,2-Dibromo-3-chloropropane	<0.30	<0.30	<0.80	<0.40	<0.40	<0.40	<0.40	<0.50	<0.50						
1,2-Dibromoethane	<0.50	<0.50	<0.26	<0.13	<0.13	<0.16	<0.16	<0.30	<0.30						
1,2-Dichlorobenzene	<0.50	<0.50	<0.80	<0.40	<0.40	<0.23	<0.23	<0.40	<0.40						
1,2-Dichloroethane	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30						
cis-1,2-Dichloroethene	<b>1.4</b>	<b>1.2</b>	<b>1.2</b>	<0.40	<b>2.7</b>	<b>1.7</b>	<b>2.3</b>	<0.30	<0.30						
trans-1,2-Dichloroethene	<0.40	<0.40	<1.0	<0.50	<0.50	<0.25	<0.25	<0.30	<0.30						
1,2-Dichloropropane	<0.50	<0.50	<0.42	<0.21	<0.21	<0.22	<0.22	<0.29	<0.29						
1,3,5-Trimethylbenzene	<b>28</b>	<b>31</b>	<b>8.8</b>	<0.19	<b>3</b>	<b>2.3</b>	<b>5.7</b>	<b>24</b>	<b>22</b>						
1,3-Dichlorobenzene	<0.40	<0.40	<0.80	<0.40	<0.40	<0.26	<0.26	<0.30	<0.30						
cis-1,3-Dichloropropene	<0.15	<0.15	<0.28	<0.14	<0.14	<0.19	<0.19	<0.28	<0.28						
1,3-Dichloropropane	<0.50	<0.50	<0.38	<0.19	<0.19	<0.23	<0.23	<0.30	<0.30						
trans-1,3-Dichloropropene	<0.14	<0.14	<0.28	<0.14	<0.14	<0.19	<0.19	<0.30	<0.30						
1,4-Dichlorobenzene	<0.60	<0.60	<1.0	<0.50	<0.50	<0.23	<0.23	<0.30	<0.30						
2,2-Dichloropropane	<0.60	<0.60	<0.60	<0.30	<0.30	<0.25	<0.25	<0.28	<0.28						
2-Butanone (MEK)	<5.0	<5.0	<8.0	<4.0	<4.0	<2.4	<2.4	<3.0	<3.0						
2-Chloroethyl vinyl ether															
2-Chlorotoluene	<0.50	<0.50	<0.60	<0.30	<0.30	<0.22	<0.22	<0.30	<0.30						
2-Hexanone	<8.0	<8.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0						
4-Chlorotoluene	<0.60	<0.60	<0.60	<0.30	<0.30	<0.21	<0.21	<0.29	<0.29						
4-Methyl-2-Pentanone (MIBK)	<6.0	<6.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0						
Acetone	<10.0	<10.0	<14	<7.0	<7.0	<5.0	<5.0	<5.0	<5.0						
Benzene	<0.40	<0.40	<0.32	<0.16	<0.16	<0.19	<0.19	<0.30	<0.30						
Bromobenzene	<0.60	<0.60	<0.60	<0.30	<0.30	<0.20	<0.20	<0.30	<0.30						
Bromochloromethane	<0.70	<0.70	<0.42	<0.21	<0.21	<0.22	<0.22	<0.40	<0.40						
Bromodichloromethane	<0.15	<0.15	<0.38	<0.19	<0.19	<0.20	<0.20	<0.30	<0.30						
Bromoform	<0.21	<0.21	<1.0	<0.50	<0.50	<0.22	<0.22	<0.24	<0.24						
Bromomethane	<0.90	<0.90	<0.80	<0.40	<0.40	<0.50	<0.50	<0.30	<0.30						

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W25

Parameter	07/18/06	7/18/2006 duplicate	07/11/07	07/23/08	07/06/09	07/13/10	7/13/2010 Duplicate	07/19/11	7/19/2011 Duplicate	7/6/2012	7/5/2013	7/9/2014	7/8/2015	7/6/2016	7/11/2017
n-Butylbenzene	1.2	1.2	1.2	<0.24	0.27	<0.23	0.57	2.7	2.5						
sec-Butylbenzene	4.8	4.8	2.5	0.89	2.9	4.3	5.5	3.2	3						
tert-Butylbenzene	2	2.1	0.81	<0.23	0.97	0.95	1.5	1.1	1						
Carbon disulfide	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60						
Carbon tetrachloride	<0.50	<0.50	<0.80	<0.40	<0.40	<0.23	<0.23	<0.40	<0.40						
Chlorobenzene	<0.40	<0.40	<0.60	<0.30	<0.30	<0.24	<0.24	<0.30	<0.30						
Chlorodibromomethane	<0.60	<0.60	<0.46	<0.23	<0.23	<0.19	<0.19	<0.26	<0.26						
Chloroethane	<0.60	<0.60	<0.80	<0.40	<0.40	<0.40	<0.40	<0.40	<0.30						
Chloroform	<0.50	<0.50	<0.44	<0.22	<0.22	<0.15	<0.15	<0.23	<0.23						
Chloromethane	<0.30	<0.30	<0.60	<0.30	0.47B	<0.40	<0.40	<0.40	<0.40						
Dibromomethane	<0.80	<0.80	<0.80	<0.40	<0.40	<0.24	<0.24	<0.30	<0.30						
Dichlorodifluoromethane	<0.29	<0.29	<0.80	<0.40	<0.40	<0.26	<0.26	<0.30	<0.30						
Diisopropyl Ether	<0.40	<0.40	<1.0	<0.50	<0.50	<0.20	<0.20	<0.30	<0.30						
Ethylbenzene	3.2	2.7	0.92	<0.28	0.72	0.88	1.7	0.89	0.73						
Hexachlorobutadiene	<0.90	<0.90	<1.2	<0.60	<0.60	<0.30	<0.30	<0.40	<0.40						
Isopropylbenzene	14	14	3.4	0.84	2.1	1.8	4.7	4.6	4.2						
p-Isopropyltoluene	1.2	1.1	0.54	<0.17	<0.17	<0.23	<0.23	1.7	1.5						
Methyl tert-butyl ether	<0.40	<0.40	<0.46	<0.23	<0.23	<0.29	<0.29	<0.30	<0.30						
Methylene chloride	<1.0	<1.0	4	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40						
Naphthalene	5.2	4.6	3.7	1.1	1.1	<0.40	0.63	3.8	3.4	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90
n-Propylbenzene	12	11	4.7	<0.20	2	1.6	3.5	7.4	6.8						
Styrene	<0.50	<0.50	<0.60	<0.30	<0.30	<0.20	<0.20	<0.30	<0.30						
Tetrachloroethene	1.2	1.3	<0.80	0.78	1.2	1.5	1.6	0.67	0.69						
Tetrahydrofuran	<7.0	<7.0	<8.0	<4.0	<4.0	<3.0	<3.0	<4.0	<4.0						
Toluene	<0.40	<0.40	<0.40	<0.20	<0.20	<0.22	<0.22	<0.30	<0.30						
Trichloroethene	45	49	17	15	35	34	39	3.8	3.8						
Trichlorofluoromethane	<0.70	<0.70	<0.80	<0.40	<0.40	<0.20	<0.20	<0.40	<0.40						
Vinyl acetate	<1.7	<1.7	<2.2	<1.1	<1.1	<3.0	<3.0	<4.0	<4.0						
Vinyl chloride	<0.15	<0.15	<0.30	<0.15	<0.15	<0.18	<0.18	<0.19	<0.19						
Xylene, m & p-	19	20	1.1	<0.50	0.58	0.82	1.9	1.1	0.99		<0.90	<1.0	<1.1	<0.80	<0.80
Xylene, o-	44	47	5.3	<0.50	14	3.4	7.4	2	1.9		<0.50	<0.50	<0.50	<0.40	<0.40
Xylenes, Total	63	67	6.4	<1	14.58	4.22	9.3	3.1	2.89		<1.4	<1.5	<1.6	<1.2	<1.2

Prepared By: T. Dushek, 11/7/17

Checked by: A. Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.



Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W26

Parameter	06/14/92	09/17/92	12/18/92	03/24/93	06/30/93	12/27/93	06/22/94	07/06/95	07/09/96	07/11/97	06/24/98	06/09/99	07/18/00	01/31/01	07/11/01	08/06/02	07/24/03	07/13/04
1,1,1,2-Tetrachloroethane				<1	↳	↳	<1		<1	<0.1	<0.3	<1.5	<20	<4.0	<10	<23	<1.8	<0.90
1,1,1-Trichloroethane	<5	<50	<50	<1	<1	↳	<1	<1	<1	<0.3	<0.3	<1.5	<15	<4.0	<7.5	<13	<b>5.5</b>	<0.50
1,1,2,2-Tetrachloroethane	<5	<50	<50	<1	<1	↳	<1	<b>1.25</b>	<1	<0.2	<0.2	<1	<20	<4.0	<10	<20	<1.6	<0.80
1,1,2-Trichloroethane	<5	<50	<50	<1	<1	↳	<1	<1	<1	<1	<0.2	<1	<10	<2.0	<5.0	<23	<1.8	<0.90
1,1-Dichloroethane	<5	<50	<50	<1	<1	↳	<1	<1	<1	<0.2	<0.2	<1	<20	<2.0	<10	<13	<1.0	<0.50
1,1-Dichloroethene	<5	<50	<50	<1	<1	↳	<1	<1	<1	<0.4	<0.2	<1	<45	<4.0	<23	<10	<0.80	<0.40
1,1-Dichloropropene				<1		↳	<1		<1	<0.2	<0.3	<1.5	<20	<4.0	<10	<13	<1.0	<0.50
1,2,3-Trichlorobenzene				<1	<1	↳	<1		<1	<0.5	<0.4	<2	<25	<6.0	<13	<13	<1.0	<0.50
1,2,3-Trichloropropane				<1		↳	<1		<1	<0.3	<0.2	<1	<15	<2.0	<7.5	<20	<1.6	<0.80
1,2,4-Trichlorobenzene				<1	<1	↳	<1		<1	<0.5	<0.3	<1.5	<25	<6.0	<13	<13	<1.0	<0.50
1,2,4-Trimethylbenzene				<b>960</b>	<b>550</b>	<b>600</b>	<b>500</b>		<b>94.7</b>	<b>1300</b>	<b>900</b>	<b>230</b>	<b>570</b>	<b>500</b>	<b>440</b>	<b>13</b>	<b>46</b>	<b>15</b>
1,2-Dibromo-3-chloropropane				↳	↳	<15	↳		↳	<0.3	<0.3	<1.5	<15	<8.0	<7.5	<10	<0.80	<0.40
1,2-Dibromoethane				<2	<2	<10	<2		<2	<0.2	<0.4	<2	<15	<2.0	<7.5	<7.5	<0.60	<0.30
1,2-Dichlorobenzene				<1	<1	↳	<1	<1	<1	<0.3	<0.3	<1.5	<15	<4.0	<7.5	<18	<1.4	<0.70
1,2-Dichloroethane	<5	<50	<50	<1	<1	↳	<1	<1	<1	<0.2	<0.2	<1	<20	<4.0	<10	<23	<1.8	<0.90
cis-1,2-Dichloroethene				<1	<1	↳	<1	2.3	<1	<0.2	<0.2	<1	<20	<4.0	<10	<13	<1.0	<0.50
trans-1,2-Dichloroethene	<5	<50	<50	<1	<1	↳	<1	<1	<1	<0.2	<0.3	<1.5	<40	<2.0	<20	<10	<0.80	<0.40
1,2-Dichloropropane	<5	<50	<50	<1	<1	↳	<1	<1	<1	<0.1	<0.2	<1	<15	<4.0	<7.5	<10	<0.80	<0.40
1,3,5-Trimethylbenzene				<b>340</b>	<b>160</b>	<b>80</b>	<b>88</b>		<b>16.0</b>	<b>380</b>	<b>300</b>	<b>70</b>	<b>210</b>	<b>120</b>	<b>140</b>	<b>99</b>	<b>1.2</b>	<0.50
1,3-Dichlorobenzene				<1	<1	↳	<1	<1	<1	<0.7	<0.4	<2	<20	<2.0	<10	<13	<1.0	<0.50
cis-1,3-Dichloropropene	<5	<50	<50	<1		↳	<1	<1	<1	<0.3	<0.3	<1.5	<10	<2.0	<5.0	<15	<1.2	<0.60
1,3-Dichloropropane				<1	<1	↳	<1		<1	<0.3	<0.6	↳	<20	<2.0	<10	<30	<2.4	<1.2
trans-1,3-Dichloropropene	<5	<50	<50	<1		↳	<1	<1	<1	<0.2	<0.2	<1	<25	<2.0	<13	<18	<1.4	<0.70
1,4-Dichlorobenzene				<1	<1	↳	<1	<1	<1	<0.3	<0.3	<1.5	<20	<2.0	<10	<13	<1.0	<0.50
2,2-Dichloropropane				<1	<1	↳	<1		<1	<0.2	<0.5	<2.5	<10	<4.0	<5.0	<15	<1.2	<0.60
2-Butanone (MEK)	<10	<100	<100															
2-Chloroethyl vinyl ether								<10										
2-Chlorotoluene				<1	<1	↳	<1		<1	<0.4	<0.3	<1.5	<20	<2.0	<10	<15	<1.2	<0.60
2-Hexanone	<10	<100	<100															
4-Chlorotoluene				<1	<1	↳	<1		<1	<0.3	<0.3	<1.5	<15	<4.0	<7.5	<15	<1.2	<0.60
4-Methyl-2-Pentanone (MIBK)	<10	<100	<100															
Acetone	<b>10.5</b>	<100	<100															
Benzene	<b>27.5</b>	<50	<50	<b>24</b>	<b>18</b>	<b>25</b>	<b>13</b>	<b>37</b>	<b>3.8</b>	<0.2	<b>55</b>	<b>4</b>	<b>11</b>	<b>15</b>	<b>4.2 J</b>	<b>20</b>	<b>0.87</b>	<b>0.40 J</b>
Bromobenzene				<1	<1	↳	<1	0	<1	<0.3	<0.2	<1	<25	<2.0	<13	<13	<1.0	<0.50
Bromochloromethane				<1		↳	<1	0	<1	<0.4	<0.2	<1	<20	<2.0	<10	<13	<1.0	<0.50
Bromodichloromethane	<5	<50	<50	<1	<1	↳	<1	<1	<1	<0.2	<0.2	<1	<10	<2.0	<5.0	<10	<0.80	<0.40
Bromoform	<5	<50	<50	<1		↳	<1	<1	<1	<0.3	<0.2	<1	<5	<4.0	<2.5	<15	<1.2	<0.60
Bromomethane	<10	<100	<100	<2		<10	<2	<2	<2	<0.3	<0.9	<4.5	<20	<8.0	<10	<20	<1.6	<0.80

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W26

Parameter	06/14/92	09/17/92	12/18/92	03/24/93	06/30/93	12/27/93	06/22/94	07/06/95	07/09/96	07/11/97	06/24/98	06/09/99	07/18/00	01/31/01	07/11/01	08/06/02	07/24/03	07/13/04	
n-Butylbenzene				190	65	21	26		11.1	100	120	29	76	11	39	56	5.3	14	
sec-Butylbenzene				27	12	15	13		4.5	30	60	10	<15	12	10 J	25	2.1	8	
tert-Butylbenzene				<1	<1	<5	<25		<1	<0.3	<0.3	<1.5	<5	4.6	<2.5	<13	<1.0	5.6	
Carbon disulfide	<5	<50	<50																
Carbon tetrachloride	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.4	<2	<15	<2.0	<7.5	<15	<1.2	<0.60	
Chlorobenzene	<5	<50	<50	<1	<1	<5	<1	1.3	<1	<0.3	<0.3	<1.5	<15	<2.0	<7.5	<20	<1.6	<0.80	
Chlorodibromomethane	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.3	<0.3	<1.5	<20	<4.0	<10	<10	<0.80	<0.40	
Chloroethane	<10	<100	<100	<2	<2	<10	<2	<2	<2	<0.4	<0.8	<4	<25	<8.0	<13	<13	<1.0	<0.50	
Chloroform	12.7	<50	<50	7.2	4.4	<5	2.6	<1	<1	<0.2	<0.2	<1	<25	<2.0	<13	<15	<1.2	<0.60	
Chloromethane	<10	<100	<100	<2	<2	<10	<2	3.95	<2	<0.7	<0.9	<4.5	<15	<4.0	<7.5	<10	<0.80	<0.40	
Dibromomethane				<1	<1	<5	<1	<1	<1	<0.1	<0.2	<1	<20	<4.0	<10	<13	<1.0	<0.50	
Dichlorodifluoromethane				<2	<2	<10	<2	<2	<2	<0.3	<1.2	<6	<25	<2.0	<13	<13	<1.0	<0.50	
Diisopropyl Ether				0	<1							<1.5	<5	<2.0	<2.5	<13	<1.0	<0.50	
Ethylbenzene	79.3	54.5	<50	49	31	42	27	67.5	8.5	35	60	7.5	26	24	15	28	<1.0	<0.50	
Hexachlorobutadiene				<1	<1	<5	<1		<1	<0.5	<0.6	<3	<30	<4.0	<15	<13	<1.0	<0.50	
Isopropylbenzene				58	26	32	22		7.3	40	60	16	34	19	19	33	1.5	0.52 J	
p-Isopropyltoluene				<1	21	12	<1		3.8	<0.4	55	3.5	<10	6.1	<5.0	20	<1.0	<0.50	
Methyl tert-butyl ether					<1							<1	<55	<6.0	<28	<13	<1.0	<0.50	
Methylene chloride	<5	82.7	103	<3	<3	<15	<3	<3	<3	<0.3	<0.5	<2.5	<95	<8.0	<48	<25	<2.0	3.1 J, A, B, Q	
Naphthalene	38.5	84.9	<100	150	70	75	80	114.5	19.5	120	140	46	80	90	110	87	10	2.1	
n-Propylbenzene				58	46	55	39		12.5	90	95	18	63	36	33	47	1.5	<0.50	
Styrene	<5	<50	<50	<1		<5	<25		<1	<0.2	<0.2	<1	<10	<2.0	<5.0	<13	<1.0	<0.50	
Tetrachloroethene	<5	<50	<50	<1	<1	<5	1.5	1.45	<1	<0.3	<0.6	<3	<20	<2.0	<10	<13	<1.0	0.77 J	
Tetrahydrofuran																			0.60
Toluene	102	107	77.5	85	45	65	42	98.5	7.8	45	60	3.5	42	36	7.8 J	23	<1.0	<0.50	
Trichloroethene	72.7	56.8	63.3	60	35	38	20	40	11.1	15	<0.3	9	<15	24	<7.5	23	1.3	<0.15	
Trichlorofluoromethane				<1	<1	<5	<1	<1	<1	<0.5	<0.6	<3	<20	<4.0	<10	<10	<0.80	<0.40	
Vinyl acetate	<10	<100	<100																
Vinyl chloride	<10	<100	<100	<1	<1	<5	<1	<1	<1	<0.3	<0.5	<2.5	<20	<2.0	<10	<7.5	<0.60	<0.30	
Xylene, m & p-				280	190	220	170	284.5	34.2	200	150	13	110	86	26	57	1.8	<0.60	
Xylene, o-				460	260	300	220	321.5	43.0	480	310	85	300	190	180	160	6.4	1.0 J	
Xylenes, Total	569	993	523																

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W26

Parameter	07/20/05	07/20/06	7/20/2006 Duplicate	07/10/07	7/10/2007 Duplicate	07/24/08	07/07/09	7/7/2009 Duplicate	07/15/10	07/20/11	7/20/2011 Duplicate	7/10/2012	7/2/2013	7/7/2014	7/9/2015	7/7/2016	7/17/2017
1,1,1,2-Tetrachloroethane	<0.50	<0.70	<0.70	<0.60	<0.60	<1.2	<0.60	<0.60	<0.24	<0.40	<0.40						
1,1,1-Trichloroethane	<0.60	<0.50	<0.50	<0.60	<0.60	<1.2	<0.60	<0.60	<0.21	<0.29	<0.29						
1,1,2,2-Tetrachloroethane	<0.15	<0.13	<0.13	<0.14	<0.14	<28	<0.14	<0.14	<0.19	<0.30	<0.30						
1,1,2-Trichloroethane	<0.40	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.26	<0.30	<0.30						
1,1-Dichloroethane	<0.50	<0.40	<0.40	<0.40	<0.40	<80	<0.40	<0.40	<0.20	<0.28	<0.28						
1,1-Dichloroethene	<0.50	<0.30	<0.30	<0.40	<0.40	<80	<0.40	<0.40	<0.24	<0.29	<0.29						
1,1-Dichloropropene	<0.50	<0.60	<0.60	<0.50	<0.50	<1	<0.50	<0.50	<0.24	<0.40	<0.40						
1,2,3-Trichlorobenzene	<0.60	<0.50	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.30	<0.40	<0.40						
1,2,3-Trichloropropane	<0.60	<0.70	<0.70	<0.30	<0.30	<0.60	<0.30	<0.30	<0.21	<0.40	<0.40						
1,2,4-Trichlorobenzene	<0.70	<0.70	<0.70	<0.40	<0.40	<80	<0.40	<0.40	<0.30	<0.30	<0.30						
1,2,4-Trimethylbenzene	19	49	61	1	52	140	0.24	0.24	44	0.66	0.42		<0.40	<0.60	1.2	0.5	<0.40
1,2-Dibromo-3-chloropropane	<1.1	<0.30	<0.30	<0.40	<0.40	<80	<0.40	<0.40	<0.40	<0.50	<0.50						
1,2-Dibromoethane	<0.60	<0.50	<0.50	<0.13	<0.13	<0.26	<0.13	<0.13	<0.16	<0.30	<0.30						
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.40	<0.40	<80	<0.40	<0.40	<0.23	<0.40	<0.40						
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.30	<0.30	<0.60	<0.30	<0.30	<0.30	<0.30	<0.30						
cis-1,2-Dichloroethene	<0.60	<0.40	<0.40	<0.40	<0.40	<80	<0.40	<0.40	0.25	<0.30	<0.30						
trans-1,2-Dichloroethene	<0.60	<0.40	<0.40	<0.50	<0.50	<1	<0.50	<0.50	<0.25	<0.30	<0.30						
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.21	<0.21	<0.42	<0.21	<0.21	<0.22	<0.29	<0.29						
1,3,5-Trimethylbenzene	<0.50	<0.40	<0.19	0.28	<0.19	20	<0.19	<0.19	0.4	0.55	0.47						
1,3-Dichlorobenzene	<0.50	<0.40	<0.40	<0.40	<0.40	<80	<0.40	<0.40	<0.26	<0.30	<0.30						
cis-1,3-Dichloropropene	<0.12	<0.15	<0.14	<0.14	<0.14	<0.28	<0.14	<0.14	<0.19	<0.28	<0.28						
1,3-Dichloropropane	<0.60	<0.50	<0.19	<0.19	<0.19	<0.38	<0.19	<0.19	<0.23	<0.30	<0.30						
trans-1,3-Dichloropropene	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28	<0.14	<0.14	<0.19	<0.30	<0.30						
1,4-Dichlorobenzene	<0.50	<0.60	<0.60	<0.50	<0.50	<1	<0.50	<0.50	<0.23	<0.30	<0.30						
2,2-Dichloropropane	<0.60	<0.60	<0.60	<0.30	<0.30	<0.60	<0.30	<0.30	<0.25	<0.28	<0.28						
2-Butanone (MEK)	<7.0	<5.0	<5.0	<4.0	<4.0	<8.0	<4.0	<4.0	<2.4	<3.0	<3.0						
2-Chloroethyl vinyl ether																	
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.30	<0.30	<0.60	<0.30	<0.30	<0.22	<0.30	<0.30						
2-Hexanone	<7.0	<8.0	<8.0	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0						
4-Chlorotoluene	<0.40	<0.60	<0.60	<0.30	<0.30	<0.60	<0.30	<0.30	<0.21	<0.29	<0.29						
4-Methyl-2-Pentanone (MIBK)	<7.0	<6.0	<6.0	<3.0	<3.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0						
Acetone	<9.0	<10.0	<10.0	<7.0	<7.0	<14.0	<7.0	<7.0	<5.0	<5.0	<5.0						
Benzene	0.46	0.94	1.0	0.96	1	4	<0.16	<0.16	2.3	0.32	0.39						
Bromobenzene	<0.50	<0.60	<0.60	<0.30	<0.30	<0.60	<0.30	<0.30	<0.20Q	<0.30	<0.30						
Bromochloromethane	<0.50	<0.70	<0.70	<0.21	<0.21	<0.42	<0.21	<0.21	<0.22	<0.40	<0.40						
Bromodichloromethane	<0.13	<0.15	<0.15	<0.19	<0.19	<0.38	<0.19	0.26	<0.20	<0.30	<0.30						
Bromoform	<0.50	<0.21	<0.21	<0.50	<0.50	<1	<0.50	<0.50	<0.22	<0.24	<0.24						
Bromomethane	<0.80	<0.90	<0.90	<0.40	<0.40	<0.80	<0.40	<0.40	<0.50	<0.30	<0.30						

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W26

Parameter	07/20/05	07/20/06	7/20/2006 Duplicate	07/10/07	7/10/2007 Duplicate	07/24/08	07/07/09	7/7/2009 Duplicate	07/15/10	07/20/11	7/20/2011 Duplicate	7/10/2012	7/2/2013	7/7/2014	7/9/2015	7/7/2016	7/17/2017
n-Butylbenzene	<b>0.64</b>	<b>1.1</b>	<b>1.2</b>	<b>0.6</b>	<b>0.39</b>	<b>2.5</b>	<0.24	<0.24	<b>1.6</b>	<b>0.68</b>	<b>0.65</b>						
sec-Butylbenzene	<b>2.6</b>	<b>3.2</b>	<b>3.5</b>	<b>2.9</b>	<b>3.1</b>	<b>5.6</b>	<0.29	<0.29	<b>7.1</b>	<b>5.5</b>	<b>5.5</b>						
tert-Butylbenzene	<b>1.4</b>	<b>1.6</b>	<b>1.6</b>	<b>1.5</b>	<b>1.6</b>	<b>2.5</b>	<0.23	<0.23	<b>3.1</b>	<b>2.3</b>	<b>2.4</b>						
Carbon disulfide	<1.1	<1.0	<1.0	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<0.60	<0.60						
Carbon tetrachloride	<0.50	<0.50	<0.50	<0.40	<0.40	<0.80	<0.40	<0.40	<0.23	<0.40	<0.40						
Chlorobenzene	<0.50	<0.40	<0.40	<0.30	<0.30	<0.60	<0.30	<0.30	<0.24	<0.30	<0.30						
Chlorodibromomethane	<0.60	<0.60	<0.60	<0.23	<0.23	<0.46	<0.23	<0.23	<0.19	<0.26	<0.26						
Chloroethane	<0.70	<0.60	<0.60	<0.40	<0.40	<0.80	<0.40	<0.40	<0.40	<0.30	<0.30						
Chloroform	<0.50	<0.50	<0.50	<0.22	<0.22	<b>0.48</b>	<b>5.9</b>	<b>6.5</b>	<b>0.42</b>	<b>0.46</b>	<b>0.45</b>						
Chloromethane	<0.24	<0.30	<0.30	<0.30	<0.30	<0.60	<b>0.88AB</b>	<b>1.3AB</b>	<0.40	<0.40	<0.40						
Dibromomethane	<0.70	<0.80	<0.80	<0.40	<0.40	<0.80	<0.40	<0.40	<0.24	<0.30	<0.30						
Dichlorodifluoromethane	<0.60	<0.29	<0.29	<0.40	<0.40	<0.80	<0.40	<0.40	<0.26	<0.30	<0.30						
Diisopropyl Ether	<0.50	<0.40	<0.40	<0.50	<0.50	<1	<0.50	<0.50	<0.20	<0.30	<0.30						
Ethylbenzene	<0.50	0.67	0.76	<0.28	<0.28	<b>8.3</b>	<0.28	<0.28	<b>0.45</b>	<b>1.2</b>	<b>1.2</b>						
Hexachlorobutadiene	<0.60	<0.90	<0.90	<0.60	<0.60	<1.2	<0.60	<0.60	<0.30	<0.40	<0.40						
Isopropylbenzene	<b>1.7</b>	<b>2.8</b>	<b>3.2</b>	<b>1.3</b>	<b>1.4</b>	<b>11</b>	<0.20	<0.20	<b>3</b>	<b>5</b>	<b>5.1</b>						
p-Isopropyltoluene	<0.40	<0.40	<0.40	<0.17	<0.17	<b>0.94</b>	<0.17	<0.17	<0.23	<0.30	<0.30						
Methyl tert-butyl ether	<0.60	<0.40	<0.40	<0.23	<0.23	<0.46	<0.23	<0.23	<0.29	<0.30	<0.30						
Methylene chloride	<0.40	<1.0	<1.0	<0.50	<0.50	<1	<0.50	<0.50	<0.40	<0.40	<0.40						
Naphthalene	<0.60	<b>3.5</b>	<b>4.1</b>	<0.60	<0.60	<b>32</b>	<0.60	<0.60	<b>15</b>	<b>8</b>	<b>8.1</b>	<3.1 V	<0.50	<1.2	<0.50	<0.90	<0.90
n-Propylbenzene	<b>0.95</b>	<b>2.1</b>	<b>2.3</b>	<b>0.21</b>	<.20	<b>13</b>	<0.20	<0.20	<b>2.5</b>	<b>3.9</b>	<b>4.1</b>						
Styrene	<0.50	<0.50	<0.50	<0.30	<0.30	<0.60	<0.30	<0.30	<0.20	<0.30	<b>0.55</b>						
Tetrachloroethene	<b>0.62</b>	<b>0.59</b>	<b>0.70</b>	<b>0.57</b>	<b>0.55</b>	<b>1.1</b>	<0.40	<0.40	<b>0.91</b>	<b>1.4</b>	<b>1.3</b>						
Tetrahydrofuran	<7.0	<7.0	<7.0	<4.0	<4.0	<8.0	<4.0	<4.0	<3.0	<4.0	<4.0						
Toluene	<0.40	<0.40	<0.40	<0.20	<0.20	<b>6.7</b>	<0.20	<0.20	<0.22	<0.30	<0.30						
Trichloroethene	<b>1.7</b>	<b>2.2</b>	<b>2.3</b>	<b>2.3</b>	<b>2.5</b>	<b>7</b>	<b>0.2</b>	<0.15	<b>3.6</b>	<b>2.7</b>	<b>2.8</b>						
Trichlorofluoromethane	<0.50	<0.70	<0.70	<0.40	<0.40	<0.80	<0.40	<0.40	<0.20	<0.40	<0.40						
Vinyl acetate	<8.0	<1.7	<1.7	<1.1	<1.1	<2.2	<1.1	<1.1	<3.0	<4.0	<4.0						
Vinyl chloride	<0.12	<0.15	<0.15	<0.15	<0.15	<0.30	<0.15	<0.15	<0.18	<0.19	<0.19						
Xylene, m & p-	<1.0	<b>1.5</b>	<b>1.8</b>	<b>1</b>	<b>1.1</b>	<b>21</b>	<0.50	<0.50	<b>2.6</b>	<0.60	<0.60	<0.90	<1.0	<1.1	<0.80	<0.80	<0.80
Xylene, o-	<b>0.64</b>	<b>2.6</b>	<b>2.9</b>	<b>1.1</b>	<b>1.2</b>	<b>52</b>	<0.50	<0.50	<b>2.4</b>	<b>18</b>	<b>19</b>	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40
Xylenes, Total	<b>0.64</b>	<b>4.1</b>	<b>4.7</b>	<b>2.1</b>	<b>2.3</b>	<b>73</b>	<1.0	<1.0	<b>5</b>	<b>18</b>	<b>19</b>	<1.4	<1.5	<1.6	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 11/7/17

Checked by: A. Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W27

Parameter	12/17/92	06/30/93	12/28/93	06/22/94	07/06/95	07/09/96	07/11/97	06/24/98	06/08/99	07/18/00	01/30/01	07/11/01	08/06/02	07/22/03	07/13/04	07/19/05	07/19/06	07/10/07	07/23/08	07/07/09	07/14/10	7/14/2010 Duplicate	07/25/11	07/10/12	07/05/13	07/09/14	07/09/15	07/11/16	07/18/17	7/18/2017 Duplicate	
1,1,1,2-Tetrachloroethane						<10	<0.1	<0.3	<1.5	<4	<2.0	<4.0	<4.5	<2.3	<18	<10.0	<3.5 *	<3.0	<12	<6	<2.4	<2.1	<4.0								
1,1,1-Trichloroethane	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<4	<2.0	<3.0	<2.5	<1.3	<10	<12.0	<2.5 *	<3.0	<12	<6	<2.1	<2.1	<2.9								
1,1,2,2-Tetrachloroethane	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1	<4	<2.0	<4.0	<4.0	<2.0	<16	<3.0	<0.65 *	<0.70	<2.8	<1.4	<1.9	<1.9	<3.0								
1,1,2-Trichloroethane	<5	<1	<1	<1	<10	<10	<1	<0.2	<1	<2	<1.0	<2.0	<4.5	<2.3	<18	<8.0	<2.5 *	<2.5	<10	<5	<2.6	<2.6	<3.0								
1,1-Dichloroethane	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1	<4	<1.0	<4.0	<2.5	<1.3	<10	<10.0	<2.0 *	<2.0	<8	<4	<2.0	<2.0	<2.8								
1,1-Dichloroethene	<5	<1	<1	<1	<10	<10	<0.4	<0.2	<1	<9	<2.0	<9.0	<2.0	<1.0	<8.0	<10.0	<1.5 *	<2.0	<8	<4	<2.4	<2.4	<2.9								
1,1-Dichloropropene			<1	<1	<10	<10	<0.2	<0.3	<1.5	<4	<2.0	<4.0	<2.5	<1.3	<10	<10.0	<3.0 *	<2.5	<10	<5	<2.4	<2.4	<4.0								
1,2,3-Trichlorobenzene		<1	<1	<1	<10	<10	<0.5	<0.4	<2	<5	<3.0	<5.0	<2.5	<1.3	<10	<12.0	<2.5 *	<2.5	<10	<5	<3.0	<3.0	<4.0								
1,2,3-Trichloropropane			<1	<1	<10	<10	<0.3	<0.2	<1	<2	<1.0	<3.0	<4.0	<2.0	<16	<12.0	<3.5 *	<1.5	<6	<3	<2.1	<2.1	<4.0								
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<10	<10	<0.5	<0.3	<1.5	<4	<3.0	<5.0	<2.5	<1.3	<10	<14.0	<3.5 *	<2.0	<8	<4	<3.0	<3.0	<3.0								
1,2,4-Trimethylbenzene	<b>190</b>	<b>1100</b>	<b>540</b>		<b>387.9</b>	<b>750</b>	<b>800</b>	<b>240</b>	<b>365</b>	<b>970</b>	<b>180</b>	<b>140</b>	<b>230</b>	<b>510</b>	<b>370</b>	<b>190 *</b>	<b>390</b>	<b>350</b>	<b>400</b>	<b>710</b>	<b>650</b>	<b>540</b>				<b>470</b>	<b>450</b>	<b>550</b>	<b>720</b>	<b>600</b>	<b>610</b>
1,2-Dibromo-3-chloropropane	<3	<3	<3		<30	<0.3	<0.3	<1.5	<3	<4.0	<3.0	<2.0	<1.0	<8.0	<22	<1.5 *	<2.0	<8	<4	<4.0	<4.0	<5.0									
1,2-Dibromoethane	<2	<2	<2		<20	<0.2	<0.4	<2	<3	<1.0	<3.0	<1.5	<0.75	<6.0	<12.0	<2.5 *	<0.65	<2.6	<1.3	<1.6	<1.6	<3.0									
1,2-Dichlorobenzene	<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<3	<2.0	<3.0	<3.5	<1.8	<14	<10.0	<2.5 *	<2.0	<8	<4	<2.3	<2.3	<4.0									
1,2-Dichloroethane	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1	<4	<2.0	<4.0	<4.5	<2.3	<18	<10.0	<2.5 *	<1.5	<6	<3	<3.0	<3.0	<3.0								
cis-1,2-Dichloroethane	<1	<1	<1	<1	<10	<10	<0.2	<0.2	<1	<4	<2.0	<4.0	<2.5	<1.3	<10	<12.0	<2.0 *	<2.0	<8	<4	<2.5	<2.5	<3.0								
trans-1,2-Dichloroethane	<5	<1	<1	<1	<10	<10	<0.2	<0.3	<1.5	<8	<1.0	<8.0	<2.0	<1.0	<8.0	<12.0	<2.0 *	<2.5	<10	<5	<2.5	<2.5	<3.0								
1,2-Dichloropropane	<5	<1	<1	<1	<10	<10	<0.1	<0.2	<1	<3	<2.0	<3.0	<2.0	<1.0	<8.0	<10.0	<2.5 *	<1.1	<4.2	<2.1	<2.2	<2.2	<2.9								
1,3,5-Trimethylbenzene	<b>95</b>	<b>230</b>	<b>130</b>		<b>86.5</b>	<b>240</b>	<b>100</b>	<b>120</b>	<b>56</b>	<b>110</b>	<b>56</b>	<b>69</b>	<b>130</b>	<b>82</b>	<b>14 *</b>	<b>110</b>	<b>62</b>	<b>74</b>	<b>62</b>	<b>49</b>	<b>90</b>										
1,3-Dichlorobenzene	<1	<1	<1	<10	<10	<0.7	<0.4	<2	<4	<1.0	<4.0	<2.5	<1.3	<10	<10.0	<2.0 *	<2.0	<8	<4	<2.6	<2.6	<3.0									
cis-1,3-Dichloropropene	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<2	<1.0	<2.0	<3.0	<1.5	<12	<2.4	<0.75 *	<0.70	<2.8	<1.4	<1.9	<1.9	<2.8								
1,3-Dichloropropane	<1	<1	<1	<1	<10	<10	<0.3	<0.6	<3	<4	<1.0	<4.0	<6.0	<3.0	<24	<12.0	<2.5 *	<0.95	<3.8	<1.9	<2.3	<2.3	<3.0								
trans-1,3-Dichloropropane	<5	0	<1	<1	<10	<10	<0.2	<0.2	<1	<5	<1.0	<5.0	<3.5	<1.8	<14	<2.8	<0.70 *	<0.70	<2.8	<1.4	<1.9	<1.9	<3.0								
1,4-Dichlorobenzene	<1	<1	<1	<1	<10	<10	<0.3	<0.3	<1.5	<4	<1.0	<4.0	<2.5	<1.3	<10	<10.0	<3.0 *	<2.5	<10	<5	<2.3	<2.3	<3.0								
2,2-Dichloropropane	<1	<1	<1	<1	<10	<10	<0.2	<0.5	<2.5	<2	<2.0	<2.0	<3.0	<1.5	<12	<12.0	<3.0 *	<1.5	<6	<3	<2.5	<2.5	<2.8								
2-Butanone (MEK)	<10																<14.0	<25 *	<b>81</b>	<80	<40	<b>50</b>	<b>49</b>	<30							
2-Chloroethyl vinyl ether					<100																										
2-Chlorotoluene	<1	<1	<1	<1	<10	<0.4	<0.3	<1.5	<4	<1.0	<4.0	<3.0	<1.5	<12	<10.0	<2.5 *	<1.5	<6	<3	<2.2	<2.2	<3.0									
2-Hexanone	<10															<14.0	<40 *	<20	<80	<40	<40	<40	<40								
4-Chlorotoluene	<1	<1	<1	<1	<10	<0.3	<0.3	<1.5	<3	<2.0	<3.0	<3.0	<1.5	<12	<8.0	<3.0 *	<1.5	<6	<3	<2.1	<2.1	<2.9									
4-Methyl-2-Pentanone (MIBK)	<10															<14.0	<30 *	<15	<60	<30	<30	<30	<30								
Acetone	<b>20.1</b>															<18.0	<50 *	<35	<140	<70	<50	<50	<50								
Benzene	<b>12.9</b>	<b>2.4</b>	<b>11</b>	<b>7.5</b>	<b>39</b>	<10	<0.2	<b>12</b>	<1.5	<1	<1.0	<1.0	<2.0	<1.0	<8.0	<8.0	<2.0 *	<0.80	<3.2	<1.6	<1.9	<1.9	<3.0								
Bromobenzene	<1	<1	<1	<1	<10	<0.3	<0.2	<1	<5	<1.0	<5.0	<2.5	<1.3	<10	<10.0	<3.0 *	<1.5	<6	<3	<2.1	<2.1	<2.9									
Bromochloromethane	<1	<1	<1	<1	<10	<0.4	<0.2	<1	<4	<1.0	<4.0	<2.5	<1.3	<10	<10.0	<3.5 *	<1.1	<4.2	<2.1	<2.2	<2.2	<4.0									
Bromodichloromethane	<5	<1	<1	<1	<b>31</b>	<10	<0.2	<0.2	<1	<2	<1.0	<2.0	<2.0	<1.0	<8.0	<2.6	<0.75 *	<0.95	<3.8	<1.9	<2.0	<2.0	<3.0								
Bromoform	<5	<1	<1	<1	<10	<10	<0.3	<0.2	<1	<1	<2.0	<1.0	<3.0	<1.5	<12	<10.0	<1.1 *	<2.5	<10	<5	<2.2	<2.2	<2.4								
Bromomethane	<10	<2	<2	<2	<20	<0.3	<0.9	<4.5	<4	<4.0	<4.0	<4.0	<2.0	<2.0	<16	<16.0	<4.5 *	<2.0	<8	<4	<5.0	<5.0	<3.0								
n-Butylbenzene	<b>34</b>	<b>86</b>	<b>77</b>		<b>64.5</b>	<b>120</b>	<b>120</b>	<b>60</b>	<b>84.5</b>	<b>26</b>	<b>73</b>	<b>36</b>	<b>49</b>	<b>110</b>	<b>17</b>	<b>12 *</b>	<b>15</b>	<b>14</b>	<b>15</b>	<b>18</b>	<b>22</b>	<b>19</b>									
sec-Butylbenzene	<b>5.2</b>	<b>17</b>	<b>18</b>		<b>16.8</b>	<b>28</b>	<b>32</b>	<b>23</b>	<b>11.5</b>	<b>22</b>	<b>13</b>	<b>6.2</b>	<b>9.2</b>	<b>14 J</b>	<b>12</b>	<b>14 *</b>	<b>6.1</b>	<b>8</b>	<b>10</b>	<b>20</b>	<b>18</b>	<b>14</b>									
tert-Butylbenzene	<1	<1	<1	<1	<10	<0.3	<0.3	<1.5	<1	<b>9.2</b>	<1.0	<2.5	<1.3	<10																	

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W27

Parameter	12/17/92	06/30/93	12/28/93	06/22/94	07/06/95	07/09/96	07/11/97	06/24/98	06/08/99	07/18/00	01/30/01	07/11/01	08/06/02	07/22/03	07/13/04	07/19/05	07/19/06	07/10/07	07/23/08	07/07/09	07/14/10	7/14/2010 Duplicate	07/25/11	07/10/12	07/05/13	07/09/14	07/09/15	07/11/16	07/18/17	7/18/2017 Duplicate	
Vinyl acetate	<10															<160.	<8.5 *	<5.5	<22	<11	<30	<30	<40								
Vinyl chloride	<10	<1	<1	<1	<10	<10	<0.3	<0.5	<2.5	<4	<1.0	<4.0	<1.5	<0.75	<6.0	<2.4	<0.75 *	<0.75	<3	<1.5	<1.8	<1.8	<1.9								
Xylene, m & p-		<b>36</b>	<b>300</b>	<b>240</b>	<b>480</b>	<b>42.6</b>	<b>46</b>	<b>70</b>	<b>22</b>	<b>19.5</b>	<b>33</b>	<b>2.7 J</b>	<b>6.9</b>	<b>9.3</b>	<b>21 J</b>	<20	<b>5.7 *</b>	<b>15</b>	<b>17</b>	<b>20</b>	<b>37</b>	<b>33</b>	<b>33</b>		<b>18</b>	<20	<22	<b>45</b>	<b>33</b>	<b>33</b>	
Xylene, o-		<b>200</b>	<b>380</b>	<b>300</b>	<b>510</b>	<b>93.5</b>	<b>260</b>	<b>300</b>	<b>90</b>	<b>125</b>	<b>240</b>	<b>28</b>	<b>42</b>	<b>59</b>	<b>150</b>	<b>87</b>	<b>110 *</b>	<b>100</b>	<b>120</b>	<b>170</b>	<b>260</b>	<b>240</b>	<b>180</b>		<b>130</b>	<b>150</b>	<b>130</b>	<b>130</b>	<b>79</b>	<b>80</b>	
Xylenes, Total	<b>620</b>															<b>87</b>	<b>115.7 *</b>	<b>115</b>	<b>137</b>	<b>190</b>	<b>297</b>	<b>273</b>	<b>213</b>		<b>148</b>	<b>150</b>	<b>130</b>	<b>175</b>	<b>112</b>	<b>113</b>	

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detection:

**A** = Analyte averaged calibration criteria within acceptable limit

**B** = Analyte detected in associated Method Blank

**M** = Matrix spike or matrix spike duplicate outside acceptance limits

**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limit:

\* = Suspected methylene chloride laboratory contamination.



Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W28

Parameter	07/08/92	06/29/93	12/28/93	06/22/94	07/05/95	07/09/96	07/11/97	06/24/98	06/08/99	07/18/00	01/30/01	07/10/01	08/06/02	07/23/03	07/12/04	07/18/05	07/18/06	07/10/07	07/23/08	07/07/09	07/13/10	07/18/11	07/19/12	07/02/13	07/10/14	07/07/15	07/06/16	07/11/17	
Vinyl acetate	<100															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0							
Vinyl chloride	<100	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19							
Xylene, m & p-		<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50	<0.50	<0.50	<0.40	<0.40	
Xylenes, Total	<50																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.5	<1.6	<1.2	<1.2	

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

**A** = Analyte averaged calibration criteria within acceptable limits

**B** = Analyte detected in associated Method Blank

**M** = Matrix spike or matrix spike duplicate outside acceptance limits.

**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.



Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W29

Parameter	06/23/92	06/30/93	12/28/93	06/22/94	07/05/95	07/09/96	07/11/97	06/23/98	06/08/99	07/18/00	01/30/01	07/11/01	08/07/02	07/24/03	07/13/04	07/20/05	07/19/06	07/10/07	07/24/08	7/24/2008 Duplicate	07/07/09	07/14/10	07/19/11	07/09/12	07/02/13	07/07/14	07/07/15	07/11/16	7/11/2016 Duplicate	7/17/2017		
1,1,1,2-Tetrachloroethane			<1	<1	<1	<1	<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.60	<0.60	<0.24	<0.40								
1,1,1-Trichloroethane	<50	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.21	<0.29								
1,1,2,2-Tetrachloroethane	<50	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,1,2-Trichloroethane	<50	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30								
1,1-Dichloroethane	<50	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28							
1,1-Dichloroethene	<50	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.24	<0.29							
1,1-Dichloropropene			<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.24	<0.40								
1,2,3-Trichlorobenzene		<1	<1	<1	<1	<1	<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40								
1,2,3-Trichloropropane			<1	<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.30	<0.21	<0.40								
1,2,4-Trichlorobenzene		<1	<1	<1	<1	<1	<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.40	<0.40	<0.30	<0.30							
1,2,4-Trimethylbenzene		<1	<b>10</b>	<b>4.8</b>		<b>126.8</b>	<b>29</b>	<b>140</b>	<0.6	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.24	<0.24	<0.20	<b>1.4</b>	<0.40	<0.60	<0.50	<b>8.2</b>	<b>7.5</b>	<b>3.8</b>		
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50							
1,2-Dibromoethane		<2	<2	<2		<2	<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.13	<0.16	<0.30								
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<b>3.8</b>	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40							
1,2-Dichloroethane	<50	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30							
cis-1,2-Dichloroethene		<1	<1	<1	<1	<b>1.4</b>	<b>0.7</b>	<b>1.3</b>	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.25	<b>0.44</b>								
trans-1,2-Dichloroethene	<50	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.50	<0.25	<0.30								
1,2-Dichloropropane	<50	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.21	<0.22	<0.29								
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<0.4	<b>6.2</b>	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.19	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30								
1,3-Dichlorobenzene		<1	<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30								
cis-1,3-Dichloropropene	<50	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.28								
1,3-Dichloropropane		<1	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.19	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<50	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30								
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.23	<0.30								
2,2-Dichloropropane		<1	<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.30	<0.25	<0.28								
2-Butanone (MEK)	<100															<7.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<2.4	<3.0								
2-Chloroethyl vinyl ether					<10																											
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.22	<0.30								
2-Hexanone	<100															<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0							
4-Chlorotoluene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.30	<0.30	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)	<100															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0							
Acetone	<100															<9.0	<10.0	<7.0	<7.0	<7.0	<7.0	<7.0	<5.0	<5.0								
Benzene	<50	<1	<b>1.5</b>	<1	<b>2.3</b>	<b>2.9</b>	<b>1.3</b>	<b>3</b>	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.16	<0.16	<0.19	<b>2.7</b>								
Bromobenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.200	<0.30							
Bromochloromethane			<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<50	<1	<1	<1	<1	<1	<0.2	<b>1.5</b>	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.19	<0.19	<0.20	<0.30							
Bromoform	<50	<1	<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.50	<0.22	<0.24								
Bromomethane	<100	<2	<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30							
n-Butylbenzene		<1	<b>1.4</b>	<1		<b>8.4</b>	<0.6	<b>12</b>	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.24	<0.24	<0.24	<0.24	<0.24	<0.23	<0.29								
sec-Butylbenzene		<1	<1	<1		<b>5.9</b>	<b>2.7</b>	<b>7.4</b>	<0.2	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.29	<0.29	<0.29	<0.29	<0.29	<0.21	<b>3.1</b>								
tert-Butylbenzene		<1	<1	<1		<1	<b>2.7</b>	<b>0.3</b>	<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.23	<0.23	<0.20	<b>1.8</b>								
Carbon disulfide	<50															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<50	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40								
Chlorobenzene	<50	&																														

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W29

Parameter	06/25/92	06/30/93	12/28/93	06/22/94	07/05/95	07/09/96	07/11/97	06/23/98	06/08/99	07/18/00	01/30/01	07/11/01	08/07/02	07/24/03	07/13/04	07/20/05	07/19/06	07/10/07	07/24/08	7/24/2008 Duplicate	07/07/09	07/14/10	07/19/11	07/09/12	07/02/13	07/07/14	07/07/15	07/11/16	7/11/2016 Duplicate	7/17/2017	
Vinyl acetate	<100															<8.0	<1.7	<1.1	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<100	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19								
Xylene, m & p-		<2	<2	<2	<2	<b>6.5</b>	<b>1.1</b>	<b>10</b>	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60		<0.90	<1.0	<1.1	<b>5.7</b>	<b>5.3</b>	<b>3.6</b>	
Xylene, o-		<1	<b>3.7</b>	<1	<b>6.5</b>	<b>40.2</b>	<b>8.8</b>	<b>60</b>	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.50	<0.24	<0.29		<0.50	<0.50	<0.50	<b>2.4</b>	<b>2.2</b>	<b>1.4</b>	
Xylenes, Total	<50																<1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.5	<1.6	<b>8.1</b>	<b>7.5</b>	<b>5</b>	

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

V = Raised quantitation or reporting limit due to limited sample amount or dilution for matrix background interference

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W32

Parameter	06/24/92	06/29/93	12/28/93	06/22/94	07/05/95	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00	01/30/01	07/10/01	08/06/02	07/24/03	07/13/04	07/20/05	07/18/06	07/09/07	07/22/08	07/07/09	07/14/10	07/18/11	07/09/12	07/01/13	07/07/14	07/06/15	07/05/16	07/10/17	
1,1,1,2-Tetrachloroethane			<1	<1		<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40							
1,1,1-Trichloroethane	<50	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29							
1,1,2,2-Tetrachloroethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.19	<0.30							
1,1,2-Trichloroethane	<50	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30							
1,1-Dichloroethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28							
1,1-Dichloroethene	<50	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29							
1,1-Dichloropropene			<1	<1		<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.24	<0.40							
1,2,3-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40							
1,2,3-Trichloropropane			<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.21	<0.40							
1,2,4-Trichlorobenzene		<1	<1	<1		<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.70	<0.40	<0.40	<0.40	<0.40	<0.30	<0.30							
1,2,4-Trimethylbenzene		<1	<1	<1		<1	<0.7	<0.6	<0.6	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.50	<0.24	<0.24	<0.24	<0.20	<0.30		<0.40	<0.60	<0.50	<0.40	<0.40	
1,2-Dibromo-3-chloropropane		<3	<3	<3		<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.50							
1,2-Dibromoethane		<2	<2	<2		<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30							
1,2-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40							
1,2-Dichloroethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30							
cis-1,2-Dichloroethene		<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30							
trans-1,2-Dichloroethene	<50	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.25	<0.30							
1,2-Dichloropropane	<50	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29							
1,3,5-Trimethylbenzene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.50	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30							
1,3-Dichlorobenzene		<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30							
cis-1,3-Dichloropropene	<50		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.14	<0.14	<0.14	<0.14	<0.19	<0.28							
1,3-Dichloropropane		<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30							
trans-1,3-Dichloropropene	<50		<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30							
1,4-Dichlorobenzene		<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30							
2,2-Dichloropropane		<1	<1	<1		<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28							
2-Butanone (MEK)	<100																<7.0	<5.0	<4.0	<4.0	<4.0	<2.4	<3.0						
2-Chloroethyl vinyl ether					<10																								
2-Chlorotoluene		<1	<1	<1		<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30							
2-Hexanone	<100																<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0						
4-Chlorotoluene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29							
4-Methyl-2-Pentanone (MIBK)	<100																<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0						
Acetone	<100																<9.0	<10.0	<7.0	<7.0	<7.0	<5.0	<5.0						
Benzene	<50	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30							
Bromobenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30							
Bromochloromethane		<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40							
Bromodichloromethane	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.40	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30						

