

708 Heartland Trail
Suite 3000
Madison, WI 53717

608-826-3600 PHONE
608-826-3941 FAX

www.TRCsolutions.com

April 4, 2019

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

Subject: 2018 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 2018 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: 2018 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)

2018 ANNUAL GROUNDWATER MONITORING REPORT

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

April 2019

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

•••

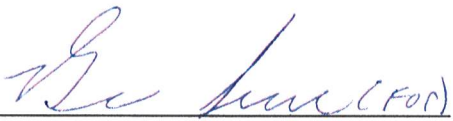
**Prepared By:
TRC, Inc.
Madison, Wisconsin**

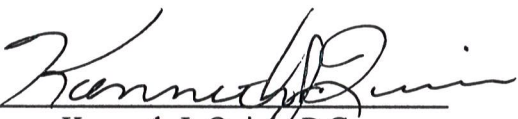
Project No. 189597

2018 ANNUAL GROUNDWATER MONITORING REPORT

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

April 2019

Prepared by:  4-4-2019
Tom Dushek
Environmental Scientist
Date

Reviewed by:  4-4-2019
Kenneth J. Quinn, P.G.
Senior Hydrogeologist
Date

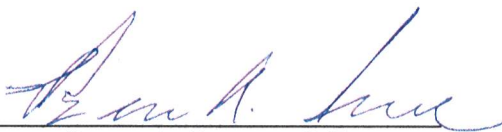
Approved by:  4-4-2019
Bruce A. Iverson, P.E.
Project Manager
Date

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
INTRODUCTION	1
BACKGROUND	1
SAMPLING EVENT SUMMARY	3
PRESENTATION OF RESULTS	4
Groundwater Elevations	4
Apparent Product Thickness	5
Product Recovery	6
Dissolved PCP Recovery	6
Total PCP Recovered	7
Groundwater Quality	8
SUMMARY AND CONCLUSIONS	12
Product	13
Groundwater Containment	13
Groundwater Quality	13
RECOMMENDATIONS	14

LIST OF TABLES

Tables

1	2018 Groundwater Monitoring Program
2	Summary of 2018 Groundwater Sampling Locations
3	2018 Groundwater Elevation Data
4a	2018 Winter Groundwater Monitoring Analytical Results
4b	2018 Summer Groundwater Monitoring Analytical Results
5	2018 Groundwater Treatment Removal of Pentachlorophenol (PCP)

LIST OF FIGURES

**Figure
No.**

1	Average Water Level Deviation and Product Recovery Rates Versus Time
---	--

LIST OF DRAWINGS

Drawings

1	Site Location Map
2	Site Features Map
3	Water Table Map (January 8, 2018)
4	Water Table Map (July 9, 2018)
5	Product (Oil) Thickness Map (January 8, 2018)
6	Product (Oil) Thickness Map (July 9, 2018)
7	PCP Isoconcentration Map (July 2018)
8	Naphthalene Isoconcentration Map (July 2018)
9	Total Petroleum Hydrocarbons (TPH) as Mineral Spirits Isoconcentration Map (July 2018)
10	1,2,4-Trimethylbenzene Isoconcentration Map (July 2018)
11	Total Xylene Isoconcentration Map (July 2018)

LIST OF APPENDICES

Appendices

A	- Correspondence with WDNR
B	- Historical Groundwater Analytical Results
	B1 Water Quality Indicators
	B2 Phenolics
	B3 Volatile Organic Compounds
C	- Historical PCP Analysis Results
D	- Laboratory Report
	D1 January 2018
	D2 July 2018
E	- PCP Concentration Distance Graphs

2018 ANNUAL GROUNDWATER MONITORING REPORT

WAULECO, INC. WAUSAU FACILITY

INTRODUCTION

This 2018 Annual Groundwater Monitoring Report presents a summary of groundwater quality data collected from the Wauleco, Inc. facility in Wausau, Wisconsin (see Drawing 1) in 2018. 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 2018. 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 was 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 near 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).
- 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 reduced from quarterly to semi-annually (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 to 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 revised 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. 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.
- 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 and continues.
- The Groundwater Monitoring Report is submitted on an annual basis following completion of the year’s monitoring.

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 2018. Sampling activities since 1992 have been conducted in general accordance with Wauleco’s Groundwater Monitoring Plan and the WDNR’s conditional approvals, summarized above. During each sampling event, water levels and product thickness measurements are first recorded, followed by the purging of each well sampled. Groundwater monitoring wells sampled during 2018 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 8, and July 9, 2018 rounds are included in Table 3.

The 2016 and 2017 Annual Groundwater Monitoring Reports included an evaluation of groundwater elevations associated with the October through November 2016 Lake Wausau drawdown period. However, groundwater elevations have recovered from this event and are no longer presented in that format in this year’s report.

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, 2018 groundwater analytical results is provided in Tables 4a and 4b, 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 historical groundwater elevation at this site as the average water level deviation¹. 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 4.61 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 0.58 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 and 2018 the average water level deviation began the year at a low level (around 0.0 ft) and increased to over 2 ft. in the summer and fall.

¹ 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 agreed 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, 2018 water table maps (Drawing 3 and 4, respectively) show a capture zone extending to approximately 200 ft. in January and 100 ft. in July downgradient of the east property line adjacent to extraction wells FP01 and FP02.

Apparent Product Thickness

The apparent product thicknesses during January and July 2018 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 two monitoring wells and four extraction wells showed apparent mobile product in 2018, and sporadically at that. This illustrates that the apparent mobile product at the site is thin and isolated to very small areas.

Well	January 2018 Apparent Product Thickness (ft)	April 2018 Apparent Product Thickness (ft)	July 2018 Apparent Product Thickness (ft)	October 2018 Apparent Product Thickness (ft)
W07	0.0	0.0	0.32	0.0
W35	0.22	0.06	0.0	0.0
PW16	0.0	0.0	0.0	0.01
PW29	0.21	0.0	0.0	0.0
FP02	0.0	0.04	0.01	0.0
FP03	0.0	0.03	0.01	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 2018. This method continues to be used only at locations where free product has recovered. In 2018, it was used at all of the wells listed in the above table.

As shown in the table above, mobile product was detected at six wells at one or two events throughout the year. Each of these product appearances occurred while pumping 14 extraction wells and demonstrates that very limited areas of mobile product exists on-site. Well W40, which has typically had small thicknesses of product, had no observed product in 2018 during the quarterly monitoring events.

Product Recovery

Historical product recovery is summarized in the following table. No product was recovered in 2018.

Year	Product Recovery (gallons)
1991 through 1997	38,705
1998	12,901
1999 – 1 st 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 st 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
2018	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 5. During 2018, a total of 11.96 million gallons of water were treated through the fluidized bed reactor (FBR) system. The average PCP concentration of the influent water was 4,428 micrograms per liter ($\mu\text{g/L}$), and the average PCP concentration in the treatment system effluent was 3.64 $\mu\text{g/L}$. This translates to 442 pounds (lb) of PCP removed during 2018.

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
2018	4,428

Total PCP Recovered

The mass of PCP recovered for each of the last 23 years is as follows:

Total PCP Recovered			
Year	PCP in Product Recovered ¹ (lbs)	PCP in Water ² (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 st year with new wells	12,645	2,550	15,195
2000	10,635	2,212	12,847
2001	4,716	2,146	6,862 ³
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

Total PCP Recovered			
Year	PCP in Product Recovered ¹ (lbs)	PCP in Water ² (lbs)	Total PCP Recovered (lbs)
2011	2	671	673
2012	0	510	510
2013	0	473	473
2014	0	481	481
2015	0	422	422
2016	0	406	406
2017	0	459	459
2018	0	442	442
Total Project to Date	48,520	31,105	79,625

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 2018 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 2018 sampling rounds are summarized in Tables 4a and 4b. 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 2018.

Following is a summary of changes or trends by compound compared to the 2017 Annual Groundwater Monitoring 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 product and PCP concentrations over 10,000 ug/L prior to 2003 to less than 1,000 ug/L in 2018). This is supported by the potential declines in PCP at well 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
July, 2018	<3	<3	<3	4.5	1,100

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 in 2018, downgradient of significant PCP concentrations. This pattern at W18, and adjacent wells W09 (2.5 ug/L in 2018) and W28 (2.5 ug/L in 2018), 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. As shown in the graph in Appendix C, the PCP concentration declined in 2018, compared to 2017.

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 2010 are summarized as follows:

Date	W2	W3A	W6R	W40
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
July, 2018	750	500	97	9,600

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 continues its decline into 2018. For 2017, the concentration at W40 is attributed to a small amount of mobile product likely being present in the sample, whereas the concentration in 2018 reverted back to the concentration typical of having residual phase product present in close proximity.

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 <31 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 2018, the PCP concentration is still low at well W36.

Areal Extent – The areal extent and distribution of PCP (Drawing 7) in 2018 is generally similar to the 2014 through 2017 isoconcentration maps. The primary difference between the 2017 and 2018 maps 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 product and extends to somewhat downgradient of well W11. This concentration-distance trend through this southern lobe is shown on Figure E-2 in Appendix E, 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 2018 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 2017, with concentration above 100 µg/L (the NR 140 ES) centered around well W40 (see Drawing 8). However, in the 2018 Naphthalene map, the extent of the 100 ug/L contour extends from W40 up to W02. This is a small change in interpretation, due to the return of naphthalene at W02 from 10 ug/L in 2017 back to the historically typical 100 ug/L in 2018.
- **TPH** – The areal extent of the total petroleum hydrocarbon (TPH) concentrations in 2018 (see Drawing 9) has a similar distribution as the PCP plume in that there is a southern lobe of the plume at well W29. The 10 mg/L contour line is similar to 2017 around well W40 with TPH concentration remaining at several hundred (i.e., 300 mg/L).
- **1,2,4-Trimethylbenzene** – The areal extent for 1,2,4-Trimethylbenzene is similar to 2016 and 2017, with the highest concentration centered at well W40 (see Drawing 10), although the concentration at well W10A in 2018 (500 ug/L) increased over concentrations in 2016 (150 ug/L) and 2017 (57 ug/L).
- **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 880 µg/L (see Drawing 11). The areal extent for total xylenes is similar to 2017 contours.

SUMMARY AND CONCLUSIONS

Groundwater quality around the Wauleco site has remained similar to 2017 results, or has generally decreased concentrations in 2018 (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 2018 on the site is limited to two monitoring wells and four extraction wells, is thin, and isolated to very small areas. Consistent with this observation, an insignificant volume of product was removed using absorbent socks, so there was no measurable 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 442 lbs/yr in 2018, 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 2018 is evident as shown in Drawings 3 and 4 for pumping at approximately 22 gpm, extending at least 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 increase from 2014 through 2016 and then decline to 2018 (see time concentration graph in Appendix C) may be due to changes in groundwater flow direction. 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.

RECOMMENDATIONS

TRC recommends the following:

- Continue operation of the groundwater remediation system without product recovery.
- Continue to implement the current pumping approach.
- Continue to perform semi-annual groundwater monitoring during 2019.
- Continue the quarterly water level monitoring used to assess the effect of the reduction in pumping rate in 2011, with preparation of a water table map for the January and July monitoring events.
- 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.

TABLE 1

**2018 GROUNDWATER MONITORING PROGRAM
WAULECO, INC.
WAUSAU, WISCONSIN**

Well Location	Semi-Annual - January	Annual - July
W1A		S
W2		S
W3A	W + M	S + M
W3B		S
W6R	W + M	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	M	S + M
W19	W + M	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	M	S + M
W32		S
W33	W + M	S + M
W36		S
W39	W	S
W40	W + M	S + M
W41	W + M	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 + M	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, 12/3/18

Checked : A. Voit, 12/16/18

TABLE 2

**SUMMARY OF 2018 GROUNDWATER SAMPLING LOCATIONS
WAULECO, INC.
WAUSAU, WISCONSIN**

Well Location	January 2018	July 2018
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	X
W19	X	X
W21		X
W22	X	X
W25	X	X
W26	X	X
W27	X	X
W28	X	X
W29	X	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 2018 (Winter Sampling Round) samples collected on January 9, 10, 11, 15 and 30, 2018.

July 2018 (Summer Sampling Round) samples collected on July 10, 11, 12, 16, 18, and 19, 2018.

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, 12/3/18

Checked : A. Voit, 12/16/18

TABLE 3
2018 Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well No.	Current	January 8, 2018		April 20, 2018		July 9, 2018		October 18, 2018	
	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 ³	0.00	1162.91	0.00	1162.48	0.00	1163.80	0.00	1164.76
PW02	1197.16	-----	Abandoned	-----	Abandoned	-----	Abandoned	-----	Abandoned
PW03	1190.49	0.00	1162.81	0.00	1162.46	0.00	1163.67	0.00	1164.72
PW3S	1189.55	0.00	1162.07	0.00	1161.85	0.00	1163.14	0.00	1164.43
PW04	1190.52	0.00	1161.94	0.00	1161.79	0.00	1162.96	0.00	1164.23
PW05	1188.48	0.00	1161.99	0.00	1161.81	0.00	1162.95	0.00	1164.11
PW06	1191.97	0.00	1162.32	0.00	1162.16	0.00	1163.18	0.00	1164.20
PW07	1189.82	0.00	1162.12	0.00	1161.94	0.00	1163.06	0.00	1164.11
PW08	1191.84	0.00	1163.15	0.00	1162.73	0.00	1164.00	0.00	1164.94
PW9I	1188.58	-----	-----	-----	-----	-----	-----	-----	-----
PW9O	1189.98	0.00	1161.98	0.00	1161.82	0.00	1163.01	0.00	1164.28
PW10	1191.62	0.00	1162.15	0.00	1161.90	0.00	1163.18	0.00	1164.37
PW11	1188.69	0.00	1160.46	0.00	1160.48	0.00	1161.67	0.00	1163.26
PW12	1192.12	0.00	1162.66	0.00	1162.22	0.00	1163.37	0.00	1164.66
PW13	1192.2	0.00	1162.03	0.00	1161.82	0.00	1163.04	0.00	1164.33
PW14	1188.83	0.00	1161.21	0.00	1161.49	0.00	1162.53	0.00	1164.68
PW15	1189.34	0.00	1161.29	0.00	1161.49	0.00	1162.63	0.00	1164.72
PW16	1191.91	0.00	1161.91	0.00	1161.60	0.00	1162.64	0.01	1163.62
PW17	1191.9	0.00	1161.44	0.00	1160.22	0.00	1160.48	0.00	1162.95
PW18	1190.19	0.00	1161.95	0.00	1161.77	0.00	1163.08	0.00	1164.49
PW19	1190.66	0.00	1161.61	0.00	1161.36	0.00	1162.46	0.00	1163.67
PW20	1191.34	0.00	1161.30	0.00	1160.97	0.00	1162.35	0.00	1163.48
PW21	1190.33	0.00	1161.36	0.00	1161.09	0.00	1162.34	0.00	1163.27
PW22	1192.32	0.00	1162.03	0.00	1161.85	0.00	1162.97	0.00	1164.13
PW23	1189.49	0.00	1161.92	0.00	1161.76	0.00	1162.91	0.00	1164.10
PW24	1188.28	0.00	1160.31	0.00	1160.26	0.00	1161.54	0.00	1163.00
PW25	1189.51	0.00	1159.21	0.00	1159.67	0.00	1159.96	0.00	1162.56
PW26	1188.79	0.00	1159.71	0.00	1159.80	0.00	1160.91	0.00	1162.26
PW27	1188.47	0.00	1159.29	0.00	1159.18	0.00	1160.87	0.00	1162.99
PW28	1193.6	0.00	1162.97	0.00	1162.55	0.00	1163.67	0.00	1164.60
PW29	1193.65	0.21	1163.03	0.00	1162.59	0.00	1163.77	0.00	1164.65
P01	1191.48	0.00	1161.92	0.00	1161.77	0.00	1162.96	0.00	1164.24
OW01	1194.62 ³	0.00	1164.16	0.00	1163.68	0.00	1164.91	0.00	1165.79
W01A	1194.08	0.00	1163.27	0.00	1162.76	0.00	1164.04	0.00	1164.90
W01B	1194.92	0.00	1163.30	0.00	1162.73	0.00	1164.07	0.00	1164.93
W02	1193.71	0.00	1162.67	0.00	1162.25	0.00	1163.39	0.00	1164.37
W03A	1187.76	0.00	1161.00	0.00	1161.22	0.00	1162.18	0.00	1164.00
W03B	1187.77	0.00	1161.73	0.00	1161.74	0.00	1162.16	0.00	1163.12

TABLE 3
2018 Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well No.	Current	January 8, 2018		April 20, 2018		July 9, 2018		October 18, 2018	
	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	1162.32	0.00	1162.17	0.00	1163.16	0.00	1164.18
W04B	1192.26	0.00	1162.33	0.00	1162.16	0.00	1163.16	0.00	1164.09
W05	1190.63	0.00	1162.01	0.00	1161.80	0.00	1163.00	0.00	1164.22
W06R	1194.06	0.00	1163.21	0.00	1162.70	0.00	1163.99	0.00	1164.83
W07	1192.37 ³	0.00	1161.95	0.00	1162.49	0.32	1163.83	0.00	1164.80
W08	1206.73	0.00	1170.56	0.00	1168.61	0.00	1173.59	0.00	1174.69
W09	1172.80	0.00	1162.24	0.00	1162.15	0.00	1162.54	0.00	1163.18
W10A	1182.59	0.00	1161.25	0.00	1161.35	0.00	1161.23	0.00	1161.90
W10B	1182.44	0.00	1161.24	0.00	1161.34	0.00	1161.23	0.00	1161.90
W11	1175.25	0.00	1161.05	0.00	1161.27	0.00	1161.15	0.00	1161.81
W12	1173.95	0.00	1160.65	0.00	1160.86	0.00	1160.71	0.00	1161.30
W13	1188.73	0.00	1161.65	0.00	1161.89	0.00	1161.89	0.00	1163.13
W14	1172.41	0.00	1160.93	0.00	1161.20	0.00	1160.99	0.00	1161.53
W16	1180.60	0.00	1161.77	0.00	1161.97	0.00	1162.27	0.00	1163.42
W17	1187.4	0.00	1161.20	0.00	1161.52	0.00	1162.39	0.00	1164.37
W18	1172.92	0.00	1161.41	0.00	1161.46	0.00	1161.21	0.00	1161.79
W19	1194.26	0.00	1162.73	0.00	1162.39	0.00	1163.50	0.00	1164.40
W21	1170.14	0.00	1161.04	0.00	1161.26	0.00	1160.95	0.00	1161.42
W22	1186.01	0.00	1161.01	0.00	1161.17	0.00	1162.18	0.00	1163.60
W23	1171.55	0.00	1160.95	0.00	1161.23	0.00	1161.04	0.00	1161.64
W24A	1171.77	0.00	1160.95	0.00	1161.24	0.00	1161.05	0.00	1161.61
W25	1194.48	0.00	1163.34	0.00	1162.87	0.00	1164.11	0.00	1164.93
W26	1176.90	0.00	1161.14	0.00	1161.32	0.00	1161.27	0.00	1161.81
W27	1180.19	0.00	1161.45	0.00	1161.65	0.00	1161.95	0.00	1162.96
W28	1174.36	0.00	1161.47	0.00	1161.48	0.00	1161.16	0.00	1161.73
W29	1172.60	0.00	1161.17	0.00	1161.32	0.00	1160.99	0.00	1161.46
W30	1189.97	0.00	1161.92	0.00	1161.77	0.00	1162.93	0.00	1164.24
W31	1169.67	0.00	1161.22	0.00	1161.32	0.00	1160.99	0.00	1161.32
W32	1169.43	0.00	1161.24	0.00	1161.34	0.00	1161.02	0.00	1161.33
W33	1188.51	0.00	1162.11	0.00	1161.99	0.00	1163.02	0.00	1164.12
W34	1191.16	0.00	1162.09	0.00	1161.92	0.00	1162.99	0.00	1164.06
W35	1191.93	0.22	1162.11	0.06	1161.88	0.00	1163.12	0.00	1164.31
W36	1192.34	0.00	1162.57	0.00	1162.25	0.00	1163.53	0.00	1164.59
W39	1187.78	0.00	1162.10	0.00	1161.98	0.00	1163.08	0.00	1164.04
W40	1180.69	0.00	1161.18	0.00	1161.34	0.00	1161.67	0.00	1163.22
W41	1185.04	0.00	1161.95	0.00	1161.94	0.00	1162.91	0.00	1163.85
W42	1194.61	0.00	1162.68	0.00	1162.40	0.00	1163.52	0.00	1164.47
W44	1190.82	0.00	1161.93	0.00	1161.78	0.00	1162.94	0.00	1164.17

TABLE 3
2018 Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well No.	Current	January 8, 2018		April 20, 2018		July 9, 2018		October 18, 2018	
	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	1161.96	0.00	1162.28	0.00	1163.49	0.00	1164.46
W46	1191.49	0.00	1161.79	0.00	1161.60	0.00	1162.82	0.00	1164.08
W47	1189.37	0.00	1160.46	0.00	1160.49	0.00	1161.74	0.00	1163.34
W48	1189.7	0.00	1160.88	0.00	1161.04	0.00	1162.20	0.00	1164.15
W49	1189.2	0.00	1161.30	0.00	1161.65	0.00	1162.73	0.00	1164.84
W66	1192.41	0.00	1163.12	0.00	1162.64	0.00	1163.83	0.00	1164.70
W67	1191.85	0.00	1163.07	0.00	1162.61	0.00	1163.77	0.00	1164.66
W68A	1190.94	0.00	1163.13	0.00	1162.65	0.00	1163.90	0.00	1164.77
W68B	1191.42	0.00	1163.05	0.00	1162.59	0.00	1163.73	0.00	1164.61
W69	1192.23	0.00	1162.27	0.00	1162.01	0.00	1163.16	0.00	1164.60
W70B	1200.29		Abandoned		Abandoned		Abandoned		Abandoned
River	1164.19	-----	-----	-----	-----	-----	-----	-----	-----
IW01	1190.8	0.00	1161.96	0.00	1161.77	0.00	1163.01	0.00	1164.29
IW01A	1190.74	0.00	1161.98	0.00	1161.79	0.00	1162.99	0.00	1164.25
FP01	1188.04	0.00	1159.76	0.00	1159.71	0.00	1161.22	0.00	1163.05
FP02	1187.6	0.00	1160.06	0.04	1160.10	0.01	1161.32	0.00	1162.92
FP03	1186.66	0.00	1158.41	0.03	1158.44	0.01	1159.91	0.00	1161.71
FP04	1188.29	0.00	1160.16	0.00	1160.27	0.00	1161.47	0.00	1163.14
3M Basin		0.00	Ice in both Basins	0.00	Ice in both Basins	0.00	Both Basins Dry	0.00	Water in both Basins
DFOWM 5	1188.3	0.00	1162.82	-----	-----	0.00	1163.37	-----	-----
DFOWM 9	1187.56		Abandoned		Abandoned		Abandoned		Abandoned
DFOWM 10A	1187.7		Abandoned		Abandoned		Abandoned		Abandoned
DFOWM 11	1188.8	0.00	1161.87	-----	-----	0.00	1161.98	-----	-----
DFOWM 12	1187.78	0.00	1162.63	-----	-----	0.00	1163.29	-----	-----
W71	1191.95	0.00	1164.85	0.00	1164.09	0.00	1165.65	0.00	1166.47
W72	1190.97	0.00	1163.54	0.00	1162.94	0.00	1164.34	0.00	1165.18
W73	1192.20	0.00	1162.57	0.00	1162.39	0.00	1163.35	0.00	1164.30
W74	1183.13	0.00	1162.17	0.00	1162.20	0.00	1162.86	0.00	1163.86

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, 12/3/18

Checked : K. Quinn, 1/30/19

TABLE 4a

**2018 Winter Groundwater Monitoring Analytical Results
January 9, 10, 11, 15, 30, 2018
Wauleco, Inc. - Wausau Facility
Wausau, Wisconsin**