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W32

Parameter	06/24/92	06/29/93	12/28/93	06/22/94	07/05/95	07/08/96	07/11/97	06/23/98	06/07/99	07/17/00	01/30/01	07/10/01	08/06/02	07/24/03	07/13/04	07/20/05	07/18/06	07/09/07	07/22/08	07/07/09	07/14/10	07/18/11	07/09/12	07/01/13	07/07/14	07/06/15	07/05/16	07/10/17
Bromoform	<50		<1	<1	<1	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24						
Bromomethane	<100		<2	<2	<2	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30						
n-Butylbenzene		<1	<1	<1		<1	<0.6	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.24	<0.24	<0.24	<0.23	<0.29						
sec-Butylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.29	<0.29	<0.29	<0.21	<0.30						
tert-Butylbenzene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.20	<0.40						
Carbon disulfide	<50															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60						
Carbon tetrachloride	<50	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40						
Chlorobenzene	<50	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.24	<0.30						
Chlorodibromomethane	<50	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26						
Chloroethane	<100	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.30						
Chloroform	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	<0.22	<0.22	<0.22	<0.15	<0.23						
Chloromethane	<100	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	<b>0.40AB</b>	<0.40	<0.40						
Dibromomethane			<1	<1		<1	<0.11	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.24	<0.30						
Dichlorodifluoromethane		<2	<2	<2		<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.26	<0.30						
Diisopropyl Ether		<1							<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30						
Ethylbenzene	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.22	<0.29						
Hexachlorobutadiene		<1	<1	<1		<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40						
Isopropylbenzene		<1	<1	<1		<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.20	<0.20	<0.20	<0.18	<0.30						
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.40	<0.40	<0.17	<0.17	<0.17	<0.23	<0.30						
Methyl tert-butyl ether		<1							<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30						
Methylene chloride	<50	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	<b>3.0 J.A.B.Q</b>	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40						
Naphthalene		<1	<1	<1	<1	<1	<0.8	<1.1	<1.1	<0.7	<0.20	<0.7	<0.50	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.40	<0.40	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90
n-Propylbenzene		<1	<1	<1		<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.30						
Styrene	<50		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30						
Tetrachloroethene	<50	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	<0.30						
Tetrahydrofuran																<7.0	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0						
Toluene	<50	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30						
Trichloroethene	<50	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	<0.40						
Trichlorofluoromethane		<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40						
Vinyl acetate	<100															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0						
Vinyl chloride	<100	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19						
Xylene, m & p-		<2	<2	<2	<2	<2	<0.4	<0.3	<0.3	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60	<0.90	<1.0	<1.1	<0.80	<0.80	
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	<0.5	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29	<0.50	<0.50	<0.50	<0.40	<0.40	
Xylenes, Total	<50																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89	<1.4	<1.5	<1.6	<1.2	<1.2	

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W33

Parameter	06/25/92	06/30/93	12/28/93	06/22/94	07/05/95	08/07/02	07/24/03	07/14/04	07/21/05	07/11/07	07/24/08	07/07/09	07/15/10	07/25/11	07/19/12	07/08/13	07/07/14	07/09/15	07/12/16	07/18/17
1,1,1,2-Tetrachloroethane			<1	<1	<1	<90	<45	<45	<25	<30	<30	<30	<6.0	<0.80						
1,1,1-Trichloroethane	<50	<1	<1	<1	<1	<50	110	<25	<30	<30	<30	<30	<5.3	<0.58						
1,1,2,2-Tetrachloroethane	<50	<1	<1	<1	<1	<80	<40	<40	<7.5	<7.0	<7.0	<7.0	<4.8	<0.60						
1,1,2-Trichloroethane	<50	<1	<1	<1	<1	<90	<45	<45	<20	<25	<25	<25	<6.5	<0.60						
1,1-Dichloroethane	<50	<1	<1	<1	<1	<50	<25	<25	<25	<20	<20	<20	<5.0	<0.56						
1,1-Dichloroethene	<50	<1	<1	<1	<1	<40	<20	<20	<25	<20	<20	<20	<6.0	<0.58						
1,1-Dichloropropene			<1	<1	<1	<50	<25	<25	<25	<25	<25	<25	<6.0	<0.80						
1,2,3-Trichlorobenzene			<1	<1	<1	<50	<25	<25	<30	<25	<25	<25	<7.5	<0.80						
1,2,3-Trichloropropane			<1	<1	<1	<80	<40	<40	<30	<15	<15	<15	<5.3	<0.80						
1,2,4-Trichlorobenzene		<1	<1	<1	<1	<50	<25	<25	<35	<20	<20	<20	<7.5	<0.60						
1,2,4-Trimethylbenzene		<1	<b>10</b>	<b>4.8</b>		<b>1700</b>	<b>1400</b>	<b>1200</b>	<b>1400</b>	<b>1600</b>	<b>2800</b>	<b>1300</b>	<b>1200</b>	<b>100</b>		<b>210</b>	<b>230</b>	<b>120</b>	<b>170</b>	<b>270</b>
1,2-Dibromo-3-chloropropane		<3	<3	<3		<40	<20	<20	<55	<20	<20	<20	<10	<1.0						
1,2-Dibromoethane		<2	<2	<2	<2	<30	<15	<15	<30	<6.5	<6.5	<6.5	<4.0	<0.60						
1,2-Dichlorobenzene		<1	<1	<1	<1	<70	<35	<35	<25	<20	<20	<20	<5.8	<0.80						
1,2-Dichloroethane	<50	<1	<1	<1	<1	<90	<45	<45	<25	<15	<15	<15	<7.5	<0.60						
cis-1,2-Dichloroethene		<1	<1	<1	<1	<50	<25	<25	<30	<20	<20	<20	<6.3	<0.60						
trans-1,2-Dichloroethene	<50	<1	<1	<1	<1	<40	<20	<20	<30	<25	<25	<25	<6.3	<0.60						
1,2-Dichloropropane	<50	<1	<1	<1	<1	<40	<20	<20	<25	<11	<11	<11	<5.5	<0.58						
1,3,5-Trimethylbenzene		<1	<1	<1		<b>2900</b>	<b>1500</b>	<b>820</b>	<b>730</b>	<b>1100</b>	<b>1000</b>	<b>770</b>	<b>650</b>	<b>65</b>						
1,3-Dichlorobenzene		<1	<1	<1	<1	<50	<25	<25	<25	<20	<20	<20	<6.5	<0.60						
cis-1,3-Dichloropropene	<50		<1	<1	<1	<60	<30	<30	<6	<7.0	<7.0	<7.0	<4.8	<0.56						
1,3-Dichloropropane		<1	<1	<1	<1	<120	<60	<35	<30	<9.5	<9.5	<9.5	<5.8	<0.60						
trans-1,3-Dichloropropene	<50		<1	<1	<1	<70	<35	<60	<7	<7.0	<7.0	<7.0	<4.8	<0.60						
1,4-Dichlorobenzene		<1	<1	<1	<1	<50	<25	<25	<25	<25	<25	<25	<5.8	<0.60						
2,2-Dichloropropane		<1	<1	<1	<1	<60	<30	<30	<30	<15	<15	<15	<6.3	<0.56						
2-Butanone (MEK)	<100								<350	<200	<200	<200	<60	<6.0						
2-Chloroethyl vinyl ether					<10															
2-Chlorotoluene		<1	<1	<1	<1	<60	<30	<30	<25	<15	<15	<15	<5.5	<0.60						
2-Hexanone	<100								<350	<200	<200	<200	<100	<8.0						
4-Chlorotoluene		<1	<1	<1	<1	<60	<30	<30	<20	<15	<15	<15	<5.3	<0.58						
4-Methyl-2-Pentanone (MIBK)	<100								<350	<150	<150	<150	<75	<6.0						
Acetone	<100								<450	<350	<350	<350	<130	<10						
Benzene	<50	<1	<b>1.5</b>	<1	<b>2.3</b>	<b>82</b>	<20	<20	<20	<8.0	<8.0	<8.0	<4.8	<0.60						
Bromobenzene		<1	<1	<1	<1	<50	<25	<25	<25	<15	<15	<15	<5.00	<0.60						
Bromochloromethane		<1	<1	<1	<1	<50	<25	<25	<25	<11	<11	<11	<5.5	<0.80						
Bromodichloromethane	<50	<1	<1	<1	<1	<40	<20	<20	<6.5	<9.5	<9.5	<9.5	<5.0	<0.60						
Bromoform	<50		<1	<1	<1	<60	<30	<30	<25	<25	<25	<25	<5.5	<0.48						
Bromomethane	<100		<2	<2	<2	<80	<40	<40	<40	<20	<20	<20	<13	<0.60						
n-Butylbenzene		<1	<b>1.4</b>	<1		<b>1800</b>	<b>1100</b>	<b>380</b>	<b>140</b>	<b>150</b>	<b>110</b>	<b>62</b>	<b>45</b>	<b>11</b>						
sec-Butylbenzene		<1	<1	<1	<1	<b>520</b>	<b>220</b>	<b>89</b>	<b>50</b>	<b>120</b>	<b>90</b>	<b>49</b>	<b>50</b>	<b>7.1</b>						
tert-Butylbenzene		<1	<1	<1	<1	<50	<25	<25	<25	<b>29</b>	<b>26</b>	<b>14</b>	<b>7.7</b>	<b>3.2</b>						
Carbon disulfide	<50								<55	<25	<25	<25	<13	<1.2						
Carbon tetrachloride	<50	<1	<1	<1	<1	<60	<30	<30	<25	<20	<20	<20	<5.8	<0.80						
Chlorobenzene	<50	<1	<1	<1	<1	<80	<40	<40	<25	<15	<15	<15	<6.0	<0.60						
Chlorodibromomethane	<50	<1	<1	<1	<1	<40	<20	<20	<30	<12	<12	<12	<4.8	<0.52						
Chloroethane	<100	<2	<2	<2	<2	<50	<25	<25	<35	<20	<20	<20	<10	<0.60						
Chloroform	<50	<1	<1	<1	<1	<60	<30	<30	<25	<11	<11	<11	<3.8	<b>12</b>						
Chloromethane	<100	<2	<2	<2	<2	<40	<20	<20	<12	<15	<15	<15	<10	<0.80						
Dibromomethane		<1	<1	<1	<1	<50	<25	<25	<35	<20	<20	<20	<6.0	<0.60						
Dichlorodifluoromethane		<2	<2	<2	<2	<50	<25	<25	<30	<20	<20	<20	<6.5	<0.60						
Diisopropyl Ether		<1				<50	<25	<25	<25	<25	<25	<25	<5.0	<0.60						
Ethylbenzene	<50	<1	<1	<1	<1	<b>110</b>	<25	<25	<25	<b>19</b>	<b>20</b>	<b>15</b>	<b>19</b>	<0.58						
Hexachlorobutadiene		<1	<1	<1	<1	<50	<25	<25	<30	<30	<30	<30	<7.5	<0.80						
Isopropylbenzene		<1	<b>1.7</b>	<1	<1	<b>400</b>	<b>110</b>	<b>70 J</b>	<b>38</b>	<b>58</b>	<b>67</b>	<b>37</b>	<b>17</b>	<b>2.7</b>						
p-Isopropyltoluene		<1	<1	<1	<1	<b>550</b>	<b>270</b>	<b>110</b>	<b>77</b>	<b>160</b>	<b>130</b>	<b>75</b>	<b>48</b>	<b>11</b>						
Methyl tert-butyl ether		<1				<50	<25	<25	<30	<12	<12	<12	<7.3	<0.60						
Methylene chloride	<50	<3	<3	<3	<3	<100	<50	<b>230 A,B,Q</b>	<b>35</b>	<25	<25	<25	<b>33</b>	<b>1.8 B</b>						
Naphthalene	<10	<1	<b>1.6</b>	<1	<b>2.3</b>	<50	<b>190</b>	<b>120</b>	<b>110 A</b>	<b>160</b>	<b>140</b>	<b>120</b>	<b>140</b>	<b>7.2</b>	<b>5.6</b>	<b>19</b>	<b>19</b>	<b>9.4</b>	<b>9.7</b>	<b>15</b>
n-Propylbenzene		<1	<b>1.7</b>	<1	<1	<b>490</b>	<b>210</b>	<b>80</b>	<b>58</b>	<b>97</b>	<b>100</b>	<b>61</b>	<b>97</b>	<b>4.4</b>						
Styrene	<50		<1	<1	<1	<50	<b>430</b>	<25	<25	<15	<15	<15	<5.0	<0.60						
Tetrachloroethene	<50	<1	<1	<1	<1	<b>160</b>	<25	<25	<20	<20	<20	<20	<b>7.7</b>	<0.60						
Tetrahydrofuran									<350	<200	<200	<200	<75	<8.0						
Toluene	<50	<1	<1	<1	<1	<b>100</b>	<25	<25	<20	<10	<b>11</b>	<10	<5.5	<0.60						
Trichloroethene	<50	<b>3.4</b>	<b>10</b>	<b>3.1</b>	<b>20</b>	<60	<30	<30	<7.5	<7.5	<7.5	<7.5	<5.3	<0.80						
Trichlorofluoromethane		<1	<1	<1	<1	<40	<20	<20	<25	<20	<20	<20	<5.0	<0.80						

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W33

Parameter	06/25/92	06/30/93	12/28/93	06/22/94	07/05/95	08/07/02	07/24/03	07/14/04	07/21/05	07/11/07	07/24/08	07/07/09	07/15/10	07/25/11	07/19/12	07/08/13	07/07/14	07/09/15	07/12/16	07/18/17
Vinyl acetate	<100								<400	△55	<55	<55	△75	<8.0						
Vinyl chloride	<100	△1	△1	△1	<1	<30	<15	<15	<6.0	<7.5	<7.5	△7.5	△4.5	<0.38						
Xylene, m & p-		△2	△2	△2	△2	<b>590</b>	<b>260</b>	<b>110</b>	<b>110</b>	<b>170</b>	<b>230</b>	<b>160</b>	<b>130</b>	<b>1.9</b>		<9.0	△5.0	<5.5	<b>12</b>	<8.0
Xylene, o-		△1	<b>3.7</b>	△1	<b>6.5</b>	<b>2200</b>	<b>740</b>	<b>570</b>	<b>360</b>	<b>430</b>	<b>490</b>	<b>370</b>	<b>310</b>	<b>9.3</b>		<b>42</b>	<b>52</b>	<b>43</b>	<b>54</b>	<b>25</b>
Xylenes, Total	<50								<b>470</b>	<b>600</b>	<b>720</b>	<b>530</b>	<b>440</b>	<b>11.2</b>		<b>42</b>	<b>52</b>	<b>43</b>	<b>66</b>	<b>25</b>

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W36

Parameter	08/03/92	09/17/92	07/10/96	07/11/97	06/25/98	06/09/99	07/18/00	01/31/01	07/11/01	08/06/02	07/22/03	07/14/04	07/21/05	07/18/06	07/10/07	7/10/2007 Duplicate	07/23/08	07/06/09	07/14/10	07/19/11	07/09/12	07/02/13	07/09/14	07/07/15	07/06/16	07/11/17	
1,1,1,2-Tetrachloroethane			<1	<0.1	<0.3	<0.3	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.60	<0.60	<0.24	<0.40						
1,1,1-Trichloroethane	<50	<50	<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.50	<0.50	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.60	<0.60	<0.21	<0.29						
1,1,2,2-Tetrachloroethane	<50	<50	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.80	<0.80	<0.80	<0.15	<0.13	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30						
1,1,2-Trichloroethane	<50	<50	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90	<0.90	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30						
1,1-Dichloroethane	<50	<50	<1	<0.2	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28						
1,1-Dichloroethene	<50	<50	<1	<0.4	<0.2	<0.2	<0.9	<0.20	<0.9	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.40	<0.24	<0.29						
1,1-Dichloropropene			<1	<0.2	<0.3	<0.3	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.24	<0.40						
1,2,3-Trichlorobenzene			<1	<0.5	<0.4	<0.4	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40						
1,2,3-Trichloropropane			<1	<0.3	<0.2	<0.2	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.80	<0.60	<0.70	<0.30	<0.30	<0.30	<0.30	<0.21	<0.40						
1,2,4-Trichlorobenzene			<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50	<0.50	<0.50	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.40	<0.3	<0.30						
1,2,4-Trimethylbenzene			637.5	130	180	7.45	15	0.50	0.84	3.3	<0.50	7.4	<0.40	<0.50	<0.24	<0.24	<0.24	<0.24	1.2	<0.30	<0.40	<0.60	<0.50	0.58	0.5		
1,2-Dibromo-3-chloropropane			<3	<0.3	<0.3	<0.3	<0.3	<0.40	<0.3	<0.40	<0.40	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.50						
1,2-Dibromoethane			<2	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.30	<0.30	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.13	<0.13	<0.16	<0.30						
1,2-Dichlorobenzene			<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.70	<0.70	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40						
1,2-Dichloroethane	<50	<50	<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.90	<0.90	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30						
cis-1,2-Dichloroethene			<1	<0.2	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30						
trans-1,2-Dichloroethene	<50	<50	<1	<0.2	<0.3	<0.3	<0.8	<0.10	<0.8	<0.40	<0.40	<0.40	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.50	<0.25	<0.30						
1,2-Dichloropropane	<50	<50	<1	<0.1	<0.2	<0.2	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.21	<0.21	<0.22	<0.29						
1,3,5-Trimethylbenzene			122.2	44	77	3.9	6.15	0.20	1.3	1.4	<0.50	4.0	<0.50	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	0.35	<0.30						
1,3-Dichlorobenzene			<1	<0.7	<0.4	<0.4	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30						
cis-1,3-Dichloropropene	<50	<50	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.28							
1,3-Dichloropropane			<1	<0.3	<0.6	<0.6	<0.4	<0.10	<0.4	<1.2	<1.2	<1.2	<0.60	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30						
trans-1,3-Dichloropropene	<50	<50	<1	<0.2	<0.2	<0.2	<0.5	<0.10	<0.5	<0.70	<0.70	<0.70	<0.70	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.19	<0.30						
1,4-Dichlorobenzene			<1	<0.3	<0.3	<0.3	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.30						
2,2-Dichloropropane			<1	<0.2	<0.5	<0.5	<0.2	<0.20	<0.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.30	<0.30	<0.25	<0.28						
2-Butanone (MEK)	<100	<100											<7.0	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0	<2.4	<3.0						
2-Chloroethyl vinyl ether																											
2-Chlorotoluene			<1	<0.4	<0.3	<0.3	<0.4	<0.10	<0.4	<0.60	<0.60	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.22	<0.30						
2-Hexanone	<100	<100											<7.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0					
4-Chlorotoluene			<1	<0.3	<0.3	<0.3	<0.3	<0.20	<0.3	<0.60	<0.60	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.30	<0.30	<0.21	<0.29						
4-Methyl-2-Pentanone (MIBK)	<100	<100											<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0						
Acetone	<100	<100											<9.0	<10.0	<7.0	<7.0	<7.0	<7.0	<7.0	<7.0	<5.0	<5.0					
Benzene	<50	<50	<1	<0.2	<0.3	<0.3	<0.1	<0.10	<0.1	<0.40	<0.40	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.16	<0.16	<0.19	<0.30						
Bromobenzene			<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.30	<0.20Q	<0.30						
Bromochloromethane			<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.21	<0.22	<0.40						
Bromodichloromethane	<50	<50	<1	<0.2	<0.2	<0.2	<0.2	0.33	<0.2	<0.40	<0.40	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.19	<0.19	<0.20	<0.30						

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W36

Parameter	08/03/92	09/17/92	07/10/96	07/11/97	06/25/98	06/09/99	07/18/00	01/31/01	07/11/01	08/06/02	07/22/03	07/14/04	07/21/05	07/18/06	07/10/07	7/10/2007 Duplicate	07/23/08	07/06/09	07/14/10	07/19/11	07/09/12	07/02/13	07/09/14	07/07/15	07/06/16	07/11/17	
Bromoform	<50	<50	<1	<0.3	<0.2	<0.2	<0.1	<0.20	<0.1	<0.60	<0.60	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.50	<0.22	<0.24							
Bromomethane	<100	<100	<2	<0.3	<0.9	<0.9	<0.4	<0.40	<0.4	<0.80	<0.80	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.40	<0.50	<0.30							
n-Butylbenzene			<b>137.3</b>	<b>12</b>	<b>56</b>	<b>4.7</b>	<b>7.1</b>	<0.10	<0.4	<b>2.2</b>	<b>1.4</b>	<b>6.5</b>	<0.60	<0.40	<0.24	<0.24	<0.24	<0.24	<0.23	<0.29							
sec-Butylbenzene			<b>22.7</b>	<b>7</b>	<b>25</b>	<b>2.25</b>	<b>3.3</b>	<b>0.48</b>	<0.3	<b>0.64</b>	<0.50	<b>1.7</b>	<0.50	<0.50	<0.29	<0.29	<0.29	<0.29	<b>0.53</b>	<0.30							
tert-Butylbenzene			<1	<0.3	<0.3	<b>2.75</b>	<b>0.85</b>	<b>0.10</b>	<0.1	<0.50	<0.50	<b>1.4 J</b>	<0.50	<0.50	<0.23	<0.23	<0.23	<0.23	<0.20	<0.40							
Carbon disulfide	<50	<50											<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60							
Carbon tetrachloride	<50	<50	<1	<0.2	<0.4	<0.4	<0.3	<0.10	<0.3	<0.60	<0.60	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40							
Chlorobenzene	<50	<50	<1	<0.3	<0.3	<0.3	<0.3	<0.10	<0.3	<0.80	<0.80	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.30	<0.24	<0.30							
Chlorodibromomethane	<50	<50	<1	<0.3	<0.3	<0.3	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.23	<0.19	<0.26							
Chloroethane	<100	<100	<2	<0.4	<0.8	<0.8	<0.5	<0.40	<0.5	<0.50	<0.50	<0.50	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.30							
Chloroform	<50	<50	<b>12.5</b>	<b>24</b>	<b>14</b>	<b>7.7</b>	<b>4.75</b>	<b>5.7</b>	<b>4.1</b>	<b>4.5</b>	<b>2.1</b>	<b>1.8 J</b>	<b>1.6</b>	<b>1.3</b>	<b>1.7</b>	<b>1.6</b>	<b>1.3</b>	<b>0.63</b>	<b>0.55</b>	<b>0.65</b>							
Chloromethane	<100	<100	<2	<0.7	<0.9	<0.9	<0.3	<0.20	<0.3	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	<0.30	<b>0.70B</b>	<0.40	<0.40							
Dibromomethane			<1	<0.1	<0.2	<0.2	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.40	<0.24	<0.30							
Dichlorodifluoromethane			<2	<0.3	<1.2	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30							
Diisopropyl Ether						<0.3	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.50	<0.20	<0.30							
Ethylbenzene	<50	<50	<1	<0.2	<0.2	<0.2	<0.1	<0.10	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.28	<0.28	<0.28	<0.28	<0.22	<0.29							
Hexachlorobutadiene			<1	<0.5	<0.6	<0.6	<0.6	<0.20	<0.6	<0.50	<0.50	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.60	<0.30	<0.40							
Isopropylbenzene			<b>36.0</b>	<b>6.5</b>	<b>23</b>	<b>3.4</b>	<b>1.55</b>	<b>0.25</b>	<0.1	<0.50	<0.50	<b>1.6</b>	<0.40	<0.60	<0.20	<0.20	<0.20	<0.20	<0.18	<0.30							
p-Isopropyltoluene			<b>22.0</b>	<0.4	<b>25</b>	<b>1.3</b>	<b>2.7</b>	<b>0.28</b>	<0.2	<b>0.59</b>	<0.50	<b>1.8</b>	<0.40	<0.40	<0.17	<0.17	<0.17	<0.17	<0.23	<0.30							
Methyl tert-butyl ether						<0.2	<1.1	<0.30	<1.1	<0.50	<0.50	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.23	<0.29	<0.30							
Methylene chloride	<50	<b>113</b>	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	<b>2.9 J,A,B,Q</b>	<0.40	<1.0	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40							
Naphthalene	<b>71.8</b>	<10	<b>122.4</b>	<b>7</b>	<b>14</b>	<b>1.75</b>	<b>1.75</b>	<b>0.89</b>	<0.7	<b>0.64</b>	<0.50	<0.50	<0.60	<0.70	<0.60	<0.60	<0.60	<0.60	<0.40	<0.40	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90	
n-Propylbenzene			<b>123.1</b>	<b>12</b>	<b>25</b>	<b>2.8</b>	<b>3.3</b>	<b>0.48</b>	<0.3	<b>0.7</b>	<0.50	<b>2.3</b>	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.30							
Styrene	<50	<50	<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2	<b>0.61</b>	<b>1.3</b>	<b>4.8</b>	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.20	<0.30							
Tetrachloroethene	<50	<50	<1	<0.3	<0.6	<0.6	<0.4	<b>0.12</b>	<0.4	<0.50	<0.50	<b>1.4 J</b>	<0.40	<0.29	<0.40	<0.40	<0.40	<0.40	<0.30	<0.30							
Tetrahydrofuran													<7.0	<7.0	<4.0	<4.0	<4.0	<4.0	<3.0	<4.0							
Toluene	<50	<50	<1	<0.2	<0.2	<0.2	<0.1	<0.20	<0.1	<0.50	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.22	<0.30							
Trichloroethene	<50	<50	<b>4.4</b>	<b>6</b>	<0.3	<b>4.4</b>	<b>3.75</b>	<b>3.0</b>	<b>1.6</b>	<b>1.5</b>	<b>1.2</b>	<b>0.9 J</b>	<b>1.2</b>	<b>0.81</b>	<b>0.94</b>	<b>0.73</b>	<b>0.7</b>	<b>1.4</b>	<b>1.5</b>	<b>0.94</b>							
Trichlorofluoromethane			<1	<0.5	<0.6	<0.6	<0.4	<0.20	<0.4	<0.40	<0.40	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.40	<0.20	<0.40							
Vinyl acetate	<100	<100											<8.0	<1.7	<1.1	<1.1	<1.1	<1.1	<3.0	<4.0							
Vinyl chloride	<100	<100	<1	<0.3	<0.5	<0.5	<0.4	<0.10	<0.4	<0.30	<0.30	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19							
Xylene, m & p-			<200	<b>4.5</b>	<0.3	<b>0.6</b>	<b>0.59</b>	<0.20	<0.2	<0.60	<0.60	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60			<0.90	<1.0	<1.1	<0.80	<0.80
Xylene, o-			<b>201.6</b>	<b>32</b>	<0.5	<0.5	<b>1.55</b>	<0.10	<b>0.28</b>	<b>0.84</b>	<0.50	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.50	<0.24	<0.29			<0.50	<0.50	<0.50	<b>0.60</b>	<0.40
Xylenes, Total	<b>297</b>	<b>447</b>												<1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.89			<1.4	<1.5	<1.6	<b>0.60</b>	<1.2

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.



Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W39

Parameter	06/17/92	06/21/94	07/09/96	07/11/97	06/24/98	06/09/99	07/19/00	07/11/01	08/06/02	07/22/03	07/14/04	07/20/05	07/19/06	7/19/2006 Duplicate	07/11/07	07/24/08	07/07/09	07/14/10	07/25/11	07/10/12	07/08/13	07/08/14	07/09/15	07/07/16	07/17/17
1,1,1,2-Tetrachloroethane		<1	<100	<0.1	<0.3	<3	<20	<20	<18	<9.0	<0.90	<0.50	<0.70	<0.70	<3.0	<6	<3.0	<2.4	<4.0						
1,1,1-Trichloroethane	<50	<1	<100	<0.3	<0.3	<3	<15	<15	<10	<5.0	<0.50	<0.60	<0.50	<0.50	<3.0	<6	<3.0	<2.1	<2.9						
1,1,2,2-Tetrachloroethane	<50	<1	<100	<0.2	<0.2	<2	<20	<20	<16	<8.0	<0.80	<0.15	<0.13	<0.13	<0.70	<1.4	<0.70	<1.9	<3.0						
1,1,2-Trichloroethane	<50	<1	<100	<1	<0.2	<2	<10	<10	<18	<9.0	<0.90	<0.40	<0.50	<0.50	<2.5	<5	<2.5	<2.6	<3.0						
1,1-Dichloroethane	<50	<1	<100	<0.2	<0.2	<2	<20	<20	<10	<5.0	<0.50	<0.50	<0.40	<0.40	<2.0	<4	<2.0	<2.0	<2.8						
1,1-Dichloroethene	<50	<1	<100	<0.4	<0.2	<2	<45	<45	<8.0	<4.0	<0.40	<0.50	<0.30	<0.30	<2.0	<4	<2.0	<2.4	<2.9						
1,1-Dichloropropene		<1	<100	<0.2	<0.3	<3	<20	<20	<10	<5.0	<0.50	<0.50	<0.60	<0.60	<2.5	<5	<2.5	<2.4	<4.0						
1,2,3-Trichlorobenzene		<1	<100	<0.5	<0.4	<4	<25	<25	<10	<5.0	<0.50	<0.60	<0.50	<0.50	<2.5	<5	<2.5	<3.0	<4.0						
1,2,3-Trichloropropane		<1	<100	<0.3	<0.2	<2	<15	<15	<16	<8.0	<0.80	<0.60	<0.70	<0.70	<1.5	<3	<1.5	<2.1	<4.0						
1,2,4-Trichlorobenzene		<1	<100	<0.5	<0.3	<3	<25	<25	<10	<5.0	<0.50	<0.70	<0.70	<0.70	<2.0	<4	<2.0	<3.0	<3.0						
1,2,4-Trimethylbenzene		<b>2400</b>	<b>606.2</b>	<b>1030</b>	<b>440</b>	<b>450</b>	<b>780</b>	<b>1200</b>	<b>530</b>	<b>210</b>	<b>24</b>	<b>8.1</b>	<b>130</b>	<b>79</b>	<b>350</b>	<b>210</b>	<b>390</b>	<b>420</b>	<b>380</b>		<b>150</b>	<b>130</b>	<b>56</b>	<b>130</b>	<b>96</b>
1,2-Dibromo-3-chloropropane		<3	<300	<0.3	<0.3	<3	<15	<15	<8.0	<4.0	<0.40	<1.1	<0.30	<0.30	<2.0	<4	<2.0	<4.0	<5.0						
1,2-Dibromoethane		<2	<200	<0.2	<0.4	<4	<15	<15	<6.0	<3.0	<0.30	<0.60	<0.50	<0.50	<0.65	<1.3	<0.65	<1.6	<3.0						
1,2-Dichlorobenzene		<1	<100	<0.3	<0.3	<3	<15	<15	<14	<7.0	<0.70	<0.50	<0.50	<0.50	<2.0	<4	<2.0	<2.3	<4.0						
1,2-Dichloroethane	<50	<1	<100	<0.2	<0.2	<2	<20	<20	<18	<9.0	<0.90	<0.50	<0.50	<0.50	<1.5	<3	<1.5	<3.0	<3.0						
cis-1,2-Dichloroethene		<1	<100	<0.2	<0.2	<2	<20	<20	<10	<5.0	<0.50	<0.60	<0.40	<0.40	<2.0	<4	<2.0	<2.5	<3.0						
trans-1,2-Dichloroethene	<50	<1	<100	<0.2	<0.3	<3	<40	<40	<8.0	<4.0	<0.40	<0.60	<0.40	<0.40	<2.5	<5	<2.5	<2.5	<3.0						
1,2-Dichloropropane	<50	<1	<100	<0.1	<0.2	<2	<15	<15	<8.0	<4.0	<0.40	<0.50	<0.50	<0.50	<1.1	<2.1	<1.1	<2.2	<2.9						
1,3,5-Trimethylbenzene		<b>600</b>	<b>328.24</b>	<b>520</b>	<b>200</b>	<b>330</b>	<b>470</b>	<b>590</b>	<b>600</b>	<b>140</b>	<b>20</b>	<b>7.3</b>	<b>130</b>	<b>81</b>	<b>150</b>	<b>71</b>	<b>190</b>	<b>230</b>	<b>140</b>						
1,3-Dichlorobenzene		<1	<100	<0.7	<0.4	<4	<20	<20	<10	<5.0	<0.50	<0.50	<0.40	<0.40	<2.0	<4	<2.0	<2.6	<3.0						
cis-1,3-Dichloropropene	<50	<1	<100	<0.3	<0.3	<3	<10	<10	<12	<6.0	<0.60	<0.12	<0.14	<0.14	<0.70	<1.4	<0.70	<1.9	<2.8						
1,3-Dichloropropane		<1	<100	<0.3	<0.6	<6	<20	<25	<24	<12	<1.2	<0.60	<0.19	<0.19	<0.95	<1.9	<0.95	<2.3	<3.0						
trans-1,3-Dichloropropene	<50	<1	<100	<0.2	<0.2	<2	<25	<25	<14	<7.0	<0.70	<0.14	<0.14	<0.14	<0.70	<1.4	<0.70	<1.9	<3.0						
1,4-Dichlorobenzene		<1	<100	<0.3	<0.3	<3	<20	<20	<10	<5.0	<0.50	<0.50	<0.60	<0.60	<2.5	<5	<2.5	<2.3	<3.0						
2,2-Dichloropropane		<1	<100	<0.2	<0.5	<5	<10	<10	<12	<6.0	<0.60	<0.60	<0.60	<0.60	<1.5	<3	<1.5	<2.5	<2.8						
2-Butanone (MEK)	<100											<7.0	<5.0	<5.0	<20	<40	<20	<24	<30						
2-Chlorethyl vinyl ether																									
2-Chlorotoluene		<1	<100	<0.4	<0.3	<3	<20	<20	<12	<6.0	<0.60	<0.50	<0.50	<0.50	<1.5	<3	<1.5	<2.2	<3.0						
2-Hexanone	<100											<7.0	<8.0	<8.0	<20	<40	<20	<40	<40						
4-Chlorotoluene		<1	<100	<0.3	<0.3	<3	<15	<15	<12	<6.0	<0.60	<0.40	<0.60	<0.60	<1.5	<3	<1.5	<2.1	<2.9						
4-Methyl-2-Pentanone (MIBK)	<100											<7.0	<6.0	<6.0	<15	<30	<15	<30	<30						
Acetone	<b>190</b>											<9.0	<b>12</b>	<b>16</b>	<35	<70	<35	<50	<50						
Benzene	<50	<b>5.3</b>	<100	<0.2	<0.3	<3	<5	<5.0	<8.0	<4.0	<0.40	<0.40	<0.40	<0.40	<0.80	<1.6	<0.80	<1.9	<3.0						
Bromobenzene		<1	<100	<0.3	<0.2	<2	<25	<25	<10	<5.0	<0.50	<0.50	<0.60	<0.60	<1.5	<3	<1.5	<2.0	<3.0						
Bromochloromethane		<1	<100	<0.4	<0.2	<2	<20	<20	<10	<5.0	<0.50	<0.50	<0.70	<0.70	<1.1	<2.1	<1.1	<2.2	<4.0						
Bromodichloromethane	<50	<1	<100	<0.2	<0.2	<2	<10	<10	<8.0	<4.0	<0.40	<0.13	<0.15	<0.15	<0.95	<1.9	<0.95	<2.0	<3.0						

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W39

Parameter	06/17/92	06/21/94	07/09/96	07/11/97	06/24/98	06/09/99	07/19/00	07/11/01	08/06/02	07/22/03	07/14/04	07/20/05	07/19/06	7/19/2006 Duplicate	07/11/07	07/24/08	07/07/09	07/14/10	07/25/11	07/10/12	07/08/13	07/08/14	07/09/15	07/07/16	07/17/17	
Bromoform	<50	<1	<100	<0.3	<0.2	<2	<5	<5.0	<12	<6.0	<0.60	<0.50	<0.21	<0.21	<2.5	<5	<2.5	<2.2	<2.4							
Bromomethane	<100	<2	<200	<0.3	<0.9	<9	<20	<20	<16	<8.0	<0.80	<0.80	<0.90	<0.90	<2.0	<4	<2.0	<5.0	<3.0							
n-Butylbenzene		<b>320</b>	<b>631.4</b>	<b>360</b>	<b>130</b>	<b>240</b>	<b>250</b>	<b>350</b>	<b>570</b>	<b>180</b>	<b>37</b>	<b>4.5</b>	<b>19</b>	<b>22</b>	<b>29</b>	<b>15</b>	<b>41</b>	<b>42</b>	<b>12</b>							
sec-Butylbenzene		<b>160</b>	<b>238.3</b>	<b>260</b>	<b>66</b>	<b>66</b>	<b>79</b>	<b>47 J</b>	<b>78</b>	<b>26</b>	<b>9.9</b>	<b>6.1</b>	<b>10</b>	<b>11</b>	<b>21</b>	<b>12</b>	<b>30</b>	<b>27</b>	<b>15</b>							
tert-Butylbenzene		<25	<100	<0.3	<0.3	<3	<5	<5.0	<10	<5.0	<b>7</b>	<b>2.1</b>	<b>7.2</b>	<b>8.4</b>	<b>8.7</b>	<b>4.4</b>	<b>11</b>	<b>5.2</b>	<b>5.6</b>							
Carbon disulfide	<50											<1.1	<1.0	<1.0	<2.5	<5	<2.5	<5.0	<6.0							
Carbon tetrachloride	<50	<1	<100	<0.2	<0.4	<4	<15	<15	<12	<6.0	<0.60	<0.50	<0.50	<0.50	<2.0	<4	<2.0	<2.3	<4.0							
Chlorobenzene	<50	<1	<100	<0.3	<0.3	<3	<15	<15	<16	<8.0	<0.80	<0.50	<0.40	<0.40	<1.5	<3	<1.5	<2.4	<3.0							
Chlorodibromomethane	<50	<1	<100	<0.3	<0.3	<3	<20	<20	<8.0	<4.0	<0.40	<0.60	<0.60	<0.60	<1.2	<2.3	<1.2	<1.9	<2.6							
Chloroethane	<100	<2	<200	<0.4	<0.8	<8	<25	<25	<10	<5.0	<0.50	<0.70	<0.60	<0.60	<2.0	<4	<2.0	<4.0	<3.0							
Chloroform	<50	<b>3.5</b>	<100	<0.2	<0.2	<2	<25	<25	<12	<6.0	<0.60	<0.50	<0.50	<0.50	<1.1	<2.2	<1.1	<b>4.8</b>	<b>5.9</b>							
Chloromethane	<100	<2	<200	<0.7	<0.9	<9	<15	<15	<8.0	<4.0	<0.40	<0.24	<0.30	<b>0.36</b>	<1.5	<3	<1.5	<4.0	<4.0							
Dibromomethane		<1	<100	<0.1	<0.2	<2	<20	<20	<10	<5.0	<0.50	<0.70	<0.80	<0.80	<2.0	<4	<2.0	<2.4	<3.0							
Dichlorodifluoromethane		<2	<200	<0.3	<1.2	<12	<25	<25	<10	<5.0	<0.50	<0.60	<0.29	<0.29	<2.0	<4	<2.0	<2.6	<3.0							
Diisopropyl Ether						<3	<5	<5.0	<10	<5.0	<0.50	<0.50	<0.40	<0.40	<2.5	<5	<2.5	<2.0	<3.0							
Ethylbenzene	<b>69.5</b>	75	<100	<0.2	<0.2	<2	<5	<5.0	<10	<5.0	<0.50	<0.50	<0.50	<0.50	<b>2.2</b>	<2.8	<b>6.8</b>	<b>3.4</b>	<b>3</b>							
Hexachlorobutadiene		<1	<100	<0.5	<0.6	<6	<30	<30	<10	<5.0	<0.50	<0.60	<0.90	<0.90	<3.0	<6	<3.0	<3.0	<4.0							
Isopropylbenzene		<b>180</b>	<b>180.87</b>	<b>310</b>	<b>44</b>	<b>27</b>	<b>25</b>	<b>24</b>	<b>33</b>	<5.0	<b>5.7</b>	<b>0.45</b>	<b>0.99</b>	<b>1.2</b>	<b>10</b>	<b>6.7</b>	<b>16</b>	<1.8	<b>15</b>							
p-Isopropyltoluene		<25	<100	<b>480</b>	<b>56</b>	<b>78</b>	<b>78</b>	<b>64</b>	<b>110</b>	<b>37</b>	<b>9.9</b>	<b>4.6</b>	<b>23</b>	<b>27</b>	<b>30</b>	<b>13</b>	<b>42</b>	<b>38</b>	<b>13</b>							
Methyl tert-butyl ether						<2	<55	<55	<10	<5.0	<0.50	<0.60	<0.40	<0.40	<1.2	<2.3	<1.2	<2.9	<3.0							
Methylene chloride	<50	<3	<300	<0.3	<0.5	<5	<95	<95	<20	<10	<b>2.9 J,A,B,Q</b>	<0.40	<1.0	<1.0	<b>2.7</b>	<5	<2.5	<b>10</b>	<b>9.8 B</b>							
Naphthalene	<b>632</b>	<b>160</b>	<b>121.68</b>	<0.8	<b>48</b>	<b>40</b>	<b>84</b>	<b>130</b>	<b>54</b>	<5.0	<b>1.2 J</b>	<b>0.75</b>	<b>5</b>	<b>6.9</b>	<b>35</b>	<b>25</b>	<b>72</b>	<b>30</b>	<b>13</b>	<b>19</b>	<b>21</b>	<b>23</b>	<b>12</b>	<b>19</b>	<b>13</b>	
n-Propylbenzene		<b>280</b>	<100	<b>710</b>	<b>54</b>	<b>34</b>	<b>41</b>	<b>53</b>	<b>58</b>	<b>14</b>	<b>5.1</b>	<b>0.98</b>	<b>2.1</b>	<b>2.5</b>	<b>16</b>	<b>10</b>	<b>27</b>	<b>17</b>	<b>21</b>							
Styrene	<50	<25	<b>309.4</b>	<0.2	<0.2	<2	<10	<10	<b>63</b>	<b>27</b>	<b>14</b>	<0.50	<0.50	<0.50	<1.5	<3	<1.5	<2.0	<3.0							
Tetrachloroethene	<50	<b>3</b>	<100	<0.3	<0.6	<6	<20	<20	<10	<5.0	<b>5</b>	<b>0.47</b>	<b>1.6</b>	<b>2</b>	<2.0	<4	<2.0	<3.0	<3.0							
Tetrahydrofuran												<7.0	<7.0	<7.0	<20	<40	<20	<30	<40							
Toluene	<b>189</b>	<1	<100	<0.2	<0.2	<2	<b>18</b>	<5.0	<10	<5.0	<0.50	<0.40	<0.40	<0.40	<1.0	<2	<1.0	<2.2	<3.0							
Trichloroethene	<50	<b>19</b>	<100	<0.2	<0.3	<3	<15	<15	<12	<6.0	<0.60	<b>0.31</b>	<b>0.34</b>	<b>0.33</b>	<0.75	<1.5	<0.75	<2.1	<4.0							
Trichlorofluoromethane		<1	<100	<0.5	<0.6	<6	<20	<20	<8.0	<4.0	<0.40	<0.50	<0.70	<0.70	<2.0	<4	<2.0	<2.0	<4.0							
Vinyl acetate	<100											<8.0	<1.7	<1.7	<5.5	<11	<5.5	<30	<40							
Vinyl chloride	<100	<1	<100	<0.3	<0.5	<5	<20	<20	<6.0	<3.0	<0.30	<0.12	<0.15	<0.15	<0.75	<1.5	<0.75	<1.8	<1.9							
Xylene, m & p-		<b>450</b>	<200	<b>90</b>	<b>46</b>	<b>23</b>	<b>87</b>	<b>75</b>	<b>33</b>	<b>6.4</b>	<b>2</b>	<1.0	<b>1.3</b>	<b>1.8</b>	<b>9.3</b>	<b>8.3</b>	<b>22</b>	<b>17</b>	<b>19</b>			<4.5	<5.0	<2.2	<b>6</b>	<4.0
Xylene, o-		<b>600</b>	<100	<0.2	<0.5	<b>87</b>	<b>230</b>	<b>190</b>	<b>82</b>	<b>14</b>	<0.50	<b>0.62</b>	<b>4.6</b>	<b>6.5</b>	<b>38</b>	<b>38</b>	<b>86</b>	<b>76</b>	<b>55</b>			<b>23</b>	<b>18</b>	<b>11</b>	<b>20</b>	<b>13</b>
Xylenes, Total	<b>1000</b>											<b>0.62</b>	<b>5.9</b>	<b>8.3</b>	<b>47.3</b>	<b>46.3</b>	<b>108</b>	<b>93</b>	<b>74</b>			<b>23</b>	<b>18</b>	<b>11</b>	<b>26</b>	<b>13</b>

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W40

Parameter	07/15/10	07/25/11	07/19/12	07/08/13	07/08/14	07/09/15	07/12/16	07/18/17
1,1,1,2-Tetrachloroethane	<2.4	<10						
1,1,1-Trichloroethane	<2.1	<7.3						
1,1,2,2-Tetrachloroethane	<1.9	<7.5						
1,1,2-Trichloroethane	<2.6	<7.5						
1,1-Dichloroethane	<2.0	<7.0						
1,1-Dichloroethene	<2.4	<7.3						
1,1-Dichloropropene	<2.4	<10						
1,2,3-Trichlorobenzene	<3.0	<10						
1,2,3-Trichloropropane	<2.1	<10						
1,2,4-Trichlorobenzene	<3.0	<7.5						
1,2,4-Trimethylbenzene	2000	1700		4300	1600	1400	1400	2200
1,2-Dibromo-3-chloropropane	<4.0	<13						
1,2-Dibromoethane	<1.6	<7.5						
1,2-Dichlorobenzene	<2.3	<10						
1,2-Dichloroethane	<3.0	<7.5						
cis-1,2-Dichloroethene	<2.5	<7.5						
trans-1,2-Dichloroethene	<2.5	<7.5						
1,2-Dichloropropane	<2.2	<7.3						
1,3,5-Trimethylbenzene	590	610						
1,3-Dichlorobenzene	<2.6	<7.5						
cis-1,3-Dichloropropene	<1.9	<7.0						
1,3-Dichloropropane	<2.3	<7.5						
trans-1,3-Dichloropropene	<1.9	<7.5						
1,4-Dichlorobenzene	<2.3	<7.5						
2,2-Dichloropropane	<2.5	<7.0						
2-Butanone (MEK)	<24	<75						
2-Chlorethyl vinyl ether								
2-Chlorotoluene	<2.2	<7.5						
2-Hexanone	<40	<100						
4-Chlorotoluene	<2.1	<7.3						
4-Methyl-2-Pentanone (MIBK)	<30	<75						
Acetone	<50	<130						
Benzene	2.7	<7.5						
Bromobenzene	<2.0Q	<7.5						
Bromochloromethane	<2.2	<10						
Bromodichloromethane	<2.0	<7.5						
Bromoform	<2.2	<6.0						
Bromomethane	<5.0	<7.5						
n-Butylbenzene	150	73						
sec-Butylbenzene	78	49						
tert-Butylbenzene	22	17						
Carbon disulfide	<5.0	<15						
Carbon tetrachloride	<2.3	<10						
Chlorobenzene	<2.4	<7.5						
Chlorodibromomethane	<1.9	<6.5						
Chloroethane	<4.0	<7.5						
Chloroform	8	6.2						
Chloromethane	<4.0	<10						
Dibromomethane	<2.4	<7.5						
Dichlorodifluoromethane	<2.6	<7.5						
Diisopropyl Ether	<2.0	<7.5						
Ethylbenzene	38	36						
Hexachlorobutadiene	<3.0	<10						

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W40

Parameter	07/15/10	07/25/11	07/19/12	07/08/13	07/08/14	07/09/15	07/12/16	07/18/17
Isopropylbenzene	49	50						
p-Isopropyltoluene	120	83						
Methyl tert-butyl ether	<2.9	<7.5						
Methylene chloride	8.9	31 B						
Naphthalene	170	230	150 M	600	250	200	200	300
n-Propylbenzene	100	79						
Styrene	<2.0	<7.5						
Tetrachloroethene	<3.0	<7.5						
Tetrahydrofuran	<30	<100						
Toluene	12	14						
Trichloroethene	21	17						
Trichlorofluoromethane	<2.0	<10						
Vinyl acetate	<30	<100						
Vinyl chloride	<1.8	<4.8						
Xylene, m & p-	160	170		130	<50	66	120	89
Xylene, o-	460	450		680	440	380	450	440
Xylenes, Total	620	620		810	440	446	570	529

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W41

Parameter	06/16/92	09/17/92	12/19/92	03/24/93	06/30/93	12/28/93	06/21/94	07/06/95	07/09/96	07/11/97	06/24/98	06/08/99	07/19/00	01/31/01	07/11/01	08/06/02
1,1,1,2-Tetrachloroethane				<1		<1	<1		<10	<0.1	<0.3	∆3	<4	<2.0	<2.0	<4.5
1,1,1-Trichloroethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.3	<0.3	∆3	∆3	<2.0	<1.5	<2.5
1,1,2,2-Tetrachloroethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	∆2	∆4	<2.0	<2.0	<4.0
1,1,2-Trichloroethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<1	<0.2	∆2	∆2	<1.0	<1.0	<4.5
1,1-Dichloroethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	∆2	∆4	<1.0	<2.0	<2.5
1,1-Dichloroethene	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.4	<0.2	∆2	∆9	<2.0	<4.5	<2.0
1,1-Dichloropropene				<1		<1	<1	<10	<10	<0.2	<0.3	∆3	∆4	<2.0	<2.0	<2.5
1,2,3-Trichlorobenzene				<1	<100	<1	<1		<10	<0.5	<0.4	∆4	∆5	<3.0	<2.5	<2.5
1,2,3-Trichloropropane				<1		<1	<1		<10	<0.3	<0.2	∆2	∆3	<1.0	<1.5	<4.0
1,2,4-Trichlorobenzene				<1	<100	<1	<1		<10	<0.5	<0.3	∆3	∆5	<3.0	<2.5	<2.5
1,2,4-Trimethylbenzene				<b>620</b>	<b>2200</b>	<b>110</b>	<b>20</b>		<b>137.7</b>	<b>160</b>	<b>340</b>	<b>310</b>	<b>250</b>	<b>270</b>	<b>200</b>	<b>86</b>
1,2-Dibromo-3-chloropropane				<3	<300	<3	<3		<30	<0.3	<0.3	∆3	∆3	<4.0	<1.5	<2.0
1,2-Dibromoethane				<2	<200	<2	<2		<20	<0.2	<0.4	∆4	∆3	<1.0	<1.5	<1.5
1,2-Dichlorobenzene				<1	<100	<1	<1	<20	<10	<0.3	<0.3	∆3	∆3	<2.0	<1.5	<3.5
1,2-Dichloroethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	∆2	∆4	<2.0	<2.0	<4.5
cis-1,2-Dichloroethene				<1	<100	<1	<1	<20	<10	<0.2	<0.2	∆2	∆4	<2.0	<2.0	<2.5
trans-1,2-Dichloroethene	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.3	∆3	∆8	<1.0	<4.0	<2.0
1,2-Dichloropropane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.1	<0.2	∆2	∆3	<2.0	<1.5	<2.0
1,3,5-Trimethylbenzene				<b>230</b>	<b>2400</b>	<b>130</b>	<b>400</b>		<b>85.0</b>	<b>140</b>	<b>190</b>	<b>180</b>	<b>140</b>	<b>140</b>	<b>100</b>	<b>47</b>
1,3-Dichlorobenzene				<1	<100	<1	<1	<20	<10	<0.7	<0.4	∆4	∆4	<1.0	<2.0	<2.5
cis-1,3-Dichloropropene	<50	<50	<5	<1		<1	<1	<20	<10	<0.3	<0.3	∆3	∆2	<1.0	<1.0	<3.0
1,3-Dichloropropane				<1	<100	<1	<1		<10	<0.3	<0.6	∆6	∆4	<1.0	<2.0	<6.0
trans-1,3-Dichloropropene	<50	<50	<5	<1		<1	<1	<20	<10	<0.2	<0.2	∆2	∆5	<1.0	<2.5	<3.5
1,4-Dichlorobenzene				<1	<100	<1	<1	<20	<10	<0.3	<0.3	∆3	∆4	<1.0	<2.0	<2.5
2,2-Dichloropropane				<1	<100	<1	<1		<10	<0.2	<0.5	∆5	∆2	<2.0	<1.0	<3.0
2-Butanone (MEK)	<100	<100	<b>38.5</b>													
2-Chloroethyl vinyl ether								<200								
2-Chlorotoluene				<1	<100	<1	<1		<10	<0.4	<0.3	∆3	∆4	<1.0	<2.0	<3.0
2-Hexanone	<100	<100	<10													
4-Chlorotoluene				<1	<100	<1	<1		<10	<0.3	<0.3	∆3	∆3	<2.0	<1.5	<3.0
4-Methyl-2-Pentanone (MIBK)	<100	<100	<10													
Acetone	<b>191</b>	<b>123</b>	<b>170</b>													
Benzene	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.3	∆3	<1	<1.0	<0.5	<2.0
Bromobenzene				<1	<100	<1	<1		<10	<0.3	<0.2	∆2	∆5	<1.0	<2.5	<2.5
Bromochloromethane				<1		<1	<1		<10	<0.4	<0.2	∆2	∆4	<1.0	<2.0	<2.5
Bromodichloromethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	∆2	∆2	<1.0	<1.0	<2.0
Bromoform	<50	<50	<5	<1		<1	<1	<20	<10	<0.3	<0.2	∆2	∆1	<2.0	<0.5	<3.0
Bromomethane	<100	<100	<10	<2		<2	<2	<40	<20	<0.3	<0.9	∆9	∆4	<4.0	<2.0	<4.0
n-Butylbenzene				<b>230</b>	<b>4800</b>	<b>120</b>	<b>280</b>		<b>128.9</b>	<b>110</b>	<b>170</b>	<b>180</b>	<b>190</b>	<b>18</b>	<b>120</b>	<b>76</b>
sec-Butylbenzene				<b>58</b>	<b>2900</b>	<b>12</b>	<b>13</b>		<b>21.7</b>	<0.3	<b>60</b>	75	47	<b>18</b>	<b>39</b>	<b>15</b>
tert-Butylbenzene				<1	<100	<1	<1		<10	<0.3	<b>40</b>	∆3	<1	<b>9.1</b>	<0.5	<2.5
Carbon disulfide	<50	<50	<5													
Carbon tetrachloride	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.4	∆4	∆3	<1.0	<1.5	<3.0
Chlorobenzene	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.3	<0.3	∆3	∆3	<1.0	<1.5	<4.0
Chlorodibromomethane	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.3	<0.3	∆3	∆4	<2.0	<2.0	<2.0
Chloroethane	<100	<100	<10	<2	<200	<2	<2	<40	<20	<0.4	<0.8	∆8	∆5	<4.0	<2.5	<2.5
Chloroform	<50	<50	<5	<1	<100	<1	<b>2.8</b>	<20	<10	<0.2	<0.2	∆2	∆5	<1.0	<2.5	<3.0

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W41

Parameter	06/16/92	09/17/92	12/19/92	03/24/93	06/30/93	12/28/93	06/21/94	07/06/95	07/09/96	07/11/97	06/24/98	06/08/99	07/19/00	01/31/01	07/11/01	08/06/02
Chloromethane	<100	<100	<10	<2	<200	<2	<2	<40	<20	<0.7	<0.9	<9	<3	<2.0	<1.5	<2.0
Dibromomethane				<1		<1	<1		<10	<0.1	<0.2	<2	<4	<2.0	<2.0	<2.5
Dichlorodifluoromethane				<2	<200	<2	<2		<20	<0.3	<1.2	<12	<5	<1.0	<2.5	<2.5
Diisopropyl Ether					<100							<3	<1	<1.0	<0.5	<2.5
Ethylbenzene	<50	<50	<5	<b>6.3</b>	<b>600</b>	<1	<1	<20	<10	<0.2	<0.2	<2	<1	<b>1.4</b>	<0.5	<2.5
Hexachlorobutadiene				<1	<100	<1	<1		<10	<0.5	<0.6	<6	<6	<2.0	<3.0	<2.5
Isopropylbenzene				<b>57</b>	<b>2000</b>	<b>7.1</b>	<b>14</b>		<b>21.9</b>	<0.2	<b>68</b>	<b>60</b>	<b>22</b>	<b>8.9</b>	<b>35</b>	<b>10</b>
p-Isopropyltoluene				<1	<b>1200</b>	<b>13</b>	<1		<b>56.0</b>	<0.4	<b>40</b>	<b>160</b>	<b>40</b>	<b>16</b>	<b>39</b>	<b>16</b>
Methyl tert-butyl ether					<100							<2	<11	<3.0	<5.5	<2.5
Methylene chloride	<50	<b>53.7</b>	<10	<3	<300	<3	<3	<60	<30	<0.3	<0.5	<5	<19	<4.0	<9.5	<5.0
Naphthalene	<103	<b>48.1</b>	<b>52.3</b>	<b>95</b>	<b>630</b>	<b>44</b>	<b>27</b>	<b>52</b>	<b>17.2</b>	<0.8	<b>34</b>	<b>32</b>	<b>19</b>	<b>26</b>	<b>15</b>	<b>4.6</b>
n-Propylbenzene				<b>36</b>	<b>2400</b>	<b>6.6</b>	<1		<b>25.6</b>	<b>110</b>	<b>54</b>	<b>57</b>	<b>32</b>	<b>14</b>	<b>35</b>	<b>12</b>
Styrene	<50	<50	<5	<b>5.9</b>		<1	<1		<10	<0.2	<0.2	<2	<2	<1.0	<1.0	<b>18</b>
Tetrachloroethene	<50	<50	<5	<b>1.3</b>	<100	<b>3.8</b>	<b>6.5</b>	<20	<10	<0.3	<0.6	<6	<4	<b>1.6</b>	<b>10</b>	<b>4.1</b>
Tetrahydrofuran																
Toluene	<50	<50	<5	<b>7.5</b>	<100	<b>3.6</b>	<1	<20	<10	<0.2	<0.2	<2	<b>4</b>	<2.0	<0.5	<2.5
Trichloroethene	<50	<50	<5	<b>3.8</b>	<100	<b>4</b>	<b>4.4</b>	<20	<10	<0.2	<0.3	<3	<3	<2.0	<1.5	<3.0
Trichlorofluoromethane				<1	<100	<1	<1	<20	<10	<0.5	<0.6	<6	<4	<2.0	<2.0	<2.0
Vinyl acetate	<100	<100	<10													
Vinyl chloride	<100	<100	<10	<1	<100	<1	<1	<20	<10	<0.3	<0.5	<5	<4	<1.0	<2.0	<1.5
Xylene, m & p-				<b>60</b>	<b>500</b>	<b>5</b>	<b>5.8</b>	<b>77</b>	<20	<0.4	<b>48</b>	<b>22</b>	<b>11</b>	<b>7.6</b>	<b>13</b>	<b>4.7</b>
Xylene, o-				<b>190</b>	<b>2700</b>	<b>18</b>	<b>160</b>	<b>140</b>	<10	<0.2	<0.5	<b>140</b>	<b>69</b>	<b>21</b>	<0.5	<2.5
Xylenes, Total	<b>66.2</b>	<b>135</b>	<b>67.3</b>													

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W41

Parameter	07/22/03	07/13/04	7/13/2004 Duplicate	07/19/05	07/19/06	07/10/07	07/24/08	07/07/09	07/14/10	07/20/11	07/10/12	07/05/13	07/09/14	07/08/15	07/12/16	07/18/17
1,1,1,2-Tetrachloroethane	<4.5	<0.90	<4.5	<10.0	<3.5 *	<3.0	<3.0	<0.60	<0.24	<0.40						
1,1,1-Trichloroethane	<2.5	<0.50	<2.5	<12.0	<2.5 *	<3.0	<3.0	<0.60	<0.21	<0.29						
1,1,2,2-Tetrachloroethane	<4.0	<0.80	<4.0	<3.0	<0.65 *	<0.70	<0.70	<0.14	<0.19	<0.30						
1,1,2-Trichloroethane	<4.5	<0.90	<4.5	<8.0	<2.5 *	<2.5	<2.5	<0.50	<0.26	<0.30						
1,1-Dichloroethane	<2.5	<0.50	<2.5	<10.0	<2.0 *	<2.0	<2.0	<0.40	<0.20	<0.28						
1,1-Dichloroethene	<2.0	<0.40	<2.0	<10.0	<1.5 *	<2.0	<2.0	<0.40	<0.24	<0.29						
1,1-Dichloropropene	<2.5	<0.50	<2.5	<10.0	<3.0 *	<2.5	<2.5	<0.50	<0.24	<0.40						
1,2,3-Trichlorobenzene	<2.5	<0.50	<2.5	<12.0	<2.5 *	<2.5	<2.5	<0.50	<0.30	<0.40						
1,2,3-Trichloropropane	<4.0	<0.80	<4.0	<12.0	<3.5 *	<1.5	<1.5	<0.30	<0.21	<0.40						
1,2,4-Trichlorobenzene	<2.5	<0.50	<2.5	<14.0	<3.5 *	<2.0	<2.0	<0.40	<0.30	<0.30						
1,2,4-Trimethylbenzene	<b>130</b>	<b>4.0</b>	<b>90</b>	<b>220</b>	<b>200 *</b>	<b>1</b>	<b>29</b>	<b>120</b>	<b>49</b>	<b>150</b>		<b>54</b>	<b>170</b>	<b>230</b>	<b>300</b>	<b>160</b>
1,2-Dibromo-3-chloropropane	<2.0	<0.40	<2.0	<22.0	<1.5 *	<2.0	<2.0	<0.40	<0.40	<0.50						
1,2-Dibromoethane	<1.5	<0.30	<1.5	<12.0	<2.5 *	<0.65	<0.65	<0.13	<0.16	<0.30						
1,2-Dichlorobenzene	<3.5	<0.70	<3.5	<10.0	<2.5 *	<2.0	<2.0	<0.40	<0.23	<0.40						
1,2-Dichloroethane	<4.5	<0.90	<4.5	<10.0	<2.5 *	<1.5	<1.5	<0.30	<0.30	<0.30						
cis-1,2-Dichloroethene	<2.5	<0.50	<2.5	<12.0	<2.0 *	<2.0	<2.0	<0.40	<0.25	<0.30						
trans-1,2-Dichloroethene	<2.0	<0.40	<2.0	<12.0	<2.0 *	<2.5	<2.5	<0.50	<0.25	<0.30						
1,2-Dichloropropane	<2.0	<0.40	<2.0	<10.0	<2.5 *	<1.1	<1.1	<0.21	<0.22	<0.29						
1,3,5-Trimethylbenzene	<b>75</b>	<b>2.4</b>	<b>55</b>	<b>140</b>	<b>110*</b>	<b>150</b>	<b>27</b>	<b>120</b>	<b>47</b>	<b>60</b>						
1,3-Dichlorobenzene	<2.5	<0.50	<2.5	<10.0	<2.0 *	<2.0	<0.95	<0.40	<0.26	<0.30						
cis-1,3-Dichloropropene	<3.0	<0.60	<3.0	<2.4	<0.75*	<0.70	<0.70	<0.14	<0.19	<0.28						
1,3-Dichloropropane	<6.0	<1.2	<6.0	<12.0	<2.5 *	<0.95	<0.95	<0.19	<0.23	<0.30						
trans-1,3-Dichloropropene	<3.5	<0.70	<3.5	<2.8	<0.70*	<0.70	<0.70	<0.14	<0.19	<0.30						
1,4-Dichlorobenzene	<2.5	<0.50	<2.5	<10.0	<3.0 *	<2.5	<2.5	<0.50	<0.23	<0.30						
2,2-Dichloropropane	<3.0	<0.60	<3.0	<12.0	<3.0 *	<1.5	<1.5	<0.30	<0.25	<0.28						
2-Butanone (MEK)				<14.0	<b>46 *</b>	<b>27</b>	<20	<b>9.7</b>	<b>2.4</b>	<b>3.8</b>						
2-Chloroethyl vinyl ether																
2-Chlorotoluene	<3.0	<0.60	<3.0	<10.0	<2.5 *	<1.5	<1.5	<0.30	<0.22	<0.30						
2-Hexanone				<14.0	<40 *	<20	<20	<4.0	<4.0	<4.0						
4-Chlorotoluene	<3.0	<0.60	<3.0	<8.0	<3.0 *	<1.5	<1.5	<0.30	<0.21	<0.29						
4-Methyl-2-Pentanone (MIBK)				<14.0	<30 *	<15	<15	<3.0	<3.0	<3.0						
Acetone				<18.0	<b>55 *</b>	<b>43</b>	<35	<7.0	<5.0	<5.0						
Benzene	<2.0	<0.40	<2.0	<8.0	<2.0 *	<0.80	<0.80	<0.16	<0.19	<0.30						
Bromobenzene	<2.5	<0.50	<2.5	<10.0	<3.0 *	<1.5	<1.5	<0.30	<0.20	<0.30						
Bromochloromethane	<2.5	<0.50	<2.5	<10.0	<3.5 *	<1.1	<1.1	<0.21	<0.22	<0.40						
Bromodichloromethane	<2.0	<0.40	<2.0	<2.6	<0.75 *	<0.95	<0.95	<0.19	<0.20	<0.30						
Bromoform	<3.0	<0.60	<3.0	<10.0	<1.1 *	<2.5	<2.5	<0.50	<0.22	<0.24						
Bromomethane	<4.0	<0.80	<4.0	<16.0	<4.5 *	<2.0	<2.0	<0.40	<0.50	<0.30						
n-Butylbenzene	<b>150</b>	<b>14</b>	<b>64</b>	<b>18</b>	<b>21 *</b>	<b>26</b>	<b>10</b>	<b>28</b>	<b>11</b>	<b>6.1</b>						
sec-Butylbenzene	<b>35</b>	<b>8</b>	<b>21</b>	<b>14</b>	<b>20 *</b>	<b>20</b>	<b>7.4</b>	<b>18</b>	<b>9.2</b>	<b>4.7</b>						
tert-Butylbenzene	<2.5	5.6	<2.5	<10.0	<b>10 *</b>	<b>9.7</b>	<b>2.4</b>	<b>9.4</b>	<b>3.5</b>	<b>4.5</b>						
Carbon disulfide				<22.0	<5.0 *	<2.5	<2.5	<0.50	<0.50	<0.60						
Carbon tetrachloride	<3.0	<0.60	<3.0	<10.0	<2.5 *	<2.0	<2.0	<0.40	<0.23	<0.40						
Chlorobenzene	<4.0	<0.80	<4.0	<10.0	<2.0 *	<1.5	<1.5	<0.30	<0.24	<0.30						
Chlorodibromomethane	<2.0	<0.40	<2.0	<12.0	<3.0 *	<1.2	<1.2	<0.23	<0.19	<0.26						
Chloroethane	<2.5	<0.50	<2.5	<14.0	<b>4.9 *</b>	<b>3.4</b>	<2.0	<0.40	<0.40	<0.30						
Chloroform	<3.0	<0.60	<3.0	<10.0	<2.5 *	<1.1	<1.1	<0.22	<0.15	<b>11</b>						

Volatile Organic Compounds - Historical Data  
WAULECO, INC - Wausau Facility  
Well - W41

Parameter	07/22/03	07/13/04	7/13/2004 Duplicate	07/19/05	07/19/06	07/10/07	07/24/08	07/07/09	07/14/10	07/20/11	07/10/12	07/05/13	07/09/14	07/08/15	07/12/16	07/18/17
Chloromethane	<2.0	<0.40	<2.0	<4.8	<b>2.3 *</b>	<b>2.8</b>	<1.5	<b>0.68AB</b>	<0.40	<0.40						
Dibromomethane	<2.5	<0.50	<2.5	<14.0	<4.0 *	<2.0	<2.0	<0.40	<0.24	<0.30						
Dichlorodifluoromethane	<2.5	<0.50	<2.5	<12.0	<1.5 *	<2.0	<2.0	<0.40	<0.26	<0.30						
Diisopropyl Ether	<2.5	<0.50	<2.5	<10.0	<2.0 *	<2.5	<2.5	<0.50	<0.20	<0.30						
Ethylbenzene	<2.5	<0.50	<2.5	<10.0	<2.5 *	<1.4	<1.4	<b>0.47</b>	<b>0.41</b>	<b>0.91</b>						
Hexachlorobutadiene	<2.5	<0.50	<2.5	<12.0	<4.5 *	<3.0	<3.0	<0.60	<0.30	<0.40						
Isopropylbenzene	<2.5	<b>0.92 J</b>	<b>18</b>	<8.0	<b>7.4 *</b>	<b>7.1</b>	<1	<b>3.8</b>	<b>0.27</b>	<b>7.7</b>						
p-Isopropyltoluene	<b>42</b>	<0.50	<2.5	<b>19</b>	<b>24 *</b>	<b>23</b>	<b>8.8</b>	<b>22</b>	<b>8.7</b>	<b>3.3</b>						
Methyl tert-butyl ether	<2.5	<0.50	<2.5	<12.0	<2.0 *	<1.2	<1.2	<0.23	<0.29	<0.30						
Methylene chloride	<5.0	<b>3.0 J,A,B,Q</b>	<b>25 A,B,Q</b>	<8.0	<b>19 Q*</b>	<b>12</b>	<2.5	<0.50	<0.40	<b>0.54 B</b>						
Naphthalene	<b>10</b>	<b>0.84 J</b>	<b>5.5 J</b>	<12.0	<b>9.4 *</b>	<b>11</b>	<3.0	<b>5.2</b>	<0.40	<b>22</b>	<1.6 V	<b>25</b>	<b>50</b>	<b>52</b>	<b>42</b>	<b>26</b>
n-Propylbenzene	<b>23</b>	<b>0.78 J</b>	<b>16</b>	<b>12</b>	<b>14 *</b>	<b>15</b>	<b>3</b>	<b>8.5</b>	<b>3.7</b>	<b>11</b>						
Styrene	<b>65</b>	<b>2.1</b>	<b>36</b>	<10.0	<2.5 *	<1.5	<1.5	<0.30	<0.20	<0.30						
Tetrachloroethene	<b>9.0</b>	<0.50	<b>5.7 J</b>	<8.0	<b>2.1 *</b>	<2.0	<b>3</b>	<b>2.4</b>	<b>1.8</b>	<b>2.3</b>						
Tetrahydrofuran		0.60		<140	<35 *	<20	<20	<4.0	<3.0	<4.0						
Toluene	<2.5	<0.50	<2.5	<8.0	<2.0 *	<1.0	<1.0	<0.20	<0.22	<0.30						
Trichloroethene	<3.0	<0.15	<3.0	<3.0	<0.75 *	<0.75	<0.75	<b>0.36</b>	<0.21	<0.40						
Trichlorofluoromethane	<2.0	<0.40	<2.0	<10.0	<3.5 *	<2.0	<2.0	<0.40	<0.20	<0.40						
Vinyl acetate				<160.	<8.5 *	<5.5	<5.5	<1.1	<3.0	<4.0						
Vinyl chloride	<1.5	<0.30	<1.5	<2.4	<0.75 *	<0.75	<0.75	<0.15	<0.18	<0.19						
Xylene, m & p-	<b>14</b>	<0.60	<b>7.1 J</b>	<20.0	<4.5 *	<b>4.1</b>	<2.5	<b>2.3</b>	<b>2.1</b>	<b>3.6</b>		<b>5.1</b>	<b>6.8</b>	<b>8.1</b>	<b>16</b>	<8.0
Xylene, o-	<2.5	<0.50	<2.5	<b>15</b>	<b>18 *</b>	<b>19</b>	<b>12</b>	<b>17</b>	<b>14</b>	<b>31</b>		<b>57</b>	<b>96</b>	<b>89</b>	<b>110</b>	<b>56</b>
Xylenes, Total				<b>15</b>	<b>18 *</b>	<b>23.1</b>	<b>12</b>	<b>19.3</b>	<b>16.1</b>	<b>34.6</b>		<b>62.1</b>	<b>102.8</b>	<b>97.1</b>	<b>126</b>	<b>56</b>

Prepared By: T. Dushek, 11/7/17

Checked by: A. Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

A = Analyte averaged calibration criteria within acceptable limits

B = Analyte detected in associated Method Blank

M = Matrix spike or matrix spike duplicate outside acceptance limits.

J = Estimated Value

Q = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.



Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W69

Parameter	07/14/04	7/14/2004 Duplicate	07/23/08	07/25/11	07/10/12	07/08/13
1,1,1,2-Tetrachloroethane	<18	<18	<6	<0.80		
1,1,1-Trichloroethane	<10	<10	<6	<0.58		
1,1,2,2-Tetrachloroethane	<16	<16	<1.4	<0.60		
1,1,2-Trichloroethane	<18	<18	<5	<0.60		
1,1-Dichloroethane	<10	<10	<4	<0.56		
1,1-Dichloroethene	<8.0	<8.0	<4	<0.58		
1,1-Dichloropropene	<10	<10	<5	<0.80		
1,2,3-Trichlorobenzene	<10	<10	<5	<0.80		
1,2,3-Trichloropropane	<16	<16	<3	<0.80		
1,2,4-Trichlorobenzene	<10	<10	<4	<0.60		
1,2,4-Trimethylbenzene	<b>740</b>	<b>1700</b>	<b>620</b>	<b>140</b>		<b>210</b>
1,2-Dibromo-3-chloropropane	<8.0	<8.0	<4	<1.0		
1,2-Dibromoethane	<6.0	<6.0	<1.3	<0.60		
1,2-Dichlorobenzene	<14	<14	<4	<0.80		
1,2-Dichloroethane	<18	<18	<3	<0.60		
cis-1,2-Dichloroethene	<10	<10	<4	<0.60		
trans-1,2-Dichloroethene	<8.0	<8.0	<5	<0.60		
1,2-Dichloropropane	<8.0	<8.0	<2.1	<0.58		
1,3,5-Trimethylbenzene	<b>320</b>	<b>820</b>	<b>170</b>	<b>72</b>		
1,3-Dichlorobenzene	<10	<10	<4	<0.60		
cis-1,3-Dichloropropene	<12	<12	<1.4	<0.56		
1,3-Dichloropropane	<24	<24	<1.9	<0.60		
trans-1,3-Dichloropropene	<14	<14	<1.4	<0.60		
1,4-Dichlorobenzene	<10	<10	<5	<0.60		
2,2-Dichloropropane	<12	<12	<3	<0.56		
2-Butanone (MEK)			<40	<6.0		
2-Chloroethyl vinyl ether						
2-Chlorotoluene	<12	<12	<3	<0.60		
2-Hexanone			<40	<8.0		
4-Chlorotoluene	<12	<12	<3	<0.58		
4-Methyl-2-Pentanone (MIBK)			<30	<6.0		
Acetone			<70	<10		
Benzene	<8.0	<8.0	<1.6	<0.60		
Bromobenzene	<10	<10	<3	<0.60		
Bromochloromethane	<10	<10	<2.1	<0.80		
Bromodichloromethane	<8.0	<8.0	<1.9	<0.60		
Bromoform	<12	<12	<5	<0.48		
Bromomethane	<16	<16	<4	<0.60		
n-Butylbenzene	<b>270</b>	<b>760</b>	<b>14</b>	<b>21</b>		
sec-Butylbenzene	<b>45</b>	<b>130</b>	<b>13</b>	<b>16</b>		
tert-Butylbenzene	<10	<10	<b>4.1</b>	<b>3.7</b>		

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W69

Parameter	07/14/04	7/14/2004 Duplicate	07/23/08	07/25/11	07/10/12	07/08/13
Carbon disulfide			<5	<1.2		
Carbon tetrachloride	<12	<12	<4	<0.80		
Chlorobenzene	<16	<16	<3	<0.60		
Chlorodibromomethane	<8.0	<8.0	<2.3	<0.52		
Chloroethane	<10	<10	<4	<0.60		
Chloroform	<12	<12	<2.2	<0.46		
Chloromethane	<8	<8	<3	<0.80		
Dibromomethane	<10	<10	<4	<0.60		
Dichlorodifluoromethane	<10	<10	<4	<0.60		
Diisopropyl Ether	<10	<10	<5	<0.60		
Ethylbenzene	<10	<b>16</b>	<b>24</b>	<b>3.5</b>		
Hexachlorobutadiene	<10	<10	<6	<0.80		
Isopropylbenzene	<b>46</b>	<b>110</b>	<b>40</b>	<b>9.5</b>		
p-Isopropyltoluene	<b>56</b>	<b>180</b>	<b>15</b>	<b>16</b>		
Methyl tert-butyl ether	<10	<10	<2.3	<0.60		
Methylene chloride	<b>76</b>	<b>78</b>	<5	<0.80		
Naphthalene	<b>32</b>	<b>46</b>	<b>33</b>	<b>7</b>	<b>2.8</b>	<b>23</b>
n-Propylbenzene	<b>78</b>	<b>190</b>	<b>67</b>	<b>18</b>		
Styrene	<10	<10	<3	<0.60		
Tetrachloroethene	<b>15</b>	<b>49</b>	<4	<b>2.4</b>		
Tetrahydrofuran			<40	<8.0		
Toluene	<10	<10	<b>4.5</b>	<b>0.75</b>		
Trichloroethene	<12	<12	<b>8.5</b>	<b>3.2</b>		
Trichlorofluoromethane	<8.0	<8.0	<4	<0.80		
Vinyl acetate			<11	<8.0		
Vinyl chloride	<6.0	<6.0	<1.5	<0.38		
Xylene, m & p-	<b>54</b>	<b>96</b>	<b>76</b>	<b>9.6</b>		<b>10</b>
Xylene, o-	<b>230</b>	<b>470</b>	<b>220</b>	<b>56</b>		<b>52</b>
Xylenes, Total	<b>284</b>	<b>566</b>	<b>296</b>	<b>65.6</b>		<b>62</b>

Prepared By: T. Dushek, 8/7/13

Checked by: A.Voit, 9/21/13

**NOTES:**

All Units are in ug/L

Bold values indicate detections

**A** = Analyte averaged calibration criteria within acceptable limits

**B** = Analyte detected in associated Method Blank

**M** = Matrix spike or matrix spike duplicate outside acceptance limits.

**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

WDNR letter dated March 18, 2014 concurred with a TRC letter dated October 13, 2013 that this well could be eliminated from the monitoring network.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W71

Parameter	07/01/16	07/10/17
1,1,1,2-Tetrachloroethane		
1,1,1-Trichloroethane		
1,1,2,2-Tetrachloroethane		
1,1,2-Trichloroethane		
1,1-Dichloroethane		
1,1-Dichloroethene		
1,1-Dichloropropene		
1,2,3-Trichlorobenzene		
1,2,3-Trichloropropane		
1,2,4-Trichlorobenzene		
1,2,4-Trimethylbenzene	<0.40	<0.40
1,2-Dibromo-3-chloropropane		
1,2-Dibromoethane		
1,2-Dichlorobenzene		
1,2-Dichloroethane		
cis-1,2-Dichloroethene		
trans-1,2-Dichloroethene		
1,2-Dichloropropane		
1,3,5-Trimethylbenzene		
1,3-Dichlorobenzene		
cis-1,3-Dichloropropene		
1,3-Dichloropropane		
trans-1,3-Dichloropropene		
1,4-Dichlorobenzene		
2,2-Dichloropropane		
2-Butanone (MEK)		
2-Chlorethyl vinyl ether		
2-Chlorotoluene		
2-Hexanone		
4-Chlorotoluene		
4-Methyl-2-Pentanone (MIBK)		
Acetone		
Benzene		
Bromobenzene		
Bromochloromethane		
Bromodichloromethane		
Bromoform		
Bromomethane		
n-Butylbenzene		
sec-Butylbenzene		
tert-Butylbenzene		
Carbon disulfide		
Carbon tetrachloride		
Chlorobenzene		
Chlorodibromomethane		
Chloroethane		
Chloroform		
Chloromethane		
Dibromomethane		
Dichlorodifluoromethane		
Diisopropyl Ether		
Ethylbenzene		
Hexachlorobutadiene		

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W71

Parameter	07/01/16	07/10/17
Isopropylbenzene		
p-Isopropyltoluene		
Methyl tert-butyl ether		
Methylene chloride		
Naphthalene	<0.90	<0.90
n-Propylbenzene		
Styrene		
Tetrachloroethene		
Tetrahydrofuran		
Toluene		
Trichloroethene		
Trichlorofluoromethane		
Vinyl acetate		
Vinyl chloride		
Xylene, m & p-	<0.80	<0.80
Xylene, o-	<0.40	<0.40
Xylenes, Total	<1.2	<1.2

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

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Bold values indicate detections

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**B** = Analyte detected in associated Method Blank

**M** = Matrix spike or matrix spike duplicate outside acceptance limits.

**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W72

Parameter	07/01/16	07/10/17
1,1,1,2-Tetrachloroethane		
1,1,1-Trichloroethane		
1,1,2,2-Tetrachloroethane		
1,1,2-Trichloroethane		
1,1-Dichloroethane		
1,1-Dichloroethene		
1,1-Dichloropropene		
1,2,3-Trichlorobenzene		
1,2,3-Trichloropropane		
1,2,4-Trichlorobenzene		
1,2,4-Trimethylbenzene	<0.40	<0.40
1,2-Dibromo-3-chloropropane		
1,2-Dibromoethane		
1,2-Dichlorobenzene		
1,2-Dichloroethane		
cis-1,2-Dichloroethene		
trans-1,2-Dichloroethene		
1,2-Dichloropropane		
1,3,5-Trimethylbenzene		
1,3-Dichlorobenzene		
cis-1,3-Dichloropropene		
1,3-Dichloropropane		
trans-1,3-Dichloropropene		
1,4-Dichlorobenzene		
2,2-Dichloropropane		
2-Butanone (MEK)		
2-Chlorethyl vinyl ether		
2-Chlorotoluene		
2-Hexanone		
4-Chlorotoluene		
4-Methyl-2-Pentanone (MIBK)		
Acetone		
Benzene		
Bromobenzene		
Bromochloromethane		
Bromodichloromethane		
Bromoform		
Bromomethane		
n-Butylbenzene		
sec-Butylbenzene		
tert-Butylbenzene		
Carbon disulfide		
Carbon tetrachloride		
Chlorobenzene		
Chlorodibromomethane		
Chloroethane		
Chloroform		
Chloromethane		
Dibromomethane		
Dichlorodifluoromethane		
Diisopropyl Ether		
Ethylbenzene		
Hexachlorobutadiene		

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W72

Parameter	07/01/16	07/10/17
Isopropylbenzene		
p-Isopropyltoluene		
Methyl tert-butyl ether		
Methylene chloride		
Naphthalene	<0.90	<0.90
n-Propylbenzene		
Styrene		
Tetrachloroethene		
Tetrahydrofuran		
Toluene		
Trichloroethene		
Trichlorofluoromethane		
Vinyl acetate		
Vinyl chloride		
Xylene, m & p-	<0.80	<0.80
Xylene, o-	<0.40	<0.40
Xylenes, Total	<1.2	<1.2

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

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**M** = Matrix spike or matrix spike duplicate outside acceptance limits.

**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W73

Parameter	07/01/16	07/10/17
1,1,1,2-Tetrachloroethane		
1,1,1-Trichloroethane		
1,1,2,2-Tetrachloroethane		
1,1,2-Trichloroethane		
1,1-Dichloroethane		
1,1-Dichloroethene		
1,1-Dichloropropene		
1,2,3-Trichlorobenzene		
1,2,3-Trichloropropane		
1,2,4-Trichlorobenzene		
1,2,4-Trimethylbenzene	<0.40	<0.40
1,2-Dibromo-3-chloropropane		
1,2-Dibromoethane		
1,2-Dichlorobenzene		
1,2-Dichloroethane		
cis-1,2-Dichloroethene		
trans-1,2-Dichloroethene		
1,2-Dichloropropane		
1,3,5-Trimethylbenzene		
1,3-Dichlorobenzene		
cis-1,3-Dichloropropene		
1,3-Dichloropropane		
trans-1,3-Dichloropropene		
1,4-Dichlorobenzene		
2,2-Dichloropropane		
2-Butanone (MEK)		
2-Chlorethyl vinyl ether		
2-Chlorotoluene		
2-Hexanone		
4-Chlorotoluene		
4-Methyl-2-Pentanone (MIBK)		
Acetone		
Benzene		
Bromobenzene		
Bromochloromethane		
Bromodichloromethane		
Bromoform		
Bromomethane		
n-Butylbenzene		
sec-Butylbenzene		
tert-Butylbenzene		
Carbon disulfide		
Carbon tetrachloride		
Chlorobenzene		
Chlorodibromomethane		
Chloroethane		
Chloroform		
Chloromethane		
Dibromomethane		
Dichlorodifluoromethane		
Diisopropyl Ether		
Ethylbenzene		
Hexachlorobutadiene		

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W73

Parameter	07/01/16	07/10/17
Isopropylbenzene		
p-Isopropyltoluene		
Methyl tert-butyl ether		
Methylene chloride		
Naphthalene	<0.90	<0.90
n-Propylbenzene		
Styrene		
Tetrachloroethene		
Tetrahydrofuran		
Toluene		
Trichloroethene		
Trichlorofluoromethane		
Vinyl acetate		
Vinyl chloride		
Xylene, m & p-	<0.80	<0.80
Xylene, o-	<0.40	<0.40
Xylenes, Total	<1.2	<1.2

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

**A** = Analyte averaged calibration criteria within acceptable limits

**B** = Analyte detected in associated Method Blank

**M** = Matrix spike or matrix spike duplicate outside acceptance limits.

**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.



Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W74

Parameter	07/01/16	07/10/17
1,1,1,2-Tetrachloroethane		
1,1,1-Trichloroethane		
1,1,2,2-Tetrachloroethane		
1,1,2-Trichloroethane		
1,1-Dichloroethane		
1,1-Dichloroethene		
1,1-Dichloropropene		
1,2,3-Trichlorobenzene		
1,2,3-Trichloropropane		
1,2,4-Trichlorobenzene		
1,2,4-Trimethylbenzene	<0.40	<0.40
1,2-Dibromo-3-chloropropane		
1,2-Dibromoethane		
1,2-Dichlorobenzene		
1,2-Dichloroethane		
cis-1,2-Dichloroethene		
trans-1,2-Dichloroethene		
1,2-Dichloropropane		
1,3,5-Trimethylbenzene		
1,3-Dichlorobenzene		
cis-1,3-Dichloropropene		
1,3-Dichloropropane		
trans-1,3-Dichloropropene		
1,4-Dichlorobenzene		
2,2-Dichloropropane		
2-Butanone (MEK)		
2-Chlorethyl vinyl ether		
2-Chlorotoluene		
2-Hexanone		
4-Chlorotoluene		
4-Methyl-2-Pentanone (MIBK)		
Acetone		
Benzene		
Bromobenzene		
Bromochloromethane		
Bromodichloromethane		
Bromoform		
Bromomethane		
n-Butylbenzene		
sec-Butylbenzene		
tert-Butylbenzene		
Carbon disulfide		
Carbon tetrachloride		
Chlorobenzene		
Chlorodibromomethane		
Chloroethane		
Chloroform		
Chloromethane		
Dibromomethane		
Dichlorodifluoromethane		
Diisopropyl Ether		
Ethylbenzene		
Hexachlorobutadiene		

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - W74

Parameter	07/01/16	07/10/17
Isopropylbenzene		
p-Isopropyltoluene		
Methyl tert-butyl ether		
Methylene chloride		
Naphthalene	<0.90	<0.90
n-Propylbenzene		
Styrene		
Tetrachloroethene		
Tetrahydrofuran		
Toluene		
Trichloroethene		
Trichlorofluoromethane		
Vinyl acetate		
Vinyl chloride		
Xylene, m & p-	<0.80	<0.80
Xylene, o-	<0.40	<0.40
Xylenes, Total	<1.2	<1.2

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

**A** = Analyte averaged calibration criteria within acceptable limits

**B** = Analyte detected in associated Method Blank

**M** = Matrix spike or matrix spike duplicate outside acceptance limits.

**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limits

\* = Suspected methylene chloride laboratory contamination.

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - DFOMW5

Parameter	07/11/16	07/20/17
1,1,1,2-Tetrachloroethane		
1,1,1-Trichloroethane		
1,1,2,2-Tetrachloroethane		
1,1,2-Trichloroethane		
1,1-Dichloroethane		
1,1-Dichloroethene		
1,1-Dichloropropene		
1,2,3-Trichlorobenzene		
1,2,3-Trichloropropane		
1,2,4-Trichlorobenzene		
1,2,4-Trimethylbenzene	0.50	<0.40
1,2-Dibromo-3-chloropropane		
1,2-Dibromoethane		
1,2-Dichlorobenzene		
1,2-Dichloroethane		
cis-1,2-Dichloroethene		
trans-1,2-Dichloroethene		
1,2-Dichloropropane		
1,3,5-Trimethylbenzene		
1,3-Dichlorobenzene		
cis-1,3-Dichloropropene		
1,3-Dichloropropane		
trans-1,3-Dichloropropene		
1,4-Dichlorobenzene		
2,2-Dichloropropane		
2-Butanone (MEK)		
2-Chlorethyl vinyl ether		
2-Chlorotoluene		
2-Hexanone		
4-Chlorotoluene		
4-Methyl-2-Pentanone (MIBK)		
Acetone		
Benzene		
Bromobenzene		
Bromochloromethane		
Bromodichloromethane		
Bromoform		
Bromomethane		
n-Butylbenzene		
sec-Butylbenzene		
tert-Butylbenzene		
Carbon disulfide		
Carbon tetrachloride		
Chlorobenzene		
Chlorodibromomethane		
Chloroethane		
Chloroform		
Chloromethane		
Dibromomethane		
Dichlorodifluoromethane		
Diisopropyl Ether		
Ethylbenzene		
Hexachlorobutadiene		
Isopropylbenzene		

Volatile Organic Compounds - Historical Data  
 WAULECO, INC - Wausau Facility  
 Well - DFOMW5

Parameter	07/11/16	07/20/17
p-Isopropyltoluene		
Methyl tert-butyl ether		
Methylene chloride		
Naphthalene	<b>3.3</b>	<b>3</b>
n-Propylbenzene		
Styrene		
Tetrachloroethene		
Tetrahydrofuran		
Toluene		
Trichloroethene		
Trichlorofluoromethane		
Vinyl acetate		
Vinyl chloride		
Xylene, m & p-	<0.80	<0.80
Xylene, o-	<b>0.53</b>	<0.40
Xylenes, Total	<b>0.53</b>	<1.20

Prepared By: T. Dushek, 11/7/17

Checked by: A.Voit, 12/15/17

**NOTES:**

All Units are in ug/L

Bold values indicate detections

**A** = Analyte averaged calibration criteria within acceptable limits

**B** = Analyte detected in associated Method Blank

**M** = Matrix spike or matrix spike duplicate outside acceptance limits.

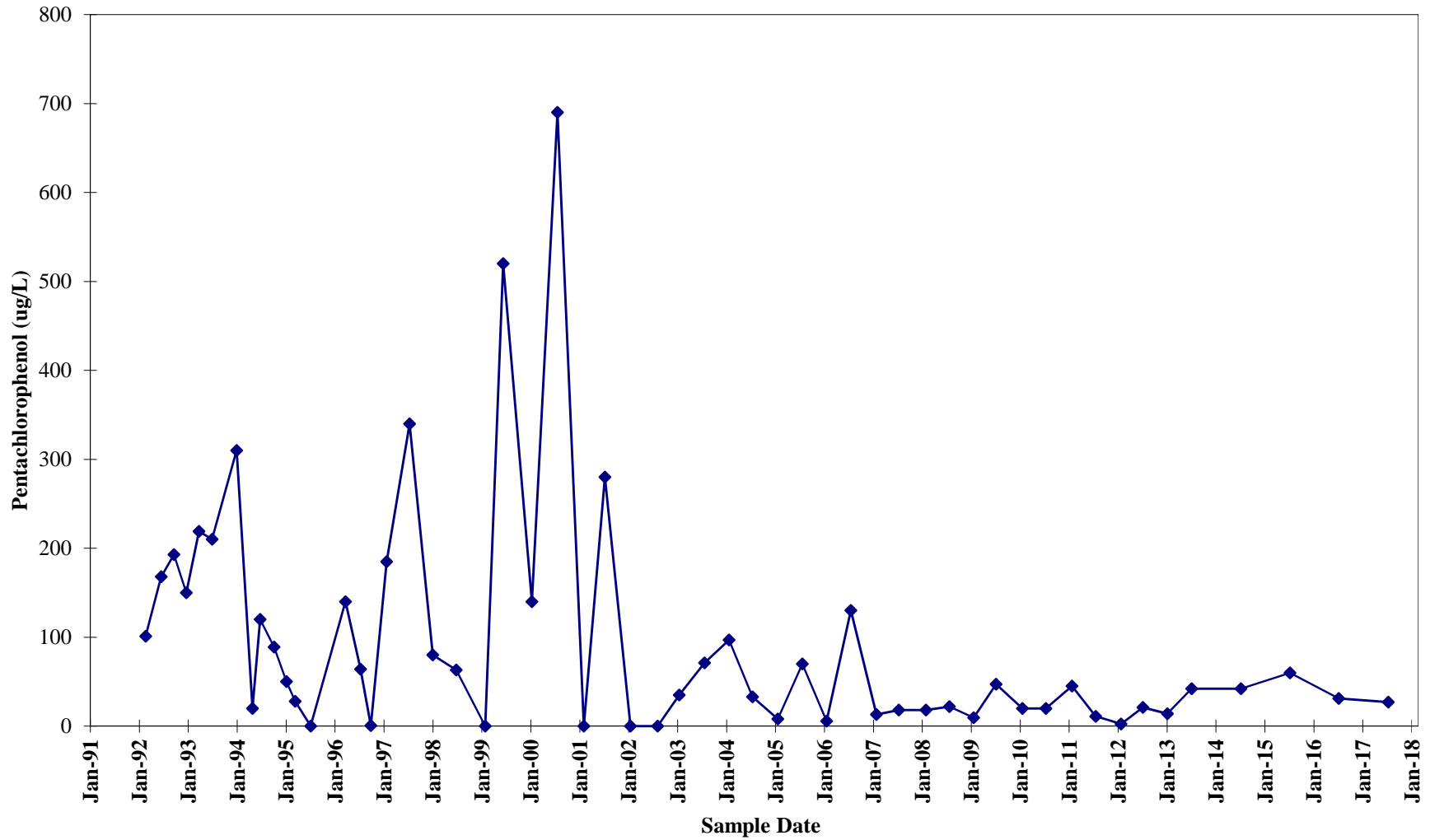
**J** = Estimated Value

**Q** = Lab Control Sample outside acceptance limits

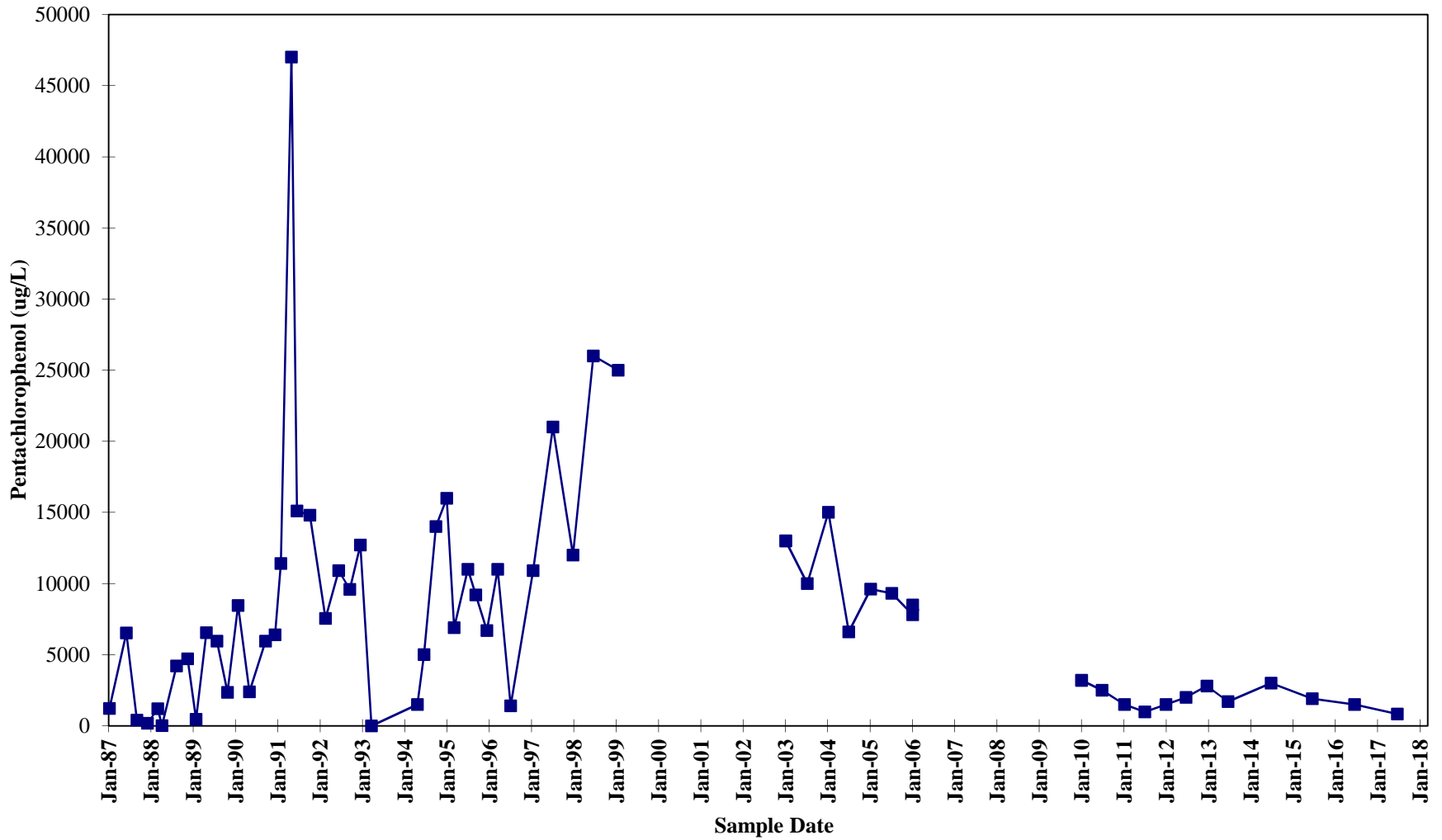
\* = Suspected methylene chloride laboratory contamination.

**APPENDIX C**  
**HISTORICAL PCP ANALYSIS RESULTS**

**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W01A**

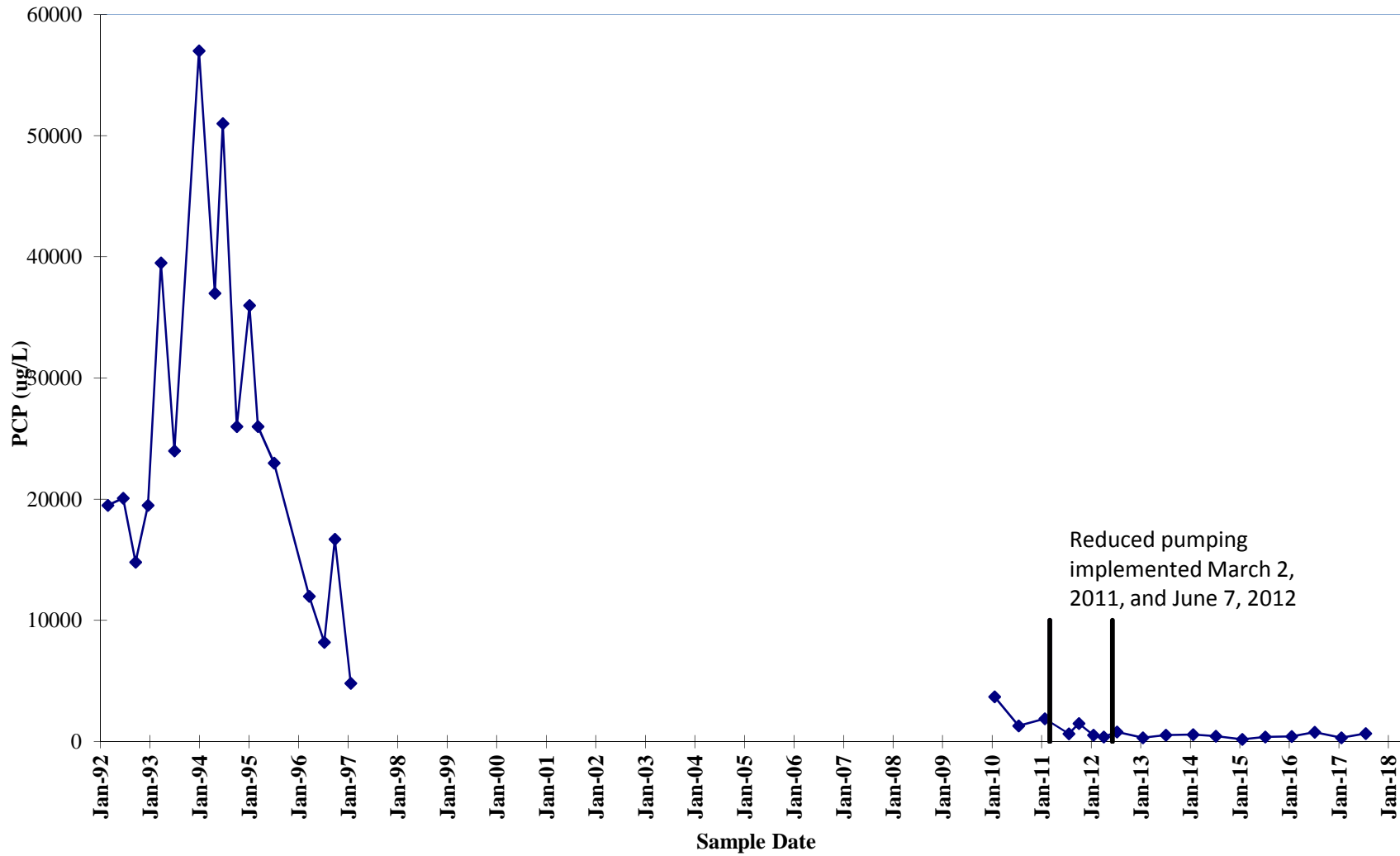


### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W02



PCP data gap due to measurable product present in well.

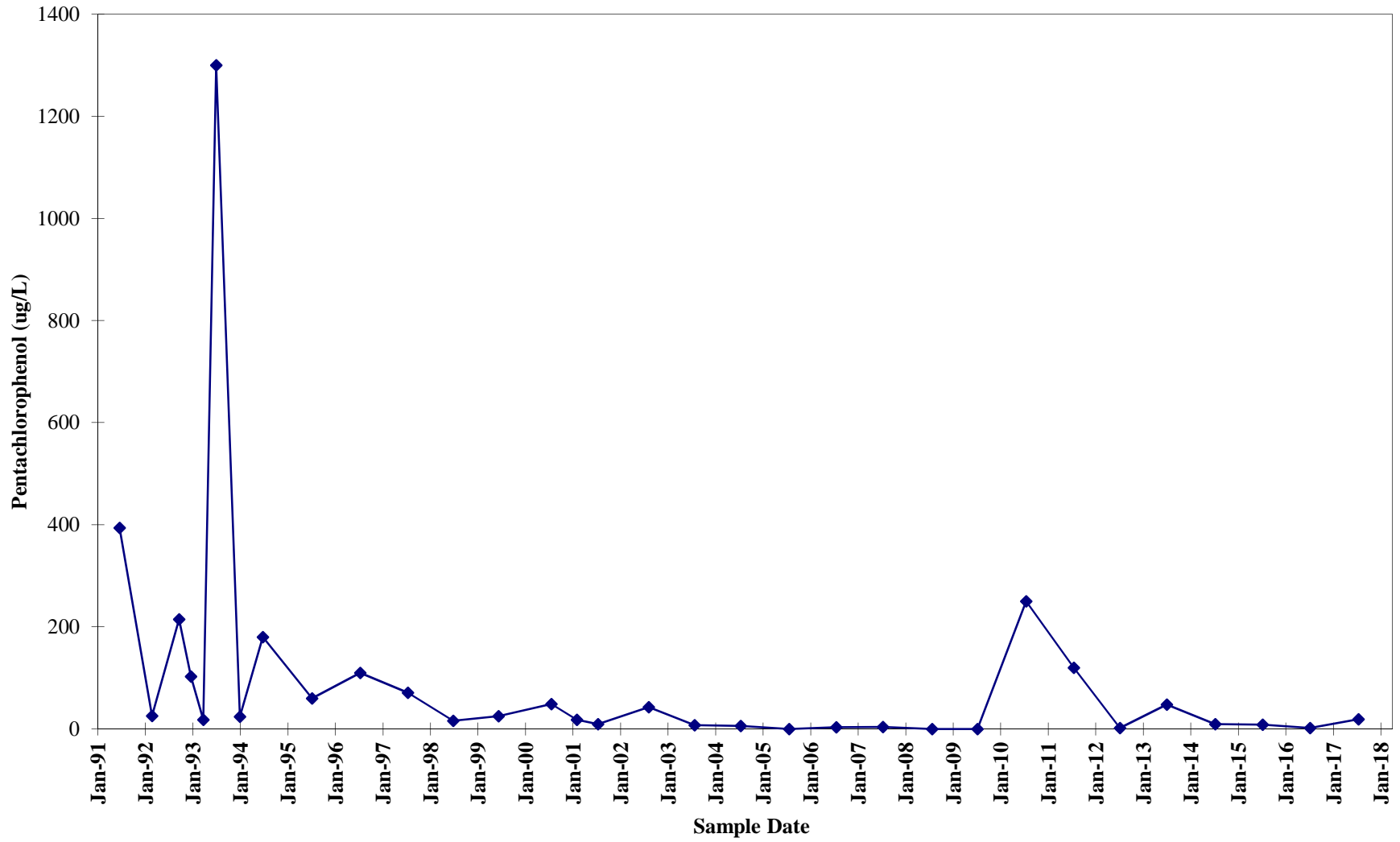
### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W03A



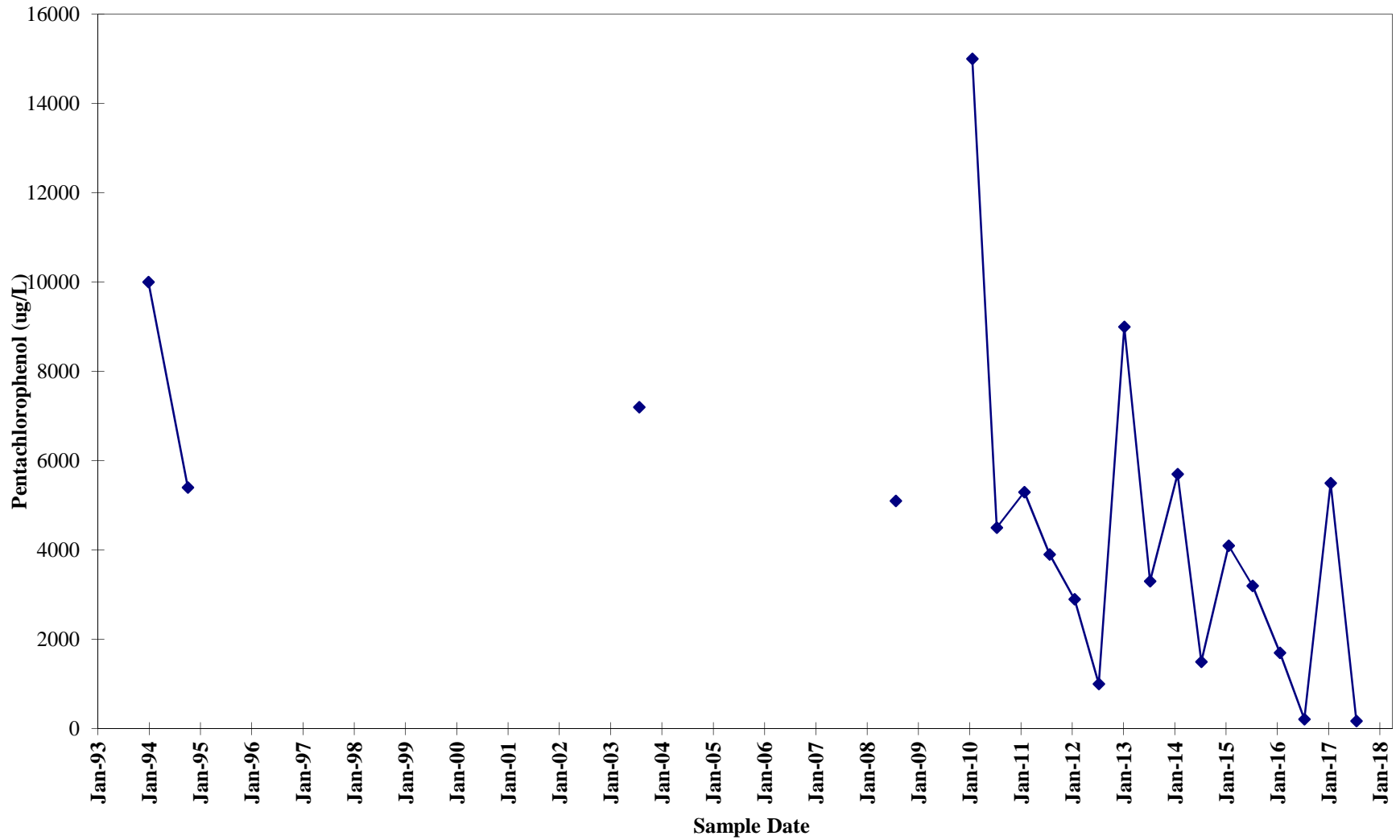
PCP data gap due to measurable product present in well.