Sample ID	ES	PAL	W03A	W06R	W08	W10A	W10A Duplicate	W11	W12	W13	W16	W17	W18	W19	W22	W22 Duplicate	W25	W26	W27
Indicators																			
Total sulfate (mg/L)	250	125	1.7	46	M 26	9.4	9.4	13	23	12	28	3.1	22	19	8.3	7.4		20	25
Nitrate nitrogen (mg/L)	10	2	<0.040	1.3	4.6	M				1.70		<0.040		4.1	0.079	<0.040	3.9	1.4	
Total organic carbon (mg/L)	None	None	6.9	7.8	0.82	6.1	6.1	1.6	1.1	2.1	1.3	3.6	0.96	2.4	12	14		3.2	21
Dissolved iron	300	150	1290	<59	<59	1,520	1,530	<59	<59	<59	<59	332	<59	172	82.2	86.7		<59	6,000
Dissolved manganese	50	25	1150	92	<2.2	2,790	2,840	385	<2.2	19.9	<2.2	422	<2.2	340	3,590	3,660		88.3	16,400
TPH as mineral spirits (ug/L)	None	None	5000	1900	<33	640	660	<34	<33	<33	<33	420	<33	190	4000	4100		<33	6000
Phenols																			
2,3,4,6-Tetrachlorophenol	None	None	20	170	<3.0					<3.0		2.6		41	440	470	<3.0	19	
2,4,5-Trichlorophenol	None	None	<3.0	<3.0	<3.0					<3.0		0.52		<3.0	<23	<23	<3.0	<3.0	
2,4,6-Trichlorophenol	None	None	<3.0	<3.0	<3.0					<3.0		<3.0		<3.0	<21	<21	<3.0	<3.0	
2,4-Dichlorophenol	None	None	<3.0	<3.0	<3.0					<3.0		<3.0		<3.0	<26	<26	<3.0	<3.0	
2,4-Dimethylphenol	None	None	<3.0	<3.0	<3.0					<3.0		<3.0		<3.0	<20	<20	<3.0	<3.0	
2,4-Dinitrophenol	None	None	<3.0	<3.0	<3.0					<3.0		<3.0		<3.0	<29	<29	<3.0	<3.0	
2,6-Dichlorophenol	None	None	<3.0	<3.0	<3.0					<3.0		<3.0		<3.0	<21	<21	<3.0	<3.0	
2-Chlorophenol	None	None	<3.0	<3.0	<3.0					<3.0		<3.0		<3.0	<24	<24	<3.0	<3.0	
2-Methylphenol	None	None	<3.0	<3.0	<3.0					<3.0		<3.0		<3.0	<20	<20	<3.0	<3.0	
2-Nitrophenol	None	None	<3.0	<3.0	<3.0					<3.0		<3.0		<3.0	<21	<21	<3.0	<3.0	
3- and 4-Methylphenol	None	None	<3.0	<3.0	<3.0					<3.0		<3.0		<3.0	<23	<23	<3.0	<3.0	
4,6-Dinitro-2-methylphenol	None	None	<3.0	<3.0	<3.0					<3.0		<3.0		<3.0	<30	<30	<3.0	<3.0	
4-Chloro-3-methylphenol	None	None	<3.0	<3.0	<3.0					<3.0		<3.0		<3.0	<22	<22	<3.0	<3.0	
4-Nitrophenol	None	None	<3.0	<3.0	<3.0					<3.0		<3.0		<3.0	<24	<24	<3.0	<3.0	
Pentachlorophenol	1	0.1	340	2500	<3.0					<3.0		72		290	4,900	5,300	4.6	270	
Phenol	6000	1200	<3.0	<3.0	<3.0					<3.0		<3.0		<3.0	<26	<26	<3.0	<3.0	
Total Phenols			360	2,670	0	0	0	0	0	0	0	75.12	0.0	331	5340	5770	4.6	289	-

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 12/4/18
 Checked by: A. Voit 12/16/18

TABLE 4a

**2018 Winter Groundwater Monitoring Analytical Results
January 9, 10, 11, 15, 30, 2018
Wauleco, Inc. - Wausau Facility
Wausau, Wisconsin**

Sample ID	ES	PAL	W28	W29	W33	W39	W40	W41	DFOMW5	DFOMW11	DFOMW12	DFOMW12 Duplicate	FP2	PW17	W71	W72	W73	W74	Equipment Blank
Indicators																			
Total sulfate (mg/L)	250	125	13	6	15		8.1	14					2.6	13			32		<1
Nitrate nitrogen (mg/L)	10	2			<0.040	<0.040	<0.040	<0.040											0.061
Total organic carbon (mg/L)	None	None	1.3	3.1	9.5		72	31					8.6	6.5			4.8		0.57
Dissolved iron (mg/L)	300	150	<59	<59	1,160		2460	8200	M				13,500	2520			<59	M,Y	<59
Dissolved manganese (mg/L)	50	25	<2.2	25.1	1,720		3210	12700	M				6,600	2,110			2.4	M,Y	<2.2
TPH as mineral spirits (ug/L)	None	None	<33	<33	14000		360000	1600					3000	1400			<33		<34
Phenols																			
2,3,4,6-Tetrachlorophenol	None	None			1500	53	950	100											<3.0
2,4,5-Trichlorophenol	None	None			<120	<12	<12	<23											<3.0
2,4,6-Trichlorophenol	None	None			<110	<11	<11	<21											<3.0
2,4-Dichlorophenol	None	None			<130	<13	<13	<26											<3.0
2,4-Dimethylphenol	None	None			<100	<10	<10	<20											<3.0
2,4-Dinitrophenol	None	None			<150	<15	<15	<29											<3.0
2,6-Dichlorophenol	None	None			<110	<11	<11	<21											<3.0
2-Chlorophenol	None	None			<120	<12	<12	<24											<3.0
2-Methylphenol	None	None			<100	<10	<10	<20											<3.0
2-Nitrophenol	None	None			<110	<11	<11	<21											<3.0
3- and 4-Methylphenol	None	None			<120	<12	<12	<23											<3.0
4,6-Dinitro-2-methylphenol	None	None			<150	<15	<15	<30											<3.0
4-Chloro-3-methylphenol	None	None			<110	<11	<11	<22											<3.0
4-Nitrophenol	None	None			<120	<12	<12	<24											<3.0
Pentachlorophenol	1	0.1			10,000	980	10,000	2,700	<3.0	1,300	2,400	2,600			<3.0	<3.0	<3.0	<3.0	<3.0
Phenol	6000	1200			<130	<13	<13	<26											<3.0
Total Phenols			-	-	11,500	1,033	10,950	2,800	0	1,300	2,400	2,600	-	-	0	0	0	0	0

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 12/4/18
 Checked by: A. Voit 12/16/18

TABLE 4b

**2018 Summer Groundwater Monitoring Analytical Results
July 10, 11, 12, 16, 18, 19, 2018
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
Indicators																						
Total sulfate (mg/L)	250	125				14		54 M	16		9.6	11		15	23.0	19 M	21	32	20.0	19.0		15
Nitrate nitrogen (mg/L)	10	2	3.3	3.4	1.3	<0.12	3.4	2.7	4.2	<0.12	<0.12	<0.12	0.56	1.6	5.9	4.4	4.7	0.31	0.84	2.9	1.4	0.41
Total organic carbon (mg/L)	None	None				6.8		3.8	0.43		7.0	6.3		1.1	0.48	0.67	0.71	1.4	<0.40	3.2		6.1
Dissolved iron	300	150				7450		<59	<59		1350	1330		<59	<59	<59	<59	<59	<59	1210		<59
Dissolved manganese	50	25				12800 M		67.7	<2.2		3550	3340		151	<2.2	<2.2	<2.2	6.5	<2.2	469		2940
Dissolved mercury	2	0.2	0.054	0.037	0.03	<0.020	0.062 M	0.034	<0.020	<0.020	<0.020	0.024	<0.020	<0.020	0.13	<0.020	<0.020	0.032	<0.020	0.027	0.34	<0.020
TPH as mineral spirits	None	None	210 Q	2700 Q	2400 Q	4400	<31	97 Q	<31	110	1,600	1,300	<32	<31	<33	<32	<34	2400	<34	170	<34	2,600
Phenols																						
2,3,4,6-Tetrachlorophenol	None	None	3.8	47	76	34 Q	<3.0	8	<3.0	<3.0	56 Q	50 Q	2.2	4.7	<3.0	<3.0	<3.0	4.6	<3.0	25	<3.0	420 Q
2,4,5-Trichlorophenol	None	None	<3.0	<5.5	<5.5	<3.0	<3.0	<3.0	<3.0	<3.0	<11	<11	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<46
2,4,6-Trichlorophenol	None	None	<3.0	<5	<5	<3.0	<3.0	<3.0	<3.0	<3.0	<10	<10	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<42
2,4-Dichlorophenol	None	None	<3.0	<6.2	<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	<52
2,4-Dimethylphenol	None	None	<3.0	<4.8	<4.8	<3.0	<3.0	<3.0	<3.0	<3.0	<9.5	<9.5	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<40
2,4-Dinitrophenol	None	None	<3.0	<6.9	<6.9	<3.0	<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	<58
2,6-Dichlorophenol	None	None	<3.0	<5	<5	<3.0	<3.0	<3.0	<3.0	<3.0	<10	<10	<3.0	<4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<42
2-Chlorophenol	None	None	<3.0	<5.7	<5.7	<3.0	<3.0	<3.0	<3.0	<3.0	<11	<11	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<48
2-Methylphenol	None	None	<3.0	<4.8	<4.8	<3.0	<3.0	<3.0	<3.0	<3.0	<9.5	<9.5	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<40
2-Nitrophenol	None	None	<3.0	<5	<5	<3.0	<3.0	<3.0	<3.0	<3.0	<10	<10	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<42
3- and 4-Methylphenol	None	None	<3.0	<5.5	<5.5	<3.0	<3.0	<3.0	<3.0	<3.0	<11	<11	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<46
4,6-Dinitro-2-methylphenol	None	None	<3.0	<7.1	<7.1	<3.0	<3.0	<3.0	<3.0	<3.0	<14	<14	<3.0	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	<3.0	<60
4-Chloro-3-methylphenol	None	None	<3.0	<5.2	<5.2	<3.0	<3.0	<3.0	<3.0	<3.0	<10	<10	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<44
4-Nitrophenol	None	None	<3.0	<5.7	<5.7	<3.0	<3.0	<3.0	<3.0	<3.0	<11	<11	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<48
Pentachlorophenol	1	0.1	40	750	1100	500	7	97	<3.0	2.5	1,200	1,100	40	120	<3.0	2.7	<3.0	99	<3.0	180	<3.0	5200
Phenol	6000	1200	<3.0	<6.2	<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	<52
Total Phenols			43.8	797	1176	534	7	105	0	2.5	1256	1150	42.2	124.7	0	2.7	0	103.6	0	205	0	5620
Volatile Organics																						
1,2,4-Trimethylbenzene	480 A	96 A	16	1000	970	440	<0.40	14	<0.40	<0.40	500	490	<0.40	<0.40	<0.40	<0.40	<0.40	36	<0.40	31	<0.40	540
Naphthalene	100	10	1.9	100	100	11	<0.90	2.4	<0.90	1.5	28	29	<0.90	<0.90	<0.90	<0.90	<0.90	4	<0.90	2	<0.90	69
m & p-Xylene	10000C	1000C	<0.80	24	23	<8	<0.80	<0.80	<0.80	<0.80	29	29	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	0.87	<0.80	30
o-Xylene	10000C	1000C	2.4	110	100	25	<0.40	11	<0.40	<0.40	97	93	<0.40	<0.40	<0.40	<0.40	<0.40	6.6	<0.40	8.3	<0.40	130
Total VOCs			20.3	1234	1193	476	0	27.4	0	1.5	654	641	0	0	0	0	0	46.6	0	42.17	0	769

TABLE 4b

2018 Summer Groundwater Monitoring Analytical Results
July 10, 11, 12, 16, 18, 19, 2018
Wauleco, Inc. - Wausau Facility
Wausau, Wisconsin

Sample ID	ES	PAL	W25	W26	W27	W28	W29	W29 Duplicate	W32	W33	W36	W39	W40	W41	FP02	PW17	Field Blank 01	DFOMW5	DFOMW11	DFOMW12	DFOMW12 Duplicate	W71	W72	W73	W74
Indicators																									
Total sulfate (mg/L)	250	125		31	43	11	13	13		14			7.9 M	9.7	2.9	13	<0.80							22	
Nitrate nitrogen (mg/L)	10	2	5.8	1.9	0.13	1.2	0.13	0.14	<0.12	<0.12	6.7	<0.12	<0.12	0.15			<0.12								
Total organic carbon (mg/L)	None	None		1.2	33	<0.40	2.5	1.8					37	26.0	7.3	5.2	<0.40							1.5	
Dissolved iron	300	150		<59	5040	<59	<59	<59		847			4540	6930	16800	3600	731							<59	
Dissolved manganese	50	25		<2.2	15300	<2.2	6.2	5.5		1550			5680	14600	9500	3630	2100							22.4	
Dissolved mercury	2	0.2	<0.020	<0.020	<0.020	<0.020	0.022	<0.020	<0.020	<0.020	<0.020	0.062	<0.020	<0.020			<0.020								
TPH as mineral spirits	None	None	<33	<33 Q	4600	<32	<32	<33	<34	7,400	<33 Q	2000 Q	300,000	1,300	2,700 Q	1,100 Q	<33 Q	290				<34	<34	<31	<34
Phenols																									
2,3,4,6-Tetrachlorophenol	None	None	0.41	0.99	520 Q	<3.0	68 Q	80 Q	<3.0	430 Q	2.8	26	900 Q	100 Q			<3.0								
2,4,5-Trichlorophenol	None	None	<3.0	<3.0	<22	<3.0	<23	<12	<3.0	<11	<3.0	<11	<59	<23			<3.0								
2,4,6-Trichlorophenol	None	None	<3.0	<3.0	<20	<3.0	<21	<11	<3.0	<10	<3.0	<10	<54	<21			<3.0								
2,4-Dichlorophenol	None	None	<3.0	<3.0	<25	<3.0	<26	<13	<3.0	<12	<3.0	<12	<66	<26			<3.0								
2,4-Dimethylphenol	None	None	<3.0	<3.0	<19	<3.0	<20	<10	<3.0	<9.5	<3.0	<9.5	<51	<20			<3.0								
2,4-Dinitrophenol	None	None	<3.0	<3.0	<28	<3.0	<29	<15	<3.0	<14	<3.0	<14	<74	<29			<3.0								
2,6-Dichlorophenol	None	None	<3.0	<3.0	<20	<3.0	<21	<11	<3.0	<10	<3.0	<10	<54	<21			<3.0								
2-Chlorophenol	None	None	<3.0	<3.0	<23	<3.0	<24	<12	<3.0	<11	<3.0	<11	<61	<24			<3.0								
2-Methylphenol	None	None	<3.0	<3.0	<19	<3.0	<20	<10	<3.0	<9.5	<3.0	<9.5	<51	<20			<3.0								
2-Nitrophenol	None	None	<3.0	<3.0	<20	<3.0	<21	<11	<3.0	<10	<3.0	<10	<54	<21			<3.0								
3- and 4-Methylphenol	None	None	<3.0	<3.0	<22	<3.0	<23	<12	<3.0	<11	<3.0	<11	<59	<23			<3.0								
4,6-Dinitro-2-methylphenol	None	None	<3.0	<3.0	<29	<3.0	<30	<15	<3.0	<14	<3.0	<14	<77	<30			<3.0								
4-Chloro-3-methylphenol	None	None	<3.0	<3.0	<21	<3.0	<22	<11	<3.0	<10	<3.0	<10	<56	<22			<3.0								
4-Nitrophenol	None	None	<3.0	<3.0	<23	<3.0	<24	<12	<3.0	<11	<3.0	<11	<61	<24			<3.0								
Pentachlorophenol	1	0.1	8	4.5	5,200	2.5	1,100	1,100	<3.0	2,800	29	620	9,600	2,900			<3.0	2.6	4,100	2,300	1,700	<3.0	<3.0	<3.0	<3.0
Phenol	6000	1200	<3.0	<3.0	<25	<3.0	<26	<13	<3.0	<12	<3.0	<12	<66	<26			<3.0								
Total Phenols			8.41	5.49	5720	2.5	1168	1180	0	3230	33	646	10,500	3,000			0	2.6	4100	2300	1700	0	0	0	0
Volatile Organics																									
1,2,4-Trimethylbenzene	480 A	96 A	<0.40	<0.40	720	<0.40	<0.40	<0.40	<0.40	170	<0.40	100	4400	220			<0.40	<0.40				<0.40	<0.40	<0.40	<0.40
Naphthalene	100	10	<0.90	<0.90	94	<0.90	<0.90	<0.90	<0.90	8.3	<0.90	14	580	40			<0.90	5.8			<0.90	<0.90	<0.90	<0.90	
m & p-Xylene	10000C	1000C	<0.80	<0.80	39	<0.80	<0.80	<0.80	<0.80	4.1	<0.80	<4.0	100	6			<0.80	<0.80			<0.80	<0.80	<0.80	<0.80	
o-Xylene	10000C	1000C	<0.40	<0.40	92	<0.40	<0.40	<0.40	<0.40	38	<0.40	15	790	50			<0.40	<0.40			<0.40	<0.40	<0.40	<0.40	
Total VOCs			0	0	945	0	0	0	0	220	0	129	5870	316			0	5.8			0	0	0	0	

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).
 Q = laboratory control sample outside acceptance limits.
 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 12/4/18
 Checked by: A. Voit 12/16/18

TABLE 5

**2018 Groundwater Treatment Removal of Pentachlorophenol (PCP)
Wauleco, Inc.
Wausau, Wisconsin**

Year	Month	Avg Extracted GPM ⁽¹⁾	Total Gallons ⁽¹⁾	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)
2018	January	22.03	983,450	4,875	5,077	3,059	4,298		4,327	1.10
	February	21.94	884,549	3,529	2,454	4,372	2,464	2,964	3,157	1.04
	March	21.79	972,625	3,098	3,856	4,917	3,309		3,795	2.84
	April	21.70	937,474	3,323	4,665	3,006	3,889		3,721	1.97
	May	24.14	1,077,428	3,961	4,703	4,934	4,409		4,502	4.06
	June	22.86	987,607	5,474	6,219	3,647	4,433	4,491	4,853	1.33
	July	22.84	1,019,483	4,902	3,339	4,672	3,803		4,179	1.27
	August	22.4	999,969	4,239	3,023	3,018	3,744	3,542	3,513	1.42
	September	22.09	954,250	4,104	6,184	5,622	6,164		5,519	1.70
	October	23.52	1,050,110	5,957	6,016	3,534	2,061		4,392	4.65
	November	22.20	958,925	8,716	6,720	4,264	5,634	10,630	7,193	10.21
	December	25.41	1,134,198	4,744	3,059	3,329	4,790		3,981	12.06
Total Discharged to POTW			11,960,068 gallons	Annual Average					4,428	3.64

Total for Year 2018 11,960,068 gallons

Pounds of PCP treated =	442 pounds
-------------------------	------------

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:

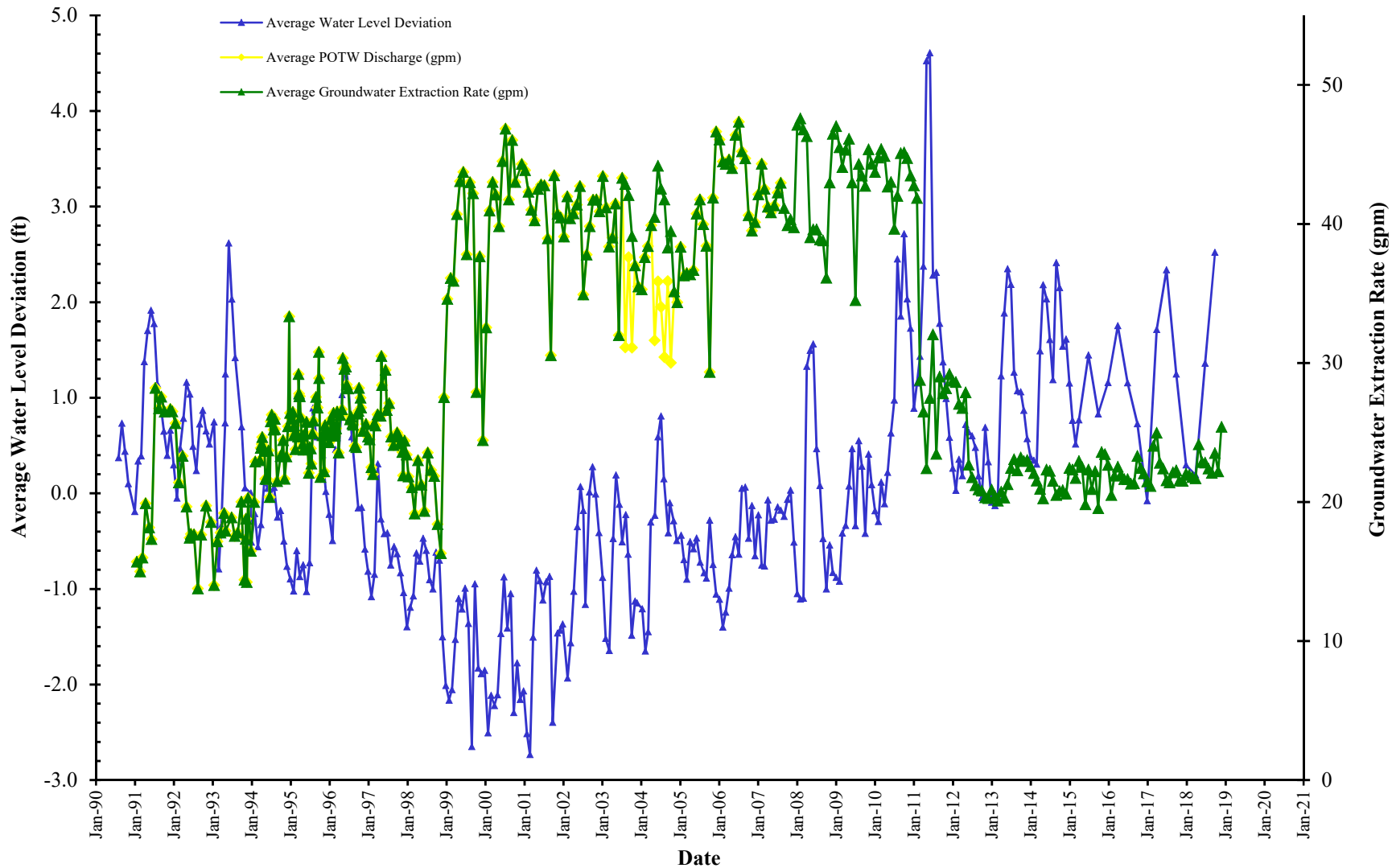
(1) Values from Table 2 of Quarterly Reports.