**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W03B**

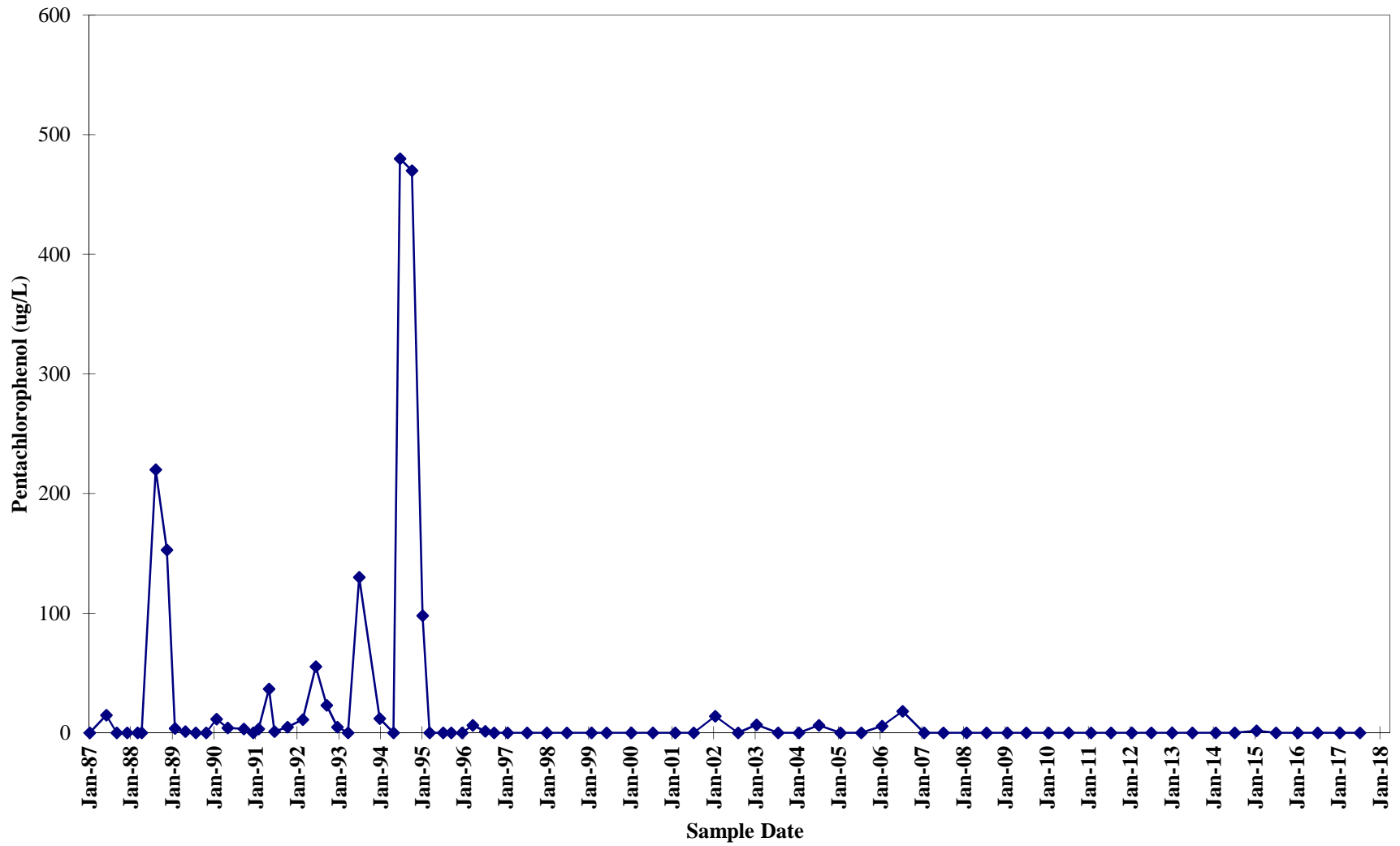


**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W06R**

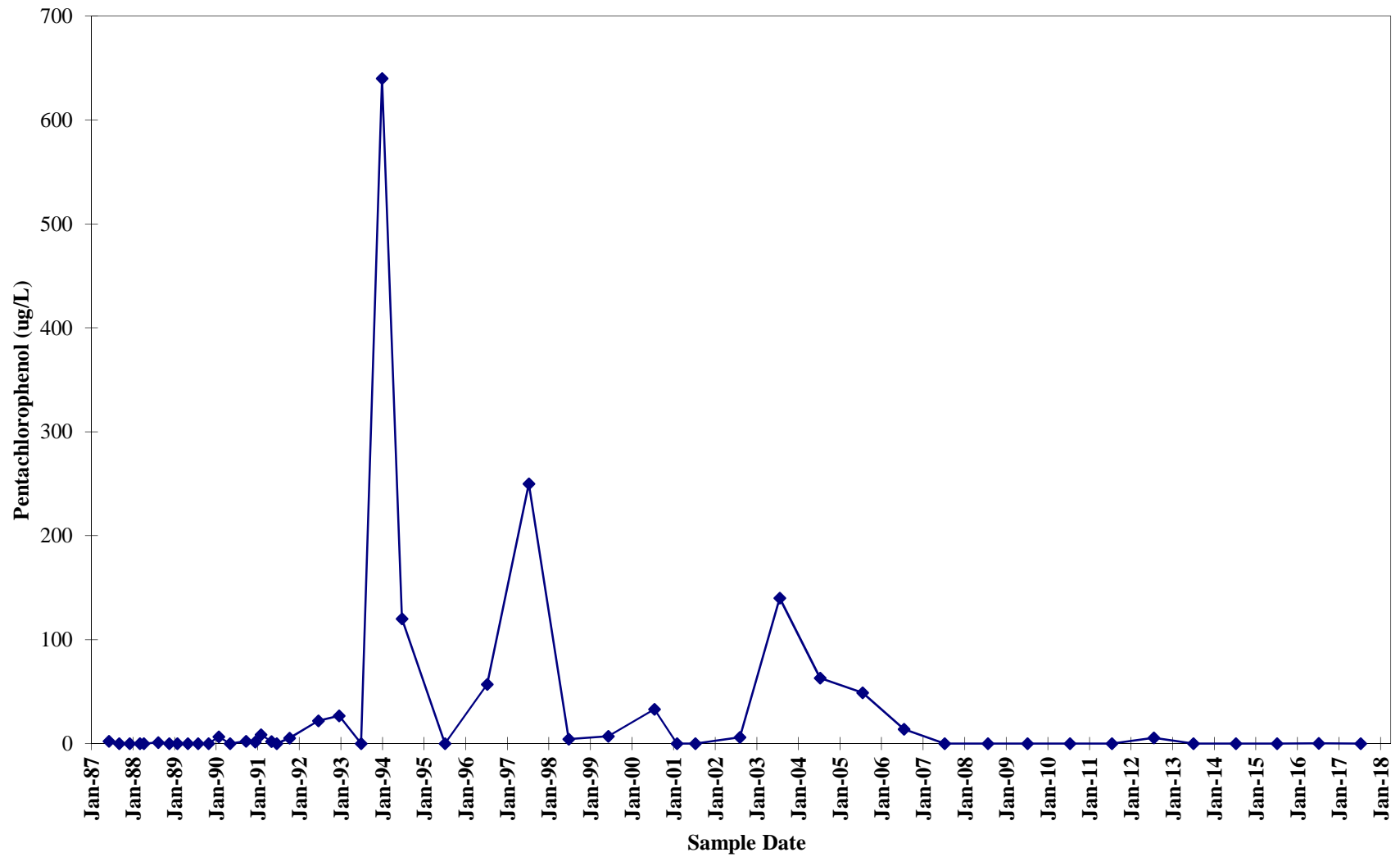


PCP data gap due to measurable product present in well.

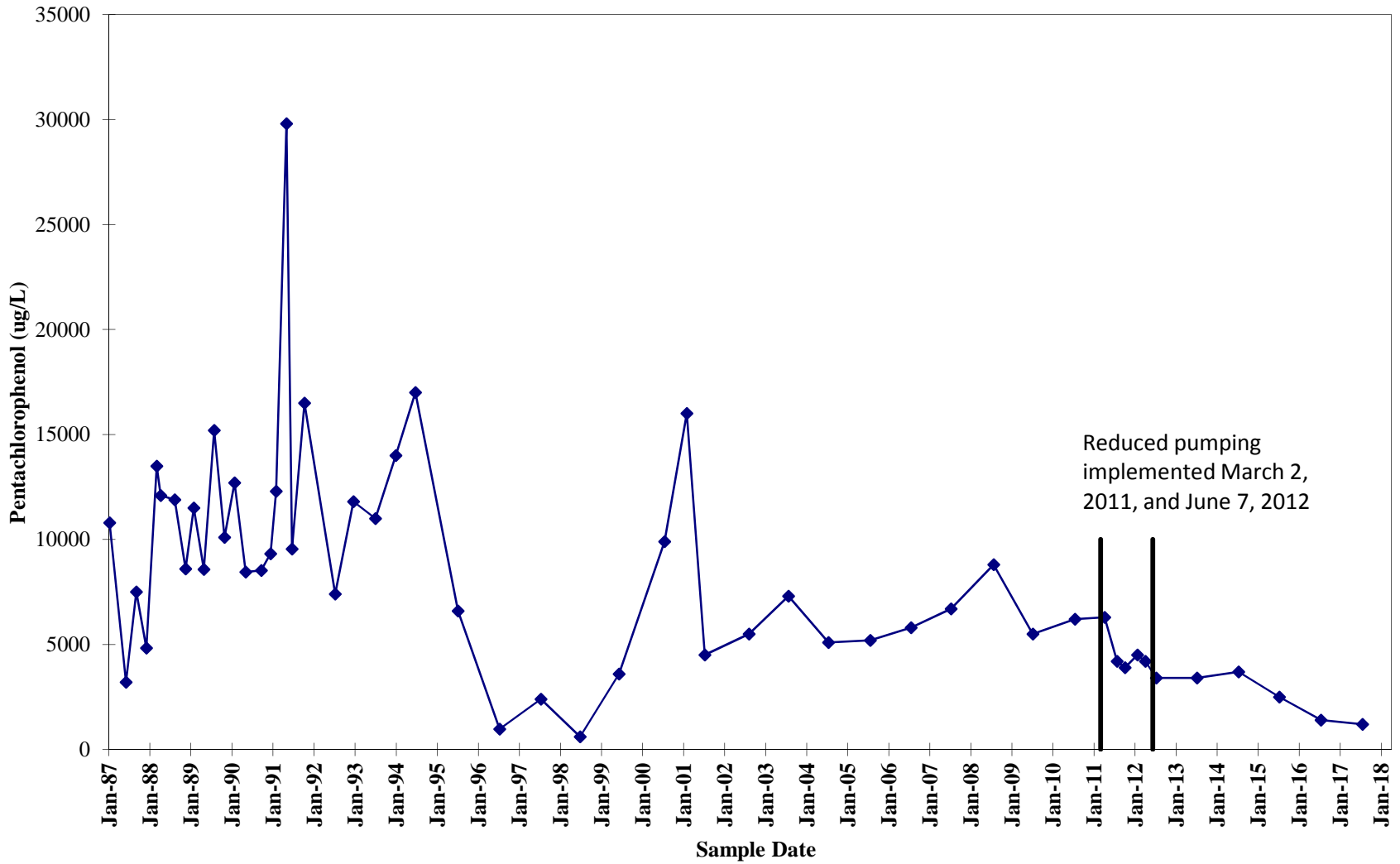
### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W08



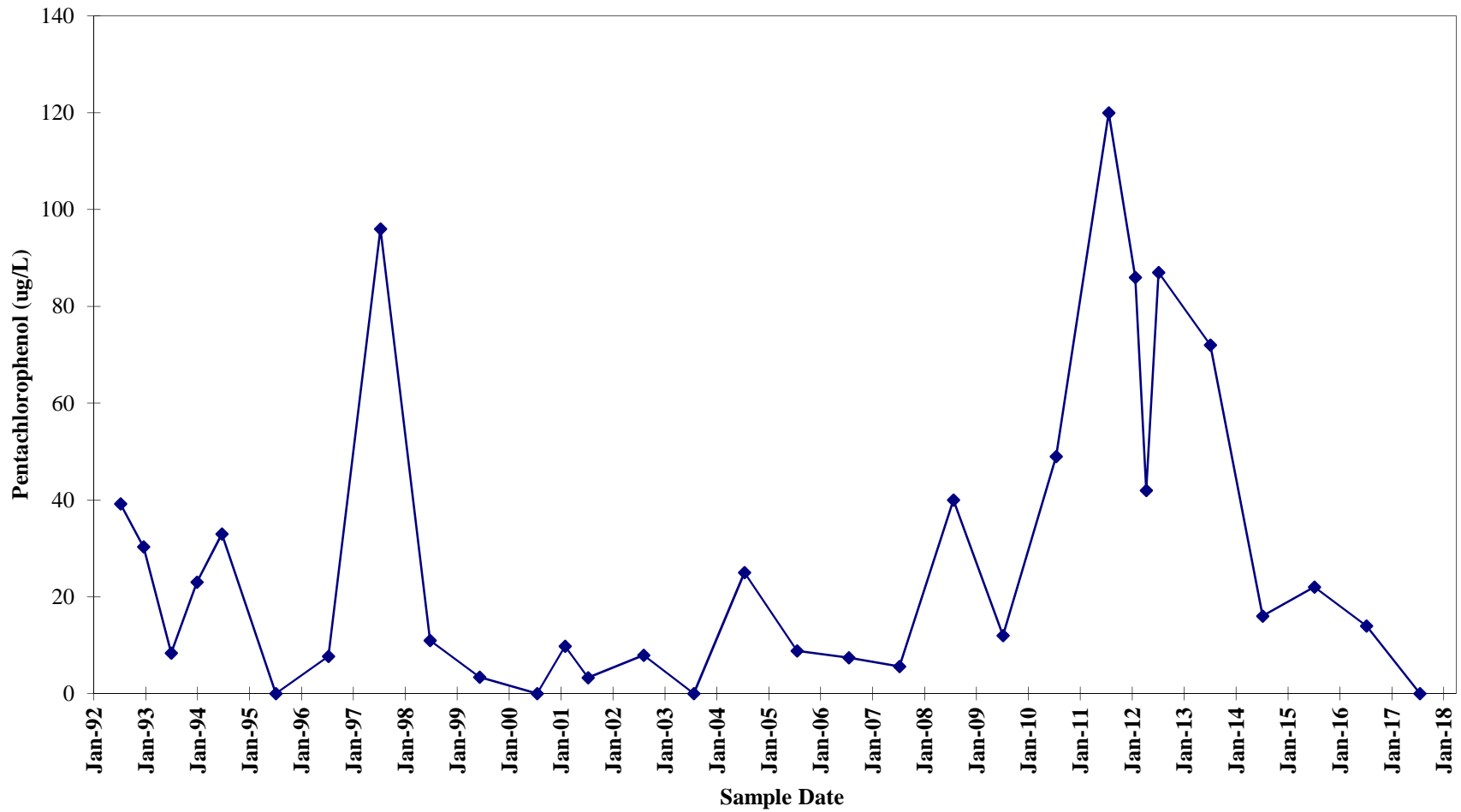
### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W09



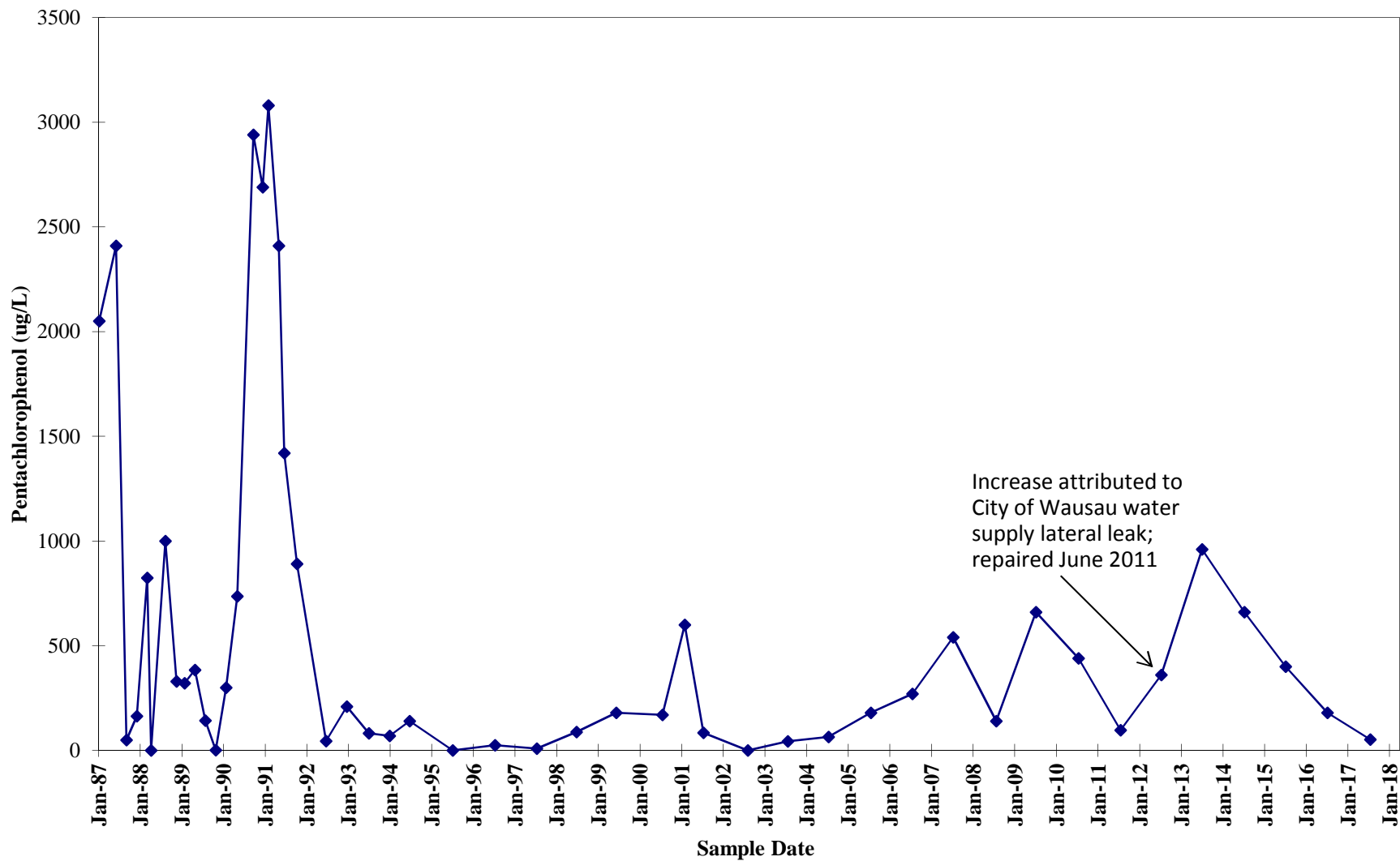
# Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W10A



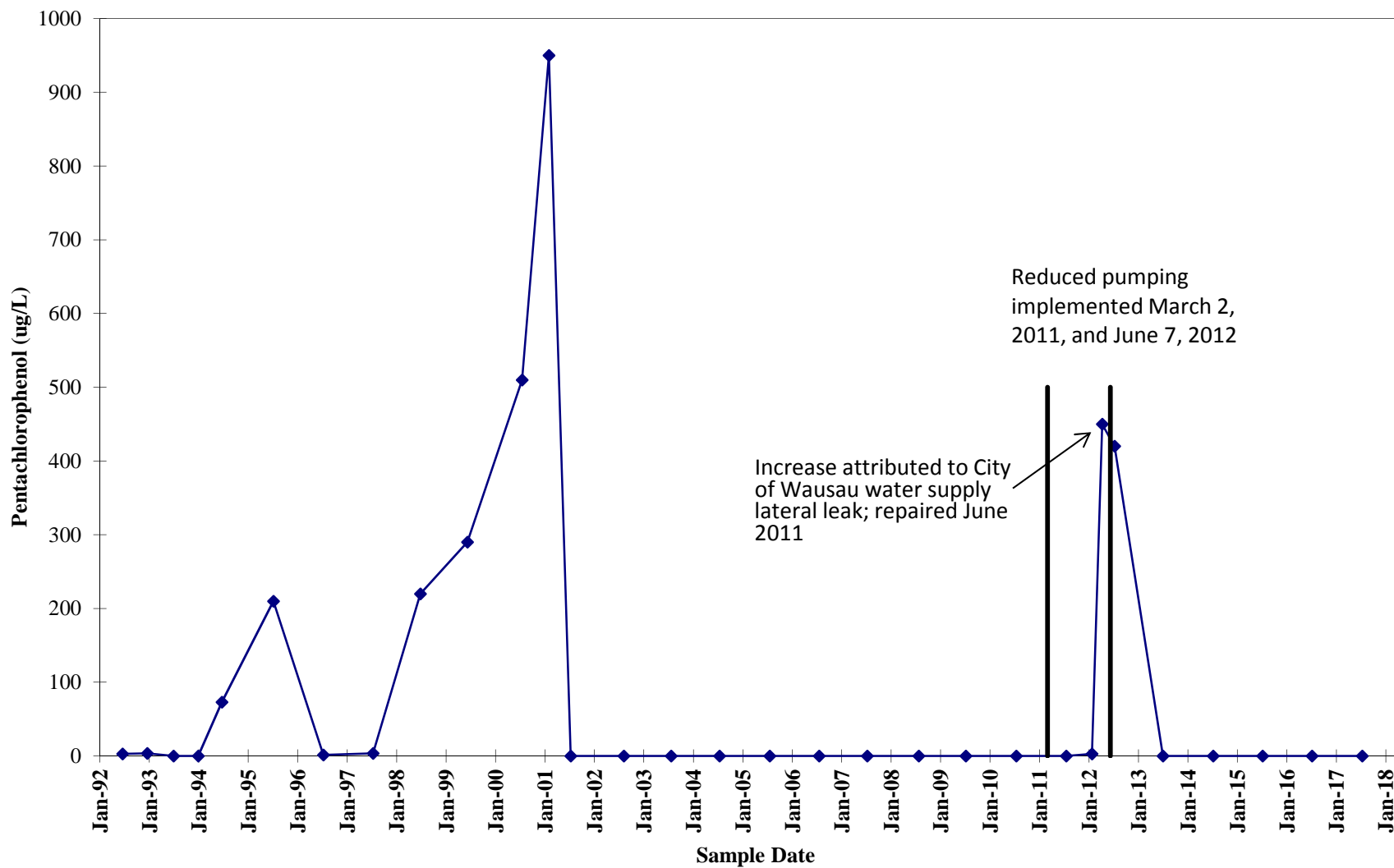
**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W10B**



### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W11

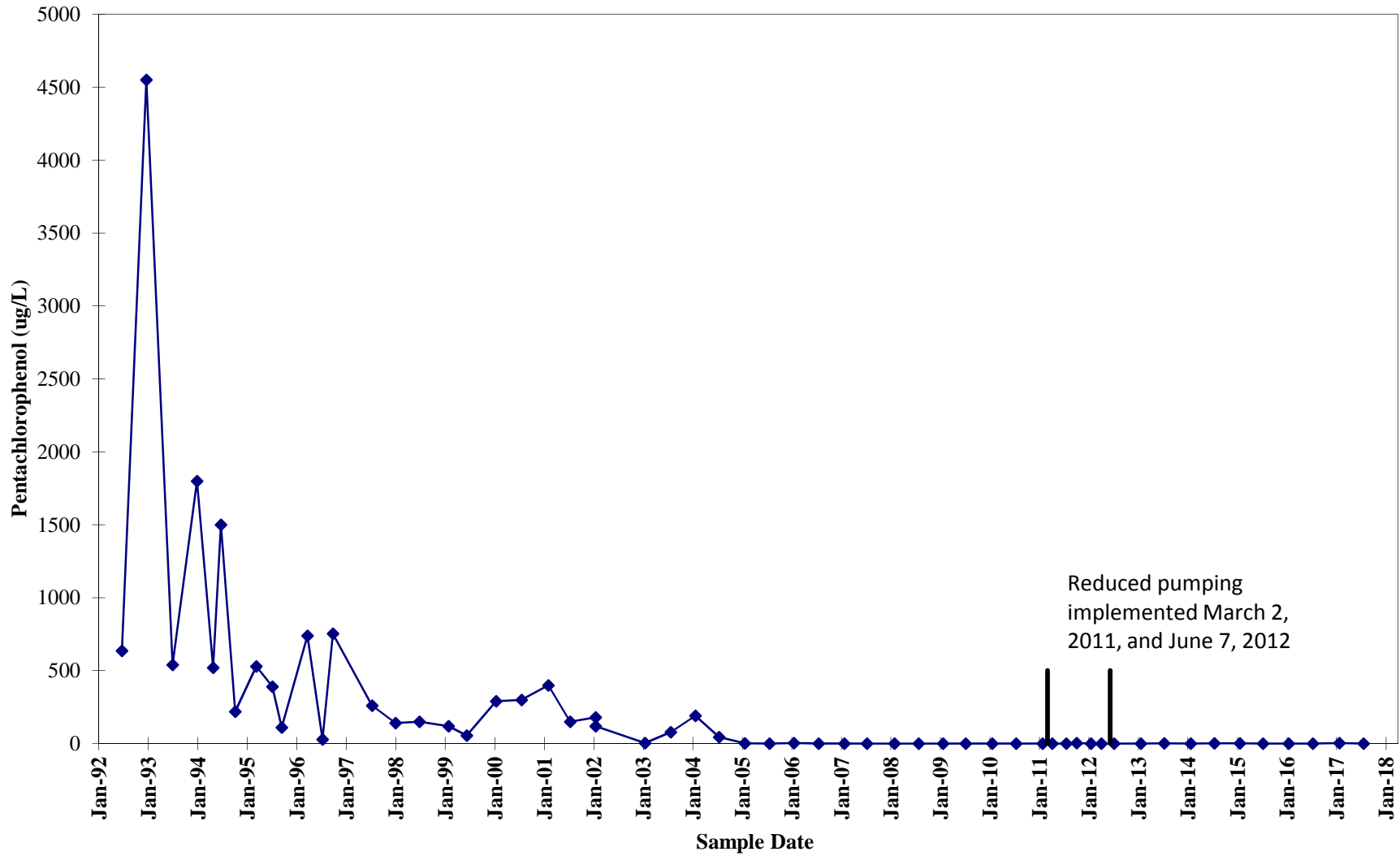


### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W12

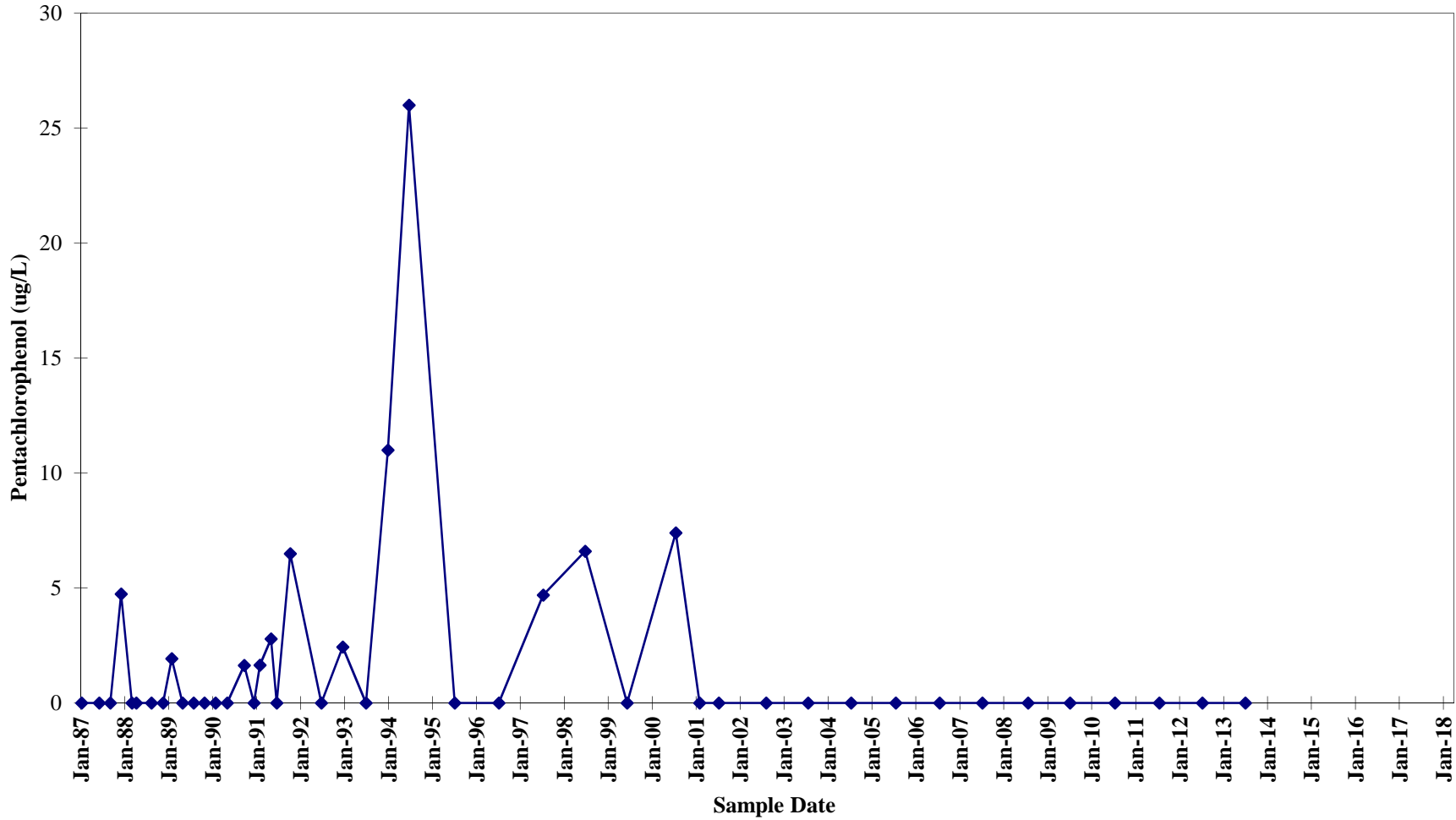




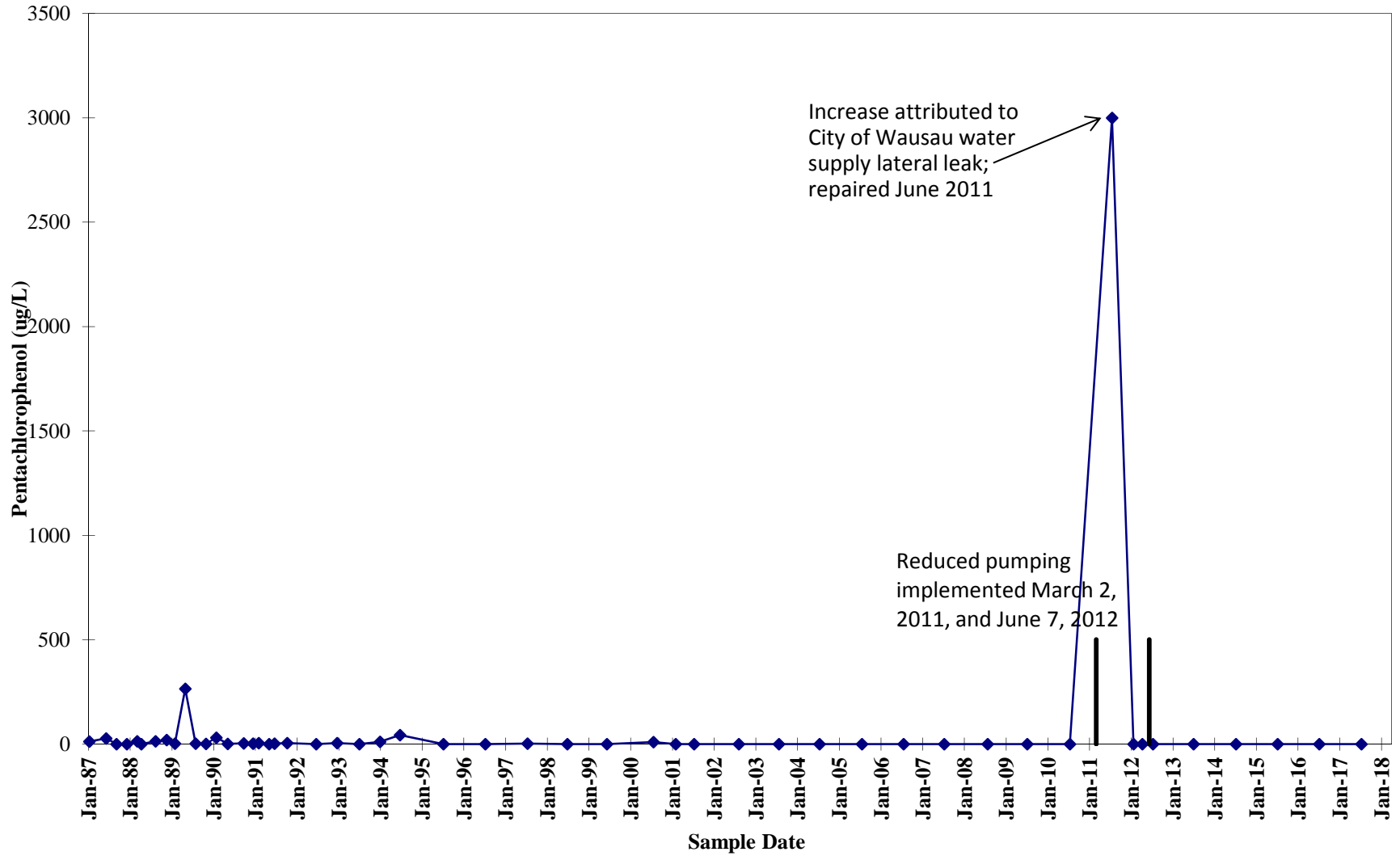
### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W13



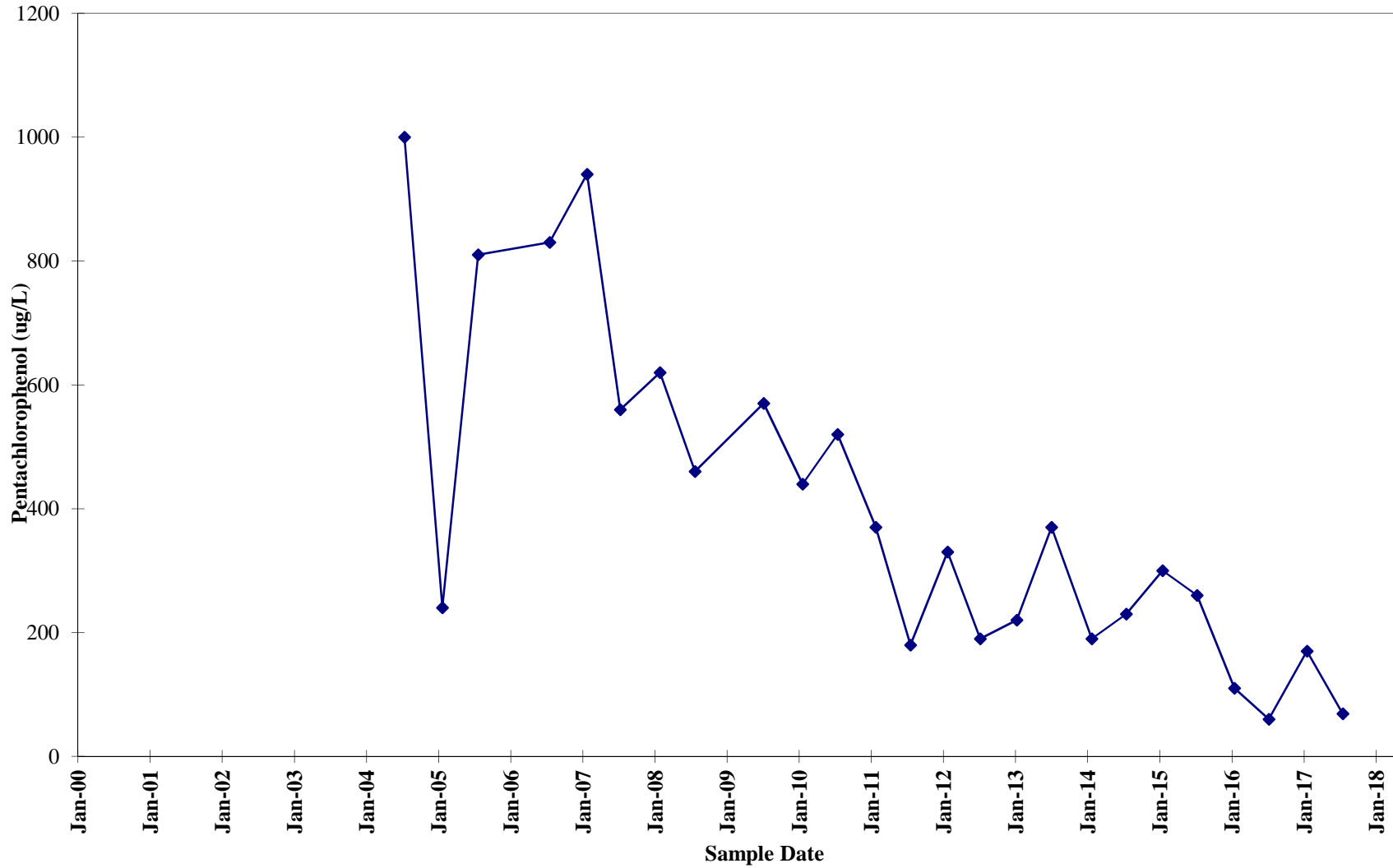
**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W14**



### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W16

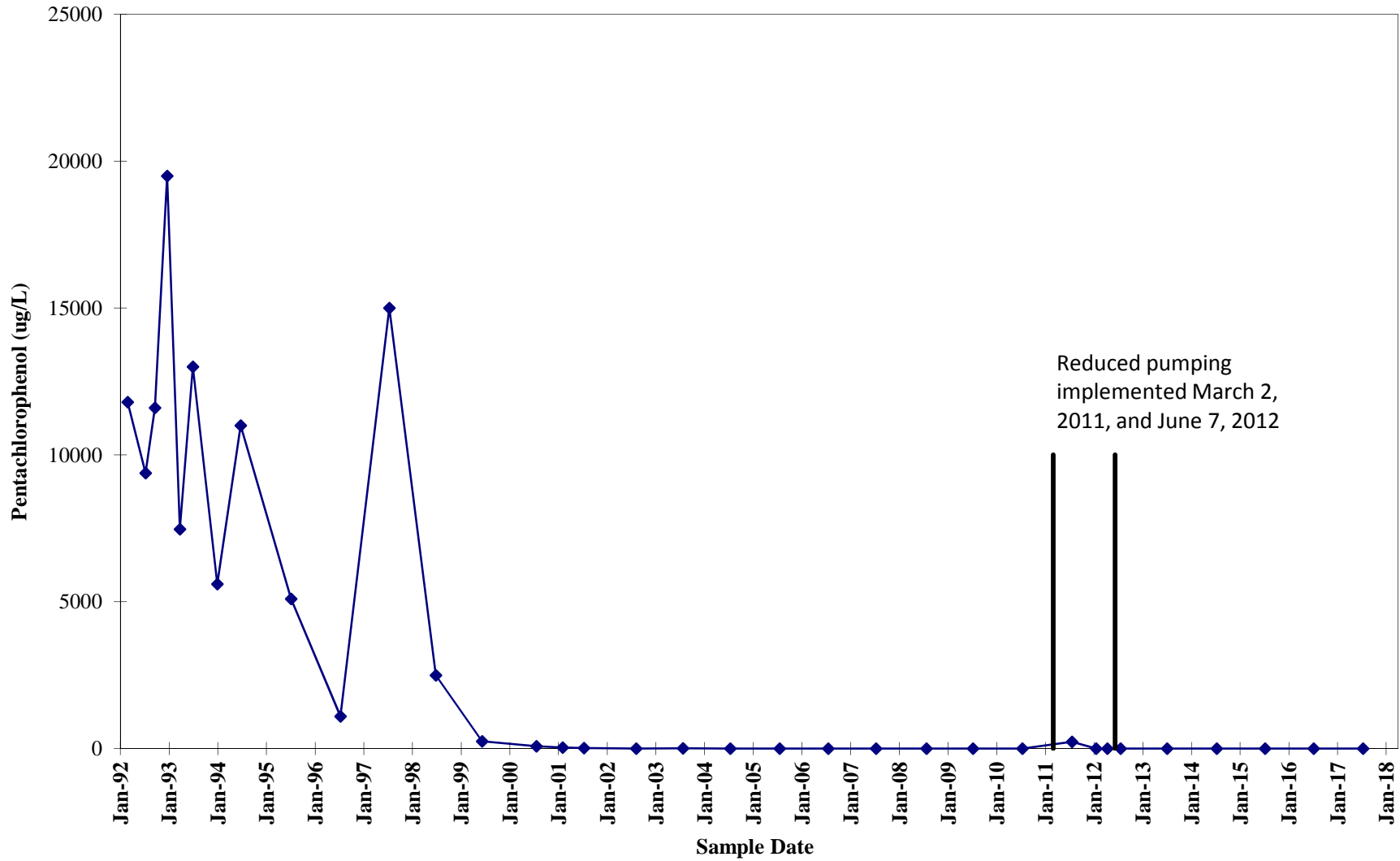


### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W17

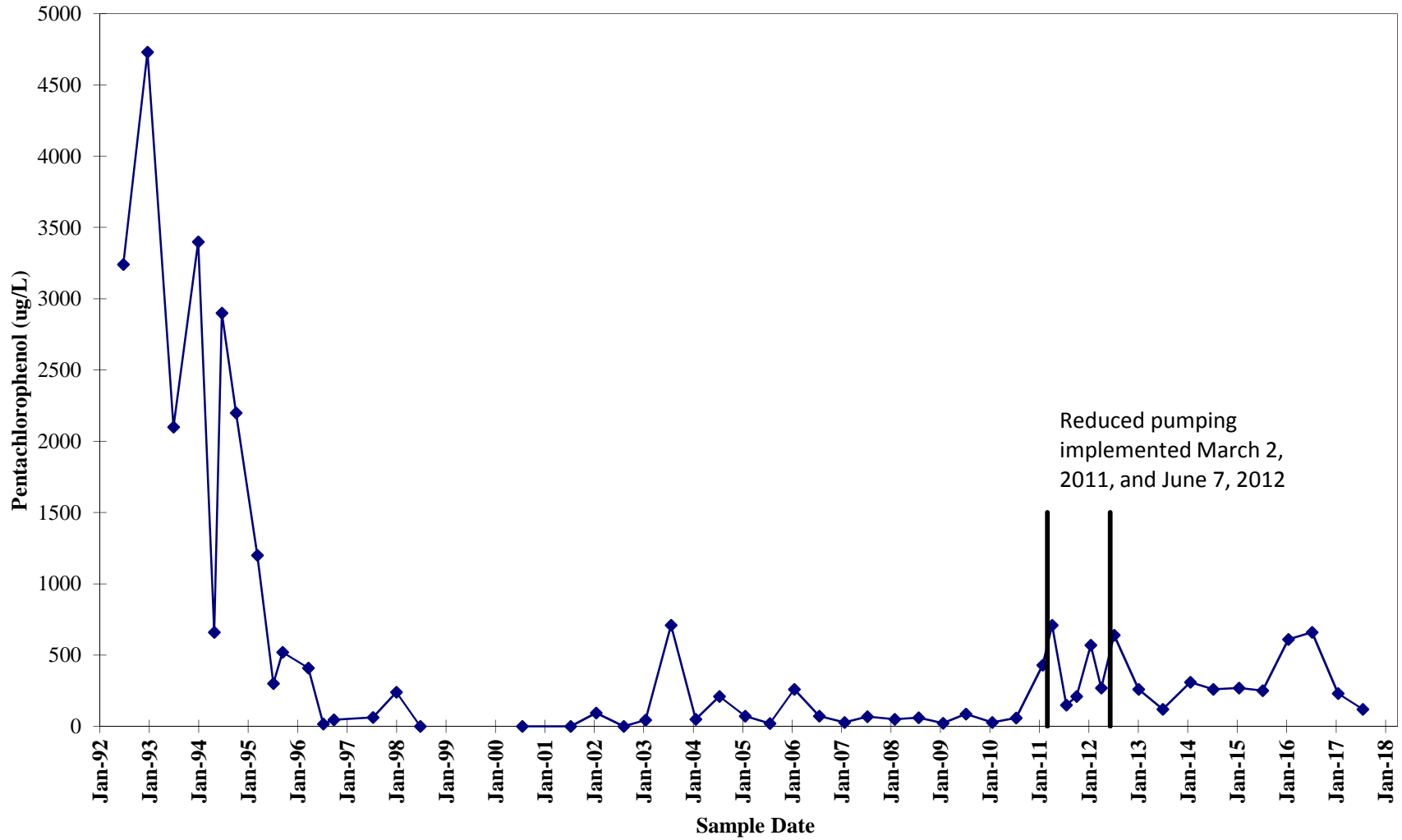


PCP data gap due to measurable product in well.

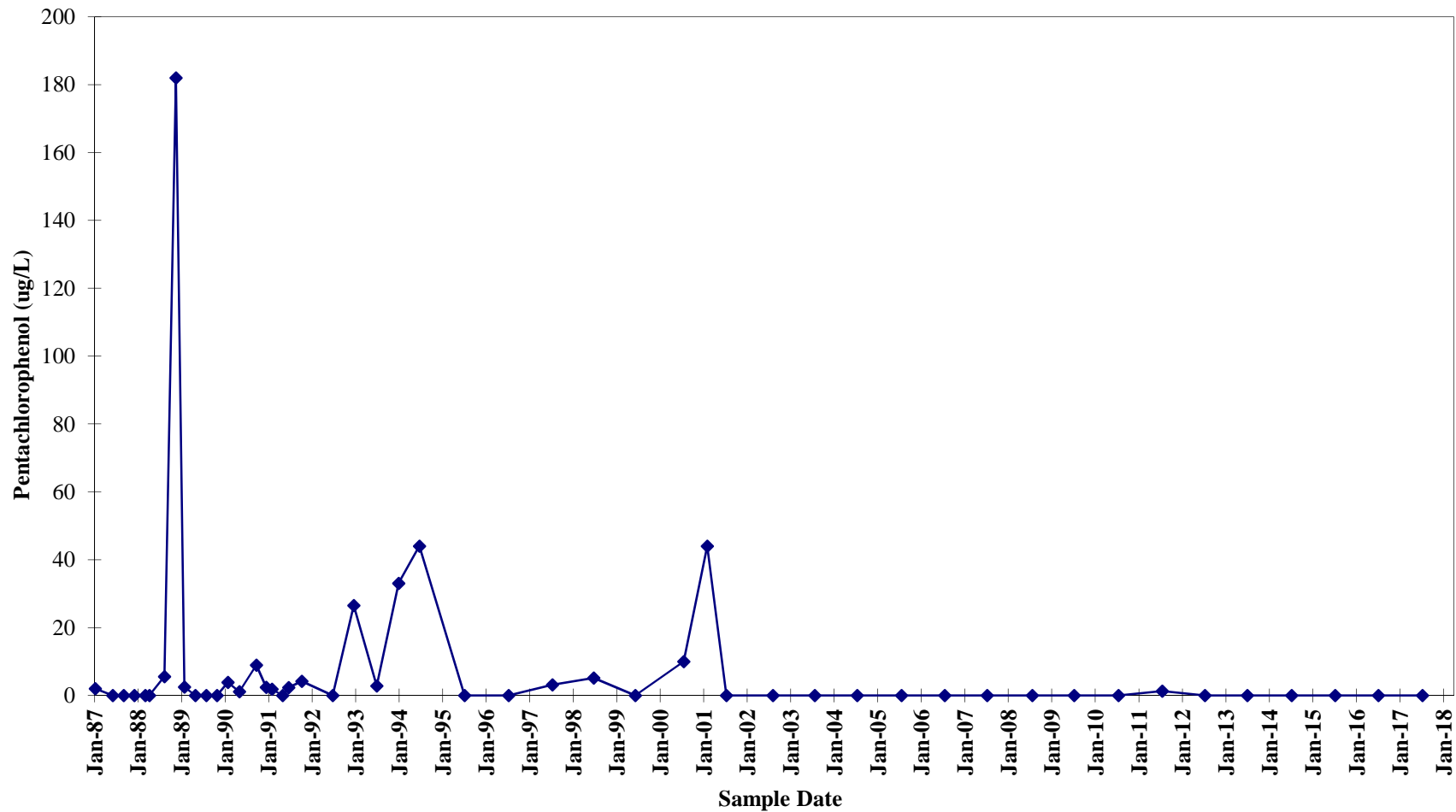
**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W18**



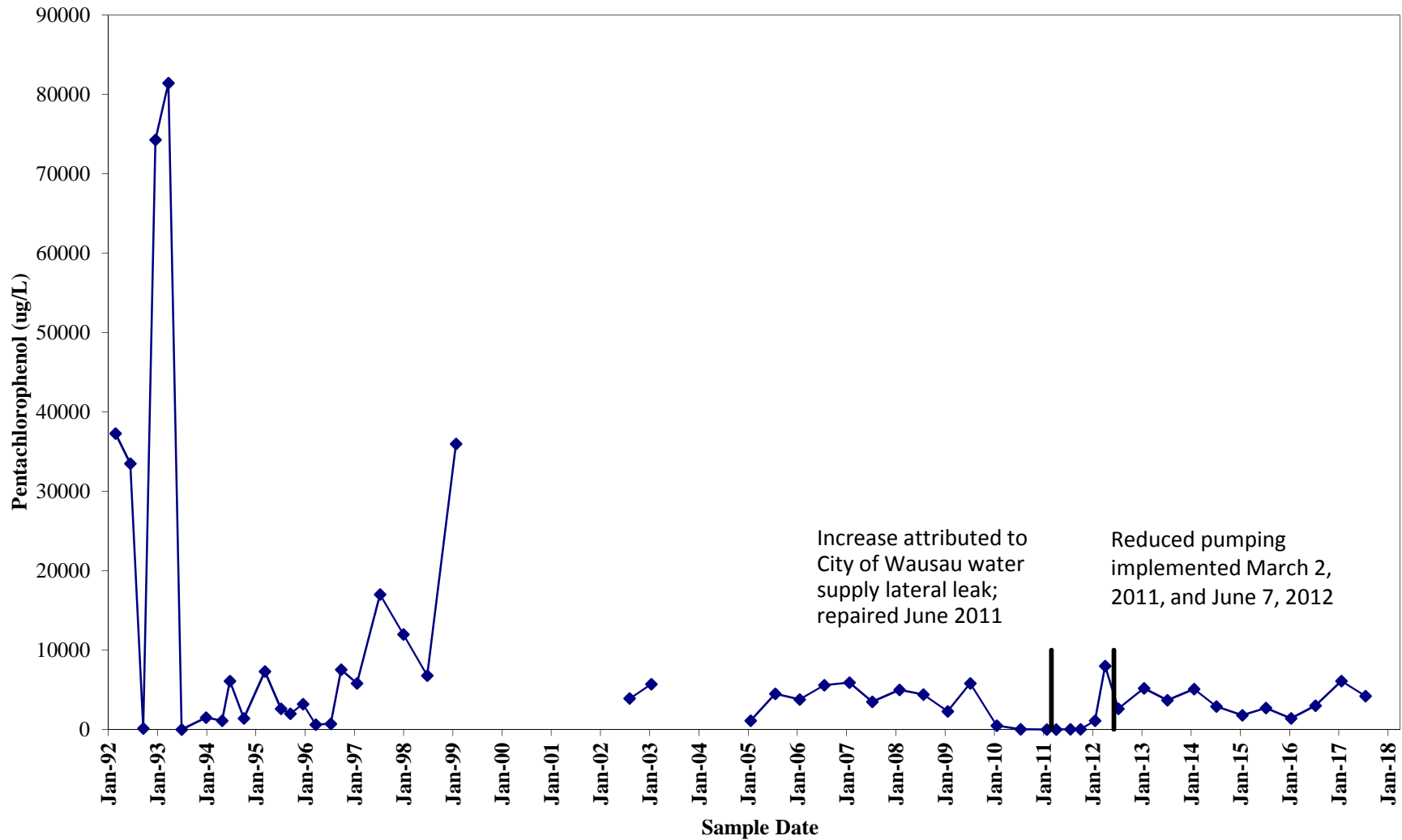
**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W19**



**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W21**



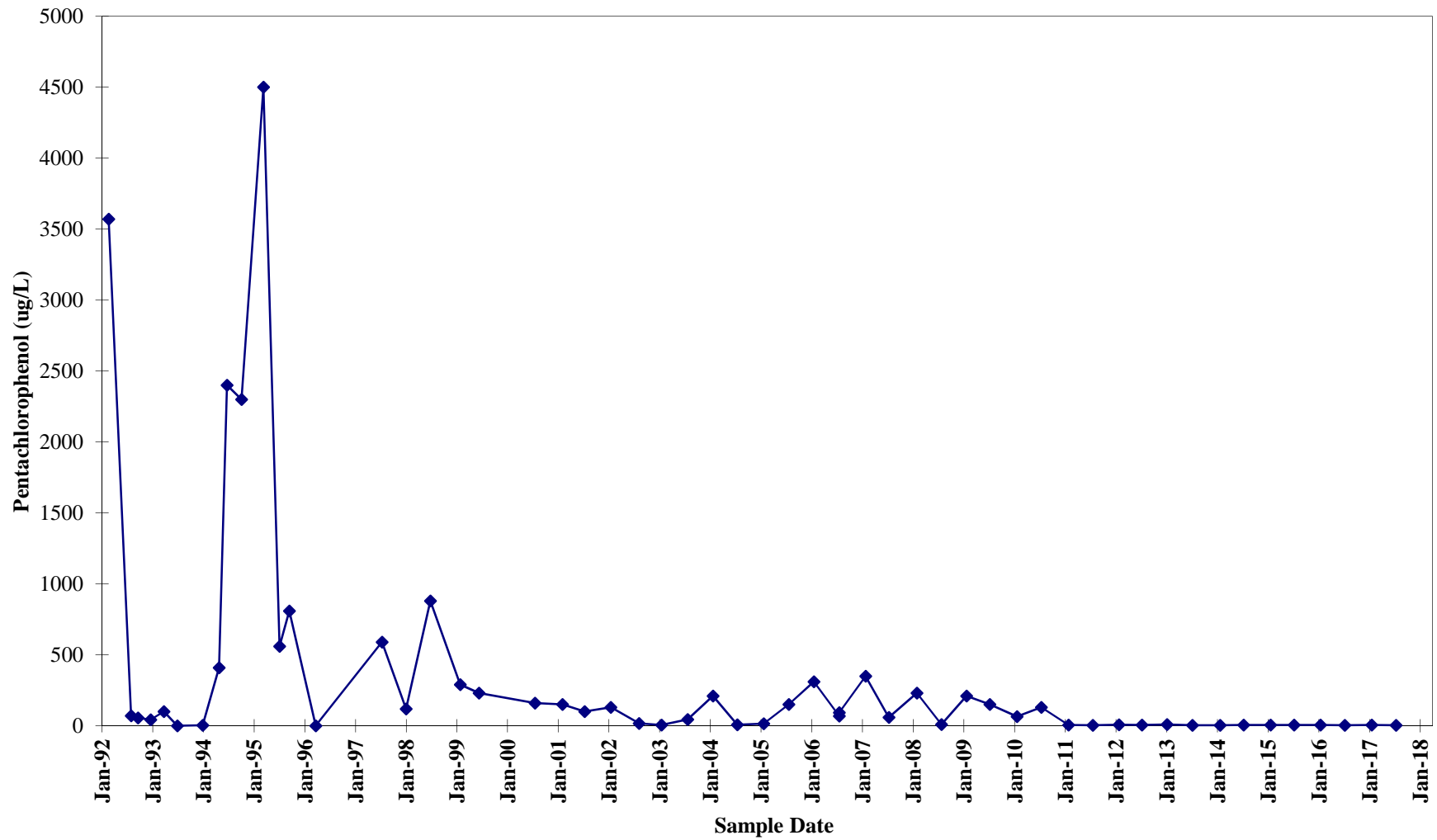
### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W22



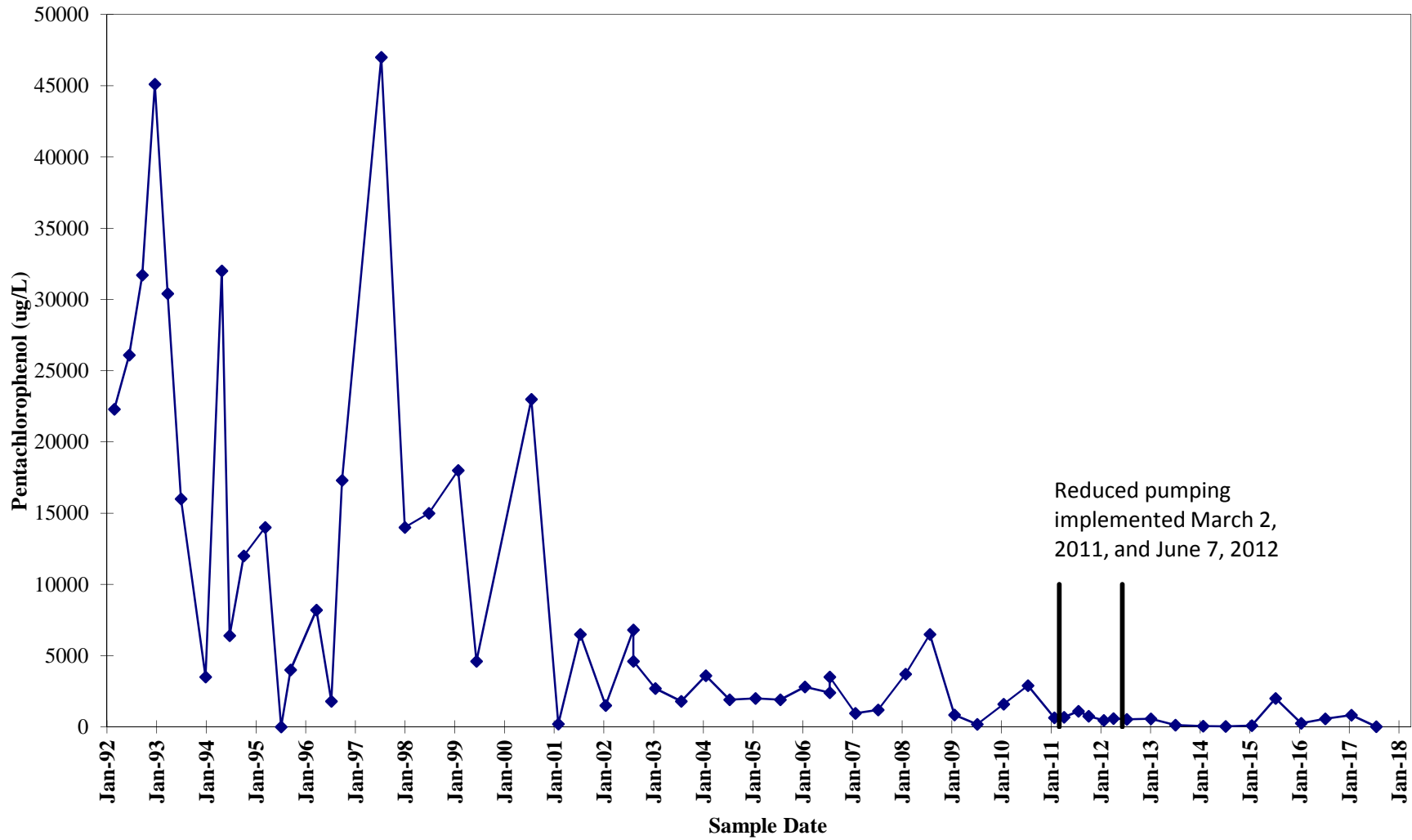
PCP data gap due to measurable product present in well.