Prepared by: T. Dushek, 1/8/2018

Checked by: K. Quinn 2/19/2019

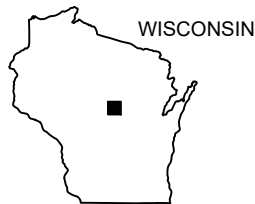
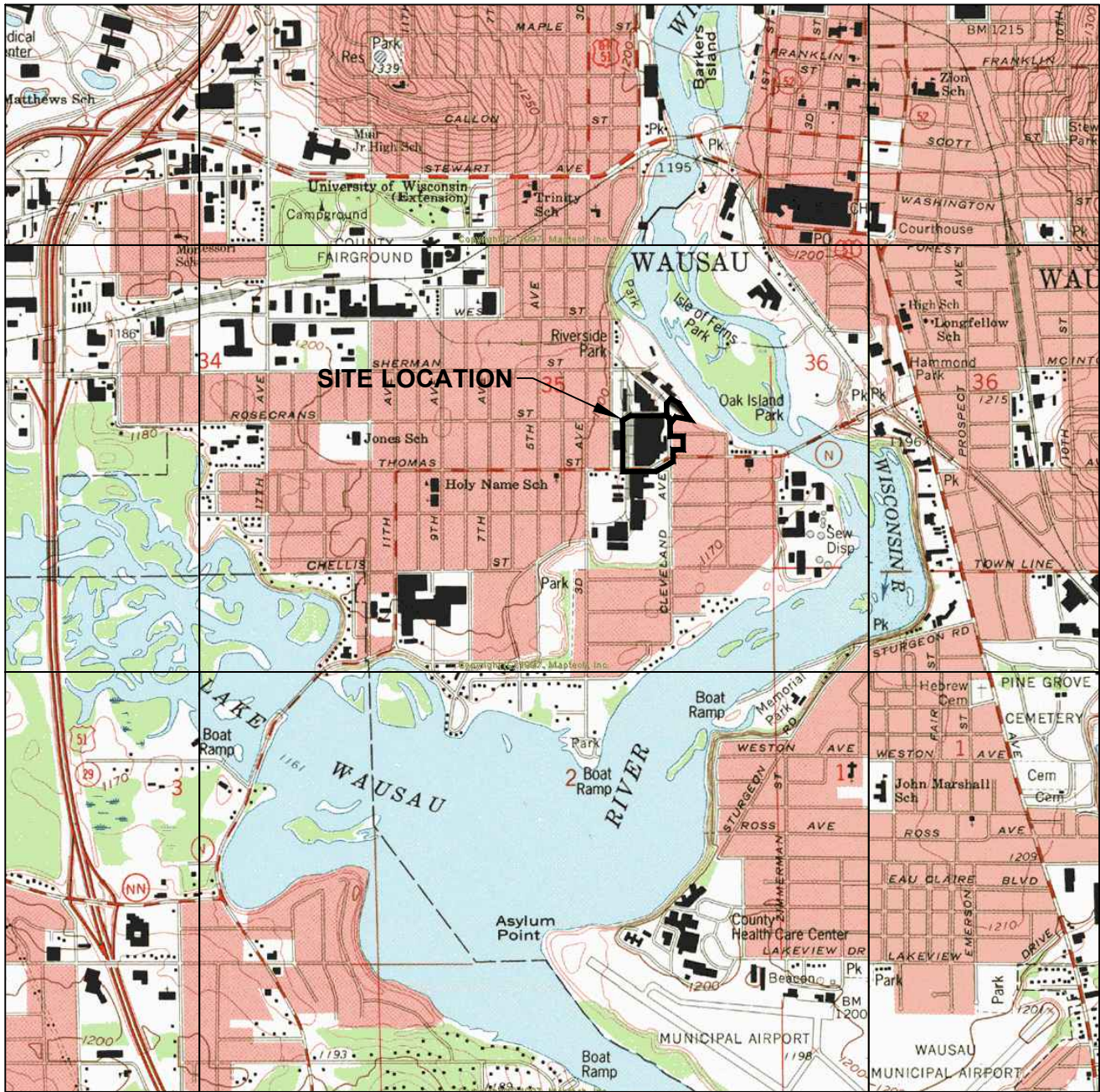
FIGURE 1

**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.

8.541 - USER: K304 - ATTACHED IMAGES: 0-EC, 0-BN, 0-ES, 0-VC, 0-WN, 0-WS, 0-EC, 0-EN, 0-ES: DRAWING NAME: J:\Wauleco\189597 - Annual\2019\0008\189597.0008.01.dwg -- PLOT DATE: March 22, 2019 - 8:25AM -- LAYOUT: DRAWING 1 SITE LOCATION MAP



QUADRANGLE LOCATION

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



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

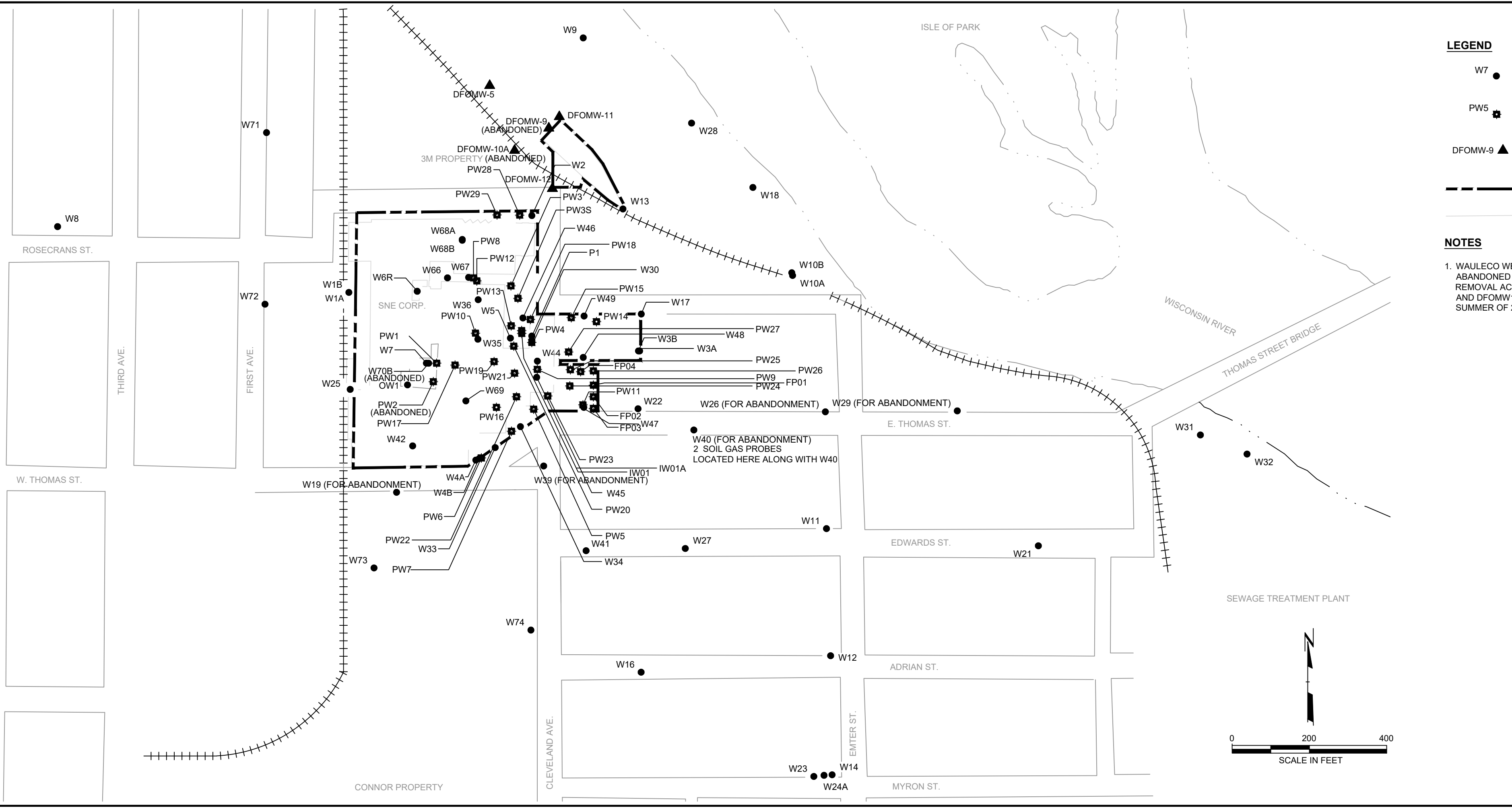
PROJECT: **WAULECO, INC.**
ANNUAL GROUNDWATER MONITORING REPORT
WAUSAU, WISCONSIN

TITLE: **SITE LOCATION MAP**

DRAWN BY:	B. YUNUSOV
CHECKED BY:	K. QUINN
APPROVED BY:	B. IVERSON
DATE:	MARCH 2019
PROJ. NO.:	189597 - ANNUAL REPORT
FILE:	189597.0008.01.dwg

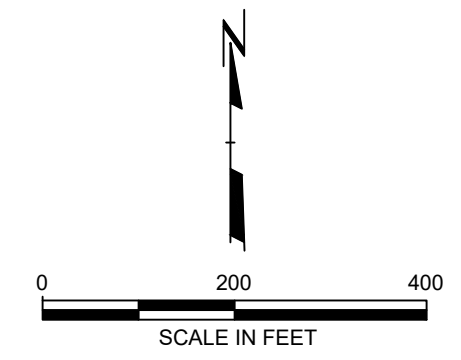
DRAWING 1

T:\04 - USER KQIN - ATTACHED REFS - ATTACHED IMAGES -
 DRAWING NAME: J:\WAU\189597 - Annual 2019\0008 - Annual 2019\0008 - 189597.0008.02.dwg - PLOT DATE: March 22, 2019 - 8:25AM - LAYOUT: DRAWING 2 SITE FEATURES MAP
 Version: 2017-10-21



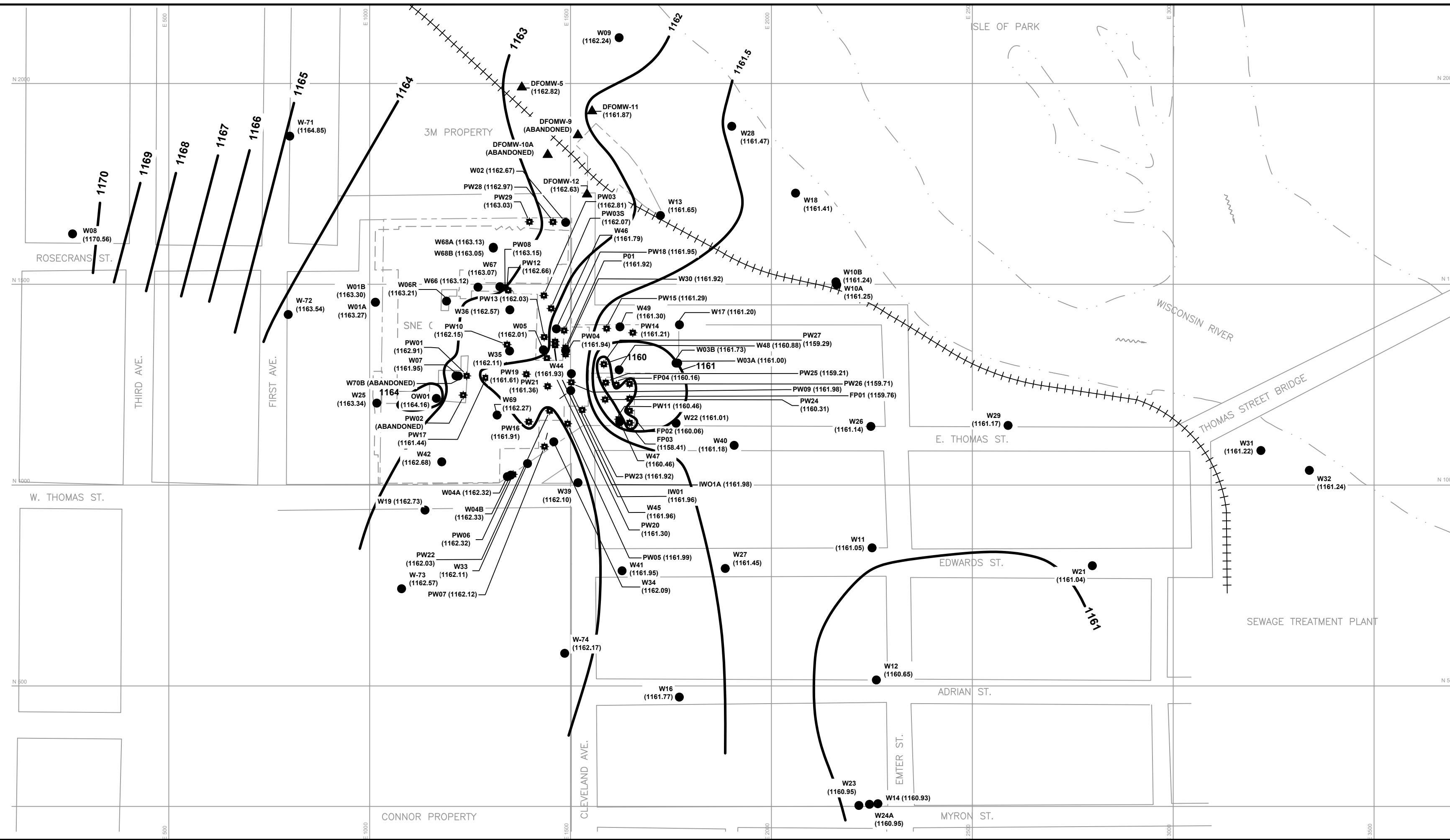
- LEGEND**
- W7 ● MONITORING WELL LOCATION AND NUMBER
 - PW5 ■ EXTRACTION WELL LOCATION AND NUMBER
 - DFOMW-9 ▲ (3M) GROUNDWATER MONITORING WELL AND NUMBER
 - APPROXIMATE PROPERTY LINE
 - FORMER BUILDING OUTLINE

- NOTES**
1. 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.



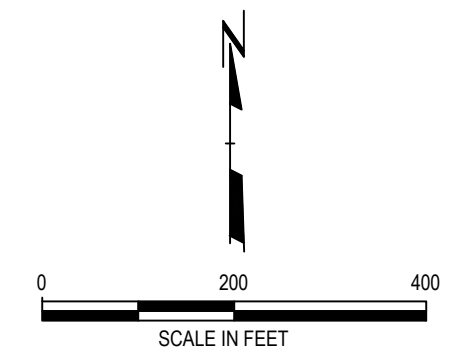
PROJECT:		WAULECO, INC.	
		ANNUAL GROUNDWATER MONITORING REPORT	
		WAUSAU, WISCONSIN	
TITLE:			
SITE FEATURES MAP			
DRAWN BY:	B. YUNUSOV	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN		
APPROVED BY:	B. IVERSON	DRAWING 2	
DATE:	MARCH 2019		
FILE NO.:		189597.0008.02.dwg	
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600	

T:\04 - USER KCOB - ATTACHED REFS - Borehole - January 2018.dwg --- PLOT DATE: March 22, 2019 - 8:25AM --- LAYOUT: DRAWING3.WATER TABLE MAP JANUARY 8, 2018
 DRAWING NAME: J:\Wauleco\189597 - Annual 2019\0008189597.dwg
 Version: 2017-10-21



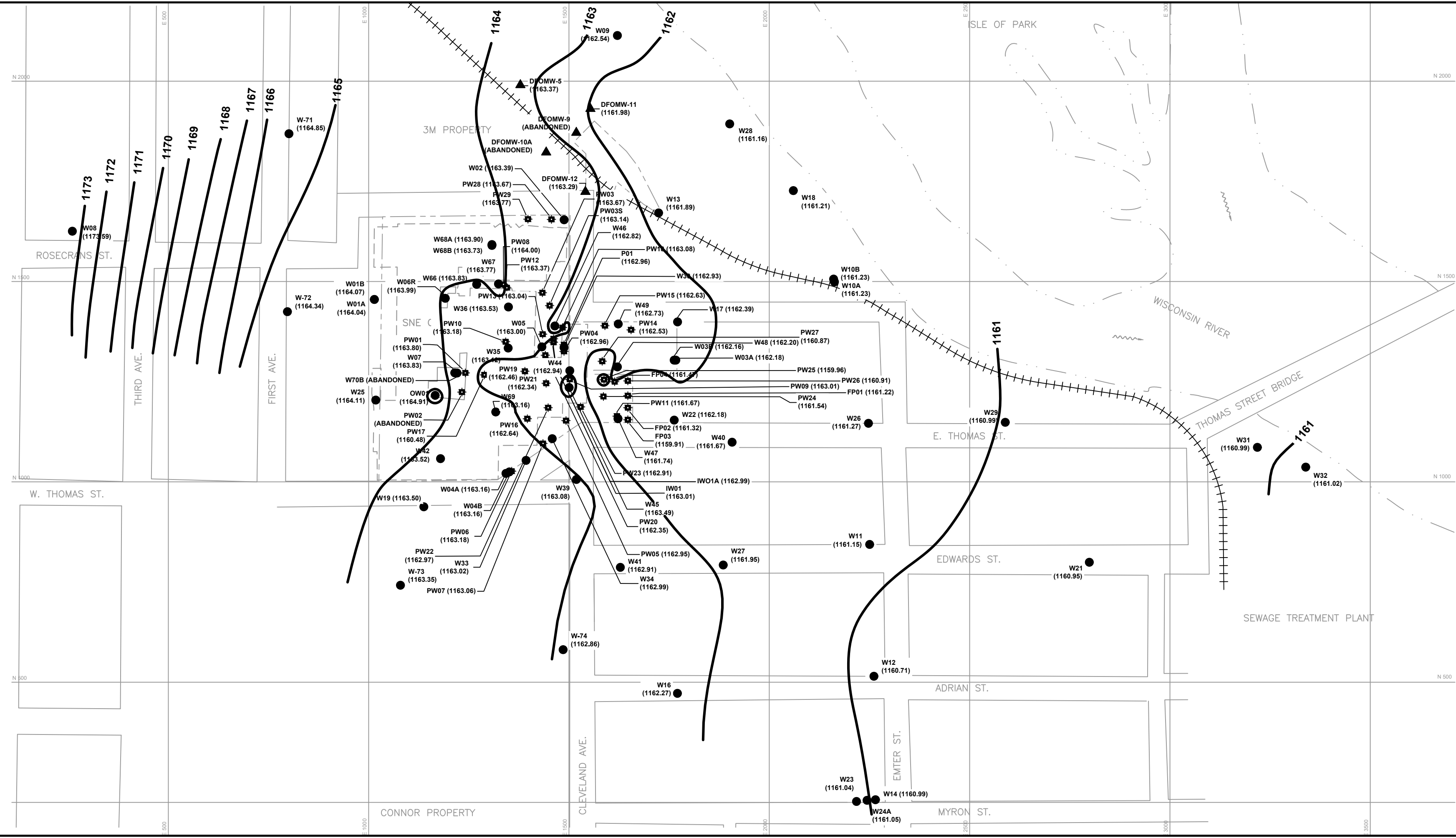
- LEGEND**
- W17 ● (1161.34) MONITORING WELL LOCATION, NUMBER AND WATER TABLE ELEVATION
 - PW12 ■ (1162.34) EXTRACTION WELL LOCATION, NUMBER AND WATER TABLE ELEVATION
 - APPROXIMATE PROPERTY LINE
 - - - FORMER BUILDING OUTLINE
 - 1161 — WATER TABLE ELEVATION CONTOUR. CONTOUR INTERVAL VARIES (DASHED WHERE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

- NOTES**
- 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 8, 2018. ON THIS DATE, THE PUMPING RATE OF THE GROUNDWATER EXTRACTION SYSTEM WAS APPROXIMATELY 22.08 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.
 - WELLS W07 AND W03B WERE NOT USED IN WATER LEVEL CONTOURING.



PROJECT:		WAULECO, INC.	
		ANNUAL GROUNDWATER MONITORING REPORT	
		WAUSAU, WISCONSIN	
TITLE:			
WATER TABLE MAP JANUARY 8, 2018			
DRAWN BY:	B. YUNUSOV	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	DRAWING 3	
APPROVED BY:	B. IVERSON		
DATE:	MARCH 2019		
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600	
FILE NO.:		189597.0008.03.dwg	

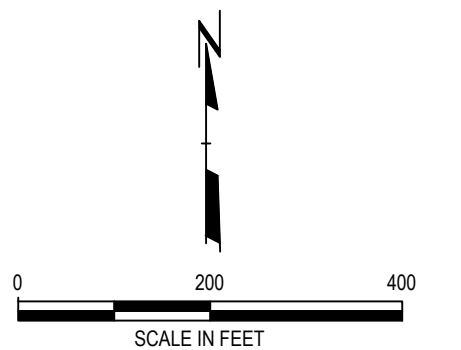
1164 - USER: KQ - ATTACHED REFS: B:\proj\189597 - Annual 2019\0008-04.dwg - PLOT DATE: March 22, 2019 - 8:51 AM - LAYOUT: DRAWING 4 - WATER TABLE MAP JULY 9, 2018
 DRAWING NAME: J:\WAULECO\189597 - Annual 2019\0008-04.dwg
 Version: 2017-10-21



LEGEND

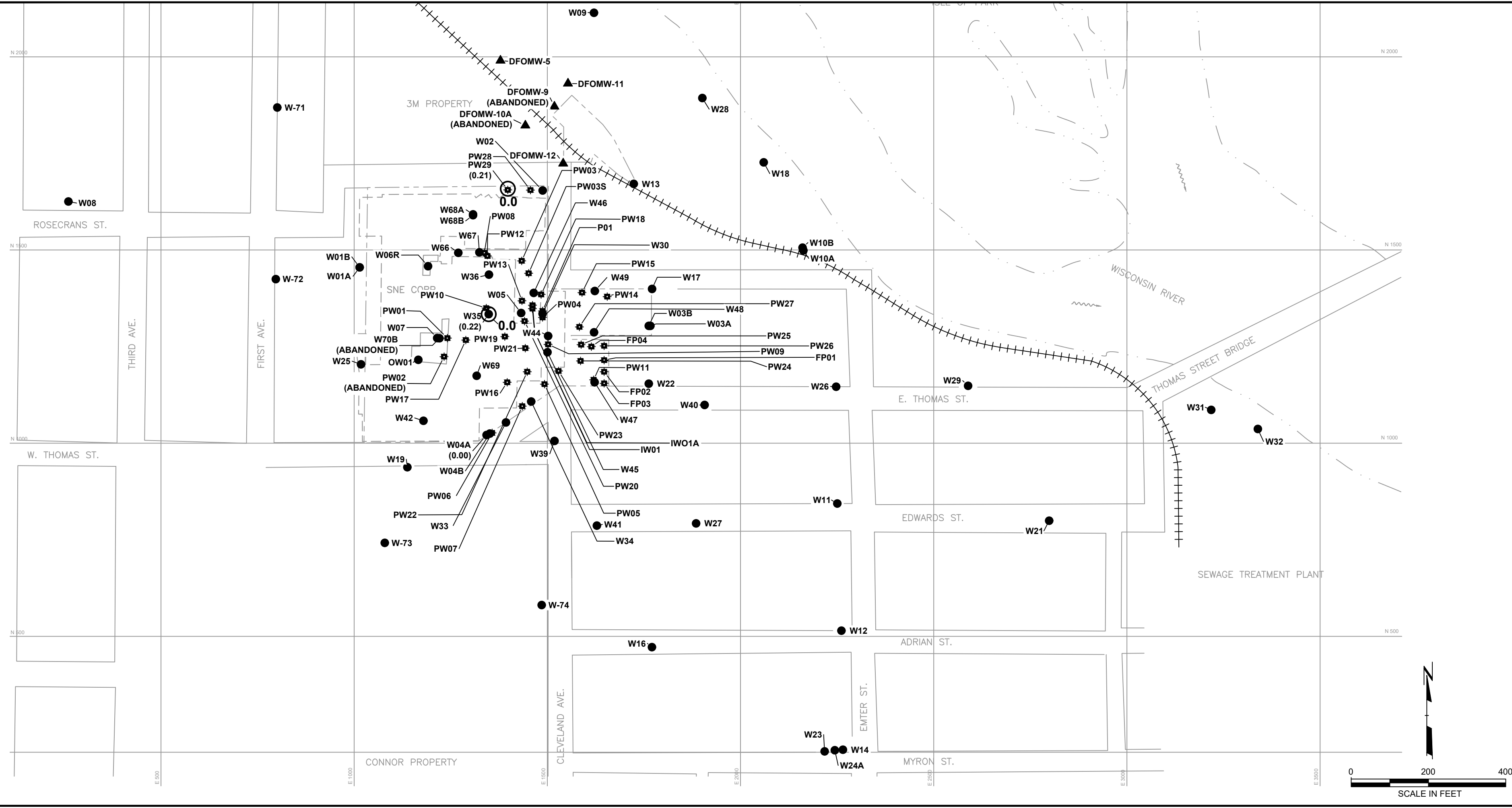
- W17 ● (1161.34) MONITORING WELL LOCATION, NUMBER AND WATER TABLE ELEVATION
- PW12 ■ (1162.34) EXTRACTION WELL LOCATION, NUMBER AND WATER TABLE ELEVATION
- APPROXIMATE PROPERTY LINE
- - - FORMER BUILDING OUTLINE
- 1161 — WATER TABLE ELEVATION CONTOUR. CONTOUR INTERVAL VARIES (DASHED WHERE INFERRED)
- 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 9, 2018. ON THIS DATE, THE PUMPING RATE OF THE GROUNDWATER EXTRACTION SYSTEM WAS APPROXIMATELY 22.5 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.
 4. WELLS W07 AND W03B WERE NOT USED IN WATER LEVEL CONTOURING.