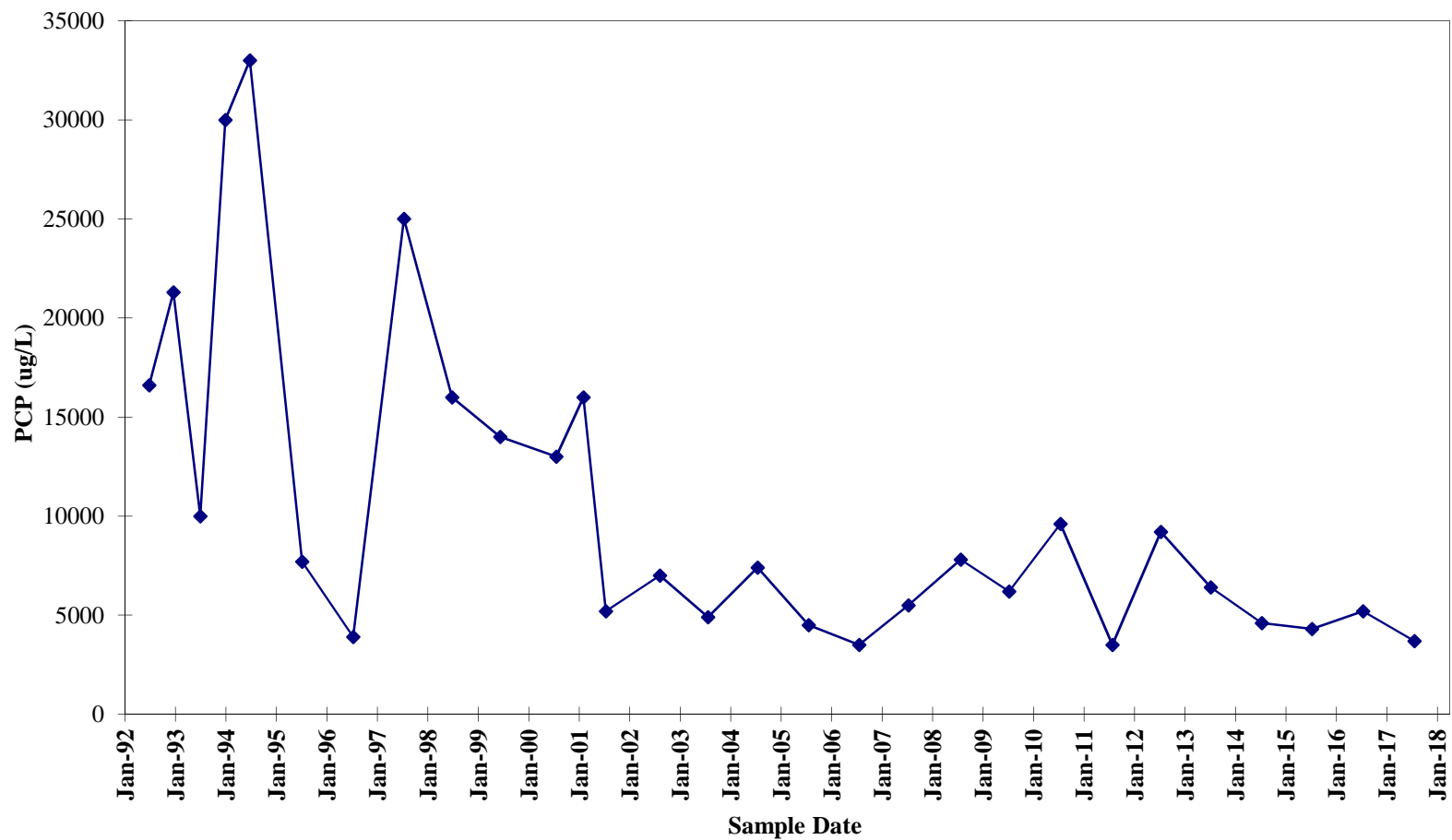
**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W25**



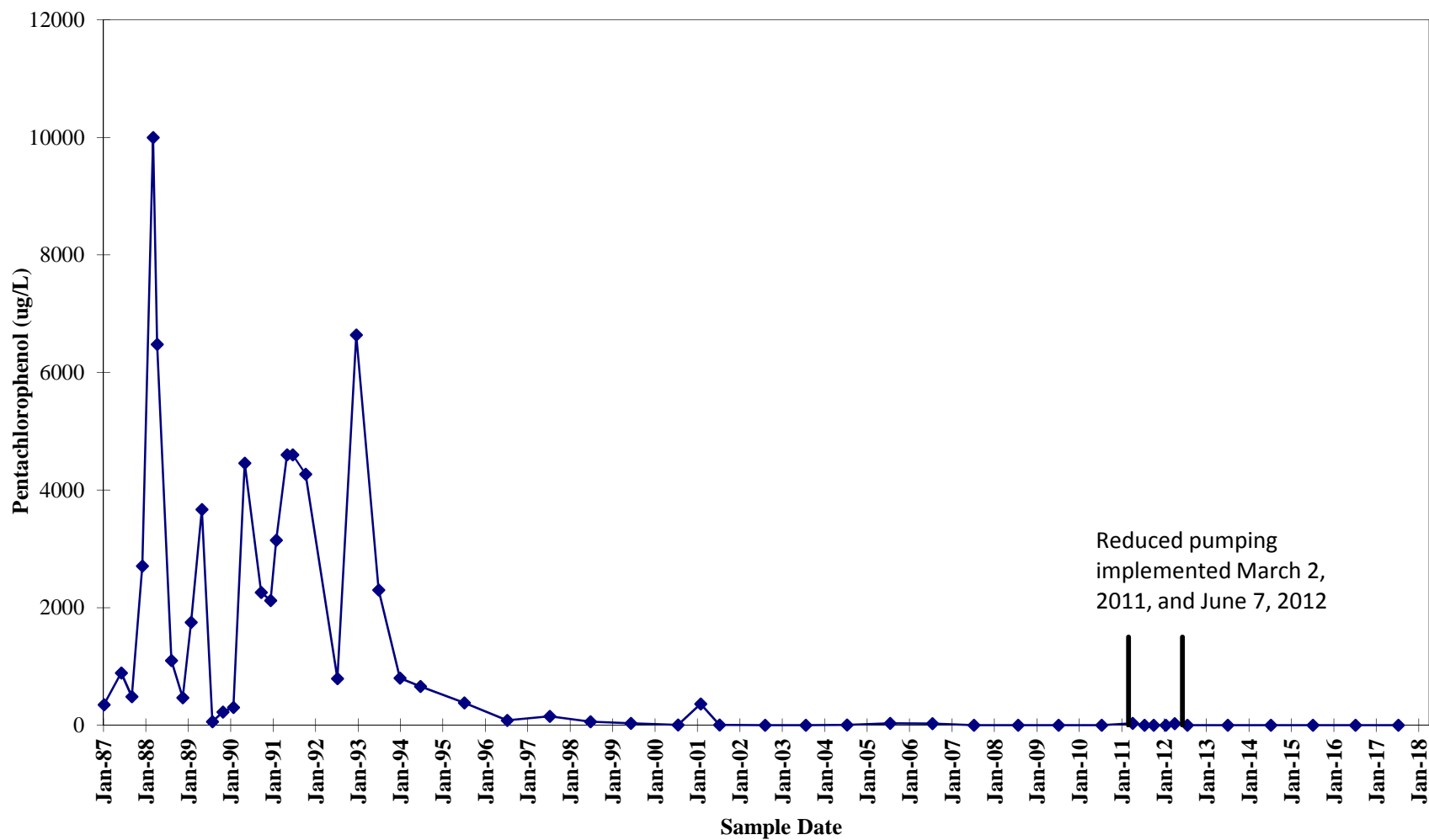
**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W26**



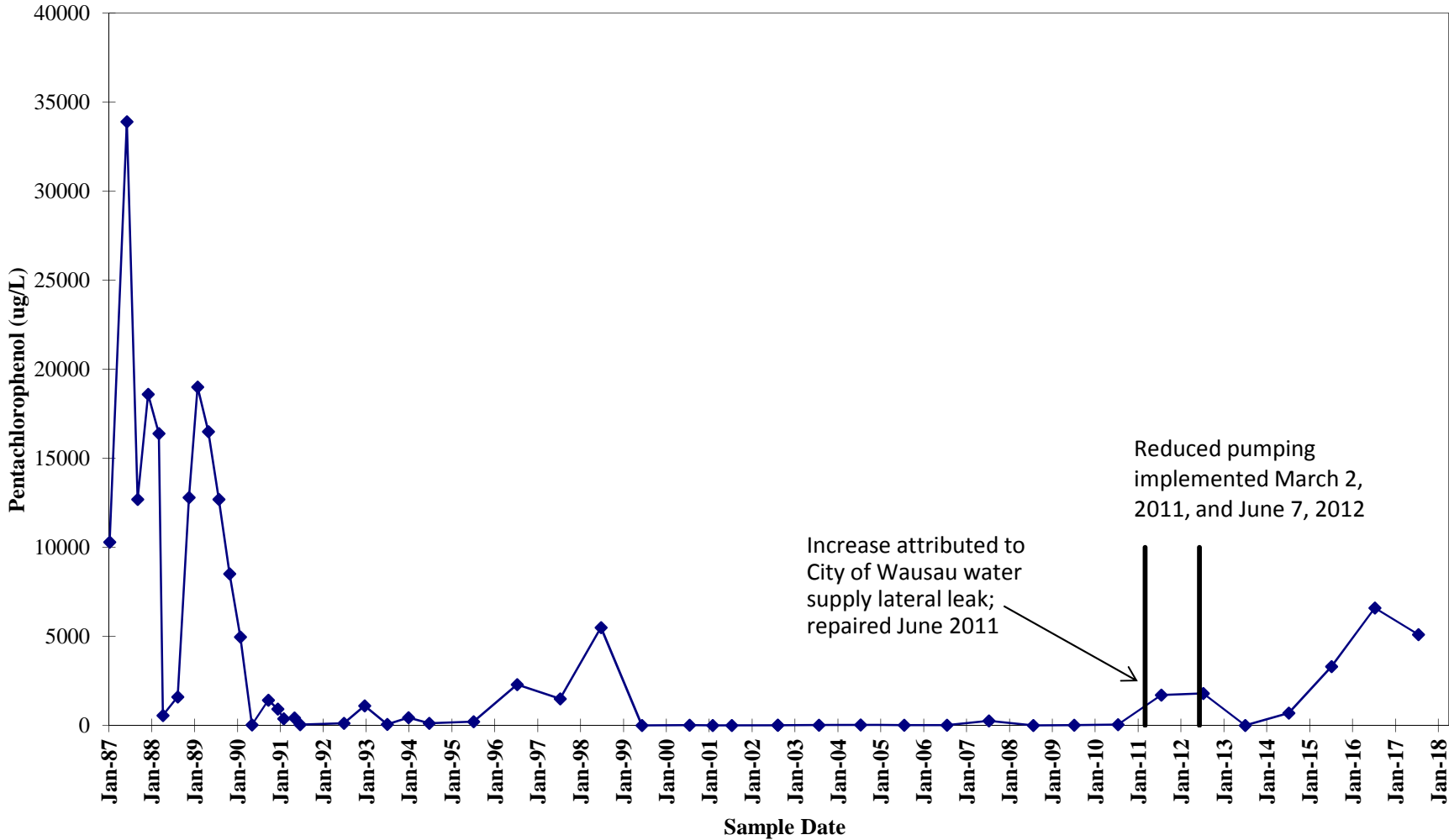
**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W27**



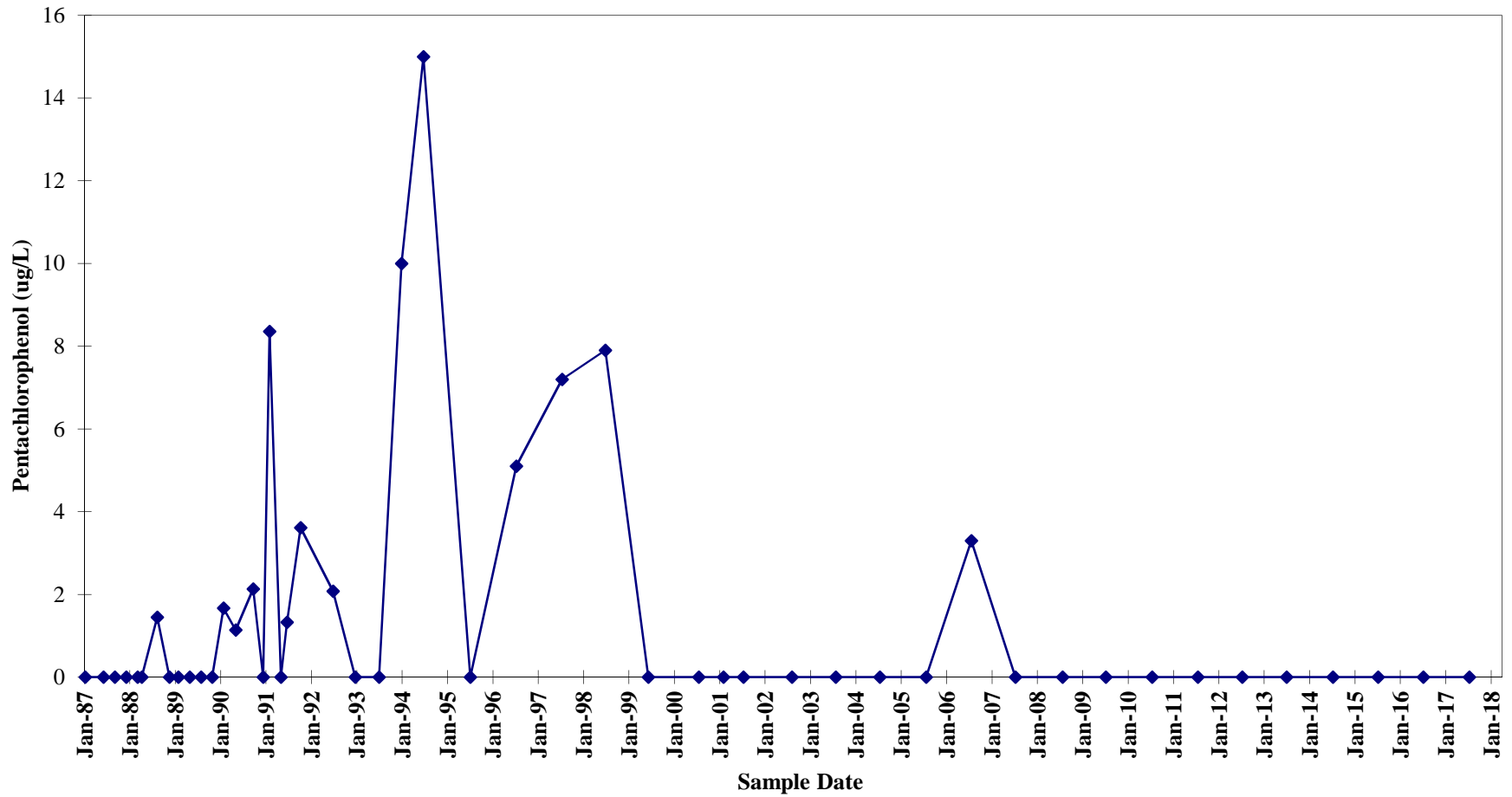
### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W28



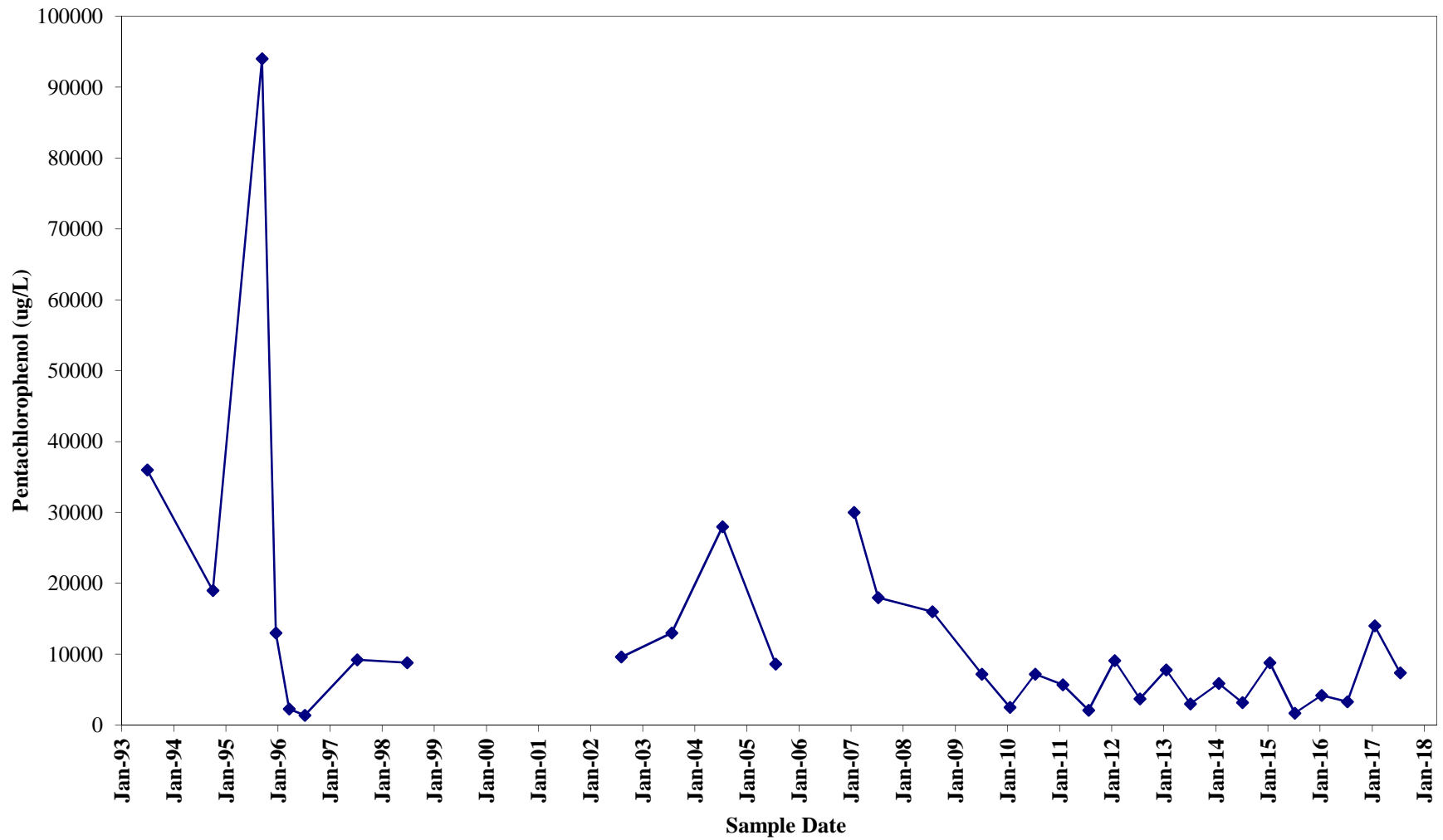
**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W29**



**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W32**

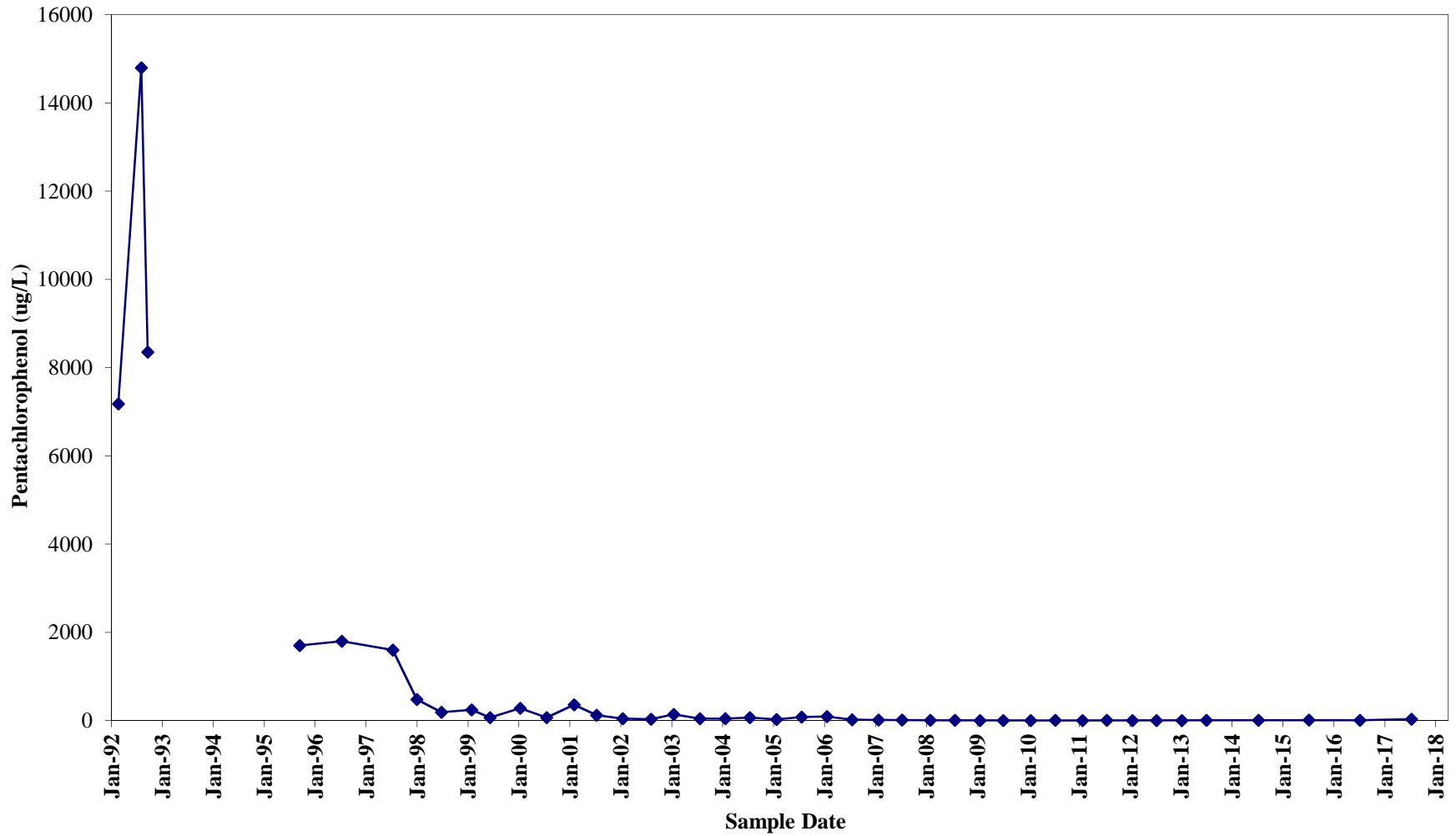


### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W33



PCP data gap due to measurable product present in well.

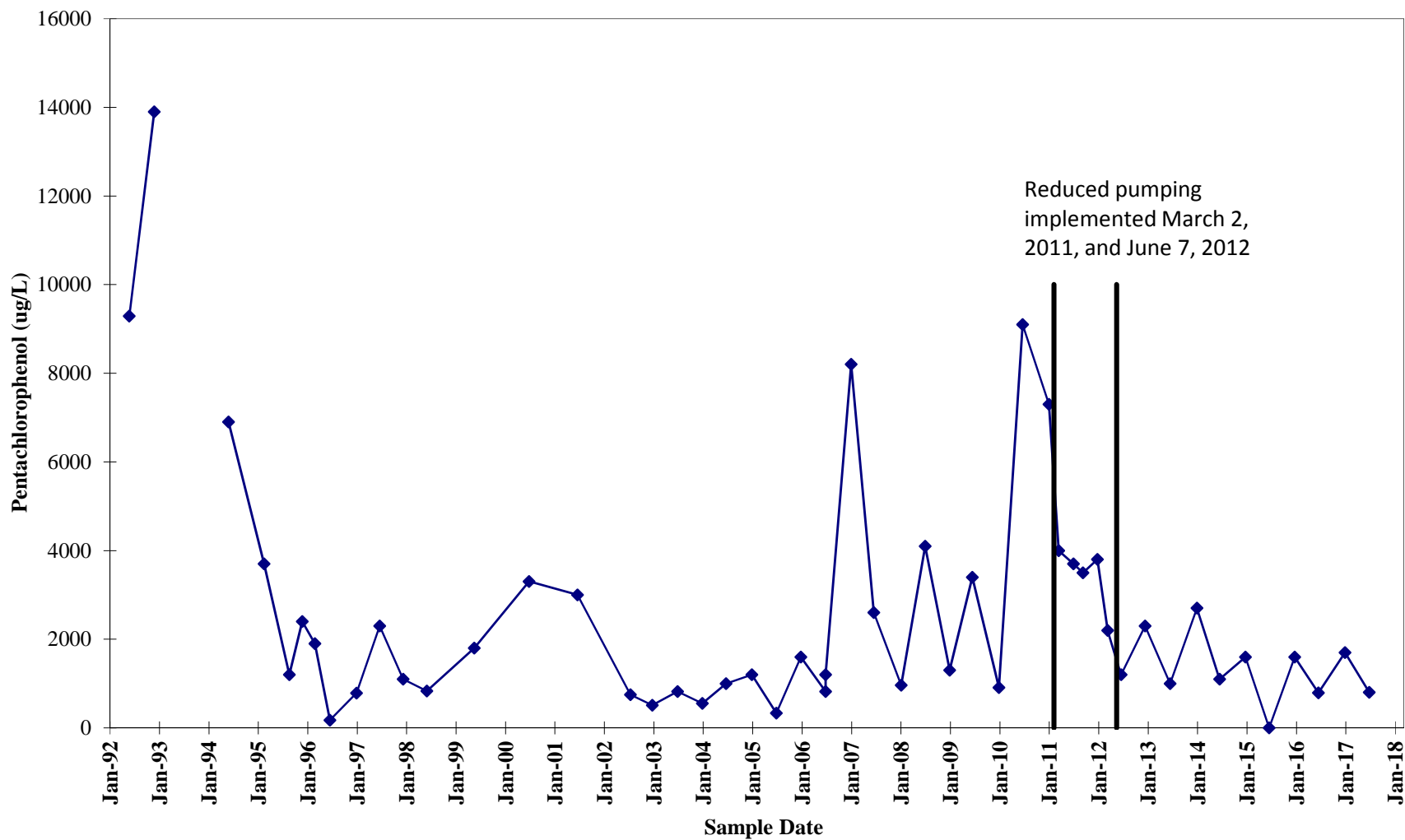
**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W36**



PCP data gap due to measurable product present in well.

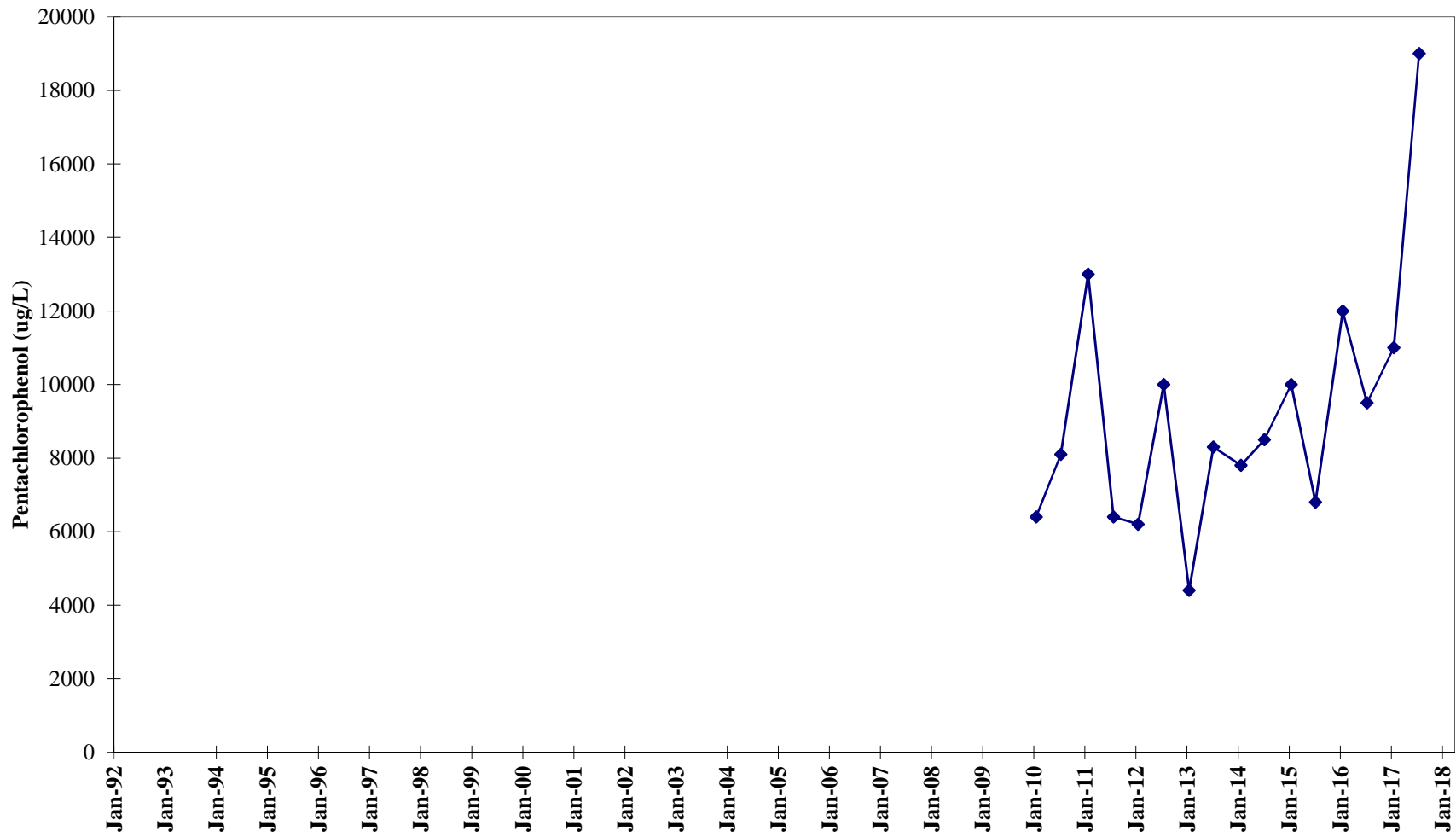


### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W39



PCP data gap due to measurable product present in well.

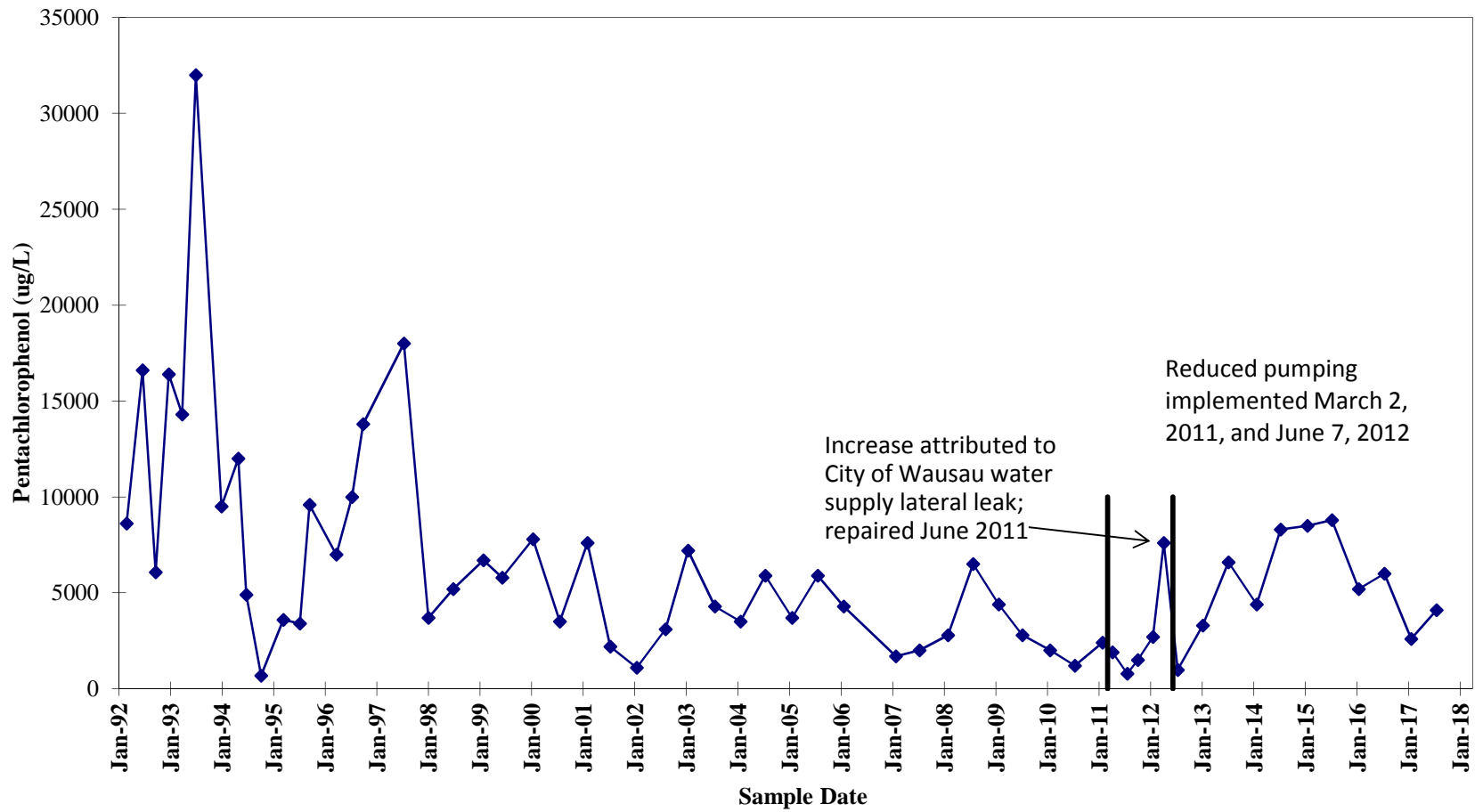
**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W40**



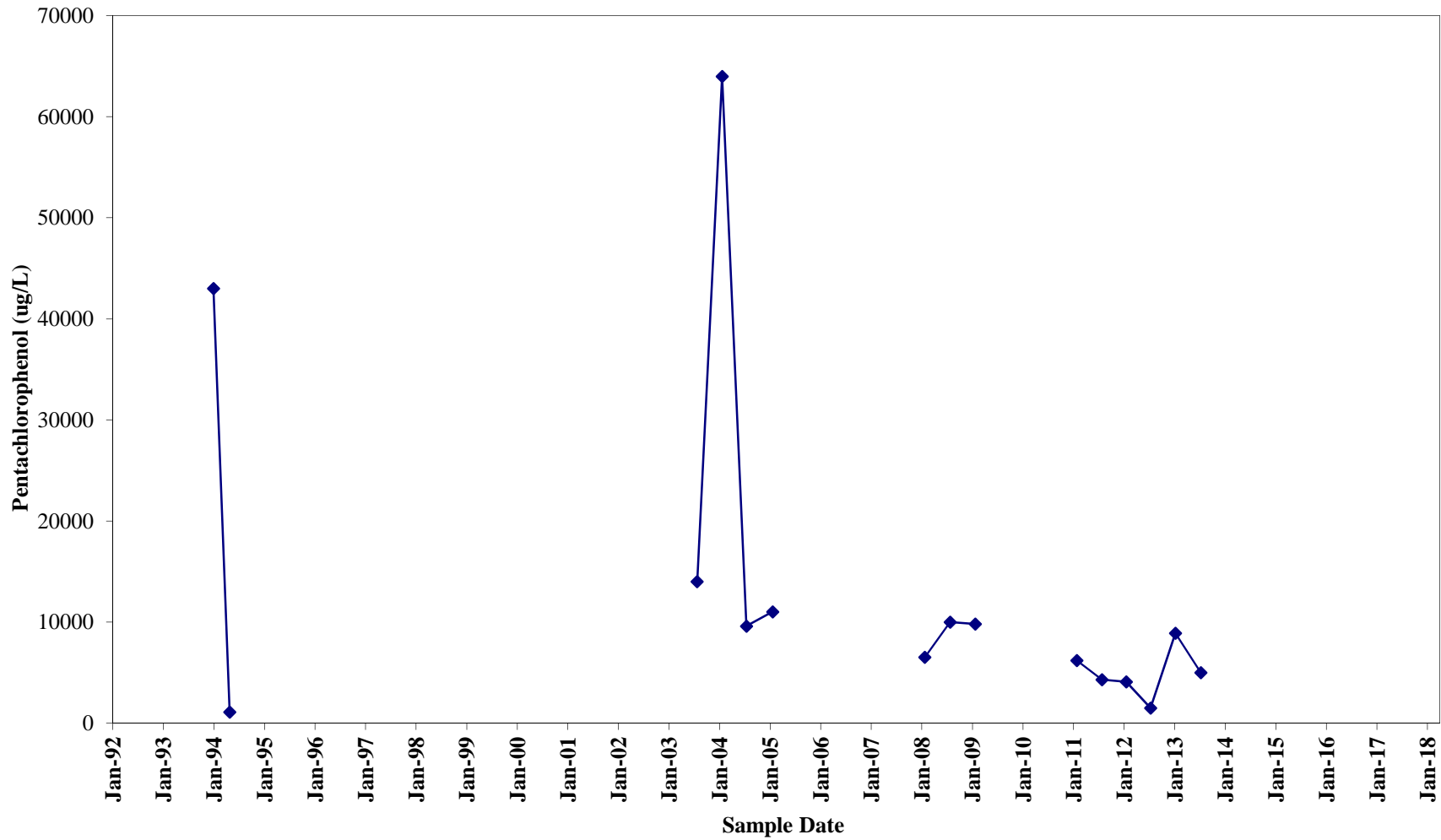
PCP data gap due to measurable product present in well.

Spike in PCP concentration in July 2017 probably due to presence of a small amount of product in water sample.

## Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W41

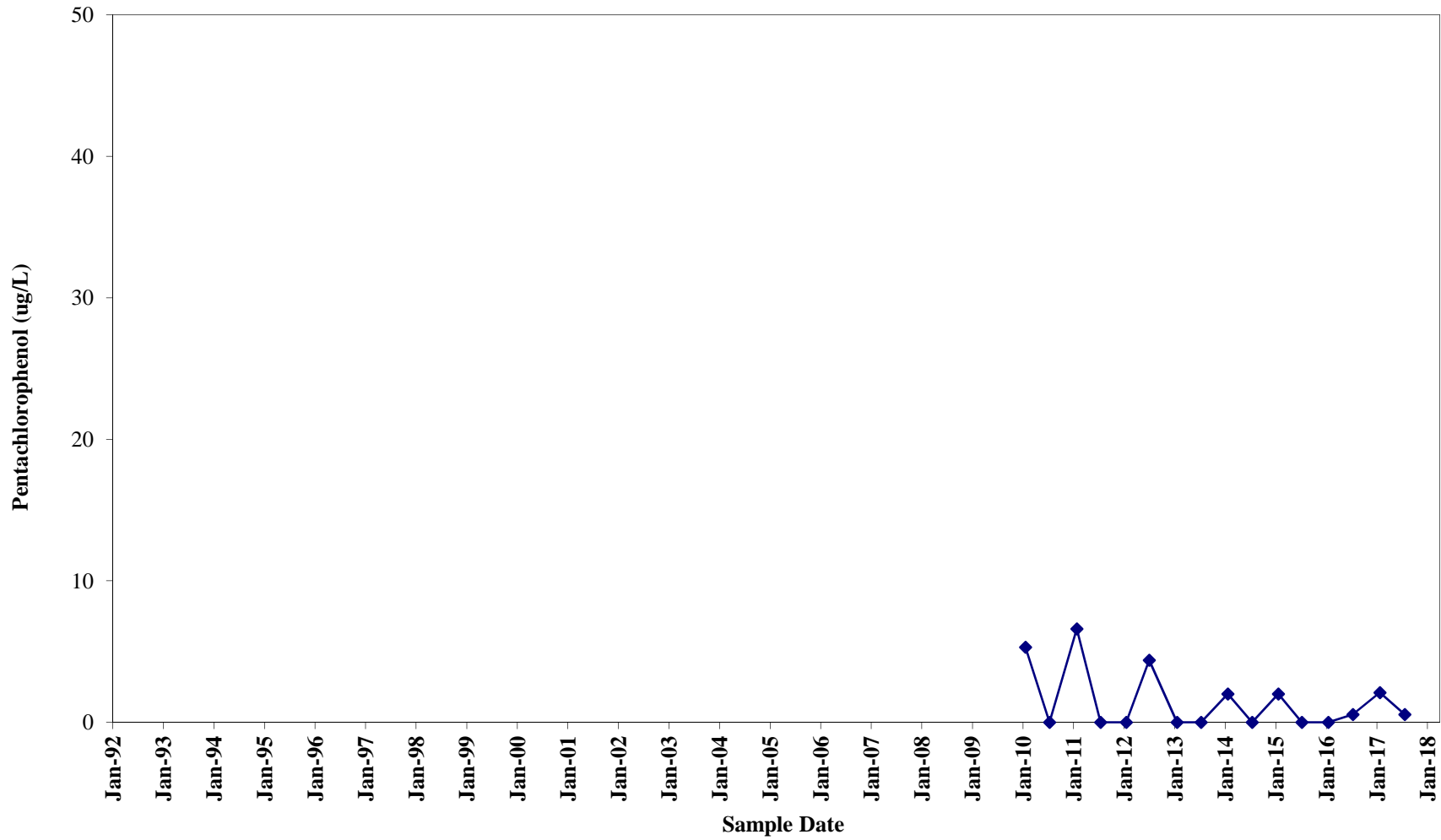


### Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W69

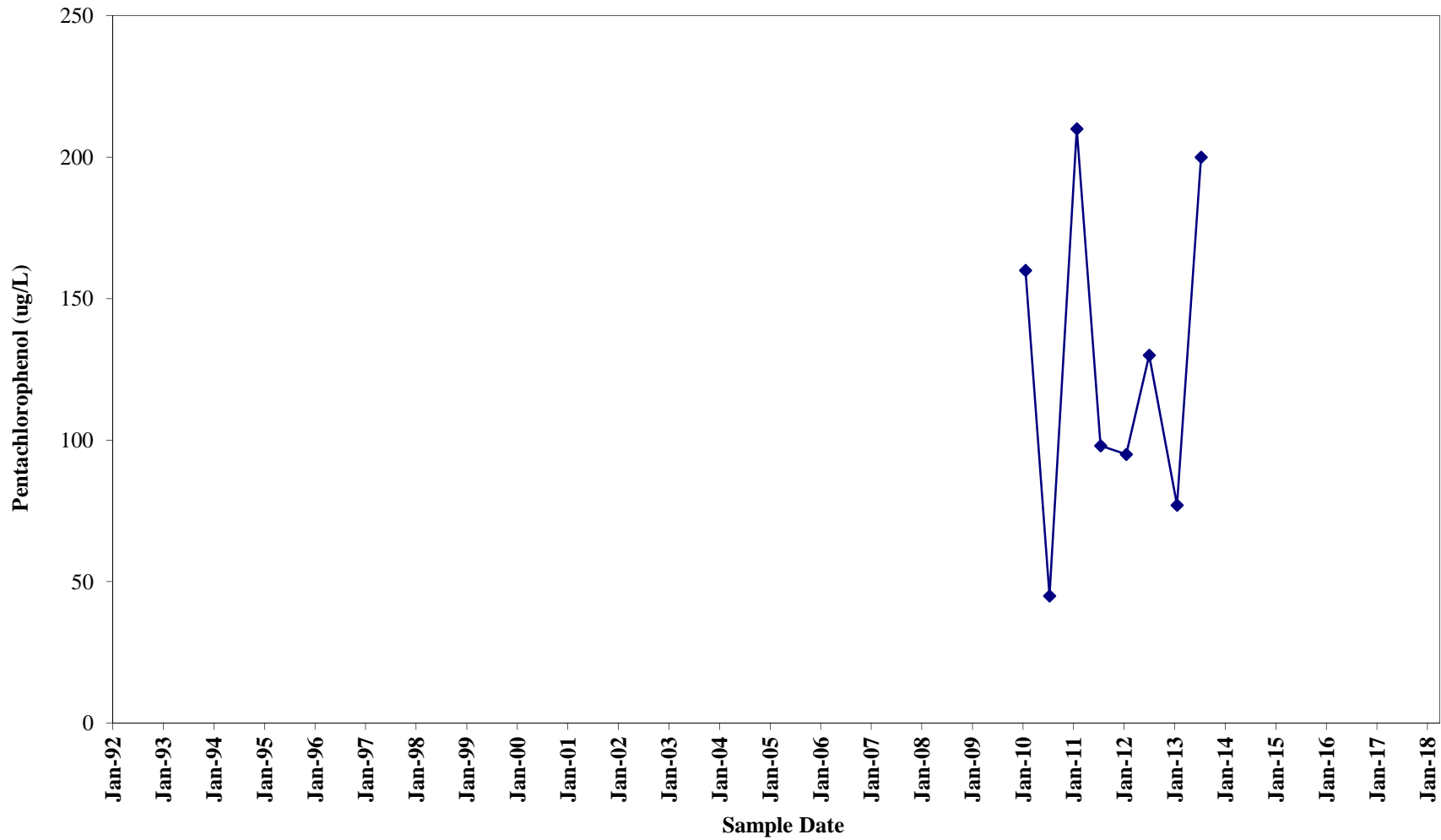


PCP data gap due to measurable product present in well.

**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well DFOMW5**

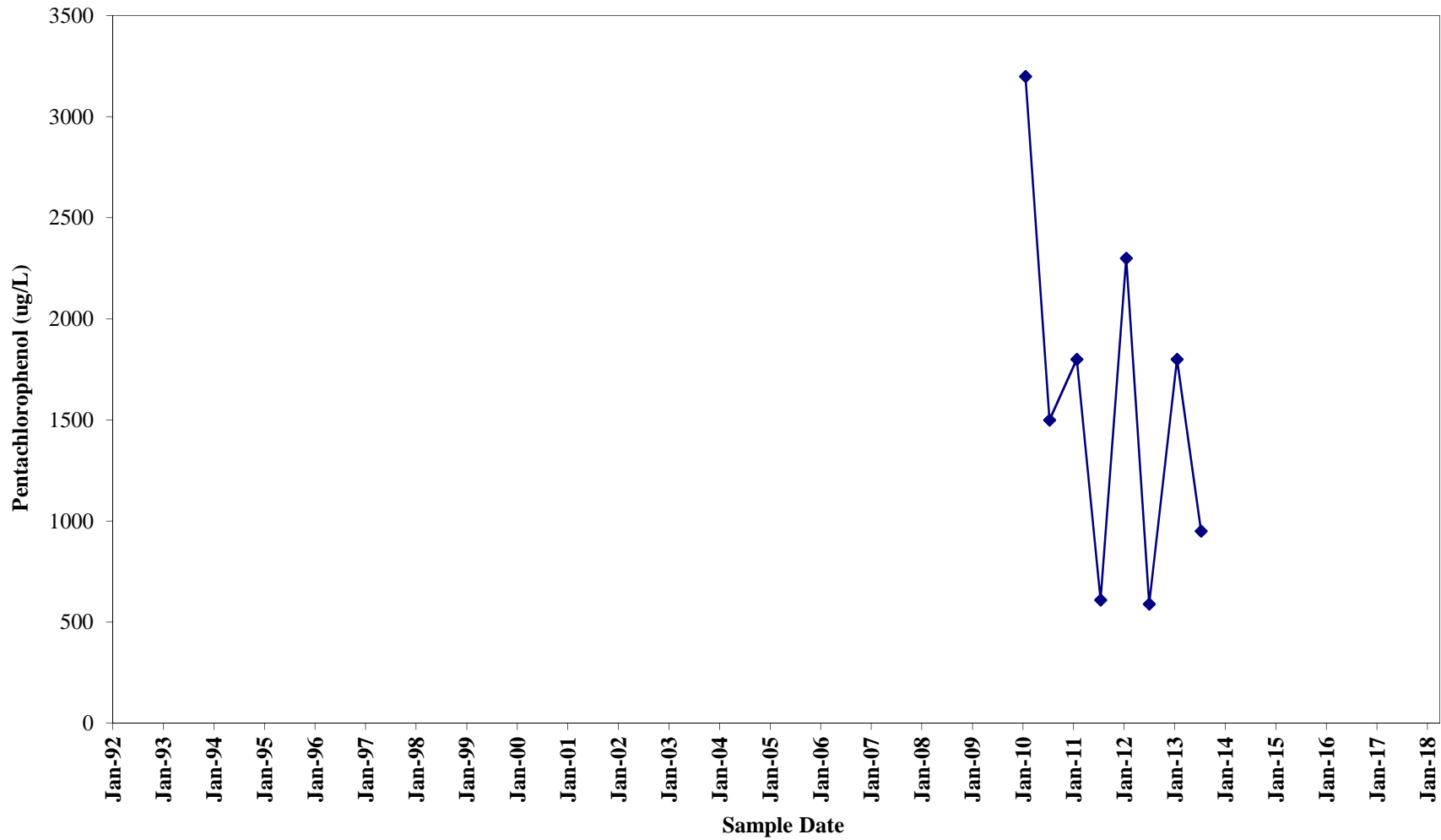


**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well DFOMW9**



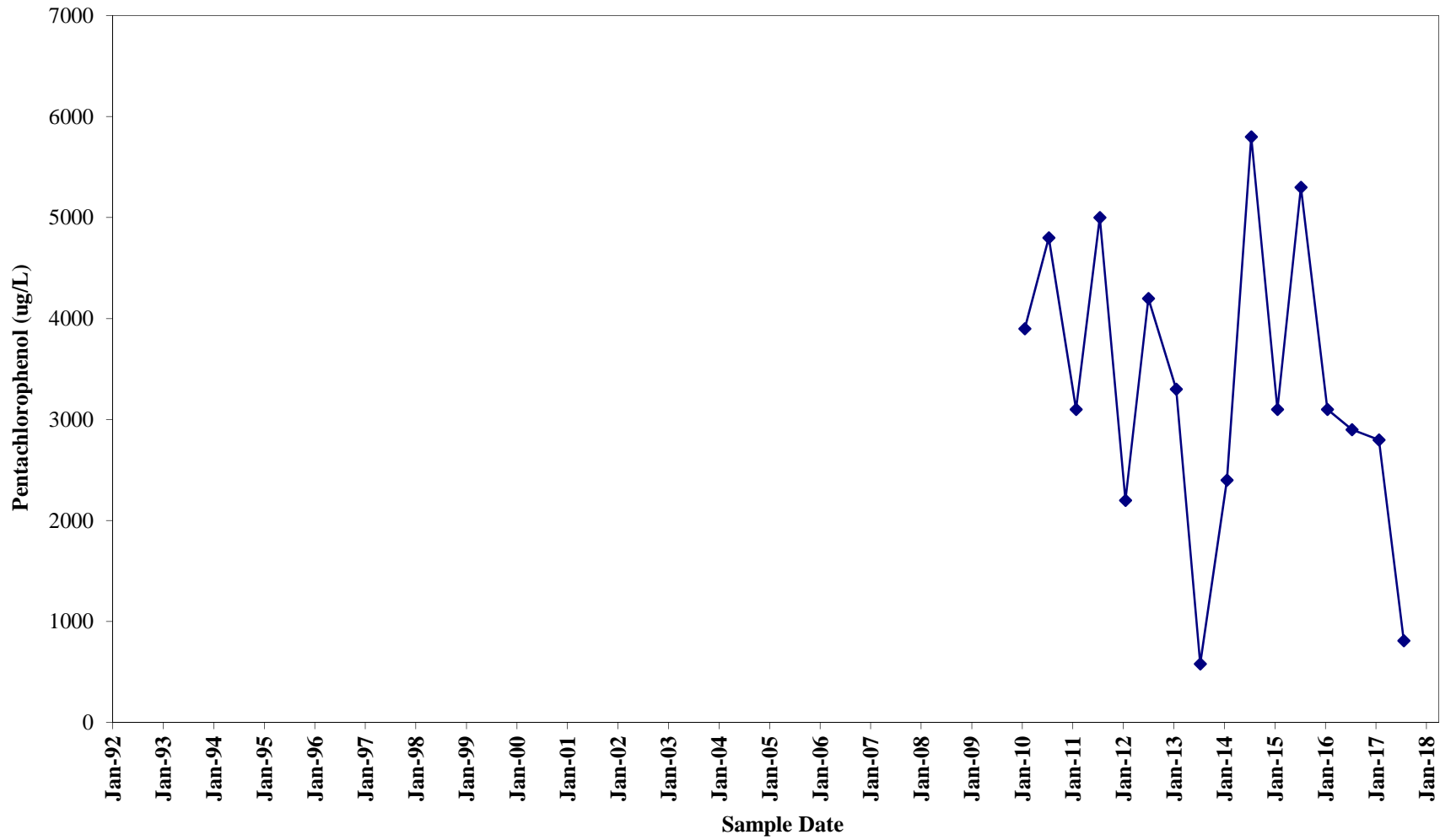
Well DFOMW9 discontinued from monitoring program beginning in 2014.

**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well DFOMW10A**



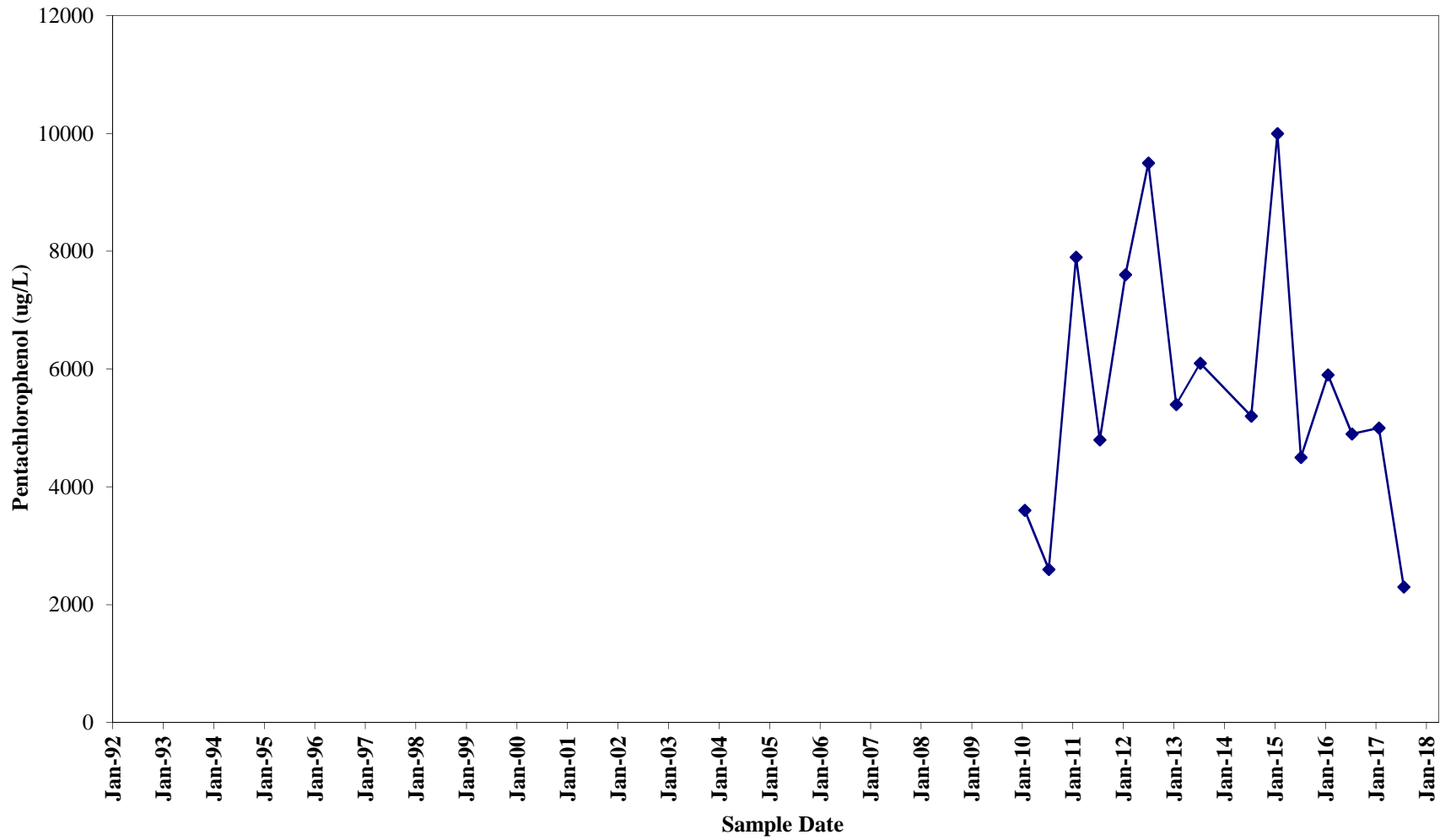
Well DFOMW10A discontinued from monitoring program beginning in 2014.

**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well DFOMW11**

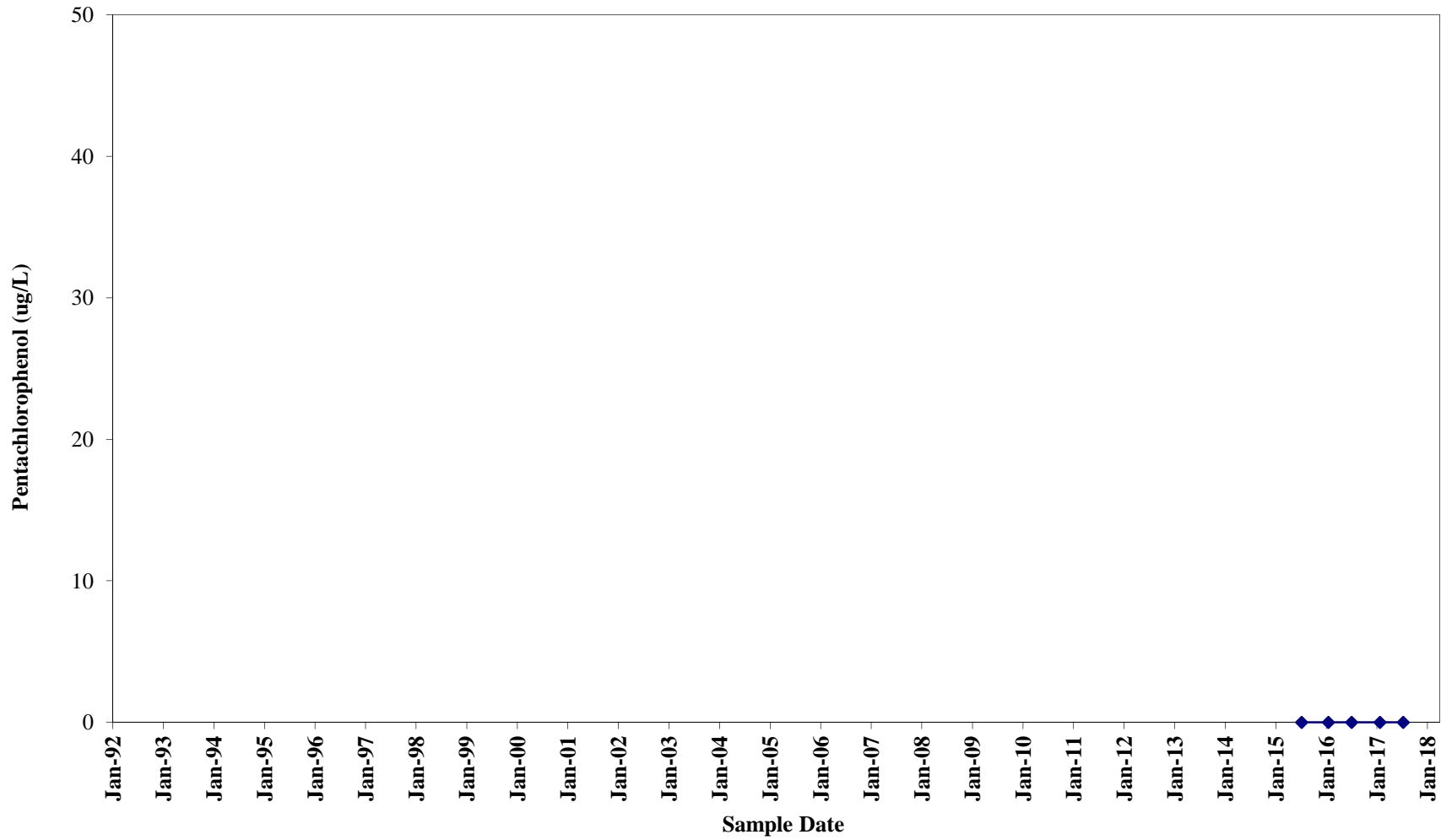




**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well DFOMW12**

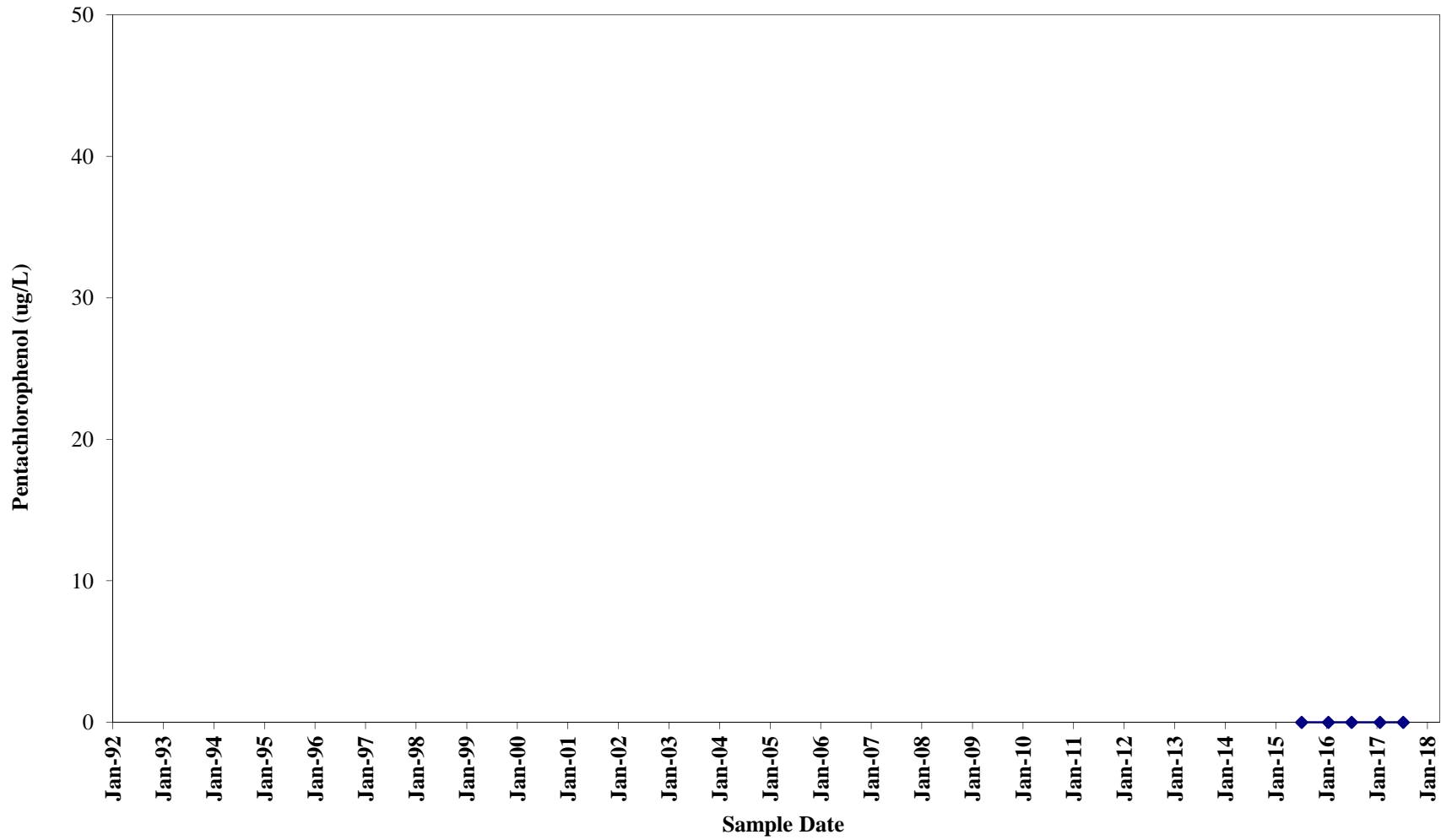


**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W71**



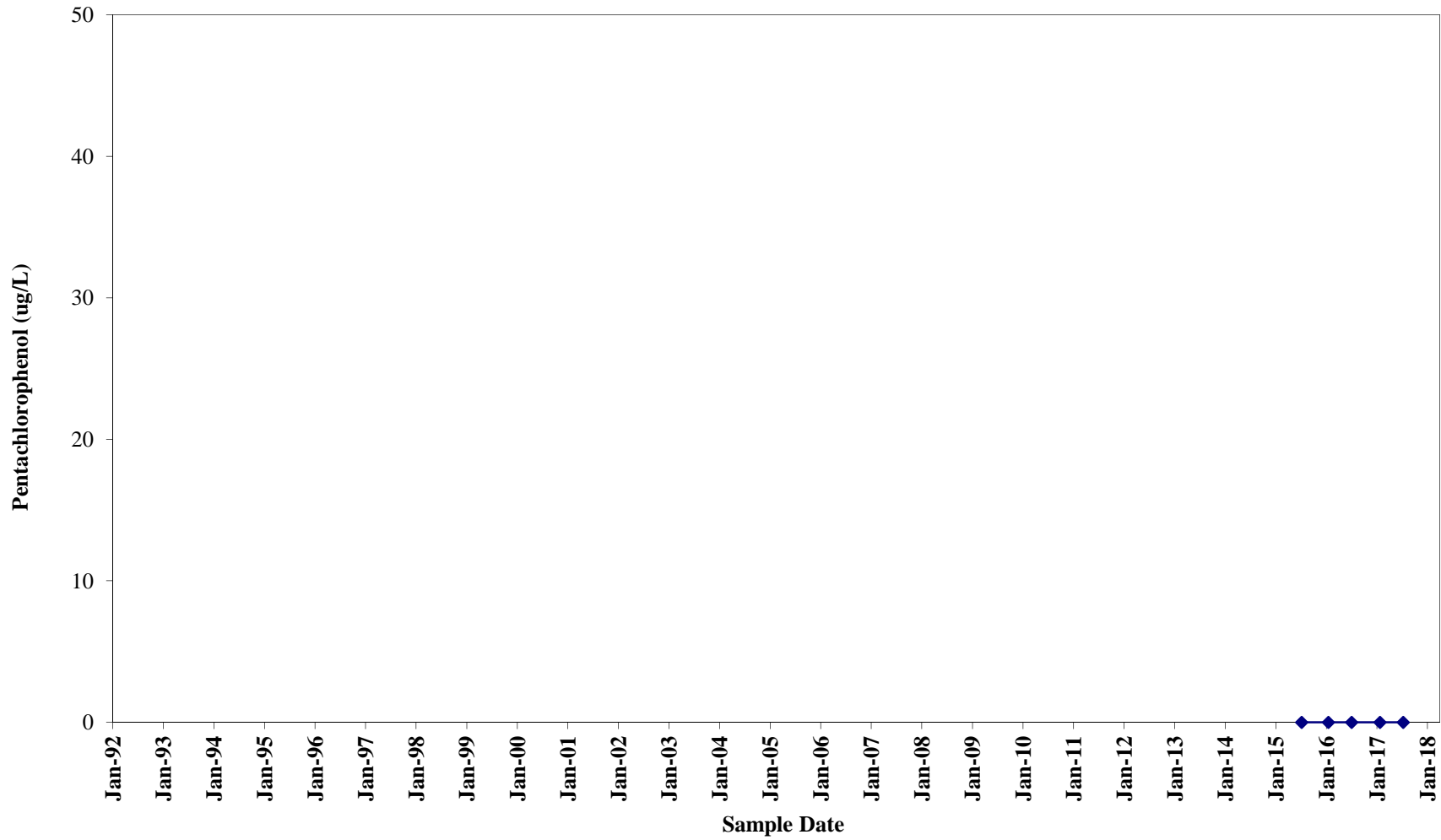
Well W71 installed in June 2015.

**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W72**



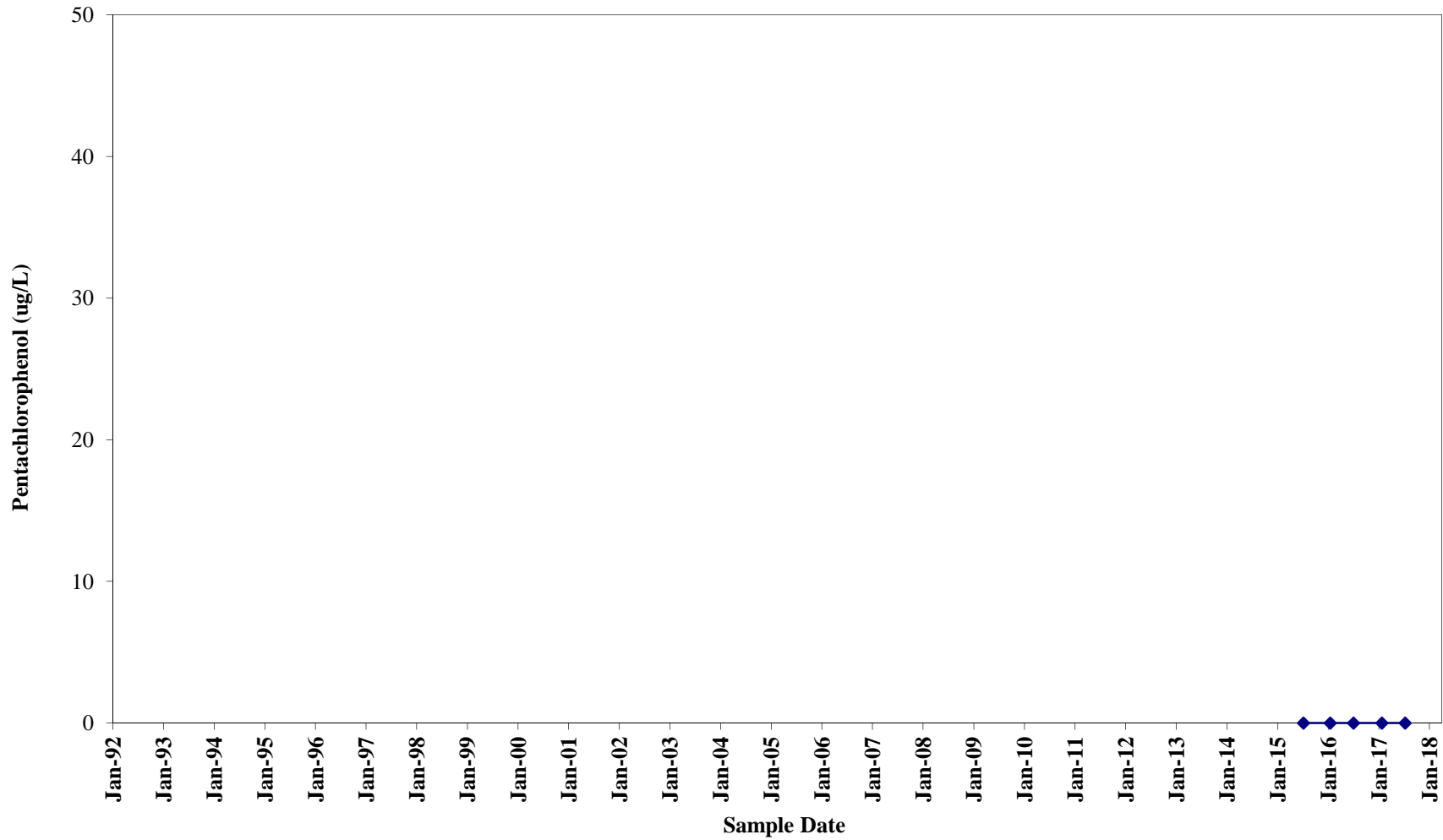
Well W72 installed in June 2015.

**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W73**



Well W73 installed in June 2015.

**Pentachlorophenol Concentrations  
Historical Groundwater Monitoring  
Well W74**



Well W74 installed in June 2015.

**APPENDIX D**

**LABORATORY REPORT**

D1     January 2017  
D2     July 2017

**D1**

**January 2017**

**ANALYTICAL REPORT**

TRC ENVIRONMENTAL  
 BRUCE IVERSON  
 708 HEARTLAND TRAIL  
 MADISON, WI 53717

Project Name: WAULECO  
 Project Phase:  
 Contract #: 2399  
 Project #: 189597.0005  
 Folder #: 124842  
 Purchase Order #: 104230

Page 1 of 11  
 Arrival Temperature: 2.4  
 Report Date: 01/26/2017  
 Date Received: 01/17/2017  
 Reprint Date: 01/26/2017

CT LAB Sample#: 828066    Sample Description: W8	Sampled: 01/16/2017 0745
--	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	4.1	mg/L	0.040	0.13	1		01/17/2017 07:45	16:13	AGK	EPA 9056A
Total Sulfate	23	mg/L	1.0	3.2	1		01/17/2017 07:45	16:13	AGK	EPA 9056A
Total Organic Carbon	1.6	mg/L	0.50 *	1.7	1		01/17/2017 07:45	22:49	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1		01/18/2017 07:45	21:08	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1		01/18/2017 07:45	21:08	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	<33	ug/L	33	110	1		01/23/2017 07:45	01/24/2017 15:55	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.14	1.0	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.50	1.6	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis



CT LAB Sample#: 828066 Sample Description: W8

Sampled: 01/16/2017 0745

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,6-Dichlorophenol	<3.0	ug/L	0.40	1.4	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.18	1.0	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		01/23/2017 07:45	01/25/2017 16:15	JJY	EPA 8270D

CT LAB Sample#: 828067 Sample Description: W16

Sampled: 01/16/2017 0835

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Total Sulfate	<b>25</b>	mg/L	1.0	3.2	1			01/17/2017 19:58	AGK	EPA 9056A
Total Organic Carbon	<b>1.8</b>	mg/L	0.50	1.7	1			01/17/2017 23:42	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			01/18/2017 21:15	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/18/2017 21:15	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	<33	ug/L	33	110	1		01/23/2017 07:45	01/24/2017 16:26	AJZ	EPA 8015

CT LAB Sample#: 828068 Sample Description: W12

Sampled: 01/16/2017 0930

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Total Sulfate	26	mg/L	1.0	3.2	1			01/17/2017 20:18	AGK	EPA 9056A
Total Organic Carbon	1.8	mg/L	0.50	1.7	1			01/17/2017 23:54	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			01/18/2017 21:22	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/18/2017 21:22	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	<34	ug/L	34	110	1		01/23/2017 07:45	01/24/2017 16:57	AJZ	EPA 8015

CT LAB Sample#: 828069 Sample Description: W11

Sampled: 01/16/2017 1010

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Total Sulfate	13	mg/L	1.0	3.2	1			01/17/2017 20:37	AGK	EPA 9056A
Total Organic Carbon	2.1	mg/L	0.50	1.7	1			01/18/2017 00:06	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			01/18/2017 21:29	NAH	EPA 6010C
Dissolved Manganese	485	ug/L	2.2	7.3	1			01/18/2017 21:29	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	270	ug/L	33	110	1		01/23/2017 07:45	01/24/2017 17:28	AJZ	EPA 8015

CT LAB Sample#: 828070 Sample Description: W28

Sampled: 01/16/2017 1050

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Total Sulfate	15	mg/L	1.0	3.2	1			01/17/2017 20:57	AGK	EPA 9056A
Total Organic Carbon	1.8	mg/L	0.50	1.7	1			01/18/2017 00:44	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			01/18/2017 21:36	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/18/2017 21:36	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	<34	ug/L	34	110	1		01/23/2017 07:45	01/24/2017 17:59	AJZ	EPA 8015

CT LAB Sample#: 828071 Sample Description: W26

Sampled: 01/16/2017 1125

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	1.7	mg/L	0.040	0.13	1			01/17/2017 17:13	AGK	EPA 9056A
Total Sulfate	28	mg/L	1.0	3.2	1			01/17/2017 17:13	AGK	EPA 9056A
Total Organic Carbon	3.7	mg/L	0.50	1.7	1			01/18/2017 00:57	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			01/18/2017 21:43	NAH	EPA 6010C
Dissolved Manganese	76.1	ug/L	2.2	7.3	1			01/18/2017 21:43	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	420	ug/L	33	110	1		01/23/2017 07:45	01/24/2017 18:30	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	69	ug/L	2.8	20	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D

CT LAB Sample#: 828071 Sample Description: W26

Sampled: 01/16/2017 1125

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,5-Trichlorophenol	<3.0	ug/L	2.4	20	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
2,4,6-Trichlorophenol	<10	ug/L	10	32	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	2.6	20	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
2,4-Dimethylphenol	<4.0	ug/L	4.0	20	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
2,4-Dinitrophenol	<5.8	ug/L	5.8	20	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
2,6-Dichlorophenol	<8.0	ug/L	8.0	28	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	2.4	20	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	3.0	20	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	2.4	20	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
3 & 4-Methylphenol	<3.4	ug/L	3.4	20	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<6.0	ug/L	6.0	22	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	2.8	20	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
4-Nitrophenol	<4.0	ug/L	4.0	20	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
Pentachlorophenol	<b>830</b>	ug/L	3.6	20	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D
Phenol	<4.8	ug/L	4.8	20	20		01/23/2017 07:45	01/25/2017 16:34	JJY	EPA 8270D

CT LAB Sample#: 828072 Sample Description: W19

Sampled: 01/16/2017 1205

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>3.4</b>	mg/L	0.040	0.13	1			01/17/2017 18:38	AGK	EPA 9056A
<b>Organic Results</b>										
2,3,4,6-Tetrachlorophenol	<b>25</b>	ug/L	1.4	10	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	1.2	10	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 828072 Sample Description: W19 Sampled: 01/16/2017 1205

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,6-Trichlorophenol	<5.1	ug/L	5.1	16	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	1.3	10	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	2.0	10	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	2.9	10	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
2,6-Dichlorophenol	<4.0	ug/L	4.0	14	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	1.2	10	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	1.5	10	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	1.2	10	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	1.7	10	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	3.0	11	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	1.4	10	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	2.0	10	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
Pentachlorophenol	<b>230</b>	ug/L	1.8	10	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D
Phenol	<3.0	ug/L	2.4	10	10		01/23/2017 07:45	01/26/2017 12:47	JJY	EPA 8270D

CT LAB Sample#: 828073 Sample Description: W25 Sampled: 01/16/2017 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>4.2</b>	mg/L	0.040	0.13	1			01/17/2017 18:58	AGK	EPA 9056A
<b>Organic Results</b>										
2,3,4,6-Tetrachlorophenol	<b>0.60</b>	ug/L	0.14 *	1.0	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.52	1.6	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D

CT LAB Sample#: 828073 Sample Description: W25 Sampled: 01/16/2017 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.21	1.0	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.41	1.4	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.18	1.0	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.21	1.0	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
Pentachlorophenol	<b>6.2</b>	ug/L	0.19	1.0	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.25	1.0	1		01/23/2017 07:45	01/25/2017 17:12	JJY	EPA 8270D

CT LAB Sample#: 828074 Sample Description: W17 Sampled: 01/16/2017 1335

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>0.099</b>	mg/L	0.040 *	0.13	1			01/17/2017 19:18	AGK	EPA 9056A
Total Sulfate	<b>5.0</b>	mg/L	1.0	3.2	1			01/17/2017 19:18	AGK	EPA 9056A
Total Organic Carbon	<b>4.5</b>	mg/L	0.50	1.7	1			01/18/2017 01:09	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<b>250</b>	ug/L	59	200	1			01/18/2017 21:50	NAH	EPA 6010C
Dissolved Manganese	<b>310</b>	ug/L	2.2	7.3	1			01/18/2017 21:50	NAH	EPA 6010C

CT LAB Sample#: 828074 Sample Description: W17

Sampled: 01/16/2017 1335

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
TPH as Mineral Spirits	650	ug/L	33	110	1		01/23/2017 07:45	01/24/2017 19:01	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	3.6	ug/L	0.73 *	5.2	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.63	5.2	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	2.6	8.3	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.68	5.2	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	1.0	5.2	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	1.5	5.2	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	2.1	7.3	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.63	5.2	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.78	5.2	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.63	5.2	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.89	5.2	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	1.6	5.7	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.73	5.2	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	1.0	5.2	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
Pentachlorophenol	170	ug/L	0.94	5.2	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D
Phenol	<3.0	ug/L	1.3	5.2	5		01/23/2017 07:45	01/26/2017 13:06	JJY	EPA 8270D

CT LAB Sample#: 828075 Sample Description: W6R

Sampled: 01/16/2017 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	0.80	mg/L	0.040	0.13	1			01/17/2017 19:38	AGK	EPA 9056A

CT LAB Sample#: 828075 Sample Description: W6R

Sampled: 01/16/2017 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
2,3,4,6-Tetrachlorophenol	370	ug/L	28	200	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
2,4,5-Trichlorophenol	<24	ug/L	24	200	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
2,4,6-Trichlorophenol	<100	ug/L	100	320	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
2,4-Dichlorophenol	<26	ug/L	26	200	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
2,4-Dimethylphenol	<40	ug/L	40	200	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
2,4-Dinitrophenol	<58	ug/L	58	200	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
2,6-Dichlorophenol	<80	ug/L	80	280	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
2-Chlorophenol	<24	ug/L	24	200	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
2-Methylphenol	<30	ug/L	30	200	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
2-Nitrophenol	<24	ug/L	24	200	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
3 & 4-Methylphenol	<34	ug/L	34	200	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<60	ug/L	60	220	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
4-Chloro-3-methylphenol	<28	ug/L	28	200	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
4-Nitrophenol	<40	ug/L	40	200	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
Pentachlorophenol	5500	ug/L	36	200	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D
Phenol	<48	ug/L	48	200	200		01/23/2017 07:45	01/26/2017 13:25	JJY	EPA 8270D

CT LAB Sample#: 828076 Sample Description: PW17

Sampled: 01/16/2017 1420

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Total Sulfate	21	mg/L	1.0	3.2	1			01/17/2017 21:17	AGK	EPA 9056A
Total Organic Carbon	6.6	mg/L	0.50	1.7	1			01/18/2017 01:22	AGK	EPA 9060A



CT LAB Sample#: 828076 Sample Description: PW17 Sampled: 01/16/2017 1420

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Metals Results</b>										
Dissolved Iron	221	ug/L	59	200	1			01/18/2017 21:57	NAH	EPA 6010C
Dissolved Manganese	1380	ug/L	2.2	7.3	1			01/18/2017 21:57	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	1300	ug/L	35	120	1		01/23/2017 07:45	01/24/2017 19:32	AJZ	EPA 8015

CT LAB Sample#: 828077 Sample Description: FP2 Sampled: 01/16/2017 1440

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Total Sulfate	3.8	mg/L	1.0	3.2	1			01/17/2017 21:37	AGK	EPA 9056A
Total Organic Carbon	12	mg/L	0.50	1.7	1			01/18/2017 01:35	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	15600	ug/L	59	200	1	M		01/18/2017 22:04	NAH	EPA 6010C
Dissolved Manganese	7300	ug/L	2.2	7.3	1	M		01/18/2017 22:04	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	5500	ug/L	33	110	1		01/23/2017 07:45	01/24/2017 21:05	AJZ	EPA 8015

Notes: \* Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: **Brett M. Szymanski**  
 Project Manager  
 608-356-2760

**QC Qualifiers**

<b>Code</b>	<b>Description</b>
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

**Current CT Laboratories Certifications**

Wisconsin (WDNR) Chemistry ID# 157066030  
 Wisconsin (DATCP) Bacteriology ID# 105-289  
 Louisiana NELAP (primary) ID# ACC20160002  
 Illinois NELAP Lab ID# 200073  
 Kansas NELAP Lab ID# E-10368  
 Virginia NELAP Lab ID# 460203  
 Maryland Lab ID# WI00061  
 ISO/IEC 17025-2005 A2LA Cert # 3806.01  
 DoD-ELAP A2LA 3806.01  
 GA EPD Stipulation ID ACC20160002





**ANALYTICAL REPORT**

TRC ENVIRONMENTAL  
 BRUCE IVERSON  
 708 HEARTLAND TRAIL  
 MADISON, WI 53717

Project Name: WAULECO  
 Project Phase:  
 Contract #: 2399  
 Project #: 189597.0005  
 Folder #: 124931  
 Purchase Order #: 104230

Page 1 of 11  
 Arrival Temperature: 4.7  
 Report Date: 02/01/2017  
 Date Received: 01/20/2017  
 Reprint Date: 02/01/2017

CT LAB Sample#: 829421 Sample Description: W22 Sampled: 01/19/2017 0835

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<0.24	mg/L	0.24	0.78	6			01/20/2017 13:45	AGK	EPA 9056A
Total Sulfate	11	mg/L	6.0 *	19	6			01/20/2017 13:45	AGK	EPA 9056A
Total Organic Carbon	11	mg/L	0.50	1.7	1			01/30/2017 14:29	MDS	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	392	ug/L	59	200	1			01/24/2017 01:25	NAH	EPA 6010C
Dissolved Manganese	3310	ug/L	2.2	7.3	1			01/24/2017 01:25	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	5200	ug/L	33	110	1		01/23/2017 07:45	01/24/2017 21:37	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	430	ug/L	28	200	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
2,4,5-Trichlorophenol	<24	ug/L	24	200	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
2,4,6-Trichlorophenol	<100	ug/L	100	320	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
2,4-Dichlorophenol	<26	ug/L	26	200	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
2,4-Dimethylphenol	<40	ug/L	40	200	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
2,4-Dinitrophenol	<59	ug/L	59	200	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 829421 Sample Description: W22

Sampled: 01/19/2017 0835

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,6-Dichlorophenol	<81	ug/L	81	280	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
2-Chlorophenol	<24	ug/L	24	200	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
2-Methylphenol	<30	ug/L	30	200	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
2-Nitrophenol	<24	ug/L	24	200	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
3 & 4-Methylphenol	<34	ug/L	34	200	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<61	ug/L	61	220	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
4-Chloro-3-methylphenol	<28	ug/L	28	200	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
4-Nitrophenol	<40	ug/L	40	200	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
Pentachlorophenol	<b>6100</b>	ug/L	36	200	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D
Phenol	<48	ug/L	48	200	200		01/25/2017 09:00	01/31/2017 14:26	JJY	EPA 8270D

CT LAB Sample#: 829422 Sample Description: W22 DUP

Sampled: 01/19/2017 0835

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			01/20/2017 16:02	AGK	EPA 9056A
Total Sulfate	<b>8.1</b>	mg/L	1.0	3.2	1			01/20/2017 16:02	AGK	EPA 9056A
Total Organic Carbon	<b>10</b>	mg/L	0.50	1.7	1			01/30/2017 15:26	MDS	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			01/24/2017 01:33	NAH	EPA 6010C
Dissolved Manganese	<b>3250</b>	ug/L	2.2	7.3	1			01/24/2017 01:33	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	<b>5800</b>	ug/L	33	110	1		01/23/2017 07:45	01/24/2017 22:08	AJZ	EPA 8015

CT LAB Sample#: 829422 Sample Description: W22 DUP

Sampled: 01/19/2017 0835

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,3,4,6-Tetrachlorophenol	460	ug/L	28	200	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
2,4,5-Trichlorophenol	<24	ug/L	24	200	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
2,4,6-Trichlorophenol	<100	ug/L	100	320	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
2,4-Dichlorophenol	<26	ug/L	26	200	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
2,4-Dimethylphenol	<40	ug/L	40	200	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
2,4-Dinitrophenol	<59	ug/L	59	200	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
2,6-Dichlorophenol	<81	ug/L	81	280	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
2-Chlorophenol	<24	ug/L	24	200	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
2-Methylphenol	<30	ug/L	30	200	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
2-Nitrophenol	<24	ug/L	24	200	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
3 & 4-Methylphenol	<34	ug/L	34	200	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<61	ug/L	61	220	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
4-Chloro-3-methylphenol	<28	ug/L	28	200	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
4-Nitrophenol	<40	ug/L	40	200	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
Pentachlorophenol	6100	ug/L	36	200	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D
Phenol	<48	ug/L	48	200	200		01/25/2017 09:00	01/31/2017 14:45	JJY	EPA 8270D

CT LAB Sample#: 829423 Sample Description: W33

Sampled: 01/19/2017 1025

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			01/20/2017 16:48	AGK	EPA 9056A
Total Sulfate	20	mg/L	1.0	3.2	1			01/20/2017 16:48	AGK	EPA 9056A
Total Organic Carbon	21	mg/L	0.50	1.7	1			01/30/2017 15:40	MDS	EPA 9060A

CT LAB Sample#: 829423 Sample Description: W33

Sampled: 01/19/2017 1025

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Metals Results</b>										
Dissolved Iron	2560	ug/L	59	200	1			01/24/2017 01:40	NAH	EPA 6010C
Dissolved Manganese	1510	ug/L	2.2	7.3	1			01/24/2017 01:40	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	9400	ug/L	33	110	1		01/23/2017 07:45	01/24/2017 22:39	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	2000	ug/L	57	400	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
2,4,5-Trichlorophenol	<48	ug/L	48	400	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
2,4,6-Trichlorophenol	<200	ug/L	200	650	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
2,4-Dichlorophenol	<53	ug/L	53	400	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
2,4-Dimethylphenol	<81	ug/L	81	400	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
2,4-Dinitrophenol	<120	ug/L	120	400	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
2,6-Dichlorophenol	<160	ug/L	160	570	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
2-Chlorophenol	<48	ug/L	48	400	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
2-Methylphenol	<61	ug/L	61	400	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
2-Nitrophenol	<48	ug/L	48	400	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
3 & 4-Methylphenol	<69	ug/L	69	400	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<120	ug/L	120	440	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
4-Chloro-3-methylphenol	<57	ug/L	57	400	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
4-Nitrophenol	<81	ug/L	81	400	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
Pentachlorophenol	14000	ug/L	73	400	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D
Phenol	<97	ug/L	97	400	400		01/25/2017 09:00	01/31/2017 15:04	JJY	EPA 8270D



CT LAB Sample#: 829424 Sample Description: W27

Sampled: 01/19/2017 1145

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Total Sulfate	26	mg/L	1.0	3.2	1			01/20/2017 19:54	AGK	EPA 9056A
Total Organic Carbon	18	mg/L	0.50	1.7	1			01/30/2017 15:54	MDS	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	7550	ug/L	59	200	1			01/24/2017 01:47	NAH	EPA 6010C
Dissolved Manganese	22100	ug/L	2.2	7.3	1			01/24/2017 01:47	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	9800	ug/L	34	110	1		01/23/2017 07:45	01/24/2017 23:10	AJZ	EPA 8015

CT LAB Sample#: 829426 Sample Description: W10A

Sampled: 01/19/2017 0745

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Total Sulfate	15	mg/L	1.0	3.2	1			01/20/2017 20:14	AGK	EPA 9056A
Total Organic Carbon	7.6	mg/L	0.50	1.7	1			01/30/2017 16:07	MDS	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	981	ug/L	59	200	1			01/24/2017 01:55	NAH	EPA 6010C
Dissolved Manganese	1970	ug/L	2.2	7.3	1			01/24/2017 01:55	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	1500	ug/L	33	110	1		01/23/2017 07:45	01/24/2017 23:41	AJZ	EPA 8015

CT LAB Sample#: 829427 Sample Description: W10A DUP

Sampled: 01/19/2017 0745

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Total Sulfate	15	mg/L	1.0	3.2	1			01/20/2017 20:34	AGK	EPA 9056A
Total Organic Carbon	7.2	mg/L	0.50	1.7	1			01/30/2017 16:20	MDS	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	974	ug/L	59	200	1			01/24/2017 02:02	NAH	EPA 6010C
Dissolved Manganese	1950	ug/L	2.2	7.3	1			01/24/2017 02:02	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	1400	ug/L	33	110	1		01/23/2017 07:45	01/25/2017 00:12	AJZ	EPA 8015

CT LAB Sample#: 829428 Sample Description: W39

Sampled: 01/19/2017 0940

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	0.15	mg/L	0.040	0.13	1			01/20/2017 18:34	AGK	EPA 9056A
<b>Organic Results</b>										
2,3,4,6-Tetrachlorophenol	96	ug/L	7.2	52	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
2,4,5-Trichlorophenol	<6.2	ug/L	6.2	52	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
2,4,6-Trichlorophenol	<26	ug/L	26	82	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
2,4-Dichlorophenol	<6.7	ug/L	6.7	52	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
2,4-Dimethylphenol	<10	ug/L	10	52	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
2,4-Dinitrophenol	<15	ug/L	15	52	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
2,6-Dichlorophenol	<21	ug/L	21	72	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
2-Chlorophenol	<6.2	ug/L	6.2	52	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D

CT LAB Sample#: 829428 Sample Description: W39

Sampled: 01/19/2017 0940

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Methylphenol	<7.7	ug/L	7.7	52	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
2-Nitrophenol	<6.2	ug/L	6.2	52	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
3 & 4-Methylphenol	<8.8	ug/L	8.8	52	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<15	ug/L	15	57	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
4-Chloro-3-methylphenol	<7.2	ug/L	7.2	52	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
4-Nitrophenol	<10	ug/L	10	52	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
Pentachlorophenol	<b>1700</b>	ug/L	9.3	52	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D
Phenol	<12	ug/L	12	52	50		01/25/2017 09:00	01/31/2017 15:22	JJY	EPA 8270D

CT LAB Sample#: 829433 Sample Description: W41

Sampled: 01/19/2017 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>0.20</b>	mg/L	0.040	0.13	1			01/20/2017 18:54	AGK	EPA 9056A
<b>Organic Results</b>										
2,3,4,6-Tetrachlorophenol	<b>110</b>	ug/L	15	100	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
2,4,5-Trichlorophenol	<13	ug/L	13	100	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
2,4,6-Trichlorophenol	<52	ug/L	52	170	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
2,4-Dichlorophenol	<14	ug/L	14	100	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
2,4-Dimethylphenol	<21	ug/L	21	100	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
2,4-Dinitrophenol	<30	ug/L	30	100	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
2,6-Dichlorophenol	<42	ug/L	42	150	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
2-Chlorophenol	<13	ug/L	13	100	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
2-Methylphenol	<16	ug/L	16	100	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D

CT LAB Sample#: 829433 Sample Description: W41 Sampled: 01/19/2017 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitrophenol	<13	ug/L	13	100	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
3 & 4-Methylphenol	<18	ug/L	18	100	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<31	ug/L	31	110	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
4-Chloro-3-methylphenol	<15	ug/L	15	100	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
4-Nitrophenol	<21	ug/L	21	100	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
Pentachlorophenol	<b>2600</b>	ug/L	19	100	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D
Phenol	<25	ug/L	25	100	100		01/25/2017 09:00	01/31/2017 15:41	JJY	EPA 8270D

CT LAB Sample#: 829434 Sample Description: W3A Sampled: 01/19/2017 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			01/20/2017 19:14	AGK	EPA 9056A
<b>Organic Results</b>										
2,3,4,6-Tetrachlorophenol	<b>17</b>	ug/L	1.4	10	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	1.2	10	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
2,4,6-Trichlorophenol	<5.0	ug/L	5.0	16	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	1.3	10	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	2.0	10	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	2.9	10	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
2,6-Dichlorophenol	<4.0	ug/L	4.0	14	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	1.2	10	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	1.5	10	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	1.2	10	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D

CT LAB Sample#: 829434 Sample Description: W3A Sampled: 01/19/2017 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
3 & 4-Methylphenol	<3.0	ug/L	1.7	10	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	3.0	11	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	1.4	10	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	2.0	10	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
Pentachlorophenol	<b>320</b>	ug/L	1.8	10	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D
Phenol	<3.0	ug/L	2.4	10	10		01/25/2017 09:00	01/31/2017 16:00	JJY	EPA 8270D

CT LAB Sample#: 829435 Sample Description: W40 Sampled: 01/19/2017 1350

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			01/20/2017 19:34	AGK	EPA 9056A
<b>Organic Results</b>										
2,3,4,6-Tetrachlorophenol	<b>940</b>	ug/L	57	410	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
2,4,5-Trichlorophenol	<49	ug/L	49	410	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
2,4,6-Trichlorophenol	<200	ug/L	200	650	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
2,4-Dichlorophenol	<53	ug/L	53	410	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
2,4-Dimethylphenol	<82	ug/L	82	410	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
2,4-Dinitrophenol	<120	ug/L	120	410	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
2,6-Dichlorophenol	<160	ug/L	160	570	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
2-Chlorophenol	<49	ug/L	49	410	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
2-Methylphenol	<61	ug/L	61	410	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
2-Nitrophenol	<49	ug/L	49	410	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
3 & 4-Methylphenol	<69	ug/L	69	410	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D

CT LAB Sample#: 829435 Sample Description: W40

Sampled: 01/19/2017 1350

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4,6-Dinitro-2-methylphenol	<120	ug/L	120	450	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
4-Chloro-3-methylphenol	<57	ug/L	57	410	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
4-Nitrophenol	<82	ug/L	82	410	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
Pentachlorophenol	<b>11000</b>	ug/L	73	410	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D
Phenol	<98	ug/L	98	410	400		01/25/2017 09:00	01/31/2017 16:19	JJY	EPA 8270D

---

Notes: \* Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

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Submitted by: Brett M. Szymanski  
Project Manager  
608-356-2760

---

**Current CT Laboratories Certifications**

Wisconsin (WDNR) Chemistry ID# 157066030  
Wisconsin (DATCP) Bacteriology ID# 105-289  
Louisiana NELAP (primary) ID# ACC20160002  
Illinois NELAP Lab ID# 200073  
Kansas NELAP Lab ID# E-10368  
Virginia NELAP Lab ID# 460203  
Maryland Lab ID# WI00061  
ISO/IEC 17025-2005 A2LA Cert # 3806.01  
DoD-ELAP A2LA 3806.01  
GA EPD Stipulation ID ACC20160002

---

Company Name: TRC  
 Project Contact: Bruce Iverson  
 Telephone: 608-826-3644  
 Project Name: Wauleco  
 Project Number: 189597.0005  
 Project Location: Wausau, WI  
 Sampled By: Tom Dushek

# CTLaboratories

1230 Lange Court, Baraboo, WI 53913  
 608-356-2760 Tel. Fx 608-356-2766  
 www.ctlaboratories.com

Mail Report To: Bruce Iverson  
 Company: TRC  
 Address: 708 Heartland Trail  
 City/State/Zip: Madison, WI 53717

Regulatory Program:  
 UST RCRA SDWA NPDES  
 Solid Waste Other \_\_\_\_\_

Folder # 124931  
 Company: TRC ENVIRONMENTAL  
 Project: WAULECO  
 Logged By: RNA PMI RMI

Ice Present  Yes  No

Temperature 54.7  
 Initials BR

Date 1-20-17 Time 1030

Cooler # 5897 5624 5623

Invoice To: Accounts Payable  
 Company: TRC  
 Address:  
 City/State/Zip:  
 PO No. 104230

Contract No.

**Turnaround Time**

Normal RUSH\* Date Needed \_\_\_\_\_

\*Notify Lab prior to sending in RUSH  
 Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%  
 Surcharges subject to change without notice.

**Landfill License Number**

Collection		Field Screen	Field ID	Grab/Comp	Sample ID Description	Fill'd Y/N	WDNR Well ID #	**Matrix:	TPH	TOC	Sulfate	Diss. Mn, Fe	Phenols (8270)	Nitrate	Total No of Containers	Total No of Cont. Rec'd	Preservation*	Client Special Instructions: Metals are filtered.	Lab ID #
Date	Time																		
Fill in Spaces with Bottles per Test																			
1/19/17	0835			G	W22	N		GW	1	1	1	1	2	✓					829421
	0835				W22 Dup														829422
	1025				W33														829423
	1145				W27														829424
	0745				W10 A														829426
	0745				W10 A Dup														829427
									A	C	A	D							

Relinquished By: *J.P. Dushek*

Date/Time: 1/19/17 1530

Relinquished By: *[Signature]*

Date/Time: 1-20-17 1030

Received by:

Date/Time:

Received by: *[Signature]*

Date/Time: 1-20-17 1042

**\*\*Matrix**  
 S-Soil A-Air Slg-Sludge M-Misc Waste  
 GW-Groundwater SW-Surface Water  
 WW-Wastewater DW-Drinking Water

**\* Preservation Code**  
 A=None B=HCL  
 C=H2SO4 D=HNO3  
 E=Encore F=Methanol  
 G=NaOH  
 O=Other \_\_\_\_\_





**ANALYTICAL REPORT**

TRC ENVIRONMENTAL  
 BRUCE IVERSON  
 708 HEARTLAND TRAIL  
 MADISON, WI 53717

Project Name: WAULECO  
 Project Phase:  
 Contract #: 2399  
 Project #: 189597.0005  
 Folder #: 124976  
 Purchase Order #: 104230

Page 1 of 3  
 Arrival Temperature: 3.9  
 Report Date: 02/01/2017  
 Date Received: 01/24/2017  
 Reprint Date: 02/01/2017

CT LAB Sample#: 830370 Sample Description: DFOMW5 Sampled: 01/23/2017 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
Pentachlorophenol	2.1	ug/L	0.19	1.0	1		01/30/2017 08:00	01/31/2017 00:58	JJY	EPA 8270D

CT LAB Sample#: 830371 Sample Description: DFOMW11 Sampled: 01/23/2017 1240

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
Pentachlorophenol	2800	ug/L	19	100	100		01/30/2017 08:00	01/31/2017 01:17	JJY	EPA 8270D

CT LAB Sample#: 830372 Sample Description: DFOMW12 Sampled: 01/23/2017 1330

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
Pentachlorophenol	5000	ug/L	47	260	250		01/30/2017 08:00	01/31/2017 01:36	JJY	EPA 8270D

CT LAB Sample#: 830373 Sample Description: DFOMW12 DUP

Sampled: 01/23/2017 1330

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
Pentachlorophenol	4500	ug/L	46	260	250		01/30/2017 08:00	01/31/2017 01:56	JJY	EPA 8270D

---

Notes: \* Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Brett M. Szymanski  
Project Manager  
608-356-2760

---

**Current CT Laboratories Certifications**

Wisconsin (WDNR) Chemistry ID# 157066030  
Wisconsin (DATCP) Bacteriology ID# 105-289  
Louisiana NELAP (primary) ID# ACC20160002  
Illinois NELAP Lab ID# 200073  
Kansas NELAP Lab ID# E-10368  
Virginia NELAP Lab ID# 460203  
Maryland Lab ID# WI00061  
ISO/IEC 17025-2005 A2LA Cert # 3806.01  
DoD-ELAP A2LA 3806.01  
GA EPD Stipulation ID ACC20160002

---



**ANALYTICAL REPORT**

TRC ENVIRONMENTAL  
 BRUCE IVERSON  
 708 HEARTLAND TRAIL  
 MADISON, WI 53717

Project Name: WAULECO  
 Project Phase:  
 Contract #: 2399  
 Project #: 189597.0005  
 Folder #: 124977  
 Purchase Order #: 104230

Page 1 of 5  
 Arrival Temperature: 3.9  
 Report Date: 02/01/2017  
 Date Received: 01/24/2017  
 Reprint Date: 02/01/2017

CT LAB Sample#: 830374 Sample Description: W73 Sampled: 01/23/2017 0750

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
Pentachlorophenol	<3.0	ug/L	0.19	1.0	1		01/30/2017 08:00	01/31/2017 02:15	JJY	EPA 8270D

CT LAB Sample#: 830375 Sample Description: W74 Sampled: 01/23/2017 0830

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
Pentachlorophenol	<3.0	ug/L	0.18	1.0	1		01/30/2017 08:00	01/31/2017 02:34	JJY	EPA 8270D

CT LAB Sample#: 830376 Sample Description: W71 Sampled: 01/23/2017 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
Pentachlorophenol	<3.0	ug/L	0.18	1.0	1		01/30/2017 08:00	01/31/2017 02:53	JJY	EPA 8270D

CT LAB Sample#: 830377 Sample Description: W72

Sampled: 01/23/2017 1000

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
Pentachlorophenol	<3.0	ug/L	0.19	1.0	1		01/30/2017 08:00	01/31/2017 03:12	JJY	EPA 8270D

CT LAB Sample#: 830381 Sample Description: W13

Sampled: 01/23/2017 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>0.89</b>	mg/L	0.040	0.13	1			01/24/2017 16:24	AGK	EPA 9056A
Total Sulfate	<b>12</b>	mg/L	1.0	3.2	1			01/24/2017 16:24	AGK	EPA 9056A
Total Organic Carbon	<b>3.9</b>	mg/L	0.50	1.7	1			01/30/2017 16:33	MDS	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			01/25/2017 14:55	NAH	EPA 6010C
Dissolved Manganese	<b>14.1</b>	ug/L	2.2	7.3	1			01/25/2017 14:55	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	<34	ug/L	34	110	1		01/24/2017 12:00	01/25/2017 00:43	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<b>0.66</b>	ug/L	0.14 *	1.0	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.52	1.6	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.21	1.0	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.41	1.4	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D

CT LAB Sample#: 830381 Sample Description: W13 Sampled: 01/23/2017 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.18	1.0	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.21	1.0	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
Pentachlorophenol	<b>3.7</b>	ug/L	0.19	1.0	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.25	1.0	1		01/30/2017 08:00	01/31/2017 03:31	JJY	EPA 8270D

CT LAB Sample#: 830392 Sample Description: BLANK 01 Sampled: 01/23/2017 1120

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			01/24/2017 17:24	AGK	EPA 9056A
Total Sulfate	<1.0	mg/L	1.0	3.2	1			01/24/2017 17:24	AGK	EPA 9056A
Total Organic Carbon	<0.50	mg/L	0.50	1.7	1			01/30/2017 17:14	MDS	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			01/25/2017 15:02	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/25/2017 15:02	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	<34	ug/L	34	110	1		01/24/2017 12:00	01/25/2017 01:14	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.15	1.0	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.13	1.0	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis



CT LAB Sample#: 830392 Sample Description: BLANK 01

Sampled: 01/23/2017 1120

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,6-Trichlorophenol	<3.0	ug/L	0.52	1.7	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.14	1.0	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.21	1.0	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.42	1.5	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.13	1.0	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.16	1.0	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.13	1.0	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.18	1.0	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.15	1.0	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.21	1.0	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.19	1.0	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D
Phenol	<3.0	ug/L	0.25	1.0	1		01/30/2017 08:00	01/31/2017 03:51	JJY	EPA 8270D

---

Notes: \* Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

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Submitted by: Brett M. Szymanski  
Project Manager  
608-356-2760

---

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Wisconsin (DATCP) Bacteriology ID# 105-289  
Louisiana NELAP (primary) ID# ACC20160002  
Illinois NELAP Lab ID# 200073  
Kansas NELAP Lab ID# E-10368  
Virginia NELAP Lab ID# 460203  
Maryland Lab ID# WI00061  
ISO/IEC 17025-2005 A2LA Cert # 3806.01  
DoD-ELAP A2LA 3806.01  
GA EPD Stipulation ID ACC20160002

---

Company Name: TRC  
 Project Contact: Bruce Iverson  
 Telephone:  
 Project Name: Wauleco  
 Project Number: 189597.0005  
 Project Location: Wausau, WI  
 Sampled By: Tom Dushek



Mail Report To: Bruce Iverson  
 Company: TRC  
 Address: 708 Heartland Trail  
 City/State/Zip: Madison, WI 53717

1230 Lange Court, Baraboo, WI 53913  
 608-356-2760 Tel. Fx 608-356-2766  
 www.ctlaboratories.com

Folder # 124977  
 Company: TRC ENVIRONMENTAL  
 Project: WAULECO  
 Logged By: DRT PM BM

Ice Present Yes No

Temperature 3.9  
 Initials TS

Date 1/24/17 Time 1015

Cooler # 5898

Invoice To: Accounts Payable  
 Company: TRC  
 Address:  
 City/State/Zip:  
 PO No. 104230

Regulatory Program:  
 UST RCRA SDWA NPDES  
 Solid Waste Other \_\_\_\_\_

Contract No.