PROJECT:		WAULECO, INC.	
ANNUAL GROUNDWATER MONITORING REPORT		WAUSAU, WISCONSIN	
TITLE:			
WATER TABLE MAP JULY 9, 2018			
DRAWN BY:	B. YUNUSOV	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	DRAWING 4	
APPROVED BY:	B. IVERSON		
DATE:	MARCH 2019		
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600	
FILE NO.:		189597.0008.04.dwg	

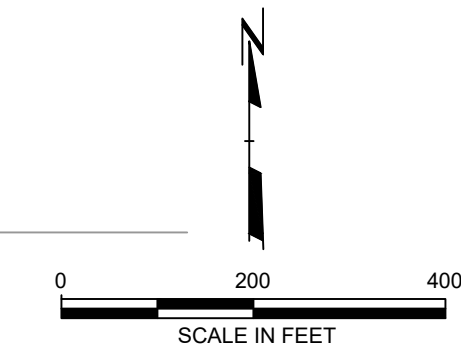
T:\04 - USER KQ... ATTACHED XREFS: ... ATTACHED IMAGES: ...
 DRAWING NAME: J:\Wauleco\189597 - Annual 2019\0008 189597.0008.05.dwg -- PLOT DATE: March 22, 2019 - 8:25AM -- LAYOUT: DRAWING 5 PRODUCT (OIL) THICKNESS MAP (JANUARY 8 2018)
 Version: 2017-10-21



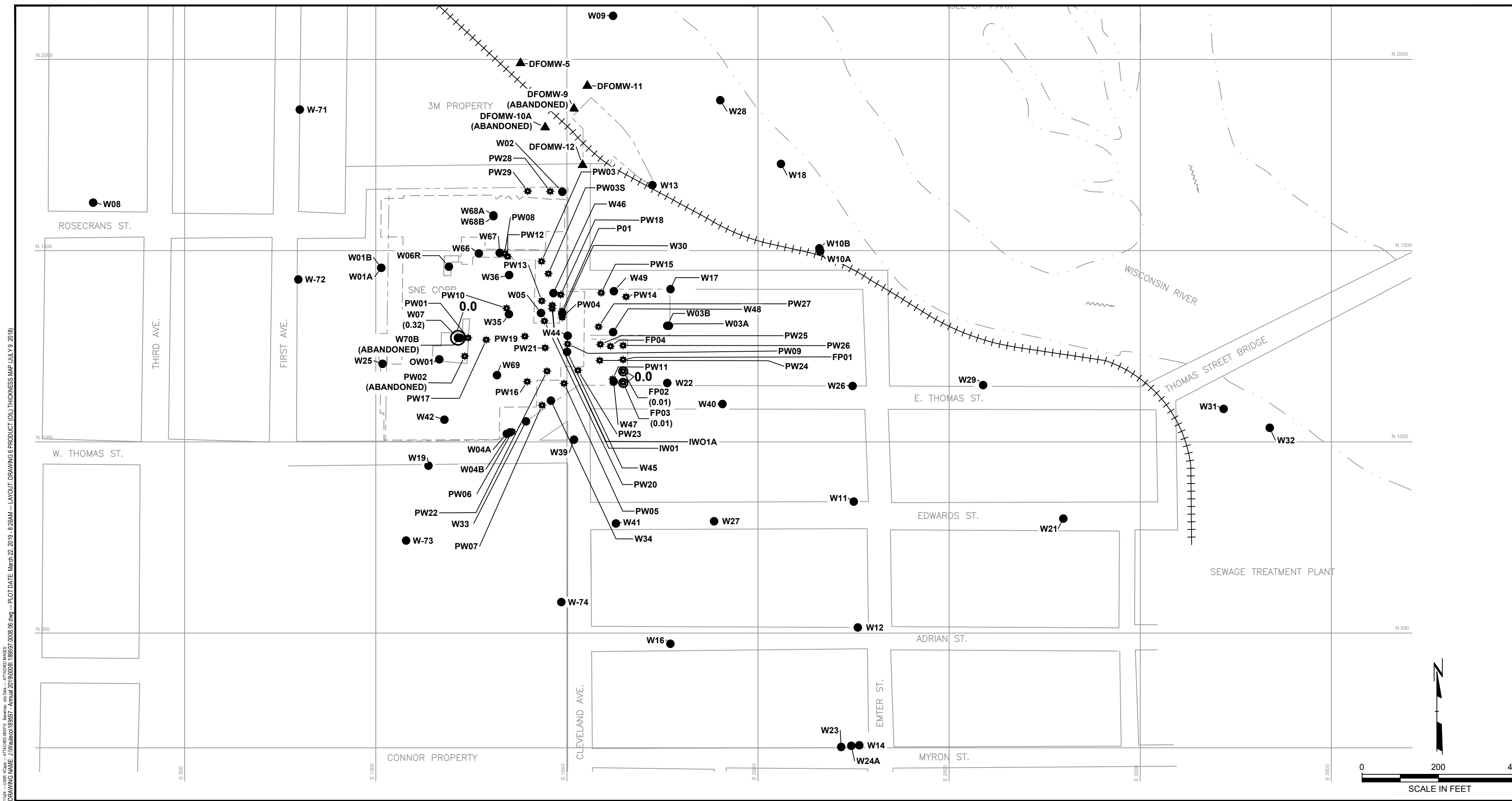
LEGEND

- W17 (1.9) ● 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
- 0.00- - 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 JANUARY 8, 2018.
 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. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.



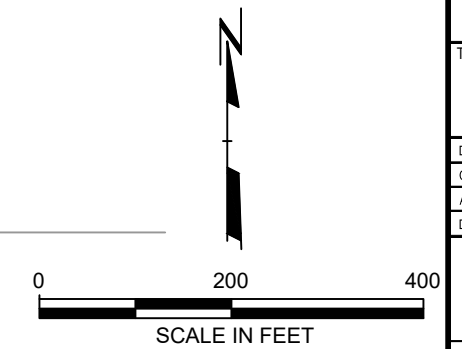
PROJECT:		WAULECO, INC.
ANNUAL GROUNDWATER MONITORING REPORT		WAUSAU, WISCONSIN
TITLE:		PRODUCT (OIL) THICKNESS MAP
(JANUARY 8, 2018)		
DRAWN BY:	B. YUNUSOV	PROJ NO.: 189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	
APPROVED BY:	B. IVERSON	DRAWING 5
DATE:	MARCH 2019	
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600
FILE NO.:		189597.0008.05.dwg



LEGEND

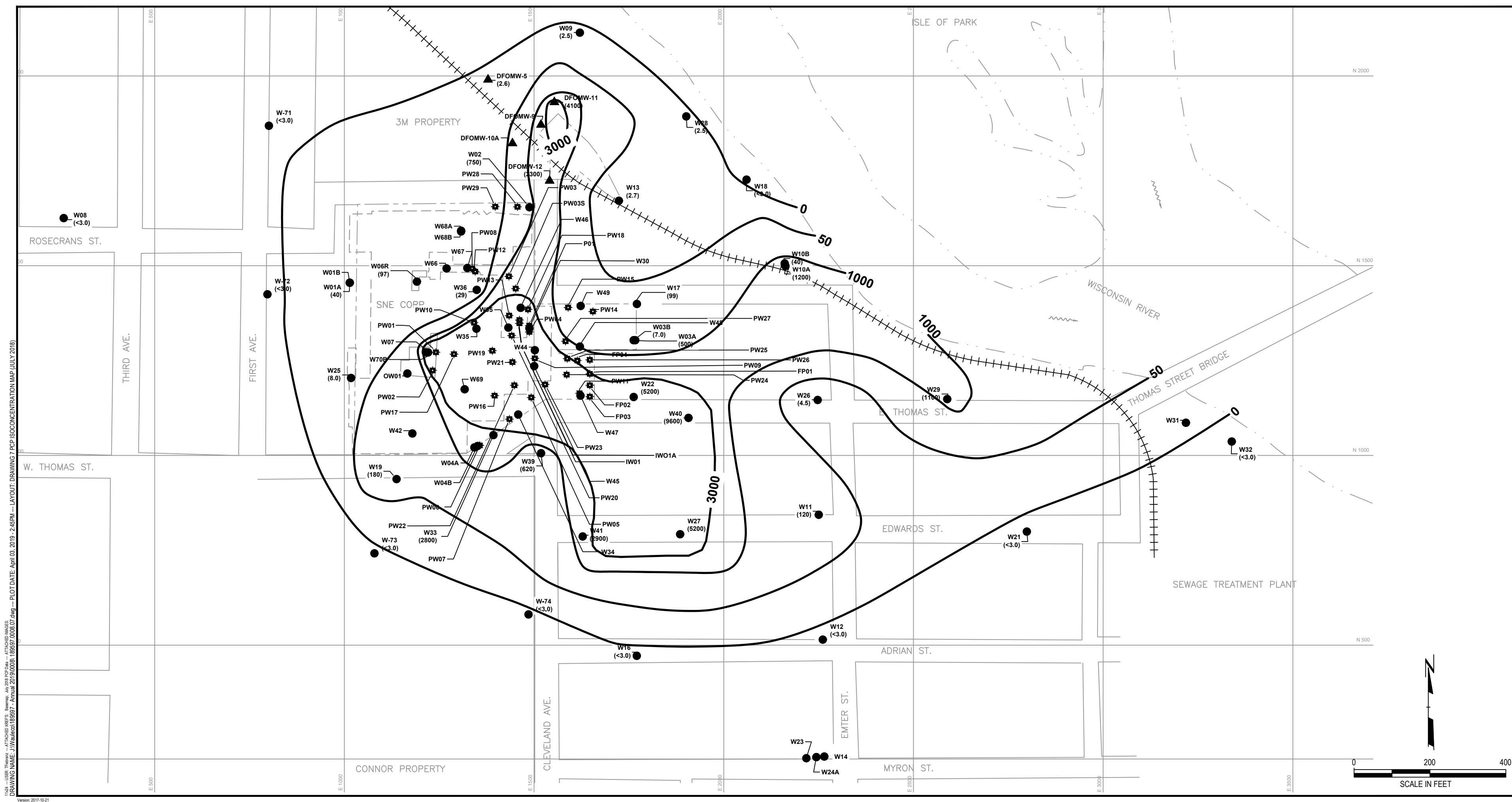
● W17 (0.00)	MONITORING WELL LOCATION AND PCP CONCENTRATION (ug/L)
⊛ PW12 (0.00)	EXTRACTION WELL LOCATION AND NUMBER
▲ DFOMW-5	3M GROUNDWATER MONITORING WELL
---	APPROXIMATE PROPERTY LINE
---	FORMER BUILDING OUTLINE
— 0.0 —	APPARENT PRODUCT THICKNESS CONTOUR (DASHED WHERE INFERRED)

- 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 9, 2018.
 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. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.



PROJECT:		WAULECO, INC.	
		ANNUAL GROUNDWATER MONITORING REPORT	
		WAUSAU, WISCONSIN	
TITLE:		PRODUCT (OIL) THICKNESS MAP	
		(JULY 9, 2018)	
DRAWN BY:	B. YUNUSOV	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	DRAWING 6	
APPROVED BY:	B. IVERSON		
DATE:	MARCH 2019		
FILE NO.:		189597.0008.06.dwg	

T:\04 - USER KQIN - ATTACHED REFS - Boremap - July Data - ATTACHED IMAGES -
 DRAWING NAME - J:\Wauleco\189597 - Annual 2018\0008 - Annual 2018\0008.06.dwg - PLOT DATE: March 22, 2019 - 8:26AM - LAYOUT: DRAWING 6 PRODUCT (OIL) THICKNESS MAP (JULY 9, 2018)
 Version: 2017-10-21



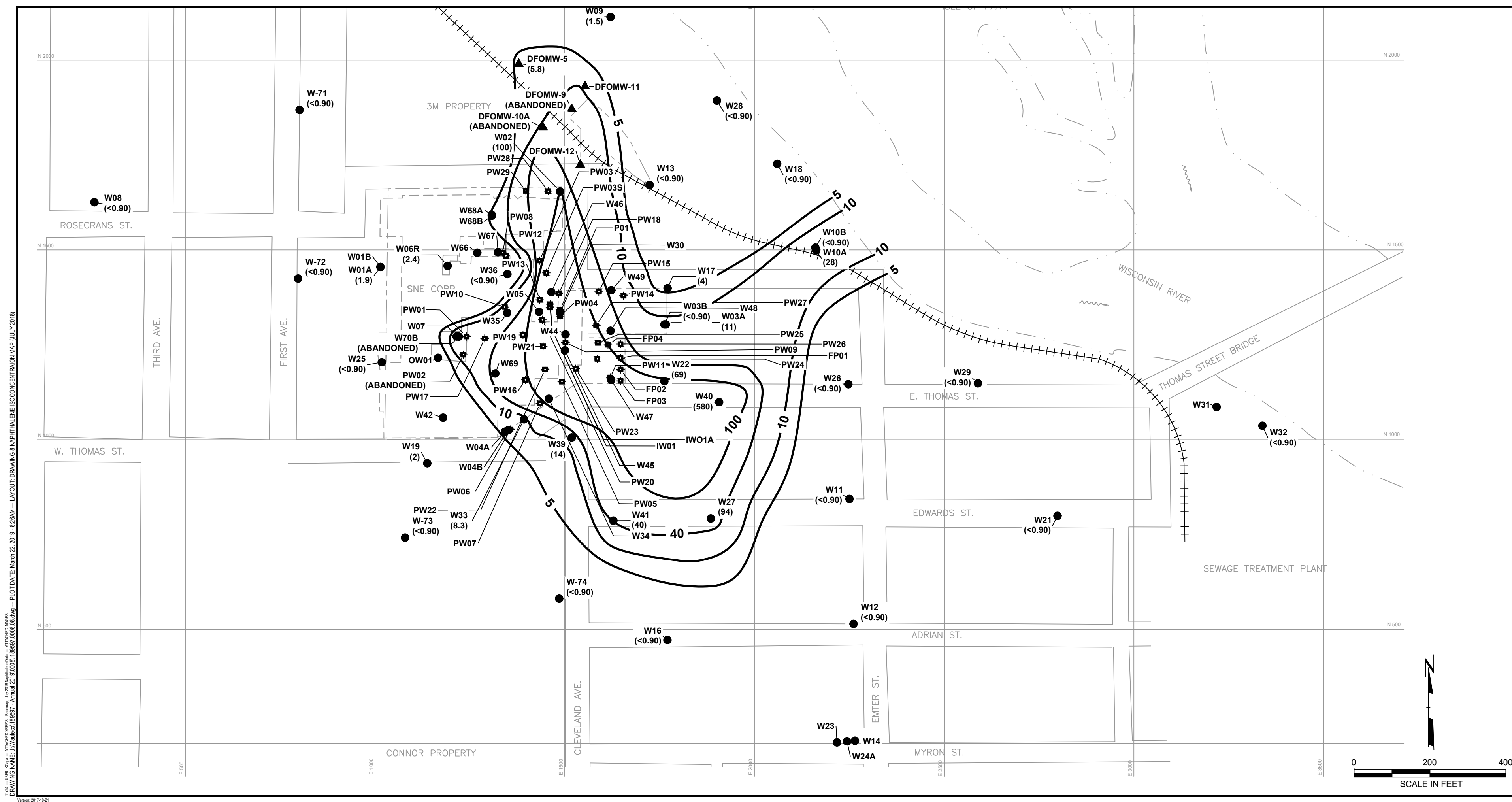
LEGEND

- W17 (1.9) ● 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 10-12, 16, 18, 19, 2018.
 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. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.

NO.	BY	DATE	REVISION	APPD.
PROJECT:				
WAULECO, INC.				
ANNUAL GROUNDWATER MONITORING REPORT				
WAUSAU, WISCONSIN				
TITLE:				
PCP ISOCONCENTRATION MAP				
(JULY 2018)				
DRAWN BY:	B. YUNUSOV	PROJ NO.:	189597 - ANNUAL REPORT	
CHECKED BY:	K. QUINN	DRAWING 7		
APPROVED BY:	B. IVERSON			
DATE:	MARCH 2019			
708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600				
FILE NO.: 189597.0008.07.dwg				

1104 - USER: TROBERT - ATTACHED XREF'S: B:\wms\189597-Annual 2018\DWG\189597.0008.07.dwg - PLOT DATE: April 03, 2019 - 2:45PM - LAYOUT: DRAWING 7 PCP ISOCONCENTRATION MAP (JULY 2018)
 Version: 2017.10.21

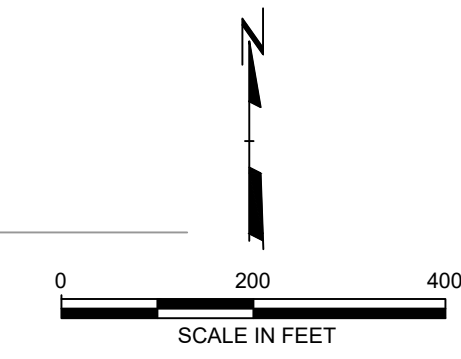


LEGEND

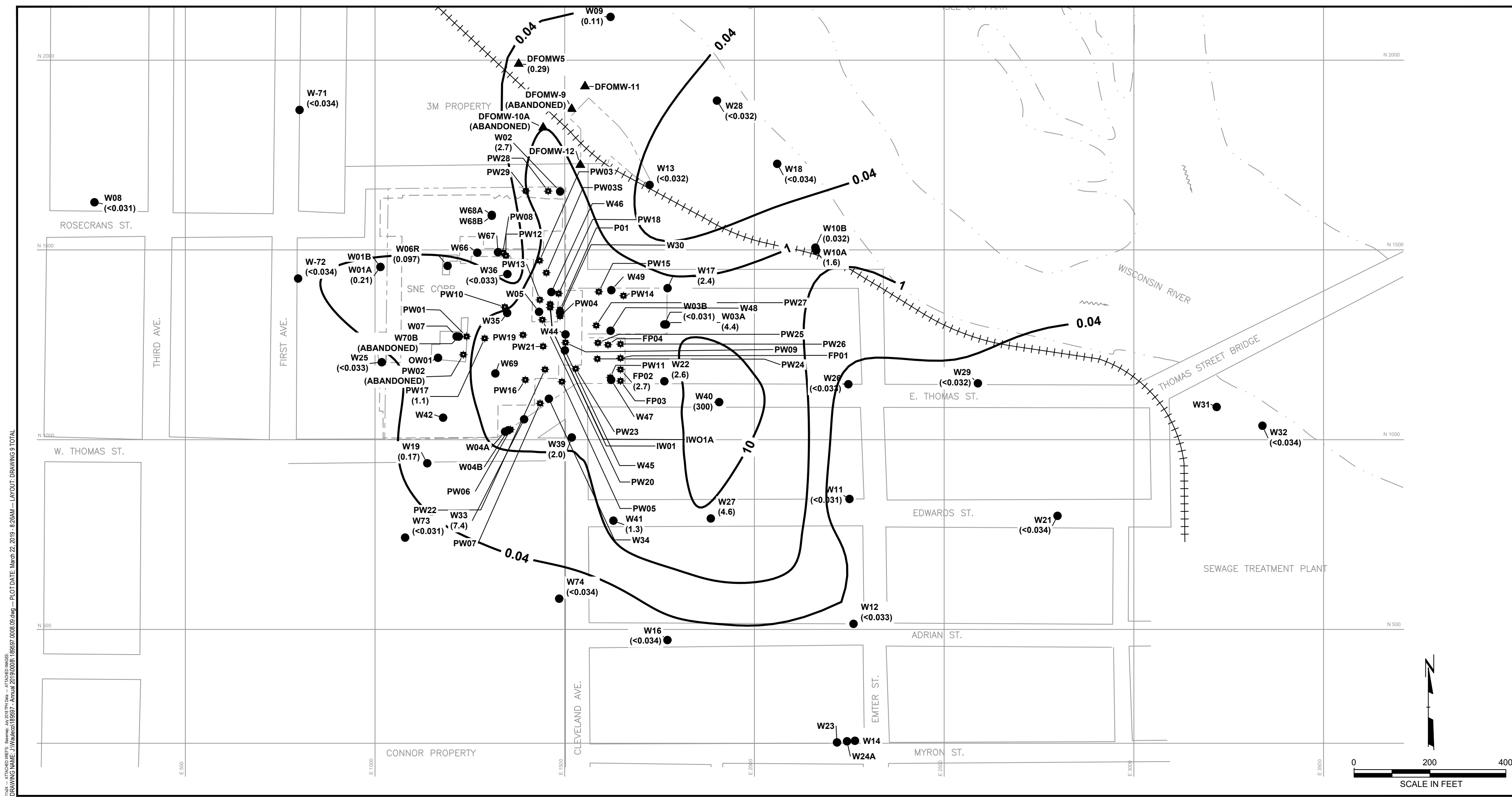
● W17 (3.4)	MONITORING WELL LOCATION AND NAPHTHALENE CONCENTRATION (ug/L)
✱ PW12	EXTRACTION WELL LOCATION AND NUMBER
▲ DFOMW-5	3M GROUNDWATER MONITORING WELL
---	APPROXIMATE PROPERTY LINE
- - -	FORMER BUILDING OUTLINE
— 40 —	NAPHTHALENE ISOCONCENTRATION CONTOUR INTERVAL VARIES (DASHED WHERE INFERRED)

- ### 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, 12, 16, 18, 19, 2018.
 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. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.

PROJECT:		WAULECO, INC.	
		ANNUAL GROUNDWATER MONITORING REPORT	
		WAUSAU, WISCONSIN	
TITLE:			
NAPHTHALENE ISOCONCENTRATION MAP			
(JULY 2018)			
DRAWN BY:	B. YUNUSOV	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	DRAWING 8	
APPROVED BY:	B. IVERSON		
DATE:	MARCH 2019		
DRAWING NAME: J:\Wauleco\189597 - Annual 2018\0008189597.dwg		808 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600	
FILE NO.:		189597.0008.08.dwg	



T:\04 - USER KQ - ATTACHED REFS - Wauleco - July 2018\0008189597.dwg - LAYOUT - DRAWING 8 NAPHTHALENE ISOCONCENTRATION MAP (JULY 2018)
 DRAWING NAME: J:\Wauleco\189597 - Annual 2018\0008189597.dwg
 PLOT DATE: March 22, 2019 - 8:26AM - LAYOUT - DRAWING 8 NAPHTHALENE ISOCONCENTRATION MAP (JULY 2018)
 Version: 2017-10-21

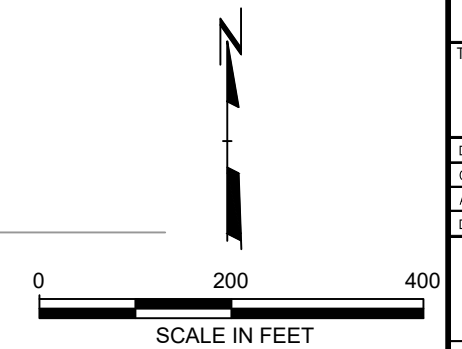


LEGEND

- 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, 12, 16, 18, 19, 2018.
 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. 3M WELLS DFOMW9 AND DFOMW10A WERE ABANDONED BY 3M IN THE SUMMER OF 2015.

I:\04 - ATTACHED FILES - Bureau - July 2018 TPH Data - ATTACHED IMAGES -
 DRAWING NAME: J:\Wauleco\189597 - Annual 2018\0008189597 - Annual 2018\0008189597.dwg -- PLOT DATE: March 22, 2019 - 8:26AM -- LAYOUT: DRAWING 9 TOTAL

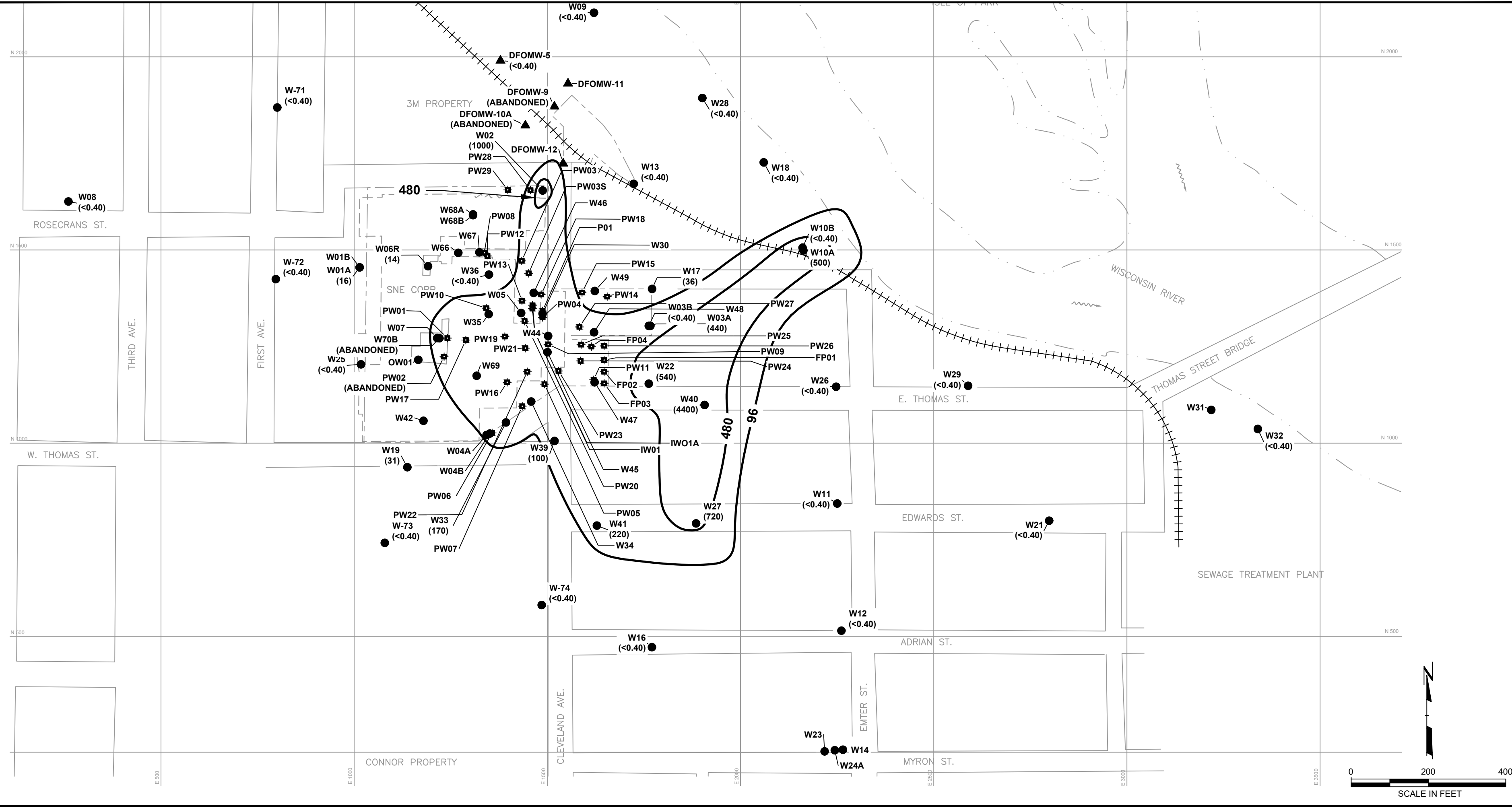


PROJECT:		WAULECO, INC.	
		ANNUAL GROUNDWATER MONITORING REPORT	
		WAUSAU, WISCONSIN	
TITLE: TOTAL PETROLEUM HYDROCARBONS (TPH) AS MINERAL SPIRITS ISOCONCENTRATION MAP (JULY 2018)			
DRAWN BY:	B. YUNUSOV	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	DRAWING 9	
APPROVED BY:	B. IVERSON		
DATE:	MARCH 2019		
850		9500	
CONCOR PROPERTY		SEWAGE TREATMENT PLANT	

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

FILE NO.: 189597.0008.09.dwg

1164 - ATTACHED XREFS: Baume: Jul 2018 TRIMETHYLBENZENE Data - ATTACHED MAPS
 DRAWING NAME: J:\Wauleco\189597 - Annual 2019\0008-189597.dwg - PLOT DATE: March 22, 2019 - 8:27AM - LAYOUT: 1,2,4 TRIMETHYLBENZENE ISOCONCENTRATION MAP (JULY 2018)

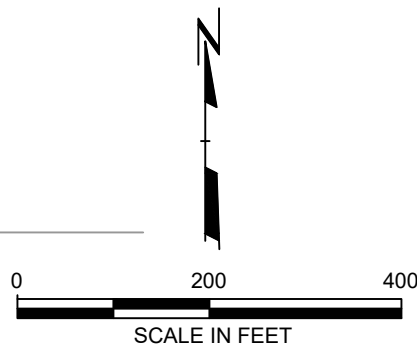


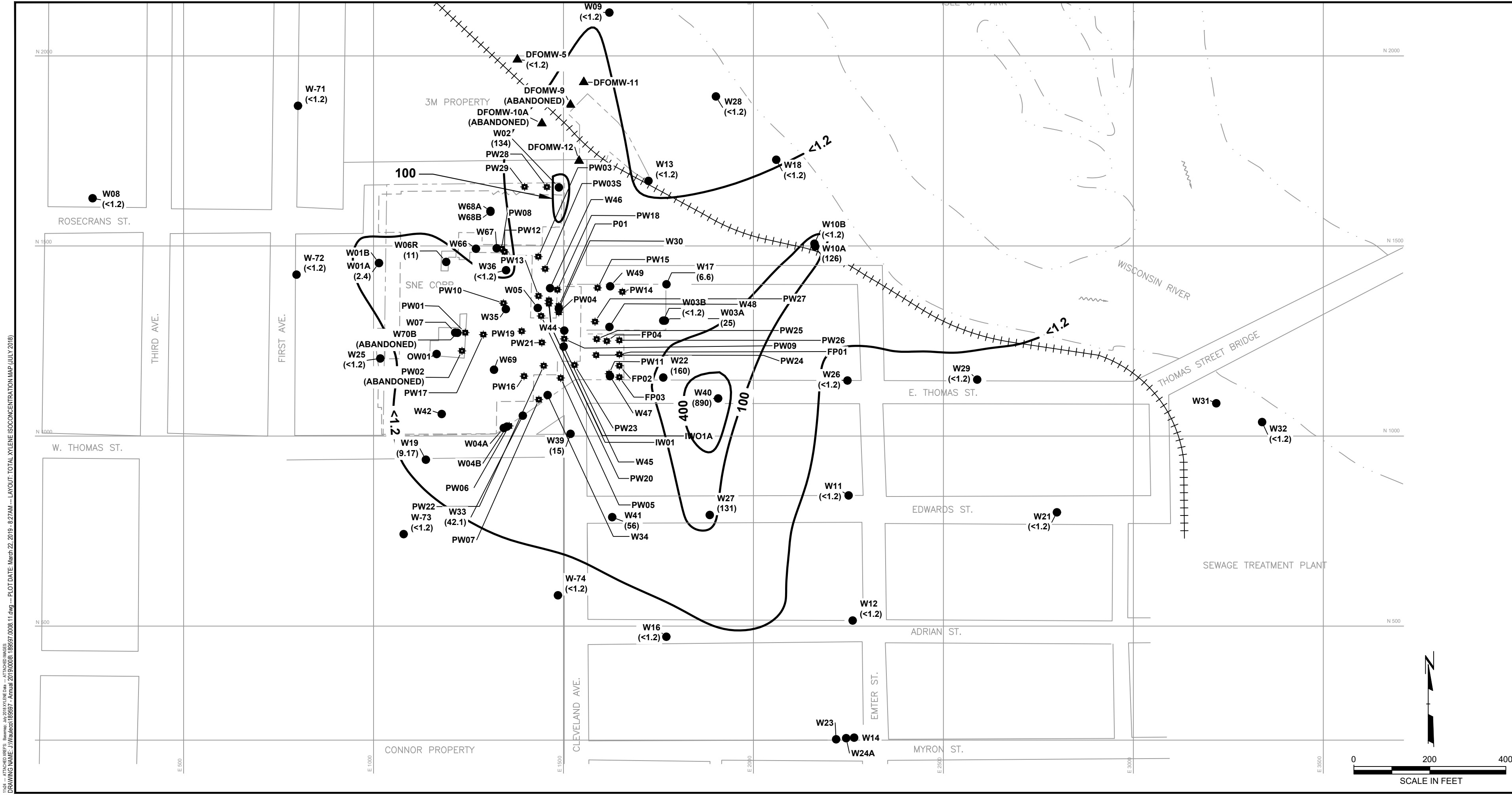
LEGEND

- W17 (20) MONITORING WELL LOCATION AND 1,2,4 TRIMETHYLBENZENE CONCENTRATION (µg/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 (µg/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, 12, 16, 18, 19, 2018.
 - 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 µg/L. THE NR140 PREVENTIVE ACTION LIMIT (PAL) FOR TOTAL TRIMETHYLBENZENES IS 96 µg/L.
 - 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:		WAULECO, INC.	
		ANNUAL GROUNDWATER MONITORING REPORT	
		WAUSAU, WISCONSIN	
TITLE:			
1,2,4 TRIMETHYLBENZENE			
ISOCONCENTRATION MAP (JULY 2018)			
DRAWN BY:	B. YUNUSOV	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	DRAWING 10	
APPROVED BY:	B. IVERSON		
DATE:	MARCH 2019		
DRAWN BY:		908 Heartland Trail	
		Suite 3000	
		Madison, WI 53717	
		Phone: 608.826.3600	
FILE NO.:		189597.0008.10.dwg	





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 (µg/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, 12, 16, 18, 19, 2018.
 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 TRIMETHYLBENZENES IS 480 µg/L. THE NR140 PREVENTIVE ACTION LIMIT (PAL) FOR TOTAL TRIMETHYLBENZENES IS 96 µg/L.
 6. 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:		WAULECO, INC.	
ANNUAL GROUNDWATER MONITORING REPORT		WAUSAU, WISCONSIN	
TITLE:			
TOTAL XYLENE ISOCONCENTRATION MAP (JULY 2018)			
DRAWN BY:	B. YUNUSOV	PROJ NO.:	189597 - ANNUAL REPORT
CHECKED BY:	K. QUINN	DRAWING 11	
APPROVED BY:	B. IVERSON		
DATE:	MARCH 2019		
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600	
FILE NO.:		189597.0008.11.dwg	

I:\04 - ATTACHED FILES - Baume & Mercier - JULY 2018 XYLENE Data - ATTACHED IMAGES
 DRAWING NAME: J:\Wauleco\189597 - Annual 2018\000811.dwg - PLOT DATE: March 22, 2019 - 8:27AM - LAYOUT: TOTAL XYLENE ISOCONCENTRATION MAP (JULY 2018)

APPENDIX A

**WDNR CORRESPONDENCE
MOBILE PRODUCT RECOVERY SYSTEM SHUTDOWN
JANUARY AND FEBRUARY 2011**

Quinn, Kenneth

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

From: Iverson, Bruce [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

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

Outgoing messages, along with any attachments, are scanned for viruses prior to sending.

NOTICE-- This email may contain confidential and privileged information for the sole use of the intended recipient. Any review or distribution by others is strictly prohibited. If you are not the intended recipient, please contact the sender immediately and delete all copies.

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	
07/12/2018							3.3			0.054		210 Q	

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	220					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						8,800			
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							4,200		
01/21/1997			<0.1					1.13						93									
07/11/1997			<0.1					0.17						54.5									
			<0.1					0.54						54.8									
06/25/1998			<0.1					1.12						76		0.4					9,100		
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					35,000		
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					9,400 Q		
01/20/2005			0.044Q					0.78						28									
01/20/2005			0.032Q					0.8						28									
07/21/2005			0.16					0.25						44		0.61					19,000		
7/21/2005																							
Duplicate			0.15					0.4						33		0.69					17,000		
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						
07/12/2018								3.4							0.037		2700 Q						
7/12/2018 Duplicate								1.3							0.03		2400 Q						

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
01/11/2018			<0.040					5,000	1.7	6.9	1290	1150
07/18/2018			<0.12			<0.020		4,400	220	6.8	7450	12800 M

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	<1	18			6000		<1
02/22/1992						4.62	16.5					1000		
09/17/1992			<1			4.59	12.2	<1	12.2			1100	<5000	
12/18/1992			<1				13.4		13.4			3000	5970	
03/23/1993			<0.1			3.75	14		14			<500	4900	
06/29/1993			0.33			3.47	18		18			<1000		
12/28/1993			<0.2			3.88	14		14			<1000		
06/22/1994			<0.1			4.23	15		15			<1000		
07/06/1995	<0.25		0.2	<0.25	<0.25	3.66	14		14			<250		
07/10/1996	<0.25	<1	<0.1	<0.25	<0.25	3.96	14		14			<250		
07/11/1997			<0.1			3.93	14		14			<260		
06/24/1998			<0.1			3.48	16.9		16.9	<0.2		<250		
06/09/1999			0.12			3.82	15.7		15.7			<100		
07/18/2000			<0.02			3.72	20.4		20.4	<0.16		<500		
01/31/2001			<0.02			3.87	18.3		18.3	<0.12		<500		
07/11/2001			<0.020			3.6	18		18	<0.14		<500		
08/06/2002			<0.020			4.400	23		23	<0.070		<500		
07/24/2003			<0.011			3.3	21		21	<0.070		<27		
07/13/2004			<0.030			4.09	20.8		20.8	0.13 J		<27		
07/20/2005			<0.030			3.7	29		29	<0.090		<27		
07/18/2006			<0.023			2.8	29		29	<0.060		<510		
07/11/2007			<0.021			2.6	27		27	<0.080		<27		
07/23/2008			<0.080			3.2	43		43	<0.050		78		
07/06/2009			0.31			0.74	42		42	<0.040		<27		
07/15/2010			<0.050			2.5	100		100	<0.040		430		
07/18/2011			<0.022			2.2	52		52	<0.030		300		
07/06/2012			<0.030			3.4	57		57	0.020		50		
07/01/2013			<0.040			2	140		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		
07/11/2018						3.4				0.062 M		<31		

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
01/11/2018		1.3					1,900	46 M	7.8	<59	92
07/12/2018		2.7			0.034		97 Q	54 M	3.8	<59	67.7

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 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)	Calcium (ug/L)	Magnesium (ug/L)	Dissolved Manganese (ug/L)	Potassium (ug/L)
01/08/1987					6.28					<0.02	<5		22.7	33					<10	382.5	<10	96		250				
06/04/1987					2.74					2.18	<5		<10	28.1					<10	<200	<10			130				
09/03/1987					2.9					0.99	18.5		26	24					<10	<200	<10							
12/03/1987					3.52					0.54	<6		30.1	17.2					<10	<200	<10							
03/03/1988					2.44					0.73	<6		20.7	25.7					<10	<200	<10							
04/07/1988					4.7					1.1	7.38		31.5	25.5					<10	<200	<10							
08/10/1988					3.3				220	0.49	<6		79.1	18.2					<10	<200	<10							
11/15/1988					3.59					0.57	9.22		13	23					<10	<200	<10							
01/26/1989					1.93					0.51	<6		<10	21.5					<10	<200	<10							
04/27/1989					2.82					0.63	8.77		20.7	19					<10	<200	<10							
07/27/1989					50.4					1.01	<6		25.5	20.8					<10	<200	<10							
10/26/1989					3.06					0.59	<6		21.5	18					<10	<200	<10							
01/25/1990					2.99					0.5	<6		24.3	16.4					<10	<200	<10							
05/03/1990					2.58					0.35	<6		20.5	16					<10	<200	<10							
09/20/1990					2.69					0.3	<5		<10	19.5					<10	<200	<10							
12/11/1990					5.52					0.58	<6		14.6	17.5					<10	<200	<10							
01/29/1991					4.12					0.74	<6		16.3	19.7					<10	<200	<10							
05/01/1991					5.96					0.58	<6		10.6	14.4					<10	<200	<10							
10/08/1991					2.94					0.86	<6		21.8	48.6					<10	<200	<10							
10/29/1991			79.4										18	42.6			13500		<10	<200	<10				38600	10500		<5000
12/22/1991			54.5										17.2	31.7			10800		<10	<200	<10				25400	6970		
02/20/1992										2.87			33.7	73					<500									
09/17/1992				<1						2.66		1.53	58	73				<500	15700									
12/19/1992				<1						2.98			59.8	62				<500	16000									
03/23/1993				0.2					5.06				60	66				<500	15300									
06/28/1993				0.18					1.85				66	62				<1000										
12/27/1993				<0.2					2.58				74	72				<1000										
04/25/1994				0.1					2.72				72	56														
06/21/1994				<0.1					2.41				60	82				<1000										
10/04/1994				<0.1					0.44				76	73														
01/05/1995				<0.1					2.44				73	61														
03/09/1995				<0.1					2.52				76	61														
07/06/1995	<0.25			0.13		<0.25	<0.25		2.53				71	46				<250										
09/13/1995				<0.1					2.18				71	46														
12/18/1995				<0.1					1.8				70	75.6														
03/20/1996				0.12					3.22				70	75.6														
07/08/1996	<0.25	<1		<0.1		<0.25	<0.25		2.18				71	46				<250										
09/25/1996				<0.1					2.02				70	75.6														
01/21/1997				<0.1					2.85				74.4	84.7				<250										
07/11/1997				<0.1					3.62				74.4	84.7				<250										
01/02/1998				<0.1					3				101	73.4				<0.2										
06/23/1998				<0.1					3.04				101	73.4				<0.2										
01/26/1999				<0.1					3.18				101	73.4				<100										
06/07/1999				<0.1					3.16				122	174				<100										
01/11/2000				<0.1					3.45				174	148				<0.16										
07/17/2000				<0.02					2.77				174	148				<0.16										
01/30/2001				<0.02					3.71				72	72				<0.12										
07/10/2001				<0.02					3.20				72	72				<0.14										
01/15/2002				<0.020					4.50				260	100				<0.070										
08/05/2002				<0.020					4.00				100	100				<0.070										

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

Date	#2 Fuel Oil	#6 Fuel Oil	Alkalinity, Bicarbonate	Ammonia Nitrogen Total	Carbon, Total Organic	Gasoline	Kerosene	Nitrate	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Oil and Grease	Phosphorus, Phosphate	Sulfate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Dissolved Iron	Iron	Calcium	Magnesium	Dissolved Manganese	Potassium
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
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				<27						<5.0				<0.5	
07/07/2014					0.9					3.1			22		<0.016		<27						12.5				<1.6	
01/15/2015					1.2					3.5			18				<27 M						<10				<1.6	
07/06/2015					2.2					4			20		<0.050		<27						<10				<1.6	
01/13/2016					1					5.5			22				<27						135				<1.6	
07/05/2016					0.86					3.5			18		0.030		<34						32.1				<1.6	
01/16/2017					1.6					4.1			23				<33						<59				<2.2	
07/10/2017					0.90					3			18		<0.020		<43						<59				<2.2	
01/10/2018					0.82					4.6			26				<33						<59				<2.2	
07/10/2018					0.43					4.2			16		<0.020		<31						<59				<2.2	

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			4330	
09/03/1987				7.62				<0.02	35.2		236	7970	24.4	46.9					<10	<200	<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				
08/10/1988				15.2				<0.02	13.3		153	5930	34.8	58.8					<10	<200	<10				
11/15/1988				15.2				<0.02	21.7		283	153	<10	66					<10	<200	<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				
07/27/1989				68.4				<0.02	15.3		315	2020	32.8	57.6					<10	<200	<10				
10/26/1989				11.2				<0.02	19.3		332	1150	37.4	57					<10	<200	<10				
01/25/1990				17.3				<0.02	15.4		288	1740	36.4	65.6					<10	<200	<10				
05/03/1990				13.1				0.03	19.3		257	214	27.9	55					<10	<200	<10				
09/20/1990				8.34				<0.02	13.7		367	804	23.3	96.8					<10	<200	<10				
12/11/1990				13.4				<0.02	<6		292	684	30.9	66.1					<10	<200	<10				
01/29/1991				14.2				<0.02	18		283	863	26.1	69.1					<10	<200	<10				
05/01/1991				13.8				0.03	10.8		286	1170	23.6	68.3					<10	<200	<10				
10/08/1991				12.5				0.41	14.9		361		25.7	77.4					<10	<200	<10				
07/08/1992			<1					0.22		2.74				124					<500						
12/18/1992			<1					0.096						67				1,000	28,000						
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		220					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
				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
01/11/2018				6.1									9.4				640						1,520		2,790
1/11/2018																									
Duplicate				6.1									9.4				660						1,530		2,840
07/18/2018				7				<0.12					9.6		<0.020		1,600						1,350		3,550
7/18/2018																									
Duplicate				6.3				<0.12					11		0.024		1,300						1,330		3,340

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 7/20/2005 Duplicate			<0.030			0.610			2.1		<0.090	<27	
			<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	
07/11/2018							0.56			<0.020		<32	

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	
01/10/2018												<33	<59	<2.2	23	1.1	
07/10/2018							5.9			0.13		<33	<59	<2.2	23	0.48	

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
01/09/2018								1.7					<33		<59	19.9	12	2.1
07/16/2018								4.4			<0.020		<32		<59	<2.2	19 M	0.67

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 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				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		<100
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		220					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
01/11/2018		<0.040					420	332	422	3.1	3.6
07/11/2018		0.310			0.032		2,400	<59	6.5	32	1.4

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	
01/10/2018												<33	22	0.96	<59	<2.2	
07/11/2018							0.84			<0.020		<34	20	<0.40	<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
01/10/2018		4.10					190	19	2.4	172	340
07/11/2018		2.90			0.027		170	19	3.2	1210	469

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 Sprits (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		220	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
								0.6			0.12		1,700	21.1	1010		14	8.9

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)
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
01/15/2018								0.079					4,000	82.2	3590		8.3	12
1/15/2018 Duplicate								<0.040					4,100	86.7	3660		7.4	14
07/18/2018								0.41			<0.020		2,600	<59	2940		15	6.1

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	
01/09/2018							3.9		220				
07/11/2018							5.8			<0.020		<33	

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	220				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
01/10/2018								1.4					<33	<59	88.3		20	3.2
07/12/2018								1.9			<0.020		<33 Q	<59	<2.2		31	1.2

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
01/11/2018											6,000			6,000	16,400	25	21
07/18/2018							0.13		<0.020		4,600			5,040	15,300	43	33

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

Date	#2 Fuel Oil	#6 Fuel Oil	Ammonia Nitrogen Total	Carbon, Total Organic	Gasoline	Kerosene	Nitrate + Nitrite Nitrogen	Nitrogen, Nitrate	Oil and Grease	Phosphorus, Phosphate	Solids, Total Dissolved	Solids, Total Suspended	Sulfate	Total Chloride	Dissolved Mercury	Total Mercury	TPH as Mineral Spirits	Sodium	Arsenic	Barium	Chromium	Chromium, Total	Iron
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(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									
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		220					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							
07/10/2018							<0.12								<0.020	<34							