Turnaround Time

Normal RUSH\* Date Needed \_\_\_\_\_  
 \*Notify Lab prior to sending in RUSH  
 Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%  
 Surcharges subject to change without notice.

Landfill License Number

Collection		Field Screen	Field ID	Grab/Comp	Sample ID Description	Fill'd Y/N
Date	Time					
1/23/17	0750			G	W73	N
	0830				W74	
	0915				W71	
	1000				W72	

WDNR Well ID #	**Matrix:	(Phenols 8270) PCP only	Fill in Spaces with Bottles per Test										Total No of Containers	Total No of Cont. Rec'd	Preservation*
	GW	2												2	A

Client Special Instructions:

Lab ID #  
 830374  
 830375  
 830376  
 830377

Relinquished By: <i>J. J. Dushek</i>	Date/Time 1/23/17 1530	Relinquished By: <i>TS</i>	Date/Time 1/24/17 1026
Received by:	Date/Time	Received by: <i>TS</i>	Date/Time 1/24/17 1030

**\*\*Matrix**  
 S-Soil A-Air Slg-Sludge M-Misc Waste  
 GW-Groundwater SW-Surface Water  
 WW-Wastewater DW-Drinking Water

**\* Preservation Code**  
 A=None B=HCL  
 C=H2SO4 D=HNO3  
 E=Encore F=Methanol  
 G=NaOH  
 O=Other \_\_\_\_\_



**D2**  
**July 2017**

**ANALYTICAL REPORT**

TRC ENVIRONMENTAL  
 BRUCE IVERSON  
 708 HEARTLAND TRAIL  
 MADISON, WI 53717

Project Name: WAULECO  
 Project Phase: WAUSAU, WI  
 Contract #: 2399  
 Project #: 189597.0005  
 Folder #: 128814  
 Purchase Order #: 104230

Page 1 of 10  
 Arrival Temperature: 5.9  
 Report Date: 07/26/2017  
 Date Received: 07/11/2017  
 Reprint Date: 07/26/2017

CT LAB Sample#: 889858 Sample Description: W71 Sampled: 07/10/2017 0755

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/21/2017 12:29	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 12:29	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 12:29	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 12:29	MDS	EPA 8021M
TPH as Mineral Spirits	<b>35</b>	ug/L	34 *	110	1	B	07/17/2017 08:00	07/19/2017 18:36	AJZ	EPA 8015
Pentachlorophenol	<3.0	ug/L	0.18	1.0	1		07/17/2017 08:00	07/19/2017 19:53	RPN	EPA 8270D

CT LAB Sample#: 889865 Sample Description: W72 Sampled: 07/10/2017 0850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/21/2017 13:07	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 13:07	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 13:07	MDS	EPA 8021M

CT LAB Sample#: 889865 Sample Description: W72 Sampled: 07/10/2017 0850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 13:07	MDS	EPA 8021M
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/17/2017 08:00	07/19/2017 19:09	AJZ	EPA 8015
Pentachlorophenol	<3.0	ug/L	0.19	1.0	1		07/17/2017 08:00	07/19/2017 20:15	RPN	EPA 8270D

CT LAB Sample#: 889866 Sample Description: W74 Sampled: 07/10/2017 0950

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/21/2017 13:44	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 13:44	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 13:44	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 13:44	MDS	EPA 8021M
TPH as Mineral Spirits	<b>36</b>	ug/L	33 *	110	1	B	07/17/2017 08:00	07/19/2017 19:41	AJZ	EPA 8015
Pentachlorophenol	<3.0	ug/L	0.18	1.0	1		07/17/2017 08:00	07/19/2017 20:37	RPN	EPA 8270D

CT LAB Sample#: 889867 Sample Description: W8 Sampled: 07/10/2017 1040

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>3.0</b>	mg/L	0.040	0.13	1			07/11/2017 20:27	DGS	EPA 9056A
Total Sulfate	<b>18</b>	mg/L	1.0	3.2	1			07/11/2017 20:27	DGS	EPA 9056A
Total Organic Carbon	<b>0.90</b>	mg/L	0.50 *	1.7	1			07/13/2017 12:06	DGS	EPA 9060A

CT LAB Sample#: 889867 Sample Description: W8

Sampled: 07/10/2017 1040

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			07/13/2017 18:38	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/13/2017 18:38	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:09	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/21/2017 14:21	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 14:21	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 14:21	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 14:21	MDS	EPA 8021M
TPH as Mineral Spirits	<43	ug/L	43	140	1		07/17/2017 08:00	07/19/2017 20:13	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.51	1.6	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.40	1.4	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis



CT LAB Sample#: 889867 Sample Description: W8 Sampled: 07/10/2017 1040

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Pentachlorophenol	<3.0	ug/L	0.18	1.0	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/17/2017 08:00	07/19/2017 20:58	RPN	EPA 8270D

CT LAB Sample#: 889868 Sample Description: W73 Sampled: 07/10/2017 1125

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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**Inorganic Results**

Total Sulfate	<b>17</b>	mg/L	1.0	3.2	1			07/11/2017 22:19	DGS	EPA 9056A
Total Organic Carbon	<b>10</b>	mg/L	0.50	1.7	1			07/13/2017 12:57	DGS	EPA 9060A

**Metals Results**

Dissolved Iron	<59	ug/L	59	200	1			07/13/2017 18:59	NAH	EPA 6010C
Dissolved Manganese	<b>10.1</b>	ug/L	2.2	7.3	1			07/13/2017 18:59	NAH	EPA 6010C

**Organic Results**

1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/21/2017 14:59	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 14:59	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 14:59	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 14:59	MDS	EPA 8021M
TPH as Mineral Spirits	<b>39</b>	ug/L	33 *	110	1	B	07/17/2017 08:00	07/19/2017 20:45	AJZ	EPA 8015
Pentachlorophenol	<3.0	ug/L	0.18	1.0	1		07/17/2017 08:00	07/19/2017 21:20	RPN	EPA 8270D

CT LAB Sample#: 889869 Sample Description: W16 Sampled: 07/10/2017 1225

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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CT LAB Sample#: 889869 Sample Description: W16

Sampled: 07/10/2017 1225

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	5.4	mg/L	0.040	0.13	1			07/11/2017 22:57	DGS	EPA 9056A
Total Sulfate	21	mg/L	1.0	3.2	1			07/11/2017 22:57	DGS	EPA 9056A
Total Organic Carbon	2.7	mg/L	0.50	1.7	1			07/13/2017 13:10	DGS	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			07/13/2017 19:06	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/13/2017 19:06	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:11	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/21/2017 15:37	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 15:37	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 15:37	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 15:37	MDS	EPA 8021M
TPH as Mineral Spirits	39	ug/L	34 *	110	1	B	07/17/2017 08:00	07/19/2017 21:18	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.51	1.6	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.40	1.4	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 889869 Sample Description: W16 Sampled: 07/10/2017 1225

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.18	1.0	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/17/2017 08:00	07/19/2017 21:42	RPN	EPA 8270D

CT LAB Sample#: 889870 Sample Description: W32 Sampled: 07/10/2017 1325

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			07/12/2017 00:11	DGS	EPA 9056A
<b>Metals Results</b>										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:13	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/21/2017 16:15	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 16:15	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 16:15	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 16:15	MDS	EPA 8021M
TPH as Mineral Spirits	<b>39</b>	ug/L	34 *	110	1	B	07/17/2017 08:00	07/19/2017 21:50	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 889870 Sample Description: W32

Sampled: 07/10/2017 1325

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,6-Trichlorophenol	<3.0	ug/L	0.51	1.6	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.40	1.4	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.18	1.0	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/17/2017 08:00	07/19/2017 22:03	RPN	EPA 8270D

CT LAB Sample#: 889871 Sample Description: W21

Sampled: 07/10/2017 1410

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	1.8	mg/L	0.040	0.13	1			07/12/2017 00:49	DGS	EPA 9056A
<b>Metals Results</b>										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:24	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/21/2017 16:52	MDS	EPA 8021M

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 889871 Sample Description: W21

Sampled: 07/10/2017 1410

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 16:52	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 16:52	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 16:52	MDS	EPA 8021M
TPH as Mineral Spirits	<b>36</b>	ug/L	34 *	110	1	B	07/17/2017 08:00	07/19/2017 22:22	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.52	1.6	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.21	1.0	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.41	1.4	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.18	1.0	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.19	1.0	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.25	1.0	1		07/17/2017 08:00	07/19/2017 22:25	RPN	EPA 8270D

CT LAB Sample#: 889881 Sample Description: TRIP BLANK 01

Sampled: 07/10/2017 1430

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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CT LAB Sample#: 889881 Sample Description: TRIP BLANK 01

Sampled: 07/10/2017 1430

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1		07/21/2017 17:29	07/21/2017 17:29	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1		07/21/2017 17:29	07/21/2017 17:29	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1		07/21/2017 17:29	07/21/2017 17:29	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1		07/21/2017 17:29	07/21/2017 17:29	MDS	EPA 8021M

Notes: \* Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: **Brett M. Szymanski**  
 Project Manager  
 608-356-2760

**QC Qualifiers**

<b>Code</b>	<b>Description</b>
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

**Current CT Laboratories Certifications**

Wisconsin (WDNR) Chemistry ID# 157066030  
 Wisconsin (DATCP) Bacteriology ID# 105-289  
 Louisiana NELAP (primary) ID# ACC20160002  
 Illinois NELAP Lab ID# 200073  
 Kansas NELAP Lab ID# E-10368  
 Virginia NELAP Lab ID# 460203  
 Maryland Lab ID# WI00061  
 ISO/IEC 17025-2005 A2LA Cert # 3806.01  
 DoD-ELAP A2LA 3806.01  
 GA EPD Stipulation ID ACC20160002  
 Pennsylvania NELAP Lab ID# 68-04201, # 008





# Cooler Receipt Form

Ice Present YES NO  
Temperature 4.5  
IR Gun # 14  
Initials 3A  
Date 7-11-17 Time 0940  
Cooler #: 6003

ST LABORATORIES  
1230 LANGE CT

2154800 WI 53813

P: NORTH S: ADAM I: 66C  
**10G - 6950**  
1Z1A87E9D4215 9771  
KUTYXUS HILAK127 JUL 11 07:11:44 2017  
US 5590 HIP 13 \*\*4928000

**CUSTODY SEAL**

DATE 7-11-17 TIME 9:40

*J. D. Smith*

**OPEC**

Quality Environmental Containers  
800-255-3950 • 304-255-3900

# Cooler Receipt Form

Ice Present YES NO  
Temperature 5.9  
IR Gun # 14  
Initials BA  
Date 7-11-17 Time 0940  
Cooler #: 5372

OT LABORATORIES  
1230 LANGE CT  
BAAABOD WI 53813  
P: NORTH S: ADAM  
10G - 6950  
9765  
1:66C  
121A37E9040E9 JUL 11 07:11:40 2017  
KOTAKO and 12 as no 2800000000

**QEC**  
Quality Environmental Containers  
800-255-3950 • 304-255-3900

**CUSTODY SEAL**  
DATE 7-11-17  
SIGNATURE [Signature]

# Cooler Receipt Form

Ice Present YES NO  
Temperature 2.9  
IR Gun # 14  
Initials EA  
Date 7-11-17 Time 0940  
Cooler #: 5677

LABORATORIES  
300 LANGE CT

BARABOO WI 53013

P: NORTH S: ADAM I: 66C

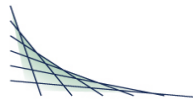
**10G - 6950**

1Z1A377E904282 7567

KVY9KUG WILAK127 JUL 11 07:11:48 2017  
DB 5390 HIP 17.03.03 ZEBRAZH400

**REC**  
Quality Environmental Containers  
800-255-3950 • 304-255-3900

**CUSTODY SEAL**  
DATE 7/11/17  
SIGNATURE [Signature]



### ANALYTICAL REPORT

TRC ENVIRONMENTAL  
 BRUCE IVERSON  
 708 HEARTLAND TRAIL  
 MADISON, WI 53717

Project Name: WAULECO  
 Project Phase: WAUSAU, WI  
 Contract #: 2399  
 Project #: 189597.0005  
 Folder #: 128853  
 Purchase Order #: 104230

Page 1 of 13  
 Arrival Temperature: 2.7  
 Report Date: 07/26/2017  
 Date Received: 07/12/2017  
 Reprint Date: 07/26/2017

CT LAB Sample#: 890601	Sample Description: W9	Sampled: 07/11/2017 0750
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	0.11	mg/L	0.040 *	0.13	1			07/12/2017 16:41	DGS	EPA 9056A
<b>Metals Results</b>										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:26	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/21/2017 20:36	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 20:36	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 20:36	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 20:36	MDS	EPA 8021M
TPH as Mineral Spirits	<38	ug/L	38	130	1		07/17/2017 08:00	07/19/2017 23:58	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.52	1.6	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.21	1.0	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 890601 Sample Description: W9

Sampled: 07/11/2017 0750

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.41	1.4	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.18	1.0	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.19	1.0	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.25	1.0	1		07/17/2017 08:00	07/19/2017 22:46	RPN	EPA 8270D

CT LAB Sample#: 890602 Sample Description: W18

Sampled: 07/11/2017 0840

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	0.15	mg/L	0.040	0.13	1	M		07/12/2017 17:19	DGS	EPA 9056A
Total Sulfate	8.9	mg/L	1.0	3.2	1			07/12/2017 17:19	DGS	EPA 9056A
Total Organic Carbon	1.0	mg/L	0.50 *	1.7	1			07/13/2017 13:22	DGS	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			07/13/2017 19:13	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/13/2017 19:13	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:28	LJF	EPA 7470A

**Organic Results**

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 890602 Sample Description: W18

Sampled: 07/11/2017 0840

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/21/2017 21:14	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 21:14	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 21:14	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 21:14	MDS	EPA 8021M
TPH as Mineral Spirits	<b>34</b>	ug/L	34 *	110	1	B	07/17/2017 08:00	07/20/2017 00:30	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.50	1.6	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.40	1.4	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.18	1.0	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/17/2017 08:00	07/19/2017 23:08	RPN	EPA 8270D

CT LAB Sample#: 890604 Sample Description: W28

Sampled: 07/11/2017 0930

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	0.81	mg/L	0.040	0.13	1			07/12/2017 19:11	DGS	EPA 9056A
Total Sulfate	10	mg/L	1.0	3.2	1			07/12/2017 19:11	DGS	EPA 9056A
Total Organic Carbon	1.5	mg/L	0.50 *	1.7	1			07/13/2017 13:33	DGS	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			07/13/2017 19:20	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/13/2017 19:20	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:30	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/21/2017 21:51	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 21:51	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 21:51	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 21:51	MDS	EPA 8021M
TPH as Mineral Spirits	34	ug/L	33 *	110	1	B	07/17/2017 08:00	07/20/2017 01:02	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.50	1.6	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.40	1.4	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D

CT LAB Sample#: 890604 Sample Description: W28

Sampled: 07/11/2017 0930

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.18	1.0	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/17/2017 08:00	07/19/2017 23:30	RPN	EPA 8270D

CT LAB Sample#: 890605 Sample Description: W12

Sampled: 07/11/2017 1025

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>6.3</b>	mg/L	0.040	0.13	1			07/12/2017 20:26	DGS	EPA 9056A
Total Sulfate	<b>22</b>	mg/L	1.0	3.2	1			07/12/2017 20:26	DGS	EPA 9056A
Total Organic Carbon	<b>1.6</b>	mg/L	0.50 *	1.7	1			07/13/2017 13:45	DGS	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			07/13/2017 19:27	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/13/2017 19:27	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:33	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/21/2017 22:28	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 22:28	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 22:28	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 22:28	MDS	EPA 8021M

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis



CT LAB Sample#: 890605 Sample Description: W12

Sampled: 07/11/2017 1025

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TPH as Mineral Spirits	35	ug/L	33 *	110	1	B	07/17/2017 08:00	07/20/2017 01:34	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.50	1.6	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.40	1.4	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.18	1.0	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/17/2017 08:00	07/19/2017 23:51	RPN	EPA 8270D

CT LAB Sample#: 890606 Sample Description: W25

Sampled: 07/11/2017 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	6.8	mg/L	0.040	0.13	1			07/12/2017 21:03	DGS	EPA 9056A

**Metals Results**

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 890606 Sample Description: W25

Sampled: 07/11/2017 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:35	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/21/2017 23:06	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 23:06	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 23:06	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 23:06	MDS	EPA 8021M
TPH as Mineral Spirits	<b>47</b>	ug/L	33 *	110	1	B	07/17/2017 08:00	07/20/2017 02:06	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.51	1.6	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.41	1.4	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
Pentachlorophenol	<b>3.0</b>	ug/L	0.18	1.0	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/17/2017 08:00	07/20/2017 00:13	RPN	EPA 8270D

CT LAB Sample#: 890607 Sample Description: W36

Sampled: 07/11/2017 1155

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	5.7	mg/L	0.040	0.13	1			07/12/2017 21:41	DGS	EPA 9056A
<b>Metals Results</b>										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:37	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	0.50	ug/L	0.40 *	1.3	1			07/21/2017 23:44	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/21/2017 23:44	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/21/2017 23:44	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/21/2017 23:44	MDS	EPA 8021M
TPH as Mineral Spirits	44	ug/L	33 *	110	1	B	07/17/2017 08:00	07/20/2017 02:38	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	2.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.50	1.6	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.40	1.4	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 890607 Sample Description: W36

Sampled: 07/11/2017 1155

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
Pentachlorophenol	31	ug/L	0.18	1.0	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/17/2017 08:00	07/20/2017 00:34	RPN	EPA 8270D

CT LAB Sample#: 890608 Sample Description: W1A

Sampled: 07/11/2017 1340

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	4.2	mg/L	0.040	0.13	1			07/12/2017 22:18	DGS	EPA 9056A
<b>Metals Results</b>										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:39	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	5.5	ug/L	0.40	1.3	1			07/22/2017 00:21	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2017 00:21	MDS	EPA 8021M
Naphthalene	1.1	ug/L	0.90 *	2.9	1			07/22/2017 00:21	MDS	EPA 8021M
o-Xylene	1.8	ug/L	0.40	1.4	1			07/22/2017 00:21	MDS	EPA 8021M
TPH as Mineral Spirits	360	ug/L	33	110	1	B	07/17/2017 08:00	07/20/2017 08:12	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	2.2	ug/L	0.14	1.0	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.50	1.6	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 890608 Sample Description: W1A

Sampled: 07/11/2017 1340

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,6-Dichlorophenol	<3.0	ug/L	0.40	1.4	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
Pentachlorophenol	<b>27</b>	ug/L	0.18	1.0	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/17/2017 08:00	07/20/2017 00:56	RPN	EPA 8270D

CT LAB Sample#: 890609 Sample Description: BLANK 01

Sampled: 07/11/2017 1425

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			07/12/2017 22:56	DGS	EPA 9056A
Total Sulfate	<1.0	mg/L	1.0	3.2	1			07/12/2017 22:56	DGS	EPA 9056A
Total Organic Carbon	<0.50	mg/L	0.50	1.7	1			07/20/2017 13:12	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			07/13/2017 19:34	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/13/2017 19:34	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:41	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/22/2017 00:59	MDS	EPA 8021M

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 890609 Sample Description: BLANK 01

Sampled: 07/11/2017 1425

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2017 00:59	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2017 00:59	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2017 00:59	MDS	EPA 8021M
TPH as Mineral Spirits	<b>54</b>	ug/L	34 *	110	1	B	07/17/2017 08:00	07/20/2017 08:43	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.50	1.6	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.40	1.4	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.18	1.0	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/17/2017 08:00	07/20/2017 01:17	RPN	EPA 8270D

CT LAB Sample#: 890610 Sample Description: TRIP BLANK 02

Sampled: 07/11/2017 1210

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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CT LAB Sample#: 890610 Sample Description: TRIP BLANK 02

Sampled: 07/11/2017 1210

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1		07/22/2017 01:36	07/22/2017 01:36	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1		07/22/2017 01:36	07/22/2017 01:36	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1		07/22/2017 01:36	07/22/2017 01:36	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1		07/22/2017 01:36	07/22/2017 01:36	MDS	EPA 8021M

Notes: \* Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: **Brett M. Szymanski**  
 Project Manager  
 608-356-2760

**QC Qualifiers**

<b>Code</b>	<b>Description</b>
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

**Current CT Laboratories Certifications**

Wisconsin (WDNR) Chemistry ID# 157066030  
 Wisconsin (DATCP) Bacteriology ID# 105-289  
 Louisiana NELAP (primary) ID# ACC20160002  
 Illinois NELAP Lab ID# 200073  
 Kansas NELAP Lab ID# E-10368  
 Virginia NELAP Lab ID# 460203  
 Maryland Lab ID# WI00061  
 ISO/IEC 17025-2005 A2LA Cert # 3806.01  
 DoD-ELAP A2LA 3806.01  
 GA EPD Stipulation ID ACC20160002  
 Pennsylvania NELAP Lab ID# 68-04201, # 008



Company Name: TRC  
 Project Contact: Bruce Iverson  
 Telephone: 608-826-3644  
 Project Name: Wauleco  
 Project Number: 189597.0005  
 Project Location: Wausau, WI  
 Sampled By: Tom Dushek



Mail Report To: Bruce Iverson  
 Company: TRC  
 Address: 708 Heartland Trail  
 City/State/Zip: Madison, WI 53717

1230 Lange Court, Baraboo, WI 53913  
 608-356-2760 Tel. Fx 608-356-2766  
 www.ctlaboratories.com

Folder #: 128853  
 Company: TRC ENVIRONMENTA  
 Project: WAULECO  
 Logged By: BNA PM: BM

Ice Present Yes No  
 Temperature 22.7  
 Initials BT  
 Date 7-12-17 Time 11:55 AM  
 Cooler # 25

Invoice To: Accounts Payable  
 Company: TRC  
 Address:  
 City/State/Zip:  
 PO No. 104230

Regulatory Program:  
UST RCRA SDWA NPDE  
 Solid Waste Other     

Contract No.

Turnaround Time  
Normal RUSH\* Date Needed       
 \*Notify Lab prior to sending in RUSH  
 Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%  
 Surcharges subject to change without notice.

Landfill License Number

WDNR Well ID #	**Matrix:	Phenols (8270)	TPH	VOC's (8020)	Diss. Hg	Nitrate	Sulfate	TOC	Diss. Fe, Mn	Total No of Containers	Total No of Cont. Rec'd	Preservation*
	GW	2	1	3	1	1				8		
							✓	1	✓	9		
							✓	↓	✓	↓		
							✓	↓	✓	↓		
										8		
										↓		
										↓		
							✓	1	✓	9		
										1		
		A	A	B	D	A	A	C	D			

Client Special Instructions:  
 VOC's - Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene. Metals are filtered.

Lab ID #

Collection		Field Screen	Field ID	Grab/Comp	Sample ID Description	Fill'd Y/N
7/11/17	0750			G	W9	N
	0840				W18	
	0930				W28	
	1025				W12	
	1105				W25	
	1155				W36	
	1340				W1A	
	1425				Blank 01	
↓	1210			↓	Trip Blank 02	↓

Relinquished By: T. J. Dushek Date/Time 7/11/17 1545  
 Received by: [Signature] Date/Time 7-12-17 1105

\*\*Matrix  
 S-Soil A-Air Slg-Sludge M-Misc Waste  
 GW-Groundwater SW-Surface Water  
 WW-Wastewater DW-Drinking Water

\* Preservation Code  
 A=None B=HCL  
 C=H2SO4 D=HNO3  
 E=Encore F=Methanol  
 G=NaOH  
 O=Other

# Cooler Receipt Form

Ice Present YES NO  
Temperature 2.7  
IR Gun # 15  
Initials SA  
Date 7-12-17 Time 1046  
Cooler #: 5539

C. LABORATORIES  
1230 LANGE CT  
BARABOD, WI 53913  
P. NORTH S. ADAM  
10G - 6950  
88872  
171A377E90986  
KUTY AUG 11 11:48 AM '03  
J5 5590  
12 06:37:44 201  
ZEBR2M400

**QEC**  
Quality Environmental Containers  
800-255-3950 • 304-255-3900

**CUSTODY SEAL**

DATE 7-12-17

SIGNATURE [Signature]

# Cooler Receipt Form

Ice Present YES NO  
Temperature 2.4  
IR Gun # 15  
Initials BA  
Date 7-12-17 Time 1046  
Cooler #: 5912

LABORATORIES  
D LANGE CT  
900 WI 53913  
66  
RTH S: ADAM  
- 6950  
009802 3860  
JUL 12 06:37:47 2017  
PR 12 03 778007400

**QUALITY SEAL**  
DATE 7/12/17  
SIGNATURE [Signature]  
**QEC**  
Quality Environmental Containers  
800-255-3950 • 304-255-3900

# Cooler Receipt Form

Ice Present YES NO  
Temperature 2.4  
IR Gun # 15  
Initials BA  
Date 7-12-17 Time 1046  
Cooler #: 5619

CT LABORATORIES  
1230 LANGE CT

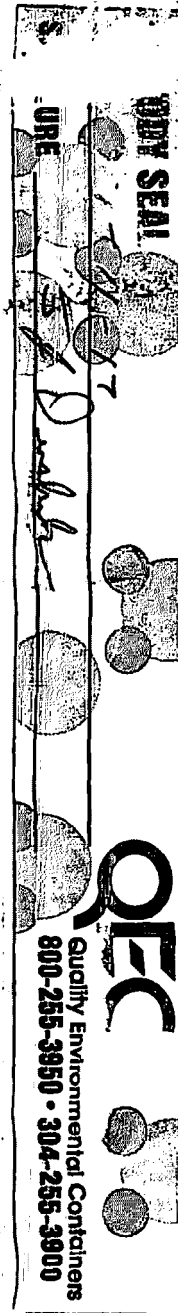
BARABOO WI 53913

P: NORTH S: ADAM I: 66C

**10G - 6950**

121A377E909979 6477

KUT9XUG N1LAK489UDC JUL 12 06:37:13  
US 5390 HIP 17.03.03 7FR9a2Hano



**ANALYTICAL REPORT**

TRC ENVIRONMENTAL  
 BRUCE IVERSON  
 708 HEARTLAND TRAIL  
 MADISON, WI 53717

Project Name: WAULECO  
 Project Phase: WAUSAU, WI  
 Contract #: 2399  
 Project #: 189597.0005  
 Folder #: 128942  
 Purchase Order #: 104230

Page 1 of 6  
 Arrival Temperature: 3.5  
 Report Date: 08/03/2017  
 Date Received: 07/14/2017  
 Reprint Date: 08/03/2017

CT LAB Sample#: 891548	Sample Description: W3B	Sampled: 07/13/2017 1420
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	2.9	mg/L	0.040	0.13	1			07/15/2017 09:09	DGS	EPA 9056A
<b>Metals Results</b>										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:43	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	0.54	ug/L	0.40 *	1.3	1			07/22/2017 12:07	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2017 12:07	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2017 12:07	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2017 12:07	MDS	EPA 8021M
TPH as Mineral Spirits	57	ug/L	34 *	110	1		07/20/2017 06:30	07/27/2017 15:41	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	0.74	ug/L	0.14 *	1.0	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.51	1.6	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 891548 Sample Description: W3B

Sampled: 07/13/2017 1420

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.41	1.4	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
Pentachlorophenol	<b>19</b>	ug/L	0.18	1.0	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/20/2017 06:30	07/27/2017 18:01	RPN	EPA 8270D

CT LAB Sample#: 891552 Sample Description: W02

Sampled: 07/13/2017 1520

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>0.96</b>	mg/L	0.040	0.13	1			07/15/2017 11:02	DGS	EPA 9056A
<b>Metals Results</b>										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:50	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<b>110</b>	ug/L	2.0	6.5	5			07/22/2017 18:19	MDS	EPA 8021M
m & p-Xylene	<4.0	ug/L	4.0	14	5			07/22/2017 18:19	MDS	EPA 8021M
Naphthalene	<b>10</b>	ug/L	4.5 *	15	5			07/22/2017 18:19	MDS	EPA 8021M
o-Xylene	<b>69</b>	ug/L	2.0	7.0	5			07/22/2017 18:19	MDS	EPA 8021M

CT LAB Sample#: 891552 Sample Description: W02

Sampled: 07/13/2017 1520

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TPH as Mineral Spirits	<b>3200</b>	ug/L	33	110	1		07/20/2017 06:30	07/27/2017 16:13	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<b>49</b>	ug/L	7.1 *	51	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
2,4,5-Trichlorophenol	<6.1	ug/L	6.1	51	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
2,4,6-Trichlorophenol	<25	ug/L	25	81	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
2,4-Dichlorophenol	<6.6	ug/L	6.6	51	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
2,4-Dimethylphenol	<10	ug/L	10	51	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
2,4-Dinitrophenol	<15	ug/L	15	51	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
2,6-Dichlorophenol	<20	ug/L	20	71	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
2-Chlorophenol	<6.1	ug/L	6.1	51	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
2-Methylphenol	<7.6	ug/L	7.6	51	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
2-Nitrophenol	<6.1	ug/L	6.1	51	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
3 & 4-Methylphenol	<8.6	ug/L	8.6	51	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<15	ug/L	15	56	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
4-Chloro-3-methylphenol	<7.1	ug/L	7.1	51	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
4-Nitrophenol	<10	ug/L	10	51	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
Pentachlorophenol	<b>830</b>	ug/L	9.1	51	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D
Phenol	<12	ug/L	12	51	50		07/20/2017 06:30	07/27/2017 16:17	RPN	EPA 8270D

CT LAB Sample#: 891553 Sample Description: W02 DUP

Sampled: 07/13/2017 1520

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>2.6</b>	mg/L	0.040	0.13	1			07/15/2017 11:39	DGS	EPA 9056A

**Metals Results**

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 891553 Sample Description: W02 DUP

Sampled: 07/13/2017 1520

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:52	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<b>130</b>	ug/L	2.0	6.5	5			07/22/2017 18:56	MDS	EPA 8021M
m & p-Xylene	<4.0	ug/L	4.0	14	5			07/22/2017 18:56	MDS	EPA 8021M
Naphthalene	<b>12</b>	ug/L	4.5 *	15	5			07/22/2017 18:56	MDS	EPA 8021M
o-Xylene	<b>64</b>	ug/L	2.0	7.0	5			07/22/2017 18:56	MDS	EPA 8021M
TPH as Mineral Spirits	<b>3000</b>	ug/L	33	110	1		07/20/2017 06:30	07/27/2017 16:46	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<b>39</b>	ug/L	7.2 *	52	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
2,4,5-Trichlorophenol	<6.2	ug/L	6.2	52	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
2,4,6-Trichlorophenol	<26	ug/L	26	82	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
2,4-Dichlorophenol	<6.7	ug/L	6.7	52	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
2,4-Dimethylphenol	<10	ug/L	10	52	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
2,4-Dinitrophenol	<15	ug/L	15	52	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
2,6-Dichlorophenol	<21	ug/L	21	72	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
2-Chlorophenol	<6.2	ug/L	6.2	52	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
2-Methylphenol	<7.7	ug/L	7.7	52	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
2-Nitrophenol	<6.2	ug/L	6.2	52	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
3 & 4-Methylphenol	<8.8	ug/L	8.8	52	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<15	ug/L	15	57	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
4-Chloro-3-methylphenol	<7.2	ug/L	7.2	52	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
4-Nitrophenol	<10	ug/L	10	52	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
Pentachlorophenol	<b>690</b>	ug/L	9.3	52	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D
Phenol	<12	ug/L	12	52	50		07/20/2017 06:30	07/27/2017 17:40	RPN	EPA 8270D



CT LAB Sample#: 891554 Sample Description: TRIP BLANK 03

Sampled: 07/13/2017 1435

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1		07/22/2017 22:02	22:02	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1		07/22/2017 22:02	22:02	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1		07/22/2017 22:02	22:02	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1		07/22/2017 22:02	22:02	MDS	EPA 8021M

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Notes: \* Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Brett M. Szymanski  
Project Manager  
608-356-2760

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**Current CT Laboratories Certifications**

Wisconsin (WDNR) Chemistry ID# 157066030  
Wisconsin (DATCP) Bacteriology ID# 105-289  
Louisiana NELAP (primary) ID# ACC20160002  
Illinois NELAP Lab ID# 200073  
Kansas NELAP Lab ID# E-10368  
Virginia NELAP Lab ID# 460203  
Maryland Lab ID# WI00061  
ISO/IEC 17025-2005 A2LA Cert # 3806.01  
DoD-ELAP A2LA 3806.01  
GA EPD Stipulation ID ACC20160002  
Pennsylvania NELAP Lab ID# 68-04201, # 008

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**ANALYTICAL REPORT**

TRC ENVIRONMENTAL  
 BRUCE IVERSON  
 708 HEARTLAND TRAIL  
 MADISON, WI 53717

Project Name: WAULECO  
 Project Phase: WAUSAU, WI  
 Contract #: 2399  
 Project #: 189597.0005  
 Folder #: 129005  
 Purchase Order #: 104230

Page 1 of 13  
 Arrival Temperature: 2.7  
 Report Date: 08/03/2017  
 Date Received: 07/18/2017  
 Reprint Date: 08/03/2017

CT LAB Sample#: 892840 Sample Description: W10B Sampled: 07/17/2017 0810

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	0.62	mg/L	0.040	0.13	1			07/18/2017 16:01	DGS	EPA 9056A
<b>Metals Results</b>										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:54	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/22/2017 14:36	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2017 14:36	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2017 14:36	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2017 14:36	MDS	EPA 8021M
TPH as Mineral Spirits	52	ug/L	33 *	110	1		07/20/2017 06:30	07/27/2017 17:19	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	0.54	ug/L	0.14 *	1.0	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.51	1.6	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 892840 Sample Description: W10B Sampled: 07/17/2017 0810

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.40	1.4	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
Pentachlorophenol	<b>7.5</b>	ug/L	0.18	1.0	1	B	07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/20/2017 06:30	07/27/2017 18:22	RPN	EPA 8270D

CT LAB Sample#: 892842 Sample Description: W19 Sampled: 07/17/2017 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>1.6</b>	mg/L	0.040	0.13	1			07/18/2017 16:38	DGS	EPA 9056A
Total Sulfate	<b>16</b>	mg/L	1.0	3.2	1			07/18/2017 16:38	DGS	EPA 9056A
Total Organic Carbon	<b>4.0</b>	mg/L	0.50	1.7	1			07/20/2017 10:32	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<b>665</b>	ug/L	59	200	1			07/19/2017 16:27	NAH	EPA 6010C
Dissolved Manganese	<b>82.6</b>	ug/L	2.2	7.3	1			07/19/2017 16:27	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:56	LJF	EPA 7470A

**Organic Results**

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 892842 Sample Description: W19

Sampled: 07/17/2017 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,4-Trimethylbenzene	3.1	ug/L	0.40	1.3	1			07/24/2017 11:24	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/24/2017 11:24	MDS	EPA 8021M
Naphthalene	0.98	ug/L	0.90 *	2.9	1			07/24/2017 11:24	MDS	EPA 8021M
o-Xylene	1.8	ug/L	0.40	1.4	1			07/24/2017 11:24	MDS	EPA 8021M
TPH as Mineral Spirits	47	ug/L	33 *	110	1		07/20/2017 06:30	07/27/2017 17:52	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	16	ug/L	1.4	10	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	1.2	10	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
2,4,6-Trichlorophenol	<5.1	ug/L	5.1	16	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	1.3	10	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	2.0	10	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	2.9	10	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
2,6-Dichlorophenol	<4.0	ug/L	4.0	14	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	1.2	10	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	1.5	10	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	1.2	10	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	1.7	10	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	3.0	11	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	1.4	10	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	2.0	10	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
Pentachlorophenol	120	ug/L	1.8	10	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D
Phenol	<3.0	ug/L	2.4	10	10		07/20/2017 06:30	07/27/2017 18:43	RPN	EPA 8270D

CT LAB Sample#: 892843 Sample Description: W11

Sampled: 07/17/2017 0950

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	0.93	mg/L	0.040	0.13	1			07/18/2017 18:30	DGS	EPA 9056A
Total Sulfate	21	mg/L	1.0	3.2	1			07/18/2017 18:30	DGS	EPA 9056A
Total Organic Carbon	2.4	mg/L	0.50	1.7	1			07/20/2017 11:25	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			07/19/2017 16:48	NAH	EPA 6010C
Dissolved Manganese	84.2	ug/L	2.2	7.3	1			07/19/2017 16:48	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2017 08:15	07/21/2017 08:59	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/22/2017 15:13	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2017 15:13	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2017 15:13	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2017 15:13	MDS	EPA 8021M
TPH as Mineral Spirits	48	ug/L	33 *	110	1		07/20/2017 06:30	07/27/2017 18:25	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	2.3	ug/L	1.4 *	10	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	1.2	10	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
2,4,6-Trichlorophenol	<5.1	ug/L	5.1	16	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	1.3	10	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	2.0	10	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	2.9	10	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
2,6-Dichlorophenol	<4.0	ug/L	4.0	14	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	1.2	10	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	1.5	10	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 892843 Sample Description: W11

Sampled: 07/17/2017 0950

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitrophenol	<3.0	ug/L	1.2	10	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	1.7	10	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	3.0	11	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	1.4	10	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	2.0	10	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
Pentachlorophenol	<b>52</b>	ug/L	1.8	10	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D
Phenol	<3.0	ug/L	2.4	10	10		07/20/2017 06:30	07/27/2017 19:04	RPN	EPA 8270D

CT LAB Sample#: 892844 Sample Description: W39

Sampled: 07/17/2017 1040

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			07/18/2017 19:45	DGS	EPA 9056A
<b>Metals Results</b>										
Dissolved Mercury	<b>0.058</b>	ug/L	0.020 *	0.066	1		07/20/2017 08:15	07/21/2017 09:01	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<b>96</b>	ug/L	2.0	6.5	5			07/22/2017 16:27	MDS	EPA 8021M
m & p-Xylene	<4.0	ug/L	4.0	14	5			07/22/2017 16:27	MDS	EPA 8021M
Naphthalene	<b>13</b>	ug/L	4.5 *	15	5			07/22/2017 16:27	MDS	EPA 8021M
o-Xylene	<b>13</b>	ug/L	2.0	7.0	5			07/22/2017 16:27	MDS	EPA 8021M
TPH as Mineral Spirits	<b>980</b>	ug/L	33	110	1		07/20/2017 06:30	07/27/2017 18:57	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<b>40</b>	ug/L	2.8	20	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
2,4,5-Trichlorophenol	<b>3.0</b>	ug/L	2.4 *	20	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis



CT LAB Sample#: 892844 Sample Description: W39

Sampled: 07/17/2017 1040

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,6-Trichlorophenol	<10	ug/L	10	32	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	2.6	20	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
2,4-Dimethylphenol	<4.0	ug/L	4.0	20	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
2,4-Dinitrophenol	<5.9	ug/L	5.9	20	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
2,6-Dichlorophenol	<8.1	ug/L	8.1	28	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	2.4	20	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	3.0	20	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	2.4	20	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
3 & 4-Methylphenol	<3.4	ug/L	3.4	20	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<6.1	ug/L	6.1	22	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	2.8	20	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
4-Nitrophenol	<4.0	ug/L	4.0	20	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
Pentachlorophenol	<b>800</b>	ug/L	3.6	20	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D
Phenol	<4.8	ug/L	4.8	20	20		07/20/2017 06:30	07/27/2017 19:24	RPN	EPA 8270D

CT LAB Sample#: 892845 Sample Description: W17

Sampled: 07/17/2017 1120

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>0.070</b>	mg/L	0.040 *	0.13	1			07/18/2017 20:23	DGS	EPA 9056A
Total Sulfate	<b>3.6</b>	mg/L	1.0	3.2	1			07/18/2017 20:23	DGS	EPA 9056A
Total Organic Carbon	<b>4.7</b>	mg/L	0.50	1.7	1			07/20/2017 11:37	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<b>184</b>	ug/L	59 *	200	1			07/19/2017 16:55	NAH	EPA 6010C

CT LAB Sample#: 892845 Sample Description: W17

Sampled: 07/17/2017 1120

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Manganese	<b>1440</b>	ug/L	2.2	7.3	1			07/19/2017 16:55	NAH	EPA 6010C
Dissolved Mercury	<b>0.050</b>	ug/L	0.020 *	0.066	1		07/20/2017 08:15	07/21/2017 09:03	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<b>29</b>	ug/L	0.40	1.3	1			07/24/2017 12:02	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/24/2017 12:02	MDS	EPA 8021M
Naphthalene	<b>7.1</b>	ug/L	0.90	2.9	1			07/24/2017 12:02	MDS	EPA 8021M
o-Xylene	<b>6.7</b>	ug/L	0.40	1.4	1			07/24/2017 12:02	MDS	EPA 8021M
TPH as Mineral Spirits	<b>710</b>	ug/L	33	110	1		07/20/2017 06:30	07/27/2017 19:30	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<b>3.2</b>	ug/L	1.4 *	10	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	1.2	10	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
2,4,6-Trichlorophenol	<5.1	ug/L	5.1	16	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	1.3	10	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	2.0	10	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	3.0	10	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
2,6-Dichlorophenol	<4.1	ug/L	4.1	14	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	1.2	10	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	1.5	10	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	1.2	10	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	1.7	10	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.1	ug/L	3.1	11	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	1.4	10	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	2.0	10	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
Pentachlorophenol	<b>69</b>	ug/L	1.8	10	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D
Phenol	<3.0	ug/L	2.4	10	10		07/20/2017 06:30	08/02/2017 13:51	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 892846 Sample Description: W3A

Sampled: 07/17/2017 1210

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			07/18/2017 22:15	DGS	EPA 9056A
Total Sulfate	3.1	mg/L	1.0 *	3.2	1			07/18/2017 22:15	DGS	EPA 9056A
Total Organic Carbon	4.6	mg/L	0.50	1.7	1			07/20/2017 11:49	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	2840	ug/L	59	200	1			07/19/2017 17:02	NAH	EPA 6010C
Dissolved Manganese	4920	ug/L	2.2	7.3	1			07/19/2017 17:02	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/28/2017 08:00	07/31/2017 10:40	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	700	ug/L	8.0	26	20			07/22/2017 17:42	MDS	EPA 8021M
m & p-Xylene	18	ug/L	16 *	56	20			07/22/2017 17:42	MDS	EPA 8021M
Naphthalene	53	ug/L	18 *	58	20			07/22/2017 17:42	MDS	EPA 8021M
o-Xylene	100	ug/L	8.0	28	20			07/22/2017 17:42	MDS	EPA 8021M
TPH as Mineral Spirits	3400	ug/L	33	110	1		07/20/2017 06:30	07/27/2017 21:08	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	53	ug/L	3.5	25	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	3.0	25	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
2,4,6-Trichlorophenol	<13	ug/L	13	40	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
2,4-Dichlorophenol	<3.3	ug/L	3.3	25	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
2,4-Dimethylphenol	<5.1	ug/L	5.1	25	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
2,4-Dinitrophenol	<7.3	ug/L	7.3	25	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
2,6-Dichlorophenol	<10	ug/L	10	35	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	3.0	25	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
2-Methylphenol	<3.8	ug/L	3.8	25	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D

CT LAB Sample#: 892846 Sample Description: W3A Sampled: 07/17/2017 1210

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitrophenol	<3.0	ug/L	3.0	25	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
3 & 4-Methylphenol	<4.3	ug/L	4.3	25	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<7.6	ug/L	7.6	28	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.5	ug/L	3.5	25	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
4-Nitrophenol	<5.1	ug/L	5.1	25	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
Pentachlorophenol	<b>680</b>	ug/L	4.5	25	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D
Phenol	<6.1	ug/L	6.1	25	25		07/20/2017 06:30	07/27/2017 20:06	RPN	EPA 8270D

CT LAB Sample#: 892847 Sample Description: W26 Sampled: 07/17/2017 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>1.8</b>	mg/L	0.040	0.13	1			07/18/2017 23:30	DGS	EPA 9056A
Total Sulfate	<b>16</b>	mg/L	1.0	3.2	1			07/18/2017 23:30	DGS	EPA 9056A
Total Organic Carbon	<b>3.2</b>	mg/L	0.50	1.7	1			07/20/2017 12:02	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			07/19/2017 17:09	NAH	EPA 6010C
Dissolved Manganese	<b>270</b>	ug/L	2.2	7.3	1			07/19/2017 17:09	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/28/2017 08:00	07/31/2017 10:42	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/22/2017 23:16	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2017 23:16	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2017 23:16	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2017 23:16	MDS	EPA 8021M

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 892847 Sample Description: W26

Sampled: 07/17/2017 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TPH as Mineral Spirits	51	ug/L	33 *	110	1		07/20/2017 06:30	07/27/2017 21:41	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	2.0	ug/L	0.14	1.0	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.51	1.6	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.40	1.4	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
Pentachlorophenol	19	ug/L	0.18	1.0	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/20/2017 06:30	07/28/2017 21:11	RPN	EPA 8270D

CT LAB Sample#: 892848 Sample Description: W29

Sampled: 07/17/2017 1415

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	0.27	mg/L	0.040	0.13	1			07/19/2017 00:07	DGS	EPA 9056A
Total Sulfate	20	mg/L	1.0	3.2	1			07/19/2017 00:07	DGS	EPA 9056A

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 892848 Sample Description: W29

Sampled: 07/17/2017 1415

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Organic Carbon	4.9	mg/L	0.50	1.7	1			07/20/2017 12:14	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			07/19/2017 17:16	NAH	EPA 6010C
Dissolved Manganese	35.5	ug/L	2.2	7.3	1			07/19/2017 17:16	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/28/2017 08:00	07/31/2017 10:44	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	3.8	ug/L	0.40	1.3	1			07/22/2017 23:52	MDS	EPA 8021M
m & p-Xylene	3.6	ug/L	0.80	2.8	1			07/22/2017 23:52	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2017 23:52	MDS	EPA 8021M
o-Xylene	1.4	ug/L	0.40	1.4	1			07/22/2017 23:52	MDS	EPA 8021M
TPH as Mineral Spirits	350	ug/L	33	110	1		07/20/2017 06:30	07/27/2017 22:13	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	490	ug/L	14	100	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
2,4,5-Trichlorophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
2,4,6-Trichlorophenol	<50	ug/L	50	160	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	100	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
2,4-Dimethylphenol	<20	ug/L	20	100	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
2,4-Dinitrophenol	<29	ug/L	29	100	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
2,6-Dichlorophenol	<40	ug/L	40	140	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
2-Chlorophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
2-Methylphenol	<15	ug/L	15	100	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
2-Nitrophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
3 & 4-Methylphenol	<17	ug/L	17	100	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<30	ug/L	30	110	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
4-Chloro-3-methylphenol	<14	ug/L	14	100	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 892848 Sample Description: W29 Sampled: 07/17/2017 1415

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Nitrophenol	<20	ug/L	20	100	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
Pentachlorophenol	<b>5100</b>	ug/L	18	100	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D
Phenol	<24	ug/L	24	100	100		07/20/2017 06:30	07/27/2017 20:47	RPN	EPA 8270D

CT LAB Sample#: 892849 Sample Description: TRIP BLANK 04 Sampled: 07/17/2017 0910

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/22/2017 22:39	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/22/2017 22:39	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/22/2017 22:39	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/22/2017 22:39	MDS	EPA 8021M

Notes: \* Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Brett M. Szymanski  
 Project Manager  
 608-356-2760

**QC Qualifiers**

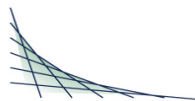
<b>Code</b>	<b>Description</b>
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

**Current CT Laboratories Certifications**

Wisconsin (WDNR) Chemistry ID# 157066030  
 Wisconsin (DATCP) Bacteriology ID# 105-289  
 Louisiana NELAP (primary) ID# ACC20160002  
 Illinois NELAP Lab ID# 200073  
 Kansas NELAP Lab ID# E-10368  
 Virginia NELAP Lab ID# 460203  
 Maryland Lab ID# WI00061  
 ISO/IEC 17025-2005 A2LA Cert # 3806.01  
 DoD-ELAP A2LA 3806.01  
 GA EPD Stipulation ID ACC20160002  
 Pennsylvania NELAP Lab ID# 68-04201, # 008







**ANALYTICAL REPORT**

TRC ENVIRONMENTAL  
 BRUCE IVERSON  
 708 HEARTLAND TRAIL  
 MADISON, WI 53717

Project Name: WAULECO  
 Project Phase: WAUSAU, WI  
 Contract #: 2399  
 Project #: 189597.0005  
 Folder #: 129068  
 Purchase Order #: 104230

Page 1 of 16  
 Arrival Temperature: 1.7  
 Report Date: 08/03/2017  
 Date Received: 07/19/2017  
 Reprint Date: 08/03/2017

CT LAB Sample#: 893753 Sample Description: W22 Sampled: 07/18/2017 0725

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	0.25	mg/L	0.040	0.13	1			07/19/2017 16:10	DGS	EPA 9056A
Total Sulfate	11	mg/L	1.0	3.2	1			07/19/2017 16:10	DGS	EPA 9056A
Total Organic Carbon	9.9	mg/L	0.50	1.7	1			07/31/2017 18:22	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	191	ug/L	59 *	200	1			07/20/2017 19:08	NAH	EPA 6010C
Dissolved Manganese	1370	ug/L	2.2	7.3	1	M		07/20/2017 19:08	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/28/2017 08:00	07/31/2017 10:46	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	270	ug/L	4.0	13	10			07/26/2017 23:29	MDS	EPA 8021M
m & p-Xylene	12	ug/L	8.0 *	28	10			07/26/2017 23:29	MDS	EPA 8021M
Naphthalene	47	ug/L	9.0	29	10			07/26/2017 23:29	MDS	EPA 8021M
o-Xylene	58	ug/L	4.0	14	10			07/26/2017 23:29	MDS	EPA 8021M
TPH as Mineral Spirits	1400	ug/L	34	110	1		07/20/2017 06:30	07/27/2017 22:46	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	390	ug/L	14	100	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 893753 Sample Description: W22

Sampled: 07/18/2017 0725

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,5-Trichlorophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
2,4,6-Trichlorophenol	<51	ug/L	51	160	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	100	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
2,4-Dimethylphenol	<20	ug/L	20	100	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
2,4-Dinitrophenol	<29	ug/L	29	100	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
2,6-Dichlorophenol	<40	ug/L	40	140	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
2-Chlorophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
2-Methylphenol	<15	ug/L	15	100	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
2-Nitrophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
3 & 4-Methylphenol	<17	ug/L	17	100	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<30	ug/L	30	110	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
4-Chloro-3-methylphenol	<14	ug/L	14	100	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
4-Nitrophenol	<20	ug/L	20	100	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
Pentachlorophenol	<b>4200</b>	ug/L	18	100	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D
Phenol	<24	ug/L	24	100	100		07/20/2017 06:30	07/27/2017 21:08	RPN	EPA 8270D

CT LAB Sample#: 893754 Sample Description: W33

Sampled: 07/18/2017 0810

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>0.44</b>	mg/L	0.040	0.13	1			07/19/2017 18:02	DGS	EPA 9056A
Total Sulfate	<b>12</b>	mg/L	1.0	3.2	1			07/19/2017 18:02	DGS	EPA 9056A
Total Organic Carbon	<b>9.3</b>	mg/L	0.50	1.7	1			07/31/2017 19:17	AGK	EPA 9060A

**Metals Results**

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 893754 Sample Description: W33

Sampled: 07/18/2017 0810

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Iron	<b>693</b>	ug/L	59	200	1			07/20/2017 19:29	NAH	EPA 6010C
Dissolved Manganese	<b>1850</b>	ug/L	2.2	7.3	1			07/20/2017 19:29	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/28/2017 08:00	07/31/2017 10:49	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<b>270</b>	ug/L	4.0	13	10			07/27/2017 11:31	MDS	EPA 8021M
m & p-Xylene	<8.0	ug/L	8.0	28	10			07/27/2017 11:31	MDS	EPA 8021M
Naphthalene	<b>15</b>	ug/L	9.0 *	29	10			07/27/2017 11:31	MDS	EPA 8021M
o-Xylene	<b>25</b>	ug/L	4.0	14	10			07/27/2017 11:31	MDS	EPA 8021M
TPH as Mineral Spirits	<b>3500</b>	ug/L	33	110	1		07/20/2017 06:30	07/27/2017 23:18	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<b>1200</b>	ug/L	38	270	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
2,4,5-Trichlorophenol	<32	ug/L	32	270	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
2,4,6-Trichlorophenol	<130	ug/L	130	430	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
2,4-Dichlorophenol	<35	ug/L	35	270	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
2,4-Dimethylphenol	<54	ug/L	54	270	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
2,4-Dinitrophenol	<78	ug/L	78	270	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
2,6-Dichlorophenol	<110	ug/L	110	380	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
2-Chlorophenol	<32	ug/L	32	270	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
2-Methylphenol	<40	ug/L	40	270	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
2-Nitrophenol	<32	ug/L	32	270	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
3 & 4-Methylphenol	<46	ug/L	46	270	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<81	ug/L	81	300	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
4-Chloro-3-methylphenol	<38	ug/L	38	270	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
4-Nitrophenol	<54	ug/L	54	270	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D
Pentachlorophenol	<b>7400</b>	ug/L	48	270	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 893754 Sample Description: W33 Sampled: 07/18/2017 0810

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Phenol	<65	ug/L	65	270	250		07/20/2017 06:30	08/02/2017 14:12	RPN	EPA 8270D

CT LAB Sample#: 893755 Sample Description: W10A Sampled: 07/18/2017 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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**Inorganic Results**

Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			07/19/2017 18:39	DGS	EPA 9056A
Total Sulfate	<b>9.6</b>	mg/L	1.0	3.2	1			07/19/2017 18:39	DGS	EPA 9056A
Total Organic Carbon	<b>9.4</b>	mg/L	0.50	1.7	1			07/31/2017 19:29	AGK	EPA 9060A

**Metals Results**

Dissolved Iron	<b>1030</b>	ug/L	59	200	1			07/20/2017 19:36	NAH	EPA 6010C
Dissolved Manganese	<b>3050</b>	ug/L	2.2	7.3	1			07/20/2017 19:36	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/28/2017 08:00	07/31/2017 10:51	LJF	EPA 7470A

**Organic Results**

1,2,4-Trimethylbenzene	<b>490</b>	ug/L	4.0	13	10			07/27/2017 00:06	MDS	EPA 8021M
m & p-Xylene	<b>18</b>	ug/L	8.0 *	28	10			07/27/2017 00:06	MDS	EPA 8021M
Naphthalene	<b>28</b>	ug/L	9.0 *	29	10			07/27/2017 00:06	MDS	EPA 8021M
o-Xylene	<b>84</b>	ug/L	4.0	14	10			07/27/2017 00:06	MDS	EPA 8021M
TPH as Mineral Spirits	<b>1700</b>	ug/L	33	110	1		07/20/2017 06:30	07/27/2017 23:51	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<b>57</b>	ug/L	14 *	100	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
2,4,5-Trichlorophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
2,4,6-Trichlorophenol	<52	ug/L	52	160	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	100	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D