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
01/11/2018		<0.040					14,000	1,160	1,720	15	9.5
07/19/2018		<0.12			<0.020		7,400	847	1,550	14	5.2

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
07/12/2018							6.7			<0.020		<33 Q

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		
01/09/2018								<0.040							
07/12/2018								<0.12			0.062		2000 Q		

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
01/15/2018		<0.040					360,000	8.1	72	2460	3210
07/19/2018		<0.12			<0.020		300,000	7.9 M	37	4540	5680

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
01/11/2018							<0.040						1,600			14	31	8200 M	12700 M
07/18/2018							0.15				<0.020		1,300			9.7	26	6930	14600

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
07/10/2018	<34

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
07/10/2018	<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
01/09/2018	<33		32	4.8	<59 M,Y	2.4 M,Y
07/10/2018	<31		22	1.5	<59	22.4

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
07/10/2018	<34

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
01/11/2018		2.6	8.6	13,500	6,600	3,000
07/12/2018		2.9	7.3	16,800	9,500	2700 Q

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
01/11/2018		13	6.5	2520	2110	1400
07/12/2018		13	5.2	3600	3630	1100 Q

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
07/16/2018	290

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&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	5.91	5.27		<0.5		<0.5		<1	<0.5	<1		101	<0.5	
06/14/92		<1.02		<1.02	<0.51	<0.51	<1.02		24.3		<0.51		<1.02	<0.51	<1.02		168	<0.51	
09/17/92		<1		34.3	<0.5	67.8	<1		<0.5		<0.5		<1	<0.5	42.1		193	<0.5	
12/18/92		<1		5.18	23.3	<0.5	6.69		<0.5		<0.5		<1	1.77	2.51		150	24.1	
03/23/93		<20		<60	<2	<2	<6		<2		<2		<10	<10	<10		219	<2	
06/28/93	40		<20	<10	<10	<10	310	<10		170	<10	<20	37	<10	430	<10	210		<20
12/28/93	<160		<320	<160	<160	190	<320	<160		<160	<160	<320	<160	<160	<320	<160	310		240
04/25/94	<10		59	55	<10	<10	67	<10		<10	<10	<20	<10	19	24	<10	20		<20
06/21/94	69		160	120	130	29	110	27		64	200	<20	46	59	65	<10	120		<20
10/04/94	<10		58	65	<10	86	34	<10		22	<10	<20	<10	18	<20	<10	89		<20
01/05/95	28		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	20	<20	<10	50		<20
03/10/95	<10		26	18	10	44	<20	<10		44	50	41	<10	12	21	<10	28		35
07/05/95	<25		<10	<10	<10	<10	<50		<10	<10	<10	<20	<50	<20	<50	<25	<50	<10	
09/13/95	20		70	130	53	42	89	24	<10	26	21	20	<10	91	29	<10	150	<10	
12/18/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100	180	<100	
03/21/96	<10		86	53	12	16	<20	13	<10	<10	<10	<20	20	48	24	<10	140	<10	
07/10/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	14	<20	<10	16	<20	<10	64	<10	
09/25/96	0.77		<0.73	<0.71	<0.8	<1.5	<0.72	<0.87	<1.2	<0.79	<1.5	1.7	<0.75	<0.69	<0.74	<0.85	0.68	<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	185	<11	
07/11/97	<0.182		130	110	310	210	<0.269	690	<0.194	360	380	230	<0.362	300	170		340	230	
01/02/98	50		110	70	260	100	550	410	140	270	230	<0.128	170	65	<0.351		80	<0.127	
06/23/98	67		78	80	200	120	380	440	200	200	320	88	170	160	<60		63	130	
01/26/99			95	68	78	190	110	110	120	150	86		90	140				120	
06/09/99	<300		<300	<300	500	<300	440	630	2100	340	1100	1200	<300	<300	<300		520	4400	
01/11/00	<75		<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75		140	<75	
07/18/00	<150		970	210	2100	1600	<150	2500	3100	2000	2500	2900	200	300	3500		690	2700	
01/31/01	<30		<30	<30	<30	<30	<30	<30	<30	41	<30	<30	<30	<30	79		<30	<30	
07/09/01	<150		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		280	<150	
08/06/02	<150		<150	<150	200	210	<150	330	190	440	340	730	<150	310	<150		<150	860	
01/14/03	80		<30	42	410	<30	<30	<30	<30	250	510	<30	<30	<30	<30		35	<30	
07/22/03	9.3		<6	<6	59	21	<6	<6	<6	70	72	94	<6	<6	<6		71	7	
01/20/04	15		9.2	<6.0 J	40	9.9 J	15	<6.0	21	81	93	120	<6.0 J	<6.0	8.0		97	22	
07/13/04	<6.0		17	11	28	7.5J	14	10	<6.0	18	7.7J	23	<6.0	<6.0	<8.0		33	37	
01/19/05	<3.0		<3.0	<3.0	4.4	<3.0	<3.0	<3.0	8.2	6	29	9.3	<3.0	<3.0	<3.0		7.9	7.7	
07/21/05	<6.0V		<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	<6.0 V	22 V	14 V	62 V	19 V	<6.0 V	<6.0 V	<6.0 V		70 V	<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		5.6	<3.0	
07/18/06	<60		<60	<60	170	230	88	130	740	600	1800	690	65	62	<60		130	860	
01/24/07	<3.0		<3.0	<3.0	11	4.9	<3.0	<3.0	<3.0	7.7	100	11	<3.0	<3.0	<3.0		13	<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		18	<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		18	<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		22	<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&4-Methylphenol	4,6-Dinitro-2-Methylphenol	4-Chloro-3-Methylphenol	4-Nitrophenol	Dinoseb	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		9.5	<3.0	
07/06/09	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		47	<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		20	<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		20	<3.0	
01/24/11	4.2		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		45	<3.0	
07/19/11	1.6		<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		11	<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		2.5	<3.0	
07/06/12	2.1		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		21	<3.0	
01/04/13	1.4		<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		14	<3.0	
07/05/13	4.2		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		42	<3.0	
07/07/14	4.1		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		42	<3.0	
07/07/15	5.8		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	1.1	<3.0	<3.0	<3.0		60	<3.0	
07/06/16	2.5		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		31	<3.0	
07/11/17	2.2		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		27	<3.0	
07/12/18	3.8		<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		40	<3.0	

Notes: Prepared By: T. Dushek, 12/3/18 Checked By: A. Voit, 12/16/18

- 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		
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	<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	11000	<1000	
07/10/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000	<10000	<5000	<5000	<10000	<5000	1400	<5000	
01/21/97	1750		<75	<73	<82	<159	<74	<90	<121	<81	<159	<178	<77	<71	<76	<88	10900	<107	
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	1200	<0.252	<0.104	<0.128	<0.362	<0.105	2300		21000	<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		12000	<0.127	
06/25/98	<3000		<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000		26000	<3000	
01/27/99						3200			3700	3100							25000		
01/15/03	1500		<1500	<1500	3900	<1500	4500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		13000	<1500	<1500
07/22/03	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		10000	<1500	<1500
07/13/04	<600		<600	<600J	<600	<600	1100	<600	<600	<600	<600	<600	<600	<600	<800		6600	810	
01/21/04	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500 J	<1500 J	<1500	<1500	<1500J	<1500	<1500J		15000	<1500J	
01/20/05	700 JV		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	1700 V	<600 V	<600 V	<600 V	<600 V		9600 V	690 V	
1/20/2005																			
Duplicate	640 JV		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	2200 V	<600 V	<600 V	<600 V	<600 V		8700 V	760 V	
07/21/05	670 V		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	2500 V	<600 V	<600 V	<600 V	<600 V		9300 V	<600 V	
7/21/2005																			
Duplicate	<600 V		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	920 V	<600 V	<600 V	<600 V	<600 V		8300 V	<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		7800 V	<600 V	
1/17/2006																			
Duplicate	<600 V		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	1200 V	<600 V	<600 V	<600 V	<600 V		8500 V	<600 V	
01/18/10	140		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	31	<3.0	<3.0	<3.0		3200	<3.0	
1/18/2010																			
Duplicate	110		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	27	<3.0	<3.0	<3.0		2600	<3.0	
07/15/10	120 Y		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		2500	<3.0	
01/25/11	100		<11	<10	<10	<8.4	<15	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11		1500	<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		970	<0.49	
01/18/12	81		<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11		1500	<4.8	
07/09/12	170		<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		2000	<3.0	
7/9/2012																			
Duplicate	190		<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		2100	<3.0	
01/07/13	160		<56	<51	<51	<41	<76	<61	<44	<43	<45	<71	<81	<38	<56		2800	<24	
07/08/13	<110		<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110		1700	<49	
07/16/14	<220		<220	<200	<200	<170	<310	<240	<180	<180	<180	<290	<330	<160	<220		3000	<98	
07/08/15	100		<26	<6.3	<26	<9.4	<78	<21	<6.3	<21	<15	<21	<31	<14	<31		1900	<6.8	
07/07/16	67		<6.1	<26	<6.6	<10	<15	<20	<6.1	<7.7	<6.1	<8.7	<15	<7.1	<10		1500	<12	
7/7/2016																			
Duplicate	57		<6.1	<26	<6.6	<10	<15	<20	<6.1	<7.7	<6.1	<8.7	<15	<7.1	<10		1400	<12	
07/13/17	49		<6.1	<25	<6.6	<10	<15	<20	<6.1	<7.6	<6.1	<8.6	<15	<7.1	<10		830	<12	
7/13/2017																			
Duplicate	39		<6.2	<26	<6.7	<10	<15	<21	<6.2	<7.7	<6.2	<8.8	<15	<7.2	<10		690	<12	
07/12/18	47		<5.5	<5	<6.2	<4.8	<6.9	<5	<5.7	<4.8	<5	<5.5	<7.1	<5.2	<5.7		750	<6.2	
7/12/2018																			
Duplicate	76		<5.5	<5	<6.2	<4.8	<6.9	<5	<5.7	<4.8	<5	<5.5	<7.1	<5.2	<5.7		1100	<6.2	

Notes:

Prepared By: T. Dushak, 12/3/18

Checked By: A. Voit, 12/16/18

- 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	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	<2000	<1000	<1000	<2000	<1000		9200	<1000	
12/18/95	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<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	Pentachlorophenol	Phenol	Phenol/2-Chlorophenol
03/21/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	1100	<1000	<2000	<1000	11000	<1000	
07/10/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<5000	<10000	<5000	<5000	<10000	<5000	1400	<5000	
01/21/97	1750		<75	<73	<82	<159	<74	<90	<121	<81	<159	<178	<77	<71	<76	< 88		10900	<107
07/11/97	<0.182		<0.453	<0.469	<0.344	<0.148	<0.269	<0.397	1200	<0.252	<0.104	<0.128	<0.362	<0.105	2300		21000	<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		12000	<0.127	
06/25/98		<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000		26000	<3000	
01/27/99						3200			3700	3100							25000		
01/19/10	370 M		<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		3,700 M	<3.2	
07/15/10	75		<45	<41	<41	<33	<61	<49	<36	<35	<37	<57	<65	<31	<45		1,300	<20	
01/24/11	130		<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11		1,900	<4.9	
07/20/11	47		<1.1	<1.0	<1.0	<0.84	<1.5	<1.2	<0.89	<0.88	<0.92	2.9	<1.6	<0.78	<1.1		640	<0.49	
10/03/11																	1,500		
01/18/12	33		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		530	<3.0	
1/18/2012 Duplicate	27		<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11		1,100	<4.8	
04/03/12																	390		
07/10/12	44		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		800	<3.0	
01/07/13	<23		<23	<21	<21	<17	<32 M	<25	<18	<18	<19	<29	<34 M	<16	<23 Y		320 M	<10	
07/05/13	29		<28	<26	<26	<21	<39	<31	<22	<22	<23	<36	<41	<20	<28		540	<12	
01/21/14	<31		<31	<28	<28	<23	<43 M	<34	<25	<24	<26	<40	<45	<22	<31		580	<14	
07/09/14	<28		<28	<26	<26	<21	<38	<31	<22	<22	<23	<36	<41	<19	<28		450	<12	
7/9/2014 Duplicate	<28		<28	<26	<26	<21	<39	<31	<22	<22	<23	<36	<41	<20	<28		390	<12	
01/19/15	<26		<13	<3.1	<13	<4.6	<38	<10	<3.1	<10	<7.1	<10	<15	<6.9	<15		200	<3.3	
07/08/15	<26		<13	<3.1	<13	<4.6	<39	<10	<3.1	<10	<7.2	<10	<15	<7.0	<15		380	<3.4	
7/8/2015 Duplicate	27		<13	<3.1	<13	<4.6	<39	<10	<3.1	<10	<7.2	<10	<15	<7.0	<15		550	<3.4	
01/19/16	26		<13	<3.0	<13	<4.5	<38	<10	<3.0	<10	<7.1	<10	<15	<6.8	<15		440	<3.3	
07/07/16	39		<3.0	<13	<3.3	<5.1	<7.3	<10	<3.0	<3.8	<3.0	<4.3	<7.6	<3.5	<5.1		780	<6.1	
01/19/17	17		<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		320	<3.0	
07/17/17	53		<3.0	<13	<3.3	<5.1	<7.3	<10	<3.0	<3.8	<3.0	<4.3	<7.6	<3.5	<5.1		680	<6.1	
01/11/18	20		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		340	<3.0	
07/18/18	34 Q		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		500	<3.0	

Notes: Prepared By: T. Dushek, 12/3/18 Checked By: A. Voit, 12/16/18

- 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		5.17	<0.51	<0.51	2.1		<0.51		<0.51		<1.02	<0.51	<1.02		394	<0.51	
02/22/92		<1		<1	<0.5	<0.5	<1		1.9		<0.5		<1	<0.5	<1		25.4	<0.5	
09/17/92		<1		1.04	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		215	<0.5	
12/18/92		<1		<1	<0.5	<0.5	<1		1.61		<0.5		<1	<0.5	<1		103	1.31	
03/23/93		<10		<3	<1	<1	<3		<1		<1		<5	<5	<5		17.8	<1	
06/29/93	75		<20	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	1300		
12/28/93	<10		<20	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	24		
06/22/94	11		<20	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	180		
07/06/95	<25		<10	<10	<10	<10	<50	<10	<10	<10	<10	<20	<50	<20	<50	<25	60	<10	
07/10/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	11	<10	<20	<10	110	<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		71	<0.127	
06/24/98	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		16	<3	
06/09/99	3.2		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		25	<3.0	
07/18/00	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		4.4	49	<3
01/31/01	<3		17	<3	<3	<3	3.0	<3	<3	<3	<3	<3	<3	<3	<3		18	<3	
07/11/01	4.4		<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		9.7	<3.0	
08/06/02	5.7		<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		43	<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		7.6	<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		5.7	<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		3.6	<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		4	<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	31		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		250	<3.0	
07/18/11	10		<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		120	<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		1.9	<3.0	
07/01/13	3.3		<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		48	<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		9.4	<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		8.5	<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		2	<3.0	
07/13/17	0.74		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		19	<3.0	
07/11/18	<3.0		<3.0	<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	<3.0	

Notes:

Prepared By: T. Dushak, 12/3/18 Checked By: A. Voit, 12/16/18

- 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 - 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	3,600	<3000	<3000	<3000	<3000	6,300	3,700	<3000	<3000	<3000	<3000	7,200	<3000
07/23/08	410	<81	<89	<63	<120	<160	<95	<70	<90	<62	<69	<96	<110	<64	5,100	<32
7/23/2008 Duplicate	420	<82	<90	<64	<130	<170	<96	<71	<91	<63	<70	<97	<110	<65	5,000	<32
01/19/10	1,800	<81	<88	<62	<120	<160	<94	<69	<89	<61	<68	<95	<110	<63	15,000	<32
07/14/10	290	<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110	4,500	<49
01/25/11	490	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	5,300	<49
1/25/2011 Duplicate	490	<110	<100	<100	<82	<150	<120	<87	<86	<90	<140	<160	<76	<110	5,300	<48
07/25/11	490 M	<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	3,900 M	<0.49
01/18/12	290	<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11	2,900	<4.9
07/09/12	120 M	<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	1,000 M	<3.0
01/07/13	750	<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110	9,000	<49
07/08/13	300	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	3,300	<49
7/8/2013 Duplicate	340	<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110	3,600	<49
01/21/14	580	<120	<110	<110	<87	<160	<130	<93	<91	<96	<150	<170	<81	<120	5,700	<51
1/21/2014 Duplicate	500	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	5,800	<49
07/09/14	120	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	1,500	<49
01/19/15	320	<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61	4,100	<13
07/09/15	230	<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61	3,200	<13
7/9/2015 Duplicate	170	<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61	2,300	<13
01/19/16	140	<51	<12	<51	<18	<150	<40	<12	<40	<28	<40	<61	<27	<61	1,700	<13
1/19/2016 Duplicate	100	<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61	1,300	<13
07/12/16	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	210	<3.0
01/16/17	370	<24	<100	<26	<40	<58	<80	<24	<30	<24	<34	<60	<28	<40	5,500	<48
07/18/17	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	170	<3.0
01/11/18	170	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	2,500	<3.0
07/12/18	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	97	<3.0

Notes:

Prepared By: T. Dushek, 12/3/18

Checked By: A. Voit, 12/16/18

- 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 - 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																	14.8	
09/03/87																	<1	
12/03/87																	<1	
03/03/88																	<1	
04/07/88																	<1	
08/10/88																	220	
11/15/88																	153	
01/26/89																	3.63	
04/27/89																	1.18	
07/27/89																	<1	
10/26/89																	<1	
01/25/90																	11.5	
05/03/90																	4.04	
09/20/90																	3.3	
12/11/90																	<1	
01/29/91																	3.21	
05/01/91																	36.7	
06/17/91																	1.12	
10/08/91																	4.7	
02/20/92		<1		1.02	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		11	3.5
06/14/92		<1.05		6.69	<0.526	3.77	<1.05		<0.526		<0.526		<1.05	<0.526	<1.05		55.3	<0.526
09/17/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		23	<0.5
12/19/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		4.85	<0.5
03/23/93		<20		<6	<2	<2	<6		<2		<2		<10	<10	<10		<10	<2
06/28/93	19		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	130	
12/27/93	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	12	
04/25/94	<1		<1	<1	<1	<10	<1	<1		<10	<1	<20	<1	<10	<1	<1	<1	
06/21/94	10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	480	
10/04/94	<50		<100	<50	<50	<50	<100	<50		<50	<50	<100	<50	<50	<100	<50	470	
01/05/95	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	98	
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	6.4	<10
07/08/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	1.4	<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	5.6		<0.209	<0.127
01/02/98	<0.182		<0.453	<0.469	<0.344	<0.148	8.4	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	<0.105	4.3		<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			11	7.7	3.6		3											
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	3.5	<3	<3	
01/30/01	<3.0		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	
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	5.4		11	6.5	25	15	11	14	53	49	62	38	10	<3.0	31	14	57	
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		5	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		6.7	<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		6.4	<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	8.1		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		5.6	<3.0	
07/18/06	45		<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	
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		1.8	<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	
01/10/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/10/18	<3.0		<3.0	<3.0	<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, 12/3/18 Checked By: A. Voit, 12/16/18

- 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 - 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																	2.2	
09/03/87																	<1	
12/03/87																	<1	
03/02/88																	<1	
04/07/88																	<1	
08/10/88																	1.05	
11/15/88																	<1	
01/26/89																	<1	
04/27/89																	<1	
07/27/89																	<1	
10/26/89																	<1	
01/25/90																	6.51	
05/03/90																	<1	
09/20/90																	2.37	
12/11/90																	1.53	
01/29/91																	8.59	
05/01/91																	2.07	
06/18/91																	<1	
10/08/91																	5.23	
06/18/92		11		3.79	<0.515	1.29	<1.03		<0.515		<0.515		<1.03	<0.515	<1.03		21.9	2.28
12/17/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	1.77		26.7	<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	640	
06/22/94	<100		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100	120	
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	57	<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		250	<0.127
06/24/98	<3		7.7	5.6	<3	<3	8.5	<3	<3	<3	<3	<3	7.3	3.4	5.2		4.4	<3
06/07/99	4.00		<3.0	<3.0	<3.0	<3.0	20.0	<3.0	<3.0	<3.0	3.90	<3.0	<3.0	<3.0	<3.0		7.00	<3.0
07/18/00	<15		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	62	<15	59		33	<15
01/30/01	<30		<30	<30	<30	<30	67	<30	<30	<30	<30	<30	<30	<30	140		<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	10		9.7	7.5	3.1	<3.0	<3.0	<3.0	<3.0	3.4	4.2	3.0	<3.0	<3.0	7.4		6.1	<3.0
07/23/03	150		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60		140	<60
07/12/04	<30		<30	<30	<30	<30	95	<30	<30	<30	<30	<30	49	<30	<40		63	<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		49 V	<30 V
07/18/06	<3.0		<3.0	<3.0	<3.0	<3.0	10	3.4	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	18		14	<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		5.5	<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		0.26	<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
07/18/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		2.5	<3.0

Notes: Prepared By: T. Dushek, 12/3/18 Checked By: A. Voit, 12/16/18

- 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 - 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 7/23/2008 Duplicate	700		<180	<190	<140	<270	<360	<210	<150	<200	<130	<150	<210	<250	<140		8,800	<70
07/06/09 7/6/2009 Duplicate	370		<160	<170	<120	<240	<320	<190	<140	<180	<120	<140	<190	<220	<130		5,500	<63
	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	450		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			6,200	<3.0
04/06/11																	6,300	
4/6/2011 Duplicate																	5,300	
07/25/11	280		<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		4,200	<0.49
7/25/2011 Duplicate	160		<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		2,300	<0.49
10/03/11																	3,900	
10/3/2011 Duplicate																	3,100	
01/23/12	280 M		<11	<10	<10	<8.5	<15 M	<12	<9.0	<8.9	<9.3	<14	<16 M	<7.8 Y	<11 M		4,500 M	<4.9
04/03/12																	4,200	
4/3/2012 Duplicate																	3,900	
07/09/12	260 V		<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		3,400 V	<4.9 V
7/9/2012 Duplicate	280 V		<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		3,300 V	<4.8 V
07/05/13	210		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		3,400	<49
7/5/2013 Duplicate	200		<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110		3,700	<49
07/10/14	170		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		3,700	<49
07/09/15	120		<52	<12	<52	<19	<150	<41	<12	<41	<29	<41	<62	<28	<62		2,500	<13
7/9/2015 Duplicate	100		<51	<12	<51	<18	<150	<41	<12	<41	<29	<41	<61	<28	<61		2,300	<13
07/12/16	58		<6.3	<26	<6.8	<11	<15	<21	<6.3	<7.9	<6.3	<8.9	<16	<7.4	<11		1,400	<13
7/12/2016 Duplicate	61		<6.1	<25	<6.6	<10	<15	<20	<6.1	<7.6	<6.1	<8.6	<15	<7.1	<10		1,500	<12
07/18/17	57		<12	<52	<13	<21	<30	<41	<12	<15	<12	<18	<31	<14	<21		1,200	<25
7/18/2017 Duplicate	52		<12	<52	<13	<21	<30	<41	<12	<15	<12	<18	<31	<14	38		1,100	<25
07/18/18	56 Q		<11	<10	<12	<9.5	<14	<10	<11	<9.5	<10	<11	<14	<10	<11		1,200	<12
7/18/2018 Duplicate	50 Q		<11	<10	<12	<9.5	<14	<10	<11	<9.5	<10	<11	<14	<10	<11		1,100	<12