CT LAB Sample#: 893755 Sample Description: W10A Sampled: 07/18/2017 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dimethylphenol	<21	ug/L	21	100	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
2,4-Dinitrophenol	<30	ug/L	30	100	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
2,6-Dichlorophenol	<41	ug/L	41	140	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
2-Chlorophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
2-Methylphenol	<15	ug/L	15	100	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
2-Nitrophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
3 & 4-Methylphenol	<18	ug/L	18	100	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<31	ug/L	31	110	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
4-Chloro-3-methylphenol	<14	ug/L	14	100	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
4-Nitrophenol	<21	ug/L	21	100	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
Pentachlorophenol	<b>1200</b>	ug/L	19	100	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D
Phenol	<25	ug/L	25	100	100		07/20/2017 06:30	07/27/2017 21:49	RPN	EPA 8270D

CT LAB Sample#: 893756 Sample Description: W10A DUP Sampled: 07/18/2017 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>0.056</b>	mg/L	0.040 *	0.13	1			07/19/2017 19:54	DGS	EPA 9056A
Total Sulfate	<b>10</b>	mg/L	1.0	3.2	1			07/19/2017 19:54	DGS	EPA 9056A
Total Organic Carbon	<b>8.7</b>	mg/L	0.50	1.7	1			07/31/2017 19:42	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<b>1040</b>	ug/L	59	200	1			07/20/2017 20:02	NAH	EPA 6010C
Dissolved Manganese	<b>3080</b>	ug/L	2.2	7.3	1			07/20/2017 20:02	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/28/2017 08:00	07/31/2017 10:57	LJF	EPA 7470A

CT LAB Sample#: 893756 Sample Description: W10A DUP

Sampled: 07/18/2017 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	590	ug/L	8.0	26	20			07/27/2017 12:08	MDS	EPA 8021M
m & p-Xylene	19	ug/L	16 *	56	20			07/27/2017 12:08	MDS	EPA 8021M
Naphthalene	33	ug/L	18 *	58	20			07/27/2017 12:08	MDS	EPA 8021M
o-Xylene	100	ug/L	8.0	28	20			07/27/2017 12:08	MDS	EPA 8021M
TPH as Mineral Spirits	1800	ug/L	33	110	1		07/20/2017 06:30	07/28/2017 00:23	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	52	ug/L	14 *	100	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
2,4,5-Trichlorophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
2,4,6-Trichlorophenol	<52	ug/L	52	160	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	100	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
2,4-Dimethylphenol	<21	ug/L	21	100	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
2,4-Dinitrophenol	<30	ug/L	30	100	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
2,6-Dichlorophenol	<41	ug/L	41	140	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
2-Chlorophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
2-Methylphenol	<15	ug/L	15	100	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
2-Nitrophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
3 & 4-Methylphenol	<18	ug/L	18	100	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<31	ug/L	31	110	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
4-Chloro-3-methylphenol	<14	ug/L	14	100	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
4-Nitrophenol	38	ug/L	21 *	100	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
Pentachlorophenol	1100	ug/L	19	100	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D
Phenol	<25	ug/L	25	100	100		07/20/2017 06:30	07/27/2017 22:10	RPN	EPA 8270D

CT LAB Sample#: 893757 Sample Description: W6R

Sampled: 07/18/2017 1000

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	4.9	mg/L	0.040	0.13	1			07/19/2017 20:32	DGS	EPA 9056A
Total Sulfate	83	mg/L	5.0	16	5			07/19/2017 20:51	DGS	EPA 9056A
Total Organic Carbon	8.7	mg/L	0.50	1.7	1			07/31/2017 19:58	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			07/20/2017 20:10	NAH	EPA 6010C
Dissolved Manganese	12.0	ug/L	2.2	7.3	1			07/20/2017 20:10	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/28/2017 08:00	07/31/2017 11:00	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	1.1	ug/L	0.40 *	1.3	1			07/26/2017 18:30	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/26/2017 18:30	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/26/2017 18:30	MDS	EPA 8021M
o-Xylene	1.5	ug/L	0.40	1.4	1			07/26/2017 18:30	MDS	EPA 8021M
TPH as Mineral Spirits	50	ug/L	33 *	110	1		07/20/2017 06:30	07/28/2017 00:56	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	12	ug/L	0.71	5.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.61	5.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	2.5	8.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.66	5.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	1.0	5.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	1.5	5.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	2.0	7.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.61	5.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.76	5.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D



CT LAB Sample#: 893757 Sample Description: W6R Sampled: 07/18/2017 1000

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitrophenol	<3.0	ug/L	0.61	5.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.86	5.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	1.5	5.6	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.71	5.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	1.0	5.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
Pentachlorophenol	<b>170</b>	ug/L	0.91	5.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D
Phenol	<3.0	ug/L	1.2	5.1	5		07/20/2017 06:30	07/31/2017 12:43	RPN	EPA 8270D

CT LAB Sample#: 893758 Sample Description: W27 Sampled: 07/18/2017 1055

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			07/19/2017 21:09	DGS	EPA 9056A
Total Sulfate	<b>69</b>	mg/L	1.0	3.2	1			07/19/2017 21:09	DGS	EPA 9056A
Total Organic Carbon	<b>52</b>	mg/L	0.50	1.7	1			07/31/2017 20:11	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<b>4610</b>	ug/L	59	200	1			07/20/2017 20:17	NAH	EPA 6010C
Dissolved Manganese	<b>15900</b>	ug/L	2.2	7.3	1			07/20/2017 20:17	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/28/2017 08:00	07/31/2017 11:06	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<b>600</b>	ug/L	8.0	26	20			07/27/2017 01:59	MDS	EPA 8021M
m & p-Xylene	<b>33</b>	ug/L	16 *	56	20			07/27/2017 01:59	MDS	EPA 8021M
Naphthalene	<b>81</b>	ug/L	18	58	20			07/27/2017 01:59	MDS	EPA 8021M
o-Xylene	<b>79</b>	ug/L	8.0	28	20			07/27/2017 01:59	MDS	EPA 8021M

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 893758 Sample Description: W27

Sampled: 07/18/2017 1055

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TPH as Mineral Spirits	<b>6300</b>	ug/L	34	110	1		07/20/2017 06:30	07/28/2017 01:28	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<b>250</b>	ug/L	14	100	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
2,4,5-Trichlorophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
2,4,6-Trichlorophenol	<52	ug/L	52	160	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	100	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
2,4-Dimethylphenol	<21	ug/L	21	100	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
2,4-Dinitrophenol	<30	ug/L	30	100	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
2,6-Dichlorophenol	<41	ug/L	41	140	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
2-Chlorophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
2-Methylphenol	<15	ug/L	15	100	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
2-Nitrophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
3 & 4-Methylphenol	<18	ug/L	18	100	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<31	ug/L	31	110	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
4-Chloro-3-methylphenol	<14	ug/L	14	100	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
4-Nitrophenol	<21	ug/L	21	100	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
Pentachlorophenol	<b>3700</b>	ug/L	19	100	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D
Phenol	<25	ug/L	25	100	100		07/20/2017 06:30	07/27/2017 22:51	RPN	EPA 8270D

CT LAB Sample#: 893759 Sample Description: W27 DUP

Sampled: 07/18/2017 1055

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			07/19/2017 21:47	DGS	EPA 9056A
Total Sulfate	<b>86</b>	mg/L	5.0	16	5			07/19/2017 22:05	DGS	EPA 9056A

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 893759 Sample Description: W27 DUP

Sampled: 07/18/2017 1055

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Organic Carbon	47	mg/L	0.50	1.7	1			07/31/2017 20:51	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	4860	ug/L	59	200	1			07/20/2017 20:24	NAH	EPA 6010C
Dissolved Manganese	16500	ug/L	2.2	7.3	1			07/20/2017 20:24	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/28/2017 08:00	07/31/2017 11:08	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	610	ug/L	8.0	26	20			07/27/2017 02:36	MDS	EPA 8021M
m & p-Xylene	33	ug/L	16 *	56	20			07/27/2017 02:36	MDS	EPA 8021M
Naphthalene	84	ug/L	18	58	20			07/27/2017 02:36	MDS	EPA 8021M
o-Xylene	80	ug/L	8.0	28	20			07/27/2017 02:36	MDS	EPA 8021M
TPH as Mineral Spirits	7200	ug/L	33	110	1		07/20/2017 06:30	07/28/2017 03:05	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	290	ug/L	14	100	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
2,4,5-Trichlorophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
2,4,6-Trichlorophenol	<51	ug/L	51	160	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	100	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
2,4-Dimethylphenol	<20	ug/L	20	100	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
2,4-Dinitrophenol	<30	ug/L	30	100	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
2,6-Dichlorophenol	<41	ug/L	41	140	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
2-Chlorophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
2-Methylphenol	<15	ug/L	15	100	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
2-Nitrophenol	<12	ug/L	12	100	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
3 & 4-Methylphenol	<17	ug/L	17	100	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<31	ug/L	31	110	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
4-Chloro-3-methylphenol	<14	ug/L	14	100	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 893759 Sample Description: W27 DUP

Sampled: 07/18/2017 1055

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Nitrophenol	<20	ug/L	20	100	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
Pentachlorophenol	<b>3800</b>	ug/L	18	100	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D
Phenol	<24	ug/L	24	100	100		07/20/2017 06:30	07/27/2017 23:12	RPN	EPA 8270D

CT LAB Sample#: 893760 Sample Description: W41

Sampled: 07/18/2017 1155

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<b>0.14</b>	mg/L	0.040	0.13	1			07/19/2017 23:02	DGS	EPA 9056A
Total Sulfate	<b>22</b>	mg/L	1.0	3.2	1			07/19/2017 23:02	DGS	EPA 9056A
Total Organic Carbon	<b>20</b>	mg/L	0.50	1.7	1			07/31/2017 21:05	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<b>1380</b>	ug/L	59	200	1			07/20/2017 20:31	NAH	EPA 6010C
Dissolved Manganese	<b>14300</b>	ug/L	2.2	7.3	1			07/20/2017 20:31	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/28/2017 08:00	07/31/2017 11:10	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<b>160</b>	ug/L	4.0	13	10			07/27/2017 01:21	MDS	EPA 8021M
m & p-Xylene	<8.0	ug/L	8.0	28	10			07/27/2017 01:21	MDS	EPA 8021M
Naphthalene	<b>26</b>	ug/L	9.0 *	29	10			07/27/2017 01:21	MDS	EPA 8021M
o-Xylene	<b>56</b>	ug/L	4.0	14	10			07/27/2017 01:21	MDS	EPA 8021M
TPH as Mineral Spirits	<b>1400</b>	ug/L	34	110	1		07/20/2017 06:30	07/28/2017 03:38	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<b>110</b>	ug/L	29 *	200	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
2,4,5-Trichlorophenol	<24	ug/L	24	200	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D

CT LAB Sample#: 893760 Sample Description: W41 Sampled: 07/18/2017 1155

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,6-Trichlorophenol	<100	ug/L	100	330	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
2,4-Dichlorophenol	<27	ug/L	27	200	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
2,4-Dimethylphenol	<41	ug/L	41	200	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
2,4-Dinitrophenol	<59	ug/L	59	200	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
2,6-Dichlorophenol	<82	ug/L	82	290	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
2-Chlorophenol	<24	ug/L	24	200	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
2-Methylphenol	<31	ug/L	31	200	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
2-Nitrophenol	<24	ug/L	24	200	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
3 & 4-Methylphenol	<35	ug/L	35	200	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<61	ug/L	61	220	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
4-Chloro-3-methylphenol	<29	ug/L	29	200	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
4-Nitrophenol	<41	ug/L	41	200	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
Pentachlorophenol	<b>4100</b>	ug/L	37	200	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D
Phenol	<49	ug/L	49	200	200		07/20/2017 06:30	07/27/2017 23:33	RPN	EPA 8270D

CT LAB Sample#: 893761 Sample Description: TRIP BLANK 05 Sampled: 07/18/2017 0740

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/26/2017 17:15	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/26/2017 17:15	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/26/2017 17:15	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/26/2017 17:15	MDS	EPA 8021M

CT LAB Sample#: 893762 Sample Description: PW17 Sampled: 07/18/2017 1230

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Total Sulfate	12	mg/L	1.0	3.2	1			07/19/2017 23:39	DGS	EPA 9056A
Total Organic Carbon	7.4	mg/L	0.50	1.7	1			07/31/2017 21:19	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	3960	ug/L	59	200	1			07/20/2017 20:38	NAH	EPA 6010C
Dissolved Manganese	3790	ug/L	2.2	7.3	1			07/20/2017 20:38	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	2100	ug/L	34	110	1		07/25/2017 07:30	07/28/2017 07:25	AJZ	EPA 8015

CT LAB Sample#: 893763 Sample Description: FP2 Sampled: 07/18/2017 1245

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Total Sulfate	3.3	mg/L	1.0	3.2	1			07/20/2017 00:16	DGS	EPA 9056A
Total Organic Carbon	9.4	mg/L	0.50	1.7	1			07/31/2017 21:32	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	16400	ug/L	59	200	1			07/20/2017 20:45	NAH	EPA 6010C
Dissolved Manganese	9430	ug/L	2.2	7.3	1			07/20/2017 20:45	NAH	EPA 6010C
<b>Organic Results</b>										
TPH as Mineral Spirits	3900	ug/L	34	110	1		07/25/2017 07:30	07/31/2017 10:09	AJZ	EPA 8015

CT LAB Sample#: 893764 Sample Description: W40

Sampled: 07/18/2017 1355

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			07/20/2017 00:54	DGS	EPA 9056A
Total Sulfate	<b>10</b>	mg/L	1.0	3.2	1			07/20/2017 00:54	DGS	EPA 9056A
Total Organic Carbon	<b>43</b>	mg/L	0.50	1.7	1			07/31/2017 21:45	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<b>3360</b>	ug/L	59	200	1			07/20/2017 20:53	NAH	EPA 6010C
Dissolved Manganese	<b>8080</b>	ug/L	2.2	7.3	1			07/20/2017 20:53	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/28/2017 08:00	07/31/2017 11:13	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<b>2200</b>	ug/L	40	130	100			07/27/2017 12:46	MDS	EPA 8021M
m & p-Xylene	<b>89</b>	ug/L	80 *	280	100			07/27/2017 12:46	MDS	EPA 8021M
Naphthalene	<b>300</b>	ug/L	90	290	100			07/27/2017 12:46	MDS	EPA 8021M
o-Xylene	<b>440</b>	ug/L	40	140	100			07/27/2017 12:46	MDS	EPA 8021M
TPH as Mineral Spirits	<b>250000</b>	ug/L	3400	11000	100		07/25/2017 07:30	07/31/2017 10:44	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<b>1700</b>	ug/L	70	500	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
2,4,5-Trichlorophenol	<60	ug/L	60	500	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
2,4,6-Trichlorophenol	<250	ug/L	250	800	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
2,4-Dichlorophenol	<65	ug/L	65	500	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
2,4-Dimethylphenol	<100	ug/L	100	500	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
2,4-Dinitrophenol	<150	ug/L	150	500	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
2,6-Dichlorophenol	<200	ug/L	200	700	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
2-Chlorophenol	<60	ug/L	60	500	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
2-Methylphenol	<75	ug/L	75	500	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LAB Sample#: 893764 Sample Description: W40

Sampled: 07/18/2017 1355

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitrophenol	<60	ug/L	60	500	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
3 & 4-Methylphenol	<85	ug/L	85	500	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<150	ug/L	150	550	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
4-Chloro-3-methylphenol	<70	ug/L	70	500	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
4-Nitrophenol	<100	ug/L	100	500	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
Pentachlorophenol	<b>19000</b>	ug/L	90	500	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D
Phenol	<120	ug/L	120	500	100		07/24/2017 07:00	07/31/2017 13:04	RPN	EPA 8270D



Notes: \* Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: **Brett M. Szymanski**  
 Project Manager  
 608-356-2760

**QC Qualifiers**

<b>Code</b>	<b>Description</b>
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

**Current CT Laboratories Certifications**

Wisconsin (WDNR) Chemistry ID# 157066030  
 Wisconsin (DATCP) Bacteriology ID# 105-289  
 Louisiana NELAP (primary) ID# ACC20160002  
 Illinois NELAP Lab ID# 200073  
 Kansas NELAP Lab ID# E-10368  
 Virginia NELAP Lab ID# 460203  
 Maryland Lab ID# WI00061  
 ISO/IEC 17025-2005 A2LA Cert # 3806.01  
 DoD-ELAP A2LA 3806.01  
 GA EPD Stipulation ID ACC20160002  
 Pennsylvania NELAP Lab ID# 68-04201, # 008



Company Name: TRC  
 Project Contact: Bruce Iverson  
 Telephone: 608-826-3644  
 Project Name: Wauleco  
 Project Number: 189597.0005  
 Project Location: Wausau, WI  
 Sampled By: Tom Dushek



Mail Report To: Bruce Iverson  
 Company: TRC  
 Address: 708 Heartland Trail  
 City/State/Zip: Madison, WI 53717

1230 Lange Court, Baraboo, WI 53913  
 608-356-2760 Tel. Fx 608-356-2766  
 www.ctlaboratories.com

Place Header Sticker Here:  
 Lab Use Only

129068

Ice Present Yes No

Temperature \_\_\_\_\_

Initials \_\_\_\_\_

Date \_\_\_\_\_ Time \_\_\_\_\_

Cooler # \_\_\_\_\_

Invoice To: Accounts Payable  
 Company: TRC  
 Address:  
 City/State/Zip:  
 PO No. 104230

Contract No.

Regulatory Program:  
 UST RCRA SDWA NPDES  
 Solid Waste Other \_\_\_\_\_

Turnaround Time  
Normal RUSH\* Date Needed \_\_\_\_\_  
 \*Notify Lab prior to sending in RUSH  
 Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%  
 Surcharges subject to change without notice.

Landfill License Number \_\_\_\_\_

Collection		Field Screen	Field ID	Grab/Comp	Sample ID Description	Filled Y/N
Date	Time					

Date	Time	Field Screen	Field ID	Grab/Comp	Sample ID Description	Filled Y/N
7/18/17	1230			G	PW17	N
	1245				FP 2	
	1355				W40	

WDNR Well ID #	**Matrix:	Phenols (8270)	TPH	VOC's (8020)	Diss. Hg	Nitrate	Sulfate	TOC	Diss. Fe, Mn	Total No of Containers	Total No of Cont. Rec'd	Preservation*
	GW		1				1	1	1	4		
		2		3	✓	✓				9		
			A	A	B	D	A	A	C	D		

Client Special Instructions:  
 VOC's - Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene. Metals are filtered.

Lab ID #

893762  
 893763  
 893764

Relinquished By: <i>S.J. Dushek</i>	Date/Time 7/18/17 1545	Relinquished By:	Date/Time
Received by:	Date/Time	Received by: <i>Bundy</i>	Date/Time 1322 7-19-17

**\*\*Matrix**  
 S-Soil A-Air Slg-Sludge M-Misc Waste  
 GW-Groundwater SW-Surface Water  
 WW-Wastewater DW-Drinking Water

**\* Preservation Code**  
 A=None B=HCL  
 C=H2SO4 D=HNO3  
 E=Encore F=Methanol  
 G=NaOH  
 O=Other \_\_\_\_\_

### UPS Electronic Return Label: View/Print Label

1. Ensure that there are no other tracking labels attached to your shipment.
2. Fold the printed label at the dotted line. Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label. Take care not to cover any seams or closures.
3. GETTING YOUR SHIPMENT TO UPS

- Daily Pick up customers may add return package(s) to their outbound shipments by having them ready for the driver as usual.
- Take this parcel to any location of The UPS Store®, UPS Access Point™, UPS Drop Box, UPS Customer Centre, UPS Alliance partners (Office Depot® or Staples®) or an Authorized Shipping

CUSTODY SEAL

DATE 7/18/17

SIGNATURE *[Signature]*


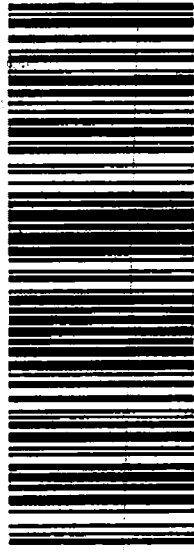
**QEC**

Quality Environmental Containers

800-255-3950 • 304-255-3900

THE UPS STORE  
4404 RIB MOUNTAIN DR  
WAUSAU WI 54401-6606

FOLD HERE

<p>1 OF 1</p> <p>50 LBS</p> <p><b>RS</b></p> <p>TOM DUSHEK TRC ENVIRONMENTAL 125 ROSCOPANS STREET WAUSAU WI 54401</p> <p>SHIP TO: SHIPPING DEPT 6083562760 CT LABS 1230 LANGE CT BARABOO WI 53913</p>	<p><b>WI 539 0-10</b></p> 	<p><b>UPS GROUND</b></p> <p>TRACKING #: 1Z 1A3 77E 90 4173 2714</p> 	<p>BILLING: P/P DESC: Environmental Samples RETURN SERVICE</p> <p>Ice Present <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Temperature <u>11.3</u></p> <p>Initials <u>JA6</u></p> <p>Date <u>7/19/17</u> Time <u>12:56</u></p> <p>Cooler # <u>5564</u></p>
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# Cooler Receipt Form

Ice Present YES NO

Temperature 1.1

IR Gun # 14

Initials BA

Date 7-14-17 Time 1256

Cooler #: 5255

CT LABORATORIES  
1230 LANGE CT  
BARABOO WI 53013  
P: NORTH S: ERIC I: 66C  
**10G - 6950**  
1Z1A377E904278 9531  
MILWAUKEE, WI JUL 19 07:20:58 2017

**QEC**  
Quality Environmental Containers  
800-255-3950 • 304-255-3900

**CUSTODY SEAL**  
DATE 7/14/17  
SIGNATURE [Signature]

# Cooler Receipt Form

Ice Present YES NO  
Temperature 1.7  
IR Gun # 14  
Initials BA  
Date 7.19.17 Time 1256  
Cooler #: S651

LABORATORIES  
1230 LANGE CT  
BARABOO WI 53913

P: NORTH S: ERIC I: 660

**10G - 6950**

1Z1A377E904276 0925

VERIFOR KESQ MID. 13 03. 03 7FBD07M40A  
MILR489UDC JUL 19 07:21:05 2017

**QUALITY SEAL**

DATE 7/19/17

SIGNATURE [Signature]

**QEC**

Quality Environmental Containers  
800-255-3950 • 304-255-3900

# Cooler Receipt Form

Ice Present YES NO

Temperature 1.3

IR Gun # 14

Initials BA

Date 7-19-17 Time 1256

Cooler #: 5620

**MASTODY SEAL**  
DATE: 7/19/2017  
SIGNATURE: [Signature]

**QPEC**  
Quality Environmental Containers  
800-265-3959 • 304-265-9900

JU 1:66C  
4542  
QC JUL 19 07:20:48 2017  
10 288055444

**ANALYTICAL REPORT**

TRC ENVIRONMENTAL  
 BRUCE IVERSON  
 708 HEARTLAND TRAIL  
 MADISON, WI 53717

Project Name: WAULECO  
 Project Phase: WAUSAU, WI  
 Contract #: 2399  
 Project #: 189597.0005  
 Folder #: 129145  
 Purchase Order #: 104230

Page 1 of 3  
 Arrival Temperature: 4.3  
 Report Date: 08/03/2017  
 Date Received: 07/21/2017  
 Reprint Date: 08/03/2017

CT LAB Sample#: 894641 Sample Description: W13 Sampled: 07/20/2017 0815

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Inorganic Results</b>										
Nitrate Nitrogen Total	0.66	mg/L	0.040	0.13	1	Y		07/21/2017 13:03	DGS	EPA 9056A
Total Sulfate	19	mg/L	1.0	3.2	1			07/21/2017 13:03	DGS	EPA 9056A
Total Organic Carbon	3.2	mg/L	0.50	1.7	1			07/31/2017 21:59	AGK	EPA 9060A
<b>Metals Results</b>										
Dissolved Iron	<59	ug/L	59	200	1			07/24/2017 19:46	NAH	EPA 6010C
Dissolved Manganese	84.7	ug/L	2.2	7.3	1			07/24/2017 19:46	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/28/2017 08:00	07/31/2017 11:23	LJF	EPA 7470A
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/26/2017 19:07	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/26/2017 19:07	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/26/2017 19:07	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/26/2017 19:07	MDS	EPA 8021M
TPH as Mineral Spirits	49	ug/L	33 *	110	1	B	07/25/2017 07:30	07/31/2017 11:17	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.14	1.0	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis



CT LAB Sample#: 894641 Sample Description: W13

Sampled: 07/20/2017 0815

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,5-Trichlorophenol	<3.0	ug/L	0.12	1.0	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.51	1.6	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.13	1.0	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.41	1.4	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.12	1.0	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.15	1.0	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.12	1.0	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.17	1.0	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.14	1.0	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.20	1.0	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
Pentachlorophenol	<b>0.75</b>	ug/L	0.18 *	1.0	1	B	07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.24	1.0	1		07/24/2017 07:00	07/28/2017 20:28	RPN	EPA 8270D

CT LAB Sample#: 894642 Sample Description: TRIP BLANK 06

Sampled: 07/20/2017 0825

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/26/2017 17:53	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/26/2017 17:53	MDS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/26/2017 17:53	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/26/2017 17:53	MDS	EPA 8021M

Notes: \* Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: **Brett M. Szymanski**  
 Project Manager  
 608-356-2760

**QC Qualifiers**

<b>Code</b>	<b>Description</b>
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

**Current CT Laboratories Certifications**

Wisconsin (WDNR) Chemistry ID# 157066030  
 Wisconsin (DATCP) Bacteriology ID# 105-289  
 Louisiana NELAP (primary) ID# ACC20160002  
 Illinois NELAP Lab ID# 200073  
 Kansas NELAP Lab ID# E-10368  
 Virginia NELAP Lab ID# 460203  
 Maryland Lab ID# WI00061  
 ISO/IEC 17025-2005 A2LA Cert # 3806.01  
 DoD-ELAP A2LA 3806.01  
 GA EPD Stipulation ID ACC20160002  
 Pennsylvania NELAP Lab ID# 68-04201, # 008



**ANALYTICAL REPORT**

TRC ENVIRONMENTAL  
 BRUCE IVERSON  
 708 HEARTLAND TRAIL  
 MADISON, WI 53717

Project Name: WAULECO  
 Project Phase: WAUSAU, WI  
 Contract #: 2399  
 Project #: 189597.0005  
 Folder #: 129176  
 Purchase Order #: 104230

Page 1 of 3  
 Arrival Temperature: 4.3  
 Report Date: 08/03/2017  
 Date Received: 07/21/2017  
 Reprint Date: 08/03/2017

CT LAB Sample#: 895503 Sample Description: DFOMW5 Sampled: 07/20/2017 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/26/2017 19:45	MDS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/26/2017 19:45	MDS	EPA 8021M
Naphthalene	<b>3.0</b>	ug/L	0.90	2.9	1			07/26/2017 19:45	MDS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/26/2017 19:45	MDS	EPA 8021M
TPH as Mineral Spirits	<b>92</b>	ug/L	33 *	110	1	B	07/25/2017 07:30	07/31/2017 11:49	AJZ	EPA 8015
Pentachlorophenol	<b>0.55</b>	ug/L	0.18 *	1.0	1	B	07/24/2017 07:00	07/28/2017 20:49	RPN	EPA 8270D

CT LAB Sample#: 895504 Sample Description: DFOMW11 Sampled: 07/20/2017 0955

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
Pentachlorophenol	<b>810</b>	ug/L	18	100	100		07/24/2017 07:00	07/28/2017 23:40	RPN	EPA 8270D

CT LAB Sample#: 895512 Sample Description: DFOMW12 Sampled: 07/20/2017 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
Pentachlorophenol	2300	ug/L	45	250	250		07/24/2017 07:00	07/29/2017 00:01	RPN	EPA 8270D

CT LAB Sample#: 895513 Sample Description: DFOMW12 DUP Sampled: 07/20/2017 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
Pentachlorophenol	2800	ug/L	45	250	250		07/24/2017 07:00	07/29/2017 00:22	RPN	EPA 8270D

Notes: \* Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: **Brett M. Szymanski**  
 Project Manager  
 608-356-2760

**QC Qualifiers**

**Code    Description**

- B**    Analyte detected in the associated Method Blank.
- C**    Toxicity present in BOD sample.
- D**    Diluted Out.
- E**    Safe, No Total Coliform detected.
- F**    Unsafe, Total Coliform detected, no E. Coli detected.
- G**    Unsafe, Total Coliform detected and E. Coli detected.
- H**    Holding time exceeded.
- I**    BOD incubator temperature was outside acceptance limits during test period.
- J**    Estimated value.
- L**    Significant peaks were detected outside the chromatographic window.
- M**    Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
- N**    Insufficient BOD oxygen depletion.
- O**    Complete BOD oxygen depletion.
- P**    Concentration of analyte differs more than 40% between primary and confirmation analysis.
- Q**    Laboratory Control Sample outside acceptance limits.
- R**    See Narrative at end of report.
- S**    Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
- T**    Sample received with improper preservation or temperature.
- U**    Analyte concentration was below detection limit.
- V**    Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
- W**    Sample amount received was below program minimum.
- X**    Analyte exceeded calibration range.
- Y**    Replicate/Duplicate precision outside acceptance limits.
- Z**    Specified calibration criteria was not met.

**Current CT Laboratories Certifications**

- Wisconsin (WDNR) Chemistry ID# 157066030
- Wisconsin (DATCP) Bacteriology ID# 105-289
- Louisiana NELAP (primary) ID# ACC20160002
- Illinois NELAP Lab ID# 200073
- Kansas NELAP Lab ID# E-10368
- Virginia NELAP Lab ID# 460203
- Maryland Lab ID# WI00061
- ISO/IEC 17025-2005 A2LA Cert # 3806.01
- DoD-ELAP A2LA 3806.01
- GA EPD Stipulation ID ACC20160002
- Pennsylvania NELAP Lab ID# 68-04201, # 008

Company Name: TRC  
 Project Contact: Bruce Iverson  
 Telephone:  
 Project Name: Wauleco  
 Project Number: 189597.0005  
 Project Location: Wausau, WI  
 Sampled By: Tom Dushak



\*\*\*\*\*  
 130 Lange Court, Baraboo, WI 53913  
 08-356-2760 Tel. Fx 608-356-2766  
 www.ctlaboratories.com  
 Folder #: 129176  
 Company: TRC ENVIRONMENTA  
 Project: WAULECO  
 Logged By: BMS PM: BM

Mail Report To: Bruce Iverson  
 Company: TRC  
 Address: 708 Heartland Trail  
 City/State/Zip: Madison, WI 53717

Invoice To: Accounts Payable  
 Company: TRC  
 Address:  
 City/State/Zip:

PO No. 104230

Contract No.

Regulatory Program:  
 UST RCRA SDWA NPDES  
 Solid Waste Other

Ice Present  Yes  No  
 Temperature 4.3  
 initials BSD  
 Date 7-21-17 Time 0940  
 Cooler # 5918 6021

Turnaround Time  
Normal RUSH\* Date Needed \_\_\_\_\_  
 \*Notify Lab prior to sending in RUSH  
 Surcharges 24 hr 200% 2-3 days 100% 4-9 days 50%  
 Surcharges subject to change without notice.

Landfill License Number

Collection		Field Screen	Field ID	Grab/Comp	Sample ID Description	Filt'd Y/N
Date	Time					
7/20/17	0900			G	DFOMW 5	N
	0955				DFOMW 11	
	1030				DFOMW 12	
	1030			✓	DFOMW 12 Dup	✓

WDNR Well ID #	**Matrix:	Pentachloroethanol (8270)	VOC's	TPH								Total No of Containers	Total No of Cont. Rec'd	Preservation*
	GW	2	3	1								6		
		2										2		
		2										2		
		2										2		
	A	B	A											

Client Special Instructions:  
 VOC's - Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene.

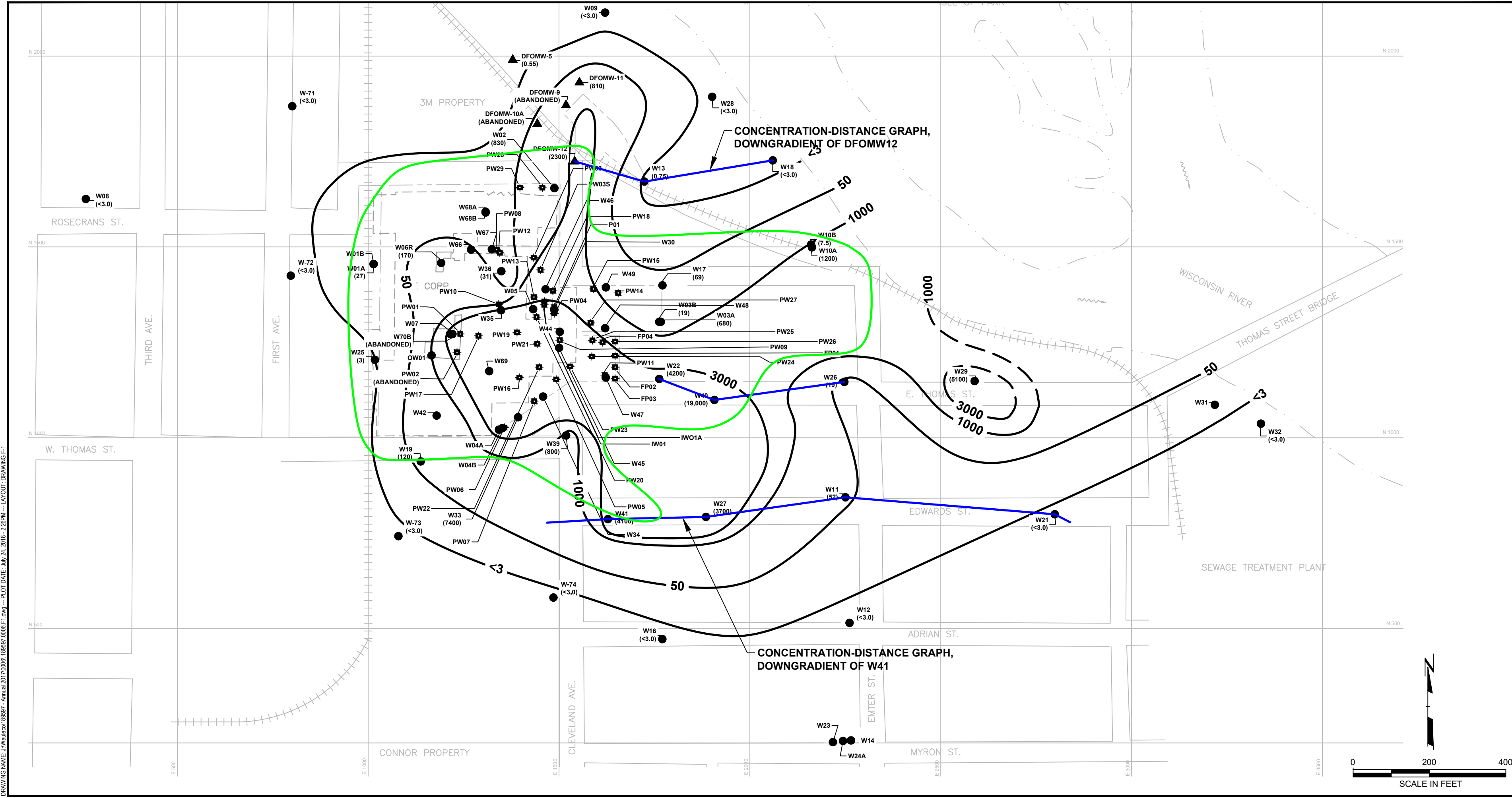
Lab ID #

Relinquished By: J. J. Dushak Date/Time: 7/20/17 1530  
 Received by: [Signature] Date/Time: 7-21-17 1008

\*\*Matrix  
 S-Soil A-Air Slg-Sludge M-Misc Waste  
 GW-Groundwater SW-Surface Water  
 WW-Wastewater DW-Drinking Water  
 \* Preservation Code  
 A=None B=HCL  
 C=H2SO4 D=HNO3  
 E=Encore F=Methanol  
 G=NaOH  
 O=Other \_\_\_\_\_

**APPENDIX E**  
**PCP CONCENTRATION DISTANCE GRAPHS**





**LEGEND**

- W17 (60) ● MONITORING WELL LOCATION AND PCP CONCENTRATION (ug/L)
- PW12 ◻ EXTRACTION WELL LOCATION AND NUMBER
- DFOMW-5 ▲ 3M GROUNDWATER MONITORING WELL
- - - APPROXIMATE PROPERTY LINE
- - - FORMER BUILDING OUTLINE
- 50 — PCP ISOCONCENTRATION CONTOUR INTERVAL VARIES (DASHED WHERE INFERRED)
- — PROFILE LINES FOR CONCENTRATION-DISTANCE GRAPHS
- — OUTLINE OF RESIDUAL PHASE PRODUCT

- NOTES**
1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL, MWH DRAWING 2082658.302160101-B1, AND 3M WELLS LOCATION BASED ON 3M MAPS.
  2. GROUNDWATER SAMPLES OBTAINED BY TRC ON JULY 10, 11, 13, 17, 18 20, 2017.
  3. ANALYTE CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY CT LABORATORIES, INC.
  4. IN WELL CLUSTERS THE VALUE FROM THE SHALLOWEST WELL WAS USED TO DETERMINE ISOCONCENTRATIONS FOR THE ANALYTE.
  5. THE NR140 ENFORCEMENT STANDARD (ES) FOR PCP IS 1.0 ug/L. THE NR140 PREVENTIVE ACTION LIMIT (PAL) FOR PCP IS 0.10 ug/L.
  6. 3M WELLS DFOMW-9 AND DFOMW-10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.
  7. OUTLINE OF RESIDUAL PHASE PRODUCT IS FROM FIGURE 1 OF THE SEPTEMBER 2015 GROUNDWATER REMEDIAL ACTION OPTIONS REPORT.

PROJECT: **WAULECO, INC. ANNUAL GROUNDWATER MONITORING REPORT WAUSAU, WISCONSIN**

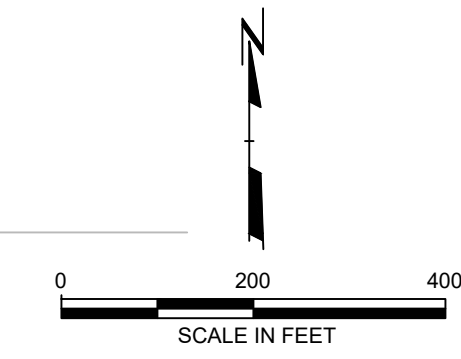
TITLE: **PCP ISOCONCENTRATION MAP WITH CONCENTRATION-DISTANCE PROFILES (JULY 2017)**

DRAWN BY: L. STORMER	PROJ. NO.: 189597 - ANNUAL REPORT
CHECKED BY: K. QUINN	<b>DRAWING E-1</b>
APPROVED BY: B. IVERSON	
DATE: JULY 2018	

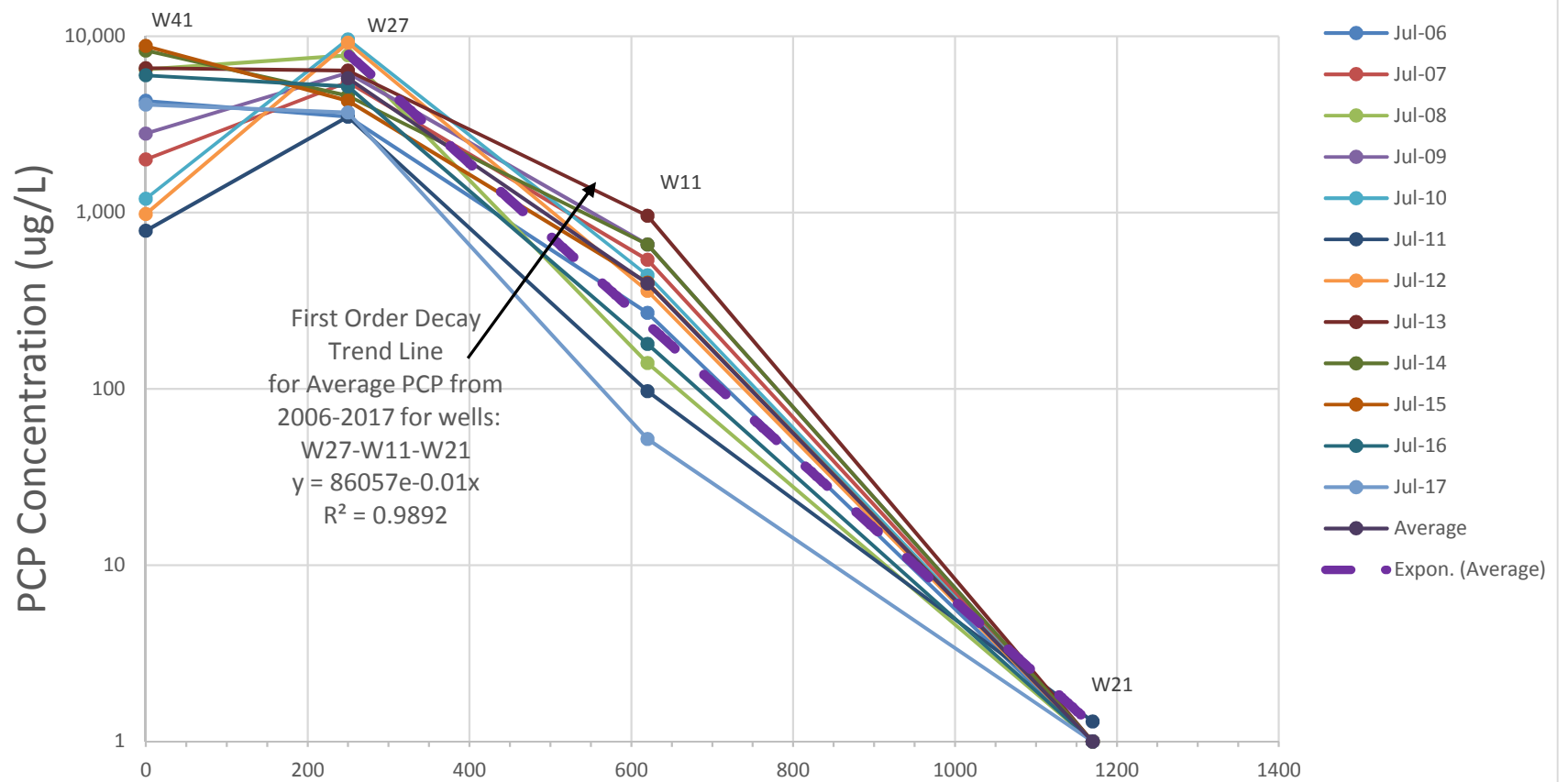
850 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600

FILE NO.: 189597.0006.F1.dwg

T:\04 - USER KQ - ATTACHED REFS - 189597 - Annual 2017\0006.F1.dwg - PLOT DATE: July 24, 2018 - 2:28PM - LAYOUT: DRAWING E-1  
 Version: 2017-10-21



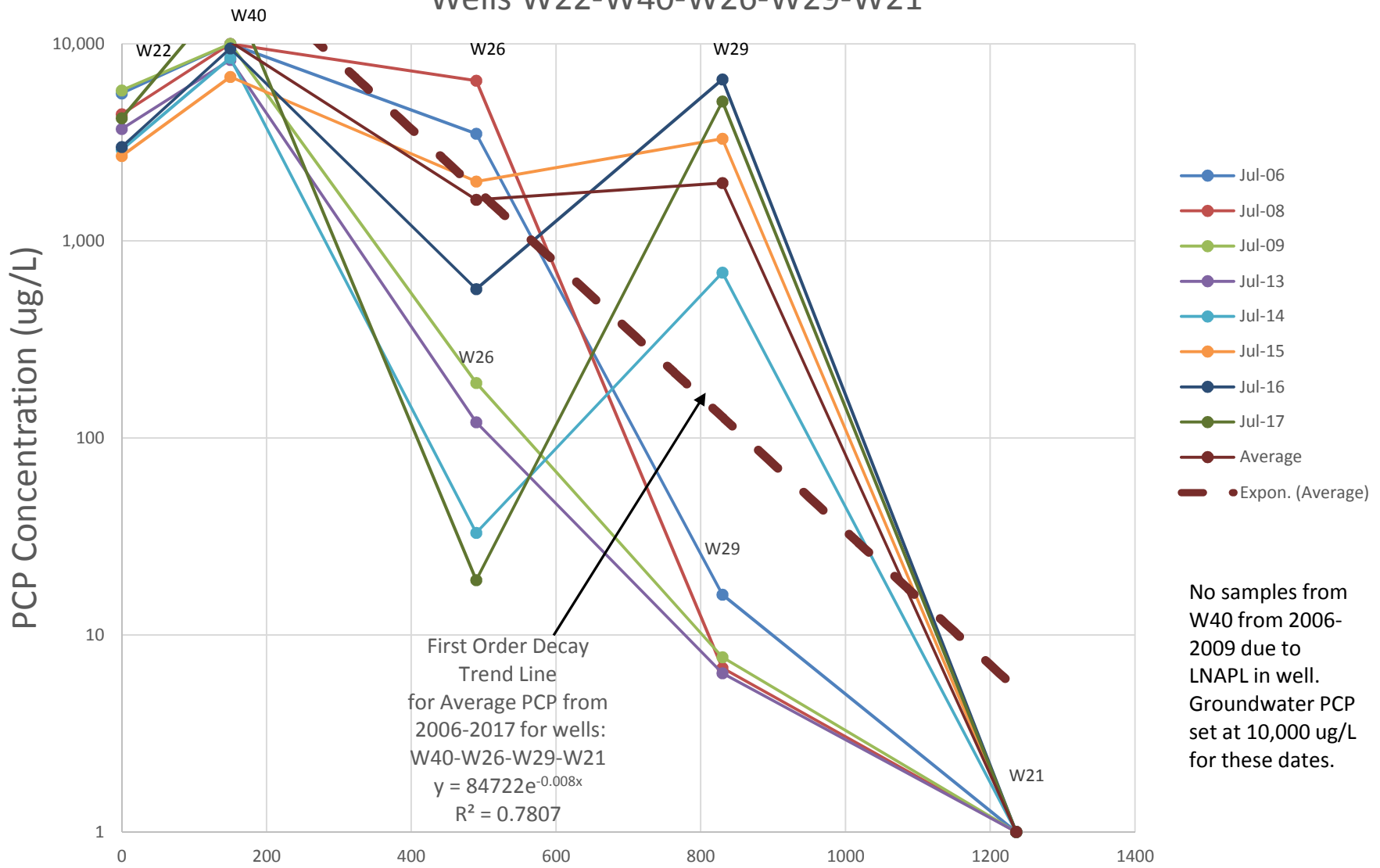
PCP Concentration-Distance Graphs  
Wells W41-W27-W11-W21



Non-detects at W21 plotted at 1 ug/L for convenience

Figure E-2

### Concentration-Distance Graphs Wells W22-W40-W26-W29-W21

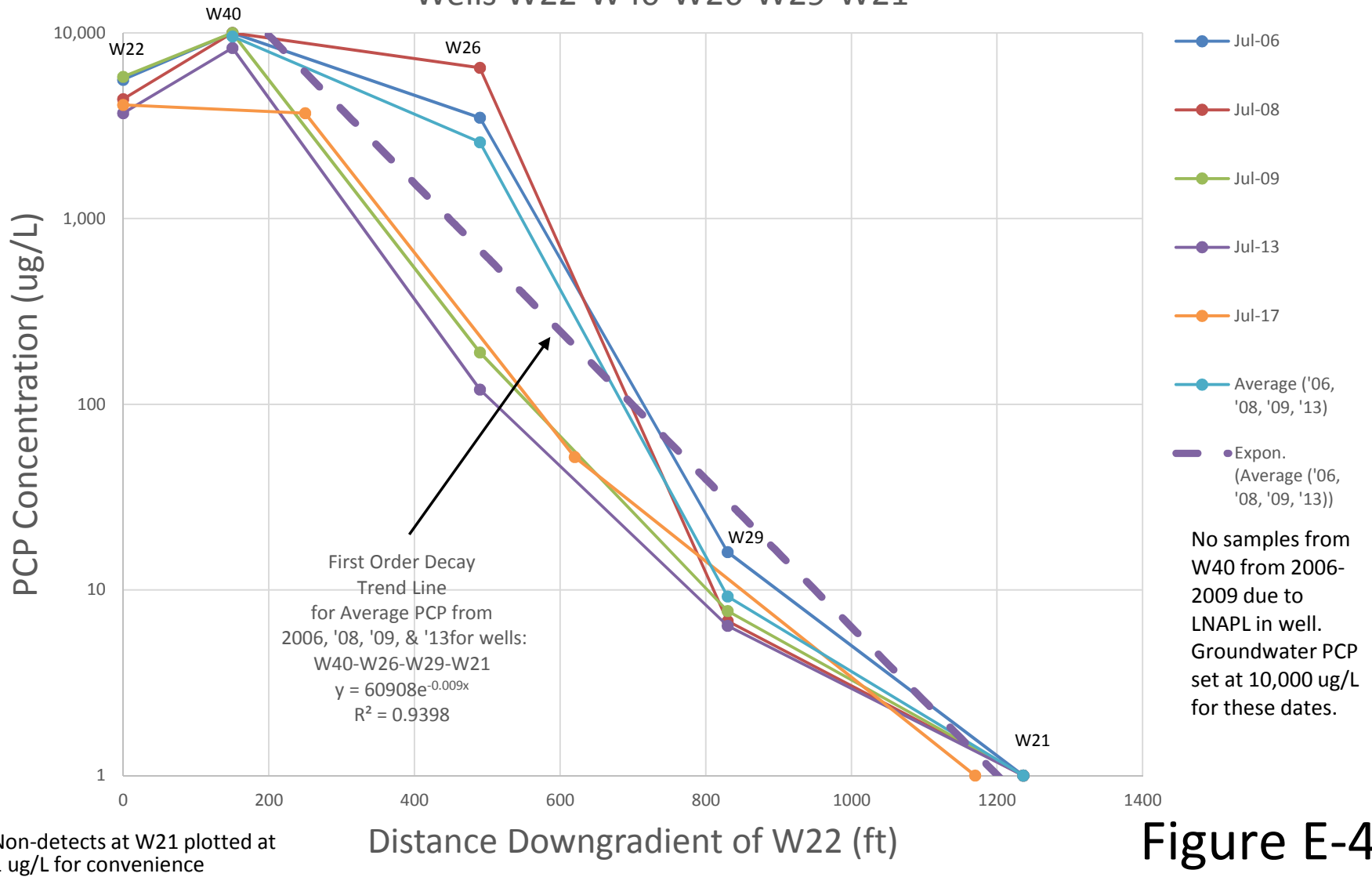


Non-detects at W21 plotted at 1 ug/L for convenience

Distance Downgradient of W22 (ft)

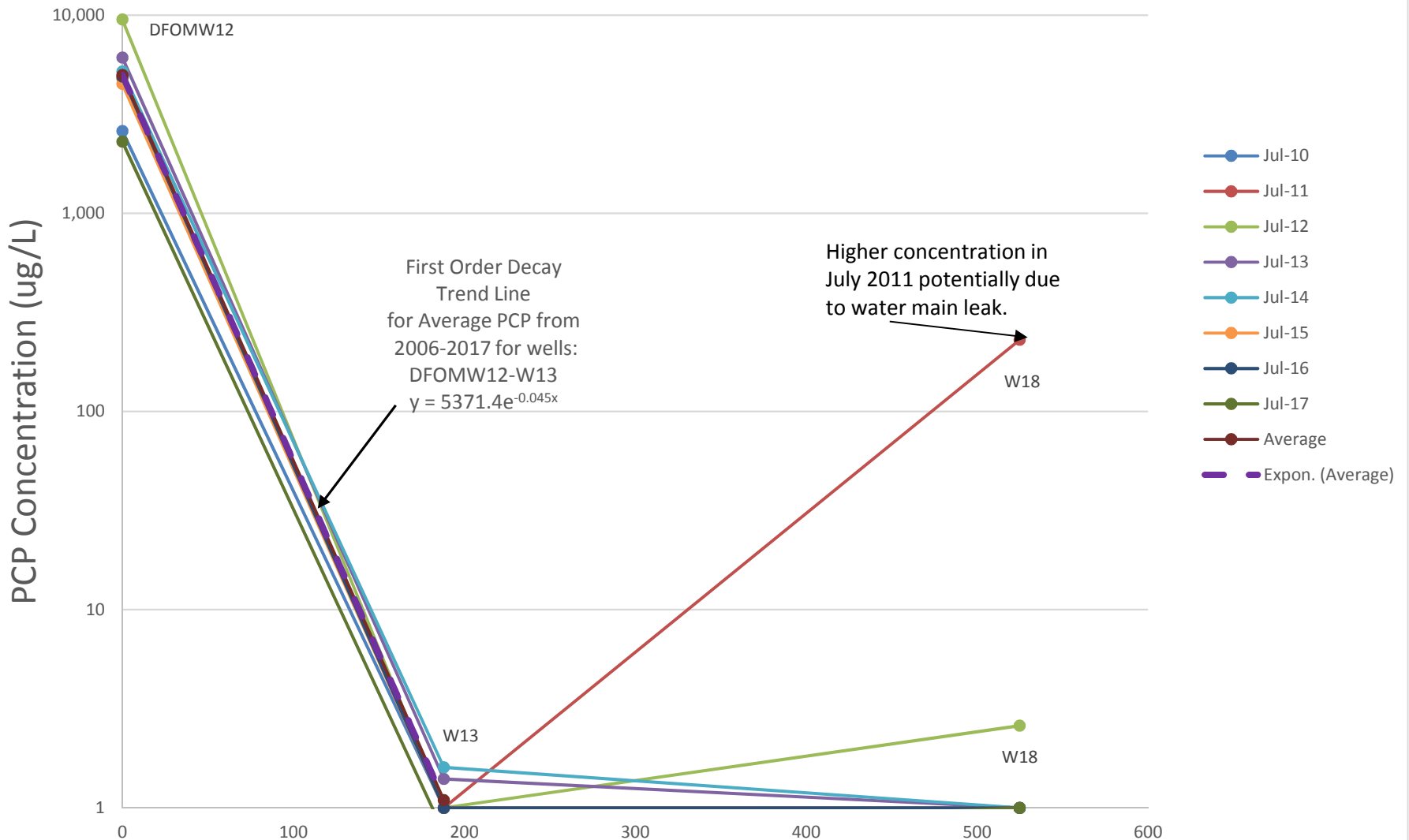
Figure E-3

### Concentration-Distance Graphs Select Dates Wells W22-W40-W26-W29-W21



**Figure E-4**

## Concentration-Distance Graphs Wells DFOMW12-W13-W18



Non-detects plotted at 1 ug/L for convenience

Distance Downgradient of DFOMW12(ft)

Figure E-5