Notes: Prepared By: T. Dushek, 12/3/18 Checked By: A. Voit, 12/16/18

- 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	Dimoseb	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		39.2	<0.535
12/18/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<0.5	<1	<1		30.3	<0.5
06/29/93	1.8		<1	<1	<1	<10	<1	<1		<10	<1	<20	<10	<1	<1	<1	8.4	
12/28/93	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	23	
06/22/94	66		27	16	<10	<10	<20	<10		<10	<10	<20	17	<10	<20	<10	33	
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	7.7	<10
07/11/97	8.5		<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		76	<0.127
06/24/98	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		11	<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		3.4	<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		15	<3.0	<3.0	<3.0	4.3	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	4.5		9.8	<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		3.3	<3.0
08/06/02	4.9		<3.0	3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		7.9	<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	4.6	<3.0	4.0	3.0J	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<4.0		25	<3.0J
07/20/05 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		8.8	<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		7.4	<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		5.6	<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		40	<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		12	<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		49	<3.0
07/20/11	9.4		<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		120	<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		86	<3.0
04/09/12																	42	
07/06/12	5.5		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		87	<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		72	<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		16	<3.0
07/07/15	1.1		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		22	<3.0
07/07/16	0.61		<3.0	<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	<3.0
07/17/17	0.54		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		7.5 B	<3.0
07/11/18	2.2		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		40	<3.0

Notes:

Prepared By: T. Dushek, 12/3/18

Checked By: A. Voit, 12/16/18

- 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	Pentachlorophenol	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	43	<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	64	<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	180	<3.0	
07/19/06	<15		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	270	<15	
07/10/07	57		<8.5	<10	<6.7	<5.1	<10	<13	<7.1	<3.1	<6.2	<5.5	<7.5	<3.2	<6.1	540	<3	
07/23/08	13		<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	140	<3.0	
07/07/09	47		<16	<17	<12	<24	<32	<19	<14	<18	<12	<14	<19	<22	<13	660	<6.3	
07/14/10	46		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	440	<3.0	
07/19/11	12		<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	97	<0.48	
07/09/12	34		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	360	<3.0	
07/01/13	78		<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	960	<3.0	
7/1/2013 Duplicate	67		<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	950	<3.0	
07/08/14	37		<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	660	3.2	
07/06/15	18		<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	400	<3.0	
07/05/16	6.5		<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	180	<3.0	
07/17/17	2.3		<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	52	<3.0	
07/11/18	4.7		<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	120	<3.0	

Notes: Prepared By: T. Dushek, 12/3/18 Checked By: A. Voit, 12/16/18

- 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			2.83	11.4
12/17/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5			3.67	<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	73	
07/06/95	47		<10	<10	<10	<10	<50		<10	<10	<10	<20	<50	<20	<50	<25	210	<10
07/08/96	<10		<10	<10	<10	<10	<20	<10	<10	<10	<10	<20	<10	<10	<20	<10	1.5	<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		3.5	<0.127
06/23/98	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		220	<30
06/08/99	<150		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		290	<150
07/17/00	21.5		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	3.15	510	<3
01/30/01	<60		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60		950	<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		2.9	<3.0
04/09/12																	450	
4/9/2012 Duplicate																	470	
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		420	<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
07/10/18	<3.0		<3.0	<3.0	<3.0	<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, 12/3/18

Checked By: A. Voit, 12/16/18

- 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		636	4.42	
12/19/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		4,550	<0.5	
06/30/93	<100		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100		540	
12/27/93	120		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100		1,800	
04/25/94	190		25	<10	<10	<10	21	<10		<10	<10	<20	11	<10	<20	<10		520	
06/22/94	120		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100		1,500	
10/04/94	12		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10		220	
03/10/95	<100		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100		530	
07/06/95	33		<10	<10	<10	<10	<50	<10	<10	<10	<10	<20	<50	<20	<50	<25		390	<10
09/13/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100		110	<100
03/20/96	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100		740	<100
07/10/96	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100		28	<100
09/25/96	99		<0.73	1.4	<0.8	<1.5	<0.72	<0.87	<1.2	<0.79	<1.5	<1.7	<0.75	<0.69	<0.74	<0.85		754	<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			260	<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			140	<0.127
06/24/98	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30			150	<30
01/26/99																		120	
06/09/99	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30			56	<30
01/11/00	20		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15			290	<15
07/18/00	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			300	<3.0
01/31/01	<60		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	<60			400	<60
07/10/01	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			150	<3.0
01/15/02	24		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15			180	<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	3.3	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			3.1	<3.0
07/23/03	5.6		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			79	<3.0
01/21/04	<15J		<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15J			190	<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			45	<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			3.7	<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
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&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																3.2		
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		1.4	<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		1.6	<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		2.5	<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	0.66		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		3.7	<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		0.75 B	<3.0	
01/09/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0	<3.0	
07/16/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		2.7	<3.0	

Notes:

Prepared By: T. Dushek, 12/3/18

Checked By: A. Voit, 12/16/18

- 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																	4.74	
03/03/88																	<1	
04/07/88																	<1	
08/10/88																	<1	
11/15/88																	<1	
01/26/89																	1.93	
04/27/89																	<1	
07/27/89																	<1	
10/26/89																	<1	
01/25/90																	<1	
05/03/90																	<1	
09/21/90																	1.64	
12/12/90																	<1	
01/30/91																	1.65	
05/01/91																	2.79	
06/18/91																	<1	
10/08/91																	6.49	
06/24/92		<1.02		<1.02	2.39	<0.51	<1.02		<0.51		<0.51		1.23	0.582	<1.02		<1.02	<0.51
12/18/92		<1		<1	<0.5	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		2.43	<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	26	
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	<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	5		4.7	<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		6.6	<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	4		7.4	<3.0
01/30/01	<3.0		11	<3.0	<3.0	<3.0	4.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	6.7		<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	14	<3.0	<4.0	<3.0J	<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	3.3	<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	190		<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		3,000	<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
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
07/10/18	<3.0		<3.0	<3.0	<3.0	<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, 12/3/18

Checked By: A. Voit, 12/16/18

- 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	72	<60	<60	250	98	<60	<60	<60	340	340	<60	<60	<60	<60	1,400	91
07/13/04	<60	<60J	<60J	<60	<60J	110	130	<60	190	180	150	<60	<60	<80	1,000	390
01/21/05	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	94 V	65 V	420 V	67 V	<30 V	<30 V	<30 V	240 V	110 V
1/21/2005 Duplicate	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	<30 V	95 V	67 V	420 V	68 V	<30 V	<30 V	<30 V	230 V	70 V
07/20/05	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	<60 V	98 V	<60 V	<60 V	<60 V	<60 V	810 V	<60 V
07/18/06	<60	91	<60	<60	<60	<60	<60	<60	<60	260	<60	<60	<60	<60	830	69
01/23/07	<60	<60	<60	<60	<60	<60	<60	<60	<60	110	<60	<60	<60	<60	940	<60
1/23/2007 Duplicate	<60	<60	<60	<60	<60	<60	<60	<60	<60	160	<60	<60	<60	<60	920	<60
07/10/07	24	<15	<18	<12	<8.9	<18	<23	<12	<5.4	<11	<9.7	<13	<5.6	<11	560	<4.5
01/28/08	<21	<17	<20	<13	<10	<20	<26	<14	<6	<12	<11	<15	<6.3	<12	620	<5.1
07/23/08	20	<16	<18	<13	<25	<33	<19	<14	<18	<12	<14	<19	<23	<13	460	<6.4
07/06/09	19	<16	<18	<12	<24	<33	<19	<14	<18	<12	<14	<19	<22	<13	570	<6.3
7/6/2009 Duplicate	17	<16	<18	<12	<24	<33	<19	<14	<18	<12	<14	<19	<22	<13	530	<6.3
01/18/10	25	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	440	<3.0
07/15/10	42	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	520	<3.0
01/24/11	21	<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	370	<4.9
07/19/11	17	<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	180	<0.49
01/23/12	11	<6	<5.5	<5.5	<4.5	<8.2	<6.6	<4.8	<4.7	<4.9	<7.7	<8.8	<4.2	<6	330	<3.0
07/06/12	8.1	1.1	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	190	<3.0
7/6/2012 Duplicate	8.2	1.2	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	140	<3.0
01/07/13	<11	<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11	220	<4.8
07/02/13	16	<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11	370	<4.9
01/22/14	<12	<12	<11	<11	<9	<16	<13	<9.6	<9.5	<9.9	<15	<18	<8.4	<12	190	<5.3
07/16/14	11	<11	<10	<10	<8.4	<15	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11	230	<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	300	<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	81	<3.0
07/09/15	11	<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	260	<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	110	<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	120	<3.0
07/07/16	1.3	<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	60	<3.0
01/16/17	3.6	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	170	<3.0
07/11/17	3.2	<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	69	<3.0
01/11/18	2.6	0.52	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	72	<3.0
07/11/18	4.6	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.1	<3.0	<3.0	99	<3.0

Notes:

Prepared By: T. Dushek, 12/3/18

Checked By: A. Voit, 12/16/18

- 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	Dinoseb	Pentachlorophenol	Phenol	
02/25/92		<10		146	<5	<5	<10				17.3		<10	<5	<10		11,800	<5	
07/08/92		17		<1.02	70.8	9.67	85.9		<0.51		3.6		<1.02	24.9	<1.02		9,380	27	
09/17/92		47.8		<1	29.6	<0.5	<1		1.68		4.25		4.39	<0.5	102		11,600	<0.5	
12/17/92		33.8		<1	15	<0.5	<1		<0.5		<0.5		<1	<0.5	<1		19,500	60.7	
03/23/93		<20		<6	<2	<2	<6		<2		<2		<10	<10	<10			7,470	<2
06/29/93	750		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<200	<100		13,000	
12/28/93	840		52	170	<10	23	45	16		14	<10	<20	<10	100	<20	<10		5,600	
06/22/94	1,000		400	400	220	<100	350	<100		<100	<100	<200	<100	<100	<200	<100		11,000	
07/05/95	<640		<260	<260	<260	<260	<1300	<260	<255	<260	<510	<1300	<510	<1300	<640			5,100	<260
07/09/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<10000	<5000	<5000	<10000	<5000			1,100	<5000
07/11/97	<0.182		55	<0.469	<0.344	53	<0.269	<0.397	<0.194	<0.252	<0.104	<0.128	<0.362	67	<0.351			15,000	320
06/24/98	<300		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300			2,500	<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			250	<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	3.3			80	<3.0
01/31/01	<3.0		9.5	<3.0	<3.0	<3.0	3.8	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	7.1			32	<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			16	<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			3.6	<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			4.7	<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	5.8
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	19		<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			230	<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			2.9	<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			2.6	<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
07/11/18	<3.0		<3.0	<3.0	<3.0	<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, 12/3/18

Checked By: A. Voit, 12/16/18

- 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	570	<300	<300	630	870	910	1,100	2,400	<300	<300	1,000	<300	3,600
07/11/01	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
01/15/02	150	48	110	150	220	320	78	570	750	260	200	36	120	120	94	240
08/06/02	<150	<150	<150	190	250	<150	410	490	590	530	720	<150	<150	<150	<150	2,000
01/14/03	16	<3.0	4.9	45	<3.0	<3.0	<3.0	<3.0	<3.0	29	<3.0	<3.0	<3.0	<3.0	44	<3.0
07/22/03	1,700	<60	<60	<60	<60	<60	<60	1,400	<60	170	<60	<60	<60	<60	710	960
01/20/04	<60	<60	<60	<60J	<60	<60J	<60	<60	95	<60J	<60J	<60	<60	<60J	50	200
07/13/04	<60	65J	<60J	72	<60	180	72	700	380	110	85J	<60	85	<80	210	640
01/21/05	41 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	7900 V	4100 V	4600 V	4100 V	<600 V	<600 V	<600 V	72 V	5100 V
07/20/05	4.9	<3.0	<3.0	<3.0	<3.0	3.8	<3.0	20	13	4.1	18	4.4	<3.0	<3.0	21	<3.0
01/17/06	290 V	<30.0	96 V	<1500	<1500	400 V	280 V	7600 V	1900 V	23000 V	2200 V	200 V	280 V	78 V	260 V	7400 V
07/20/06	37.0	26	11	86	140	77.0	81	3,400	500	1,800.0	570	100.0	47	18	72	430
01/23/07	10.0	<3.0	3	<3.0	11	<3.0	<3.0	<3.0	<3.0	150.0	27	15.0	3.1	4.5	27	70
07/11/07	11.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	68	<3.0
7/11/2007 Duplicate	9.6	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	57	<3.0
01/28/08	6.2	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	49	<3.0
07/24/08	9.9	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	60	<3.0
01/20/09	3.3	<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	22	<3.0
07/07/09	9.0	<3.0	<3.0	<3.0	<3.0	<3.3	<3.0	<3.0	<3.0	<3.0	7.1	<3.0	<3.0	<3.0	87	<3.0
01/18/10	4.5	<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	28	<3.0
07/14/10	11.0	<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	59	<3.0
01/25/11	75.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	430	<3.0
04/05/11															710	
07/19/11	27	<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	150	<0.50
10/03/11															210	
01/17/12	81	2.6	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	570	<3.0
04/03/12															270	
07/06/12	85	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	640	<3.0
01/04/13	24.0	<11	<10	<10	<8.4	<15	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11	260	<4.9
07/01/13	15.0	<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11	120	<4.8
01/21/14	50.0	<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	35	<7.8	<11	310	<4.9
07/08/14	33.0	<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11	260	<4.9
01/15/15	40.0	<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	270	<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	250	<3.0
01/14/16	72.0	<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	610	<3.0
07/07/16	77.0	<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	660	<3.0
01/16/17	25.0	<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	230	<3.0
07/17/17	16.0	<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	120	<3.0
01/10/18	41.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	290	<3.0
07/11/18	25.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	180	<3.0

Notes: Prepared By: T. Dushek, 12/3/18 Checked By: A. Voit, 12/16/18

- 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																	1.96	
06/04/87																	<1	
09/03/87																	<1	
12/03/87																	<1	
03/03/88																	<1	
04/07/88																	<1	
08/10/88																	5.55	
11/15/88																	182	
01/26/89																	2.47	
04/27/89																	<1	
07/27/89																	<1	
10/26/89																	<1	
01/25/90																	3.86	
05/03/90																	1.09	
09/21/90																	8.96	
12/12/90																	2.36	
01/30/91																	1.84	
05/01/91																	<1	
06/19/91																	2.33	
10/08/91																	4.21	
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		26.5	2.63
06/29/93	<1		<1	<1	<1	<1	<1	<1	<10	<1	<20	<20	<10	<10	<1	<1	2.8	
12/28/93	<10		<20	<10	<10	<10	<20	<10	<10	<10	<20	<20	<10	<10	<20	<10	33	
06/22/94	100		56	27	<10	<10	<20	<10	<10	<10	<20	<10	<10	<20	<10	<10	44	
07/06/95	<25		<10	<10	<10	<10	<50	<10	<10	<10	<20	<50	<20	<50	<25	<50	<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		3.1	<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		5.1	<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	3.4		10	<3.0
01/30/01	<3.0		7.9	<3.0	<3.0	<3.0	27	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	8.2		44	<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	1.3 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	
07/08/14	<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	
07/10/18	<3.0		<3.0	<3.0	<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, 12/3/18 Checked By: A. Voit, 12/16/18

- 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	Pheno/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	<1	<1	<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	<250	<500	<1300	<500	<1300	<630	2,600	<250	
09/13/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	2,000	<1000	
12/18/95	<100		<100	<100	<100	<100	<200	<100	<100	<100	<100	<200	<100	<100	<200	<100	3,200	<100	
03/21/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	610	<1000	
07/10/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<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	<8.5	7,540	<10	
01/21/97	1,180		<37	<36	<40	<78	<36	<44	<59	<40	<78	<87	<38	<35	<37	<43	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	<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	
01/15/18	440		<23	<21	<26	<20	<29	<21	<24	<20	<21	<23	<30	<22	<24		4,900	<26	
1/15/2018 Duplicate	470		<23	<21	<26	<20	<29	<21	<24	<20	<21	<23	<30	<22	<24		5,300	<26	
07/18/18	420 Q		<46	<42	<52	<40	<58	<42	<48	<40	<42	<46	<60	<44	<48		5,200	<52	

Notes:

Prepared By: T. Dushek, 12/3/18

Checked By: A. Voit, 12/16/18

- 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	<500	<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			310 V	<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			68	36	
01/24/07	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30			350	<30	
07/11/07	3.9		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			60	<3.0	
01/29/08	7.7		<4.2	<4.9	<3.3	<3.0	<5.1	<6.4	<3.5	<3.0	<3.1	<3.0	<3.7	<3.0			230 M	<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			9.6	<3.0	
01/20/09	8.9		<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			210	<3.0
07/06/09	11.0		<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			150	<3.0
01/18/10	5.9		<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			65	<3.0
07/13/10	6.1		<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			130	<3.0
7/13/2010 Duplicate	4.6		<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			93	<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				5.4	<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			3.7	<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			5.6	<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				6.6	<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				5.4	<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				10	<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				4.2	<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				4.1	<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				4.7	<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				6.4	<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				5.0	<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				4.9	<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
01/16/17	0.6		<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
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
01/09/18	<3.0		<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
07/11/18	0.41		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0				8.0	<3.0

Notes: Prepared By: T. Dushek, 12/3/18 Checked By: A. Voit, 12/16/18

- 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	<10		22,300	<5
06/14/92		69.9		<10.5	<5.26	<5.26	<1.05		<0.526		<5.26		<1.05	<5.26	<1.05		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	<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	<2000	2,900	<1000	<2000	<1000	<1000	4,000	<1000
03/21/96	<2000		<2000	<2000	<2000	<2000	<4000	<2000	<2000	<2000	<4000	<2000	<2000	<2000	<4000	<2000	8,200	<2000
07/09/96	<5000		<5000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<10000	<5000	<5000	<5000	<10000	<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	160	<60	<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	290		<80	<94	<63	<48	<97	<120	<67	<29	<59	<52	<71	<30	<58		3,700	<24
01/28/08 Duplicate	380		<81	<96	<64	<48	<98	<120	<67	<29	<60	<53	<72	<30	<58		4,600	<25
07/24/08	680		<170	<180	<130	<250	<340	<190	<140	<180	<130	<140	<200	<230	<130		6,500	<65
01/20/09	42		<17	<18	<13	<25	<34	<19Q	<14	<18	<13	<14	<20	<23	<13		840	<6.5
07/07/09	8.5		<8.1	<8.8	<6.2	<12	<16	<9.4	<6.9	<8.9	<6.1	<6.8	<9.5	<11	<6.3		190	<3.2
7/7/2009 Duplicate	8.6		<8.0	<8.7	<6.2	<12	<16	<9.3	<6.9	<8.8	<6.1	<6.8	<9.4	<11	<6.3		190	<3.1
01/18/10	99		<8.4	<9.1	<6.5	<13	<17	<9.8	<7.2	<9.3	<6.4	<7.1	<9.9	<12	<6.6		1,600	<3.3
07/15/10	380		<11	<10	<10	<8.4	<15	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11		2,900	<4.9
01/25/11	60		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		640	<3.0
04/06/11																	680	
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		1100	<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		1100	<0.50
10/03/11																	750	
01/23/12	27		<23	<21	<21	<17	<31	<25	<18	<18	<19	<29	<33	<16	<23		460	<9.9
04/03/12																	580	
07/10/12	40 V		<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		540 V	<4.8 V
01/04/13	42		<12	<11	<11	<8.6	<16	<13	<9.2	<9.1	<9.5	<15	<17	<8	<12		560	<5.1
07/02/13	<22		<22	<20	<20	<17	<30	<24	<18	<17	<18	<28	<32	<15	<22		120	<9.7
01/22/14	<11		<11	<10	<10	<8.5	<15	<12	<9	<8.9	<9.3	<14	<16	<7.8	<11		59	<4.9
07/07/14	2.9		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		33	<3.0
01/15/15	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		92	<3.0
07/09/15	170		<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		2,000	<3.0
01/13/16	27		<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		260	<3.0
07/07/16	46		<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		570	<3.0
01/16/17	69		<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		830	<4.8
07/17/17	2.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		19	<3.0
01/10/18	19		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		270	<3.0
07/12/18	0.99		<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		4.5	<3.0

Notes: Prepared By: T. Dushek, 12/3/18 Checked By: A. Voit, 12/16/18

- 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 - 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		23.5		<10.5	<5.26	<5.26	<10.5		<5.26		32.3		<10.5	15.7	<10.5		16,600	74.4
12/17/92		<1		<1	19	7.9	<1		<0.5		<0.5		<1	81.2	<1		21,300	105
06/30/93	710		<200	<100	<100	<100	<200	<100		<100	<100	<200	<100	<100	<100		10,000	
12/28/93	3,000		400	<100	320	<100	<200	<100		110	<100	<200	370	<100	<200	<100	30,000	
06/22/94	3,000		210	980	150	<100	250	<100		<100	<100	<200	<100	270	340	<100	33,000	
07/06/95	<1300		<500	<500	<500	<500	<2500		<500	<500	<500	<1000	<2500	<1000	<2500	<1300	7,700	<500
07/09/96	<10000		<10000	<10000	<10000	<10000	<20000	<10000	<10000	<10000	<10000	<20000	<10000	<10000	<20000	<10000	3,900	<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		25,000	530
06/24/98	<3000		<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000		16,000	<3000
06/08/99	<3000		<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000	<3000		14,000	<3000
07/18/00	1,125		800	<150	<150	<150	600	<150	<150	<150	<150	<150	<150	<150	<150		13,000	755
01/31/01	<1500		<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500	<1500		16,000	<1500
07/11/01	530		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	90	<60	<60		5,200	<60
08/06/02	760		<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600	<600		7,000	<600
07/22/03	320		<150	340	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150		4,900	<150
07/13/04	30J		61	190	<30	<30	99	<30J	<30	30J	<30	<30J	<30J	<30J	64		7,400	110
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		4500 V	<600 V
07/19/06	<300		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		3,500	<300
07/10/07	520		<79	<93	<63	<47	<96	<120	<66	<29	<58	<52	<70	<30	<57		5,500	<24
07/23/08	650		<170	<180	<130	<260	<340	<200	<150	<190	<130	<140	<200	<240	<130		7,800	<67
07/07/09	510		<160	<180	<120	<240	<330	<190	<140	<180	<120	<140	<190	<220	<130		6,200	<63
07/14/10	640		<12	<11	<11	<8.9	<16 M	<13	<9.5	<9.3	<9.8 M	<15	<17	<8.3	<12 M		9,600	<5.2
7/14/2010 Duplicate	700		<12	<11	<11	<8.7	<16	<13	<9.3	<9.1	<9.6	<15	<17	<8.1	<12		10,000	<5.1
07/25/11	290		<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		3,500	<0.49
07/10/12	580		<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		9,200	5.1
07/05/13	460		<57	<52	<52	<43	<78	<63	<45	<45	<47	<73	<83	<40	<57		6,400	<25
07/09/14	270		<110	<100	<100	<85	<160	<130	<91	<90	<94	<150	<170	<79	<110		4,600	<50
07/09/15	330		<26	<6.2	<26	<9.3	<77	<21	<6.2	<21	<14	<21	<31	<14	<31		4,300	<6.7
07/11/16	350		<12	<51	<13	<20	<30	<41	<12	<15	<12	<17	<31	<14	<20		5,200	<24
07/18/17	250		<12	<52	<13	<21	<30	<41	<12	<15	<12	<18	<31	<14	<21		3,700	<25
7/18/2017 Duplicate	290		<12	<51	<13	<20	<30	<41	<12	<15	<12	<17	<31	<14	<20		3,800	<24
07/18/18	520 Q		<22	<20	<25	<19	<28	<20	<23	<19	<20	<22	<29	<21	<23		5,200	<25

Notes: Prepared By: T. Dushek, 12/3/18 Checked By: A. Voit, 12/16/18

- 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 - 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
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	<50	<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		5.8	<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		31	<3.0	
07/18/06	39		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		27	<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																31		
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																28		
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		1.9	<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		1.1	<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		0.45	<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	
07/11/18	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		2.5	<3.0	

Notes:

Prepared By: T. Dushek, 12/3/18

Checked By: A. Voit, 12/16/18

- 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 - 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	4.7		<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		6.8	<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		7.2	<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		50	<3.0
07/19/11	180		<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		1,700	<0.48
07/09/12	200 V		<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		1,800 V	<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		6.4	<3.0
07/07/14	80		<57	<52	<52	<42	<77	<62	<45	<44	<46	<72	<82	<39	<57		690	<25
07/07/15	300		<52	<13	<52	<19	<160	<42	<13	<42	<29	<42	<63	<28	<63		3,300	<14
07/11/16 7/11/2016 Duplicate	710		<12	<51	<13	<20	<29	<40	<12	<15	<12	<17	<30	<14	<20		6,600	<24
07/17/17	490		<12	<50	<13	<20	<29	<40	<12	<15	<12	<17	<30	<14	<20		5,100	<24
07/19/18 7/19/2018 Duplicate	68 Q		<23	<21	<26	<20	<29	<21	<24	<20	<21	<23	<30	<22	<24		1,100	<26
	80 Q		<12	<11	<13	<10	<15	<11	<12	<10	<11	<12	<15	<11	<12		1,100	<13

Notes:

Prepared By: T. Dushak, 12/3/18

Checked By: A. Voit, 12/16/18

- 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																	1.45	
11/15/88																	<1	
01/26/89																	<1	
04/27/89																	<1	
07/27/89																	<1	
10/26/89																	<1	
01/25/90																	1.67	
05/03/90																	1.14	
09/21/90																	2.13	
12/11/90																	<1	
01/30/91																	8.36	
05/01/91																	<1	
06/19/91																	1.33	
10/08/91																	3.61	
06/24/92		<1.02		<1.02	<0.51	<0.51	2.05		<0.51		<0.51		<1.02	<0.51	<1.02		2.08	0.583
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	10	
06/22/94	<10		<20	<10	<10	<10	<20	<10		<10	<10	<20	<10	<10	<20	<10	15	
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	5.1	<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		7.2	<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		7.9	<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		13	<3.0	<3.0	<3.0	15	<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	<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	<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
07/20/05	<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		3.3	<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
07/07/09	<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
07/14/10	<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	<1.1		<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	<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
07/10/17	<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
07/10/18	<3.0		<3.0	<3.0	<3.0	<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, 12/3/18

Checked By: A. Voit, 12/16/18

- 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	2,000		<750	<750	<750	1,000	<750	880	6,500	6,100	2,300	3,000	<750	<750	<750	9,600	7,100
07/24/03	4,000		<1500	<1500	1600	<1500	<1500	<1500	<1500	3,300	1,600	2,900	<1500	<1500	<1500	13,000	<1500
07/14/04	<1500		<1500	<1500	3900	1500J	4,000	<1500	<1500	9,000	3,300	6,200	<1500	<1500	<2000	28,000	23,000
07/21/05	1400 V		<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	6200 V	2800 V	16000 V	2400 V	600 V	<600 V	<600 V	8600 V	<600 V
01/23/07	5,700		<3000	<3000	<3000	<3000	<3000	<3000	<3000	7,300	66,000	<3000	<3000	<3000	<3000	30,000	33,000
07/11/07	3,100		<410	<490	<330	<250	<500	<630	<340	<150	<300	<270	<370	<160	<300	18,000	<130
07/24/08	1,900		<450	<490	<350	<680	<910	<520	<390	<490	<340	<380	<530	<630	<350	16,000	<180
07/07/09	900		<160	<170	<120	<240	<320	<190	<140	<180	<120	<140	<190	<220	<130	7,200	<63
01/19/10	630		<160	<180	<130	<250	<330	<190	<140	<180	<120	<140	<190	<230	<130	2,500	<64
07/15/10	970		<220	<200	<200	<160	<300	<240	<170	<180	<180	<280	<320	<150	<220	7,200	<96
01/26/11	580		<230	<210	<210	<170	<320	<250	<180	<180	<190	<290	<340 Q	<160	<230	5,700	<100
07/25/11	150		<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	2,100	<0.48
01/23/12	990		<57	<52	<52	<42	<77	<62	<45	<44	<46	<72	<82	<39	<57	9,100	<25
07/09/12	530		<12	<11	<11	<8.8	<16	<13	<9.4	<9.2	<9.7	<15	<17	<8.2	<12	3,700	<5.2
01/08/13	1,000		<220	<200	<200	<170	<310	<240	<180	<180	<180	<290	<330	<160	<220	7,800	<98
07/08/13	360		<220	<200	<200	<170	<300	<240	<180	<170	<180	<280	<320	<150	<220	3,000	<97
01/22/14	760		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230	5,900	<99
07/07/14	370		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230	3,200	<99
01/15/15	1,500		<100	<25	<100	<37	<310	<82	<25	<82	<58	<82	<120	<56	<120	8,800	<27
07/09/15	220		<100	<25	<100	<37	<310	<82	<25	<82	<58	<82	<120	<56	<120	1,700	<27
01/14/16	660		<110	<26	<110	<38	<320	<85	<26	<85	<60	<85	<130	<57	<130	4,200	<28
07/12/16	430		<25	<110	<27	<42	<61	<84	<25	<32	<25	<36	<63	<29	<42	3,300	<51
01/19/17	2,000		<48	<200	<53	<81	<120	<160	<48	<61	<48	<69	<120	<57	<81	14,000	<97
07/18/17	1,200		<32	<130	<35	<54	<78	<110	<32	<40	<32	<46	<81	<38	<54	7,400	<65
01/11/18	1,500		<120	<110	<130	<100	<150	<110	<120	<100	<110	<120	<150	<110	<120	10,000	<130
07/19/18	430 Q		<11	<10	<12	<9.5	<14	<10	<11	<9.5	<10	<11	<14	<10	<11	2,800	<12

Notes:

Prepared By: T. Dushek, 12/3/18

Checked By: A. Voit, 12/16/18

- 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	22.1	<1		<0.5		<0.5		<1	<0.5	<1		7,180	<0.5
08/03/92		<1		<10	11.3	<0.5	<10		<5		<5		<1	<0.5	<1		14,800	155
09/17/92		26		<1	132	29.2	15.2		<0.5		240		<1	<0.5	67		8,350	<0.5
09/13/95	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	1,700	<1000
07/10/96	<500		<500	<500	<500	<500	<1000	<500	<500	<500	<500	<1000	<500	<500	<1000	<500	1,800	<500
07/11/97	120		94	71	480	210	660	430	<0.194	1400	1200	440	<0.362	240	110		1,600	1600
01/02/98	57		<0.453	<0.469	310	170	430	230	<0.194	540	420	190	150	160	<0.351		480	<0.127
06/25/98	<30		<30	<30	<30	<30	<30	<30	93	46	52	<30	<30	<30	<30		190	46
01/27/99			30						89	43		33					240	60
06/09/99	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		67.0	<30
01/11/00	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		280	<30
07/18/00	<30		<30	<30	12.5	4.75	<30	13	130	32	9.75	52.5	<30	<30	9		65	62
01/31/01	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		360	<30
07/11/01	11		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3.6	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		120	<3.0
01/15/02	5.5		<3.0	3.5	<3.0	<3.0	<3.0	<3.0	12	6.8	<3.0	4.1	<3.0	<3.0	<3.0		43	3.7
08/06/02	<30		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30		31	<30
01/15/03	14		<3.0	<3.0	5.9	4.2	4.6	<3.0	<3.0	<3.0	8.9	<3.0	<3.0	<3.0	<3.0		140	<3.0
07/22/03	4.2		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3.2	<3.0	<3.0	<3.0	<3.0	<3.0		43	11
01/21/04	3.1J		<3.0	<3.0	<3.0J	<3.0	<3.0	<3.0	3.9	4.4	<3.0	<3.0	<3.0J	<3.0	<3.0J		45	3
07/14/04	<3.0		<3.0	<3.0	<3.0	<3.0	<4.0	<3.0J	<3.0	5.4	<3.0J	<3.0J	<3.0	<3.0	<4.0		65	22
01/20/05	<3.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	8.2	3.1 J	<3.0	<3.0	<3.0		24	4.5
07/21/05	6.5		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	4.9	<3.0	4.9	<3.0	<3.0	<3.0	<3.0		81	21
01/18/06	8.5 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	<6.0 V		89 V	<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		16	<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		11	<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		11	<3.0
7/10/2007 Duplicate	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		42	<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		8.1	<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		8.2	<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		4.1	<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	<3.0
1/20/2009 Duplicate	<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	<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		8.6	<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		3	<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		7.8	<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		1.1	<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		1.2	<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		3.6	<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		6.8	<3.0
07/07/15	1.1		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		15	<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		5	<3.0
07/11/17	2.0		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		31	<3.0
07/12/18	2.8		<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		29	<3.0

Notes:

Prepared By: T. Dushek, 12/3/18

Checked By: A. Voit, 12/16/18

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

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	220		<60	<54	<54	<45	<82	<65	<47	<47	<49	<76	<87	<41	<60		3,800	<26
1/17/2012 Duplicate	140		<56	<51	<51	<41	<76	<61	<44	<43	<45	<71	<81	<38	<56		2,500	<24
04/03/12																	2,200	
07/10/12	110		<11	<10	<10	<8.3	<15	<12	<8.8	<8.7	<9.1	<14	<16	<7.7	<11		1,200	<4.8
01/04/13	140		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		2,300	<49
1/4/2013 Duplicate	<110		<110	<100	<100	<85	<160	<130	<91	<90	<94	<150	<170	<79	<110		1,800	<50
07/08/13	<110		<110	<100	<100	<83	<150	<120	<88	<87	<91	<140	<160	<77	<110		1,000	<48
01/21/14	170		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		2,700	<49
07/08/14	<110		<110	<100	<100	<84	<150	<120	<89	<88	<92	<140	<160	<78	<110		1,100	<49
01/15/15	<100		<52	<12	<52	<19	<150	<41	<12	<41	<29	<41	<62	<28	<62		1,600	<13
07/09/15	54		<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		970 M	<3.0
01/14/16	<100		<52	<12	<52	<19	<150	<41	<12	<41	<29	<41	<62	<28	<62		1,600	<13
07/07/16	33		<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		790	<4.8
01/19/17	96		<6.2	<26	<6.7	<10	<15	<21	<6.2	<7.7	<6.2	<8.8	<15	<7.2	<10		1,700	<12
07/11/17	40		3.0	<10	<3.0	<4.0	<5.9	<8.1	<3.0	<3.0	<3.0	<3.4	<6.1	<3.0	<4.0		800	<4.8
01/09/18	53		<12	<11	<13	<10	<15	<11	<12	<10	<11	<12	<15	<11	<12		980	<13
07/12/18	26		<11	<10	<12	<9.5	<14	<10	<11	<9.5	<10	<11	<14	<10	<11		620	<12

Notes:

Prepared By: T. Dushek, 12/3/18

Checked By: A. Voit, 12/16/18

- 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	650		<16	<18	<13	<25	<33	<19	<14	<18	<13	<14	<19	<23	<13		6,400	<6.5
07/15/10	1,100		<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110		8,100	<49
01/25/11	1,400		<560	<510	<510	<420	<770	<610	<440	<440	<460	<710	<820 Q	<390	<560		13,000	<240
07/25/11	630		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230		6,400	<99
01/18/12	<590		<12	<11	<11	<8.7	<16	<13	<9.3	<9.1	<9.6	<15	<17	<8.1	<12		6,200	<5.1
07/09/12	900 M		<11	<10	<10	<8.4	<15 M	<12	<8.9	<8.8	<9.2	<14	<16	<7.8	<11 M		10,000 M	<4.9
01/07/13	510		<230	<210	<210	<170	<320	<260	<190	<180	<190	<300	<340	<160	<230		4,400	<100
07/08/13	900		<280	<250	<250	<210	<380	<300	<220	<220	<230	<350	<400	<190	<280		8,300	<120
01/21/14	750		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230		7,800	<99
07/08/14	690		<560	<510	<510	<410	<760	<610	<440	<430	<450	<710	<810	<380	<560		8,500	<240
01/15/15	1,000		<130	<31	<130	<46	<390	<100	<31	<100	<72	<100	<150	<70	<150		10,000	<34
07/09/15	590		<100	<25	<100	<37	<310	<82	<25	<82	<58	<82	<120	<56	<120		6,800	<27
01/19/16	1,300		<130	<30	<130	<45	<380	<100	<30	<100	<71	<100	<150	<68	<150		12,000	<33
07/12/16	830		<24	<100	<26	<40	<59	<81	<24	<30	<24	<34	<61	<28	<40		9,500	<48
01/19/17	940		<49	<200	<53	<82	<120	<160	<49	<61	<49	<69	<120	<57	<82		11,000	<98
07/18/17	1,700		<60	<250	<65	<100	<150	<200	<60	<75	<60	<85	<150	<70	<100		19,000	<120
01/15/18	950		<12	<11	<13	<10	<15	<11	<12	<10	<11	<12	<15	<11	<12		10,000	<13
07/19/18	900 Q		<59	<54	<66	<51	<74	<54	<61	<51	<54	<59	<77	<56	<61		9,600	<66

Notes:

Prepared By: T. Dushak, 12/3/18

Checked By: A. Voit, 12/16/18

- 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 - 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	<200	<100	32,000	
12/28/93	710		<200	150	320	260	<200	140		180	150		<200	<100	<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	<2000	<1000	<1000	<2000	<1000	<1000	9,600	<1000
03/20/96	<1000		<1000	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<2000	<1000	<1000	<2000	<1000	<1000	7,000	<1000
07/09/96	<2500		<2500	<2500	<2500	<5000	<2500	<2500	<2500	<2500	<5000	<2500	<2500	<5000	<2500	<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		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	<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		3700 V	<300 V
07/19/05	390 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		5900 V	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		3900 V	<300 V
07/19/06	<300		<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300	<300		4,300	<300
01/23/07	150		<60	<60	<60	<60	<60	<60	<60	<60	<60	64	<60	<60	<60		1,700	92
07/10/07	180		<38	<44	<30	<22	<45	<57	<31	<14	<28	<24	<33	<14	<27		2,000	<11
01/28/08	150		<80	<94	<63	<48	<97	<120	<67	<29	<59	<52	<71	<30	<58		2,800	<24
07/24/08	630		<160	<180	<130	<250	<330	<190	<140	<180	<120	<140	<190	<230	<130		6,500	<64
01/21/09	250		<83	<91	<64	<130	<170	<97Q	<72	<92	<63	<71	<98	<120	<65		4,400	<33
1/21/2009 Duplicate	230		<83	<91	<64	<130	<170	<97Q	<72	<92	<63	<71	<98	<120	<65		4,000	<33
07/07/09	140		<81	<88	<62	<120	<160	<94	<69	<89	<61	<68	<95	<110	<63		2,800	<32
01/19/10	230		<85	<92	<66	<130	<170	<99	<73	<94	<65	<72	<100	<120	<67		2,000	<33
07/14/10	72		<44	<40	<40	<33	<61	<48	<35	<35	<36	<57	<65	<31	<44		1,200	<19
01/25/11	150		<110	<100	<100	<85	<160	<130	<91	<90	<94	<150	<170 Q	<79	<110		2,400	<50
04/05/11																	1,900	
07/20/11	64		<1.1	<1.0	<1.0	<0.85	<1.5	<1.2	<0.90	<0.89	<0.93	18	<1.6	<0.78	<1.1		790	<0.49
10/03/11																	1,500	
01/17/12	140		<57	<52	<52	<42	<77	<62	<45	<44	<46	<72	<82	<39	<57		2,700	<25
04/03/12																	7,600	
07/10/12	190 V		<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		980 V	<3.0 V
01/04/13	310		<110	<100	<100	<83	<150	<120	<88	<87	<91	<140	<160	<77	<110		3,300	<48
07/05/13	820		<110	<100	<100	<85	<160	<130	<91	<90	<94	<150	<170	<79	<110		6,600	<50
01/21/14	380		<120	<110	<110	<86	<160	<130	<92	<91	<95	<150	<170	<80	<120		4,400	<51
07/09/14	850		<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330	<160	<230		8,300	<99
01/15/15	460		<100	<25	<100	<38	<310	<83	<25	<83	<58	<83	<130	<56	<130		8,500	<27
07/08/15	430		<100	<24	<100	<37	<310	<82	<24	<82	<57	<82	<120	<55	<120		8,800	<27
01/14/16	260		<100	<25	<100	<37	<310	<82	<25	<82	<58	<82	<120	<56	<120		5,200	<27
07/12/16	140		<24	<100	<27	<41	<59	<82	<24	<31	<24	<35	<61	<29	<41		6,000	<49
01/19/17	110		<13	<52	<14	<21	<30	<42	<13	<16	<13	<18	<31	<15	<21		2,600	<25
07/18/17	110		<24	<100	<27	<41	<59	<82	<24	<31	<24	<35	<61	<29	<41		4,100	<49
01/11/18	100		<23	<21	<26	<20	<29	<21	<24	<20	<21	<23	<30	<22	<24		2,700	<26
07/18/18	100 Q		<23	<21	<26	<20	<29	<21	<24	<20	<21	<23	<30	<22	<24		2,900	<26

Notes: Prepared By: T. Dushek, 12/3/18 Checked By: A. Voit, 12/16/18

- 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 - 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	2,100	<1500	<1500	<1500	<1500	<1500	<1500	4,700	2,500	<1500	2,600	<1500	<1500	<1500	14,000	8,600
01/21/04	6,700	<3000	<3000	<3000J	<3000	<3000J	<3000	19,000	11,000	<3000	<3,000J	<3000	<3000	<3,000J	64,000	19,000
07/14/04	870J	<600	<600	<600J	<600	1,300	<600	<600	1,200	<600J	<600J	<600	<600	<800	9,600	3,900
01/20/05	1,300 V	<600 V	<600 V	<600 V	<600 V	<600 V	<600 V	2,200 V	910 V	3,100 V	770 JV	<600 V	<600 V	<600 V	11,000 V	1500 V
01/23/08	630	<160	<180	<130	<250	<330	<190	<140	<180	<120	<140	<190	<230	<130	6,500	<64
07/24/08	1,100	<160	<180	<130	<250	<330	<190	<140	<180	<130	<140	<190	<230	<130	10,000	<65
01/21/09	1,000	<170	<180	<130	<250	<340	<190Q	<140	<180	<130	<140	<200	<230	<130	9,800	<65
01/26/11	520	<230	<210	<210	<170	<310	<250	<180	<180	<190	<290	<330 Q	<160	<230	6,200	<99
07/25/11	570	<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	4,300	<0.48
01/18/12	340 M	<12	<11	<11	<8.6	<16 M	<13	9.2 MY	<9.1 Y	<9.5 M	<15	<17 MY	<8	<12 M	4,100 M	<5.1 Y
07/10/12	140	<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	1500	<3.0
01/07/13	560	<110	<100	<100	<85	<150	<120	<90	<89	<93	<140	<160	<78	<110	8,900	<49
07/08/13	430	<120	<110	<110	<88	<160	<130	<94	<92	<97	<150	<170	<82	<120	5,000	<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	5.3
07/13/10	<3
01/25/11	6.6
07/15/11	<1.1
01/17/12	<3
07/02/12	4.4
01/08/13	<3
07/10/13	<3
01/20/14	2.0
07/15/14	<3
01/19/15	2.0
07/08/15	<3
01/15/16	<3
07/11/16	0.55
01/23/17	2.10
07/20/17	0.55 B
01/09/18	<3.0
07/16/18	2.60

Notes:

- 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.

Prepared By: T. Dushek, 12/3/18

Checked By: A. Voit, 12/16/18

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

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

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, 8/5/13

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

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

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

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 - DFOMW11

Date	Pentachlorophenol
01/19/10	3,900
07/13/10	4,800
01/25/11	3,100
07/15/11	5,000
01/17/12	2,200
07/02/12	4,200
7/2/2012 Duplicate	4,000
01/08/13	3,300
07/10/13	580
01/20/14	2,400
1/20/14 Duplicate	3,000
07/15/14	5,800
01/19/15	3,100
07/08/15	5,300
01/15/16	3,100
07/11/16	2,900
01/23/17	2,800
07/20/17	810
01/09/18	1,300
07/16/18	4,100

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, 12/3/18

Checked By: A. Voit, 12/16/18

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

Date	Pentachloropheno
01/19/10	3,600
07/13/10	2,600
01/25/11	7,900
1/25/2011	
Duplicate	7,300
07/15/11	4,800
7/15/2011	
Duplicate	3,000
01/17/12	7,600
1/17/2012	
Duplicate	8,400
07/02/12	9,500
01/08/13	5,400
1/8/2013	
Duplicate	5,500
07/10/13	6,100
7/10/2013	
Duplicate	5,800
07/15/14	5,200
7/15/2014	
Duplicate	6,100
01/19/15	10,000
1/19/2015	
Duplicate	10,000
07/08/15	4,500
7/8/2015	
Duplicate	4,500
01/19/16	5,900
07/11/16	4,900
7/11/2016	
Duplicate	4,800
01/23/17	5,000
1/23/2017	
Duplicate	4,500
07/20/17	2,300
7/20/2017	
Duplicate	2,800
01/09/18	2,400
1/9/2018	
Duplicate	2,600
07/16/18	2,300
7/16/2018	
Duplicate	1,700

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, 12/3/18

Checked By: A. Voit, 12/16/18

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
01/09/18	<3.0
07/10/18	<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, 12/3/18

Checked By: A. Voit, 12/16/18

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
01/30/18	<3.0
07/10/18	<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, 12/3/18

Checked By: A. Voit, 12/16/18

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
01/30/18	<3.0
07/10/18	<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, 12/3/18

Checked By: A. Voit, 12/16/18

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
01/09/18	<3.0
07/10/18	<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, 12/3/18

Checked By: A. Voit, 12/16/18

B3

Volatile Organic Compounds

Volatile Organic Compounds - Historical Data
 WAULECO, INC - Wausau Facility
 Well - W01A

Parameter	06/14/92	09/17/92	12/18/92	03/23/93	06/28/93	12/28/93	06/21/94	07/05/95	07/10/96	07/11/97	06/23/98	06/09/99	07/18/00	01/31/01	07/09/01	08/06/02	07/22/03	07/13/04	07/21/05	07/18/06	07/11/07	07/23/08	07/06/09	07/13/10	07/19/11	07/06/12	07/05/13	07/07/14	07/07/15	07/06/16	07/11/17	07/12/18
1,1,1,2-Tetrachloroethane				<1		<1	<1	<1	<1	<0.2	<0.2	<0.2	<4	<0.20	<2.0	<0.90	<1.8	<0.90	<0.50	<0.70	<0.60	<0.60	<0.60	<0.24	<0.40							
1,1,1-Trichloroethane	5	50	5	1	1	1	1	1.5	1.0	0.3	0.3	0.3	3	0.54	<1.5	<0.50	<1.0	<0.50	<0.60	<0.50	<0.60	<0.60	<0.60	<0.21	<0.29							
1,1,2,2-Tetrachloroethane	<5	<50	<5	<1	<1	<1	<1	1.5	<1	<0.2	<0.2	<0.2	<4	<0.20	<2.0	<0.80	<1.6	<0.80	<0.15	<0.13	<0.14	3.5	<0.14	<0.19	<0.30							
1,1,2-Trichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<2	<0.10	<1.0	<0.90	<1.8	<0.90	<0.40	<0.50	<0.50	<0.50	<0.50	<0.26	<0.30							
1,1-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<4	<0.20	<2.0	<0.50	<1.0	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28							
1,1-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2	<9	<0.20	<4.5	<0.40	<0.80	<0.40	<0.50	<0.30	<0.40	<0.40	<0.40	<0.24	<0.29							
1,1-Dichloropropene				<1		<1	<1	<1	<1	<0.2	<0.3	<0.3	<4	<0.20	<2.0	<0.50	<1.0	<0.50	<0.50	<0.60	<0.60	<0.50	<0.50	<0.24	<0.40							
1,2,3-Trichlorobenzene				<1	<1	<1	<1	<1	<1	<0.5	<0.4	<0.4	<5	<0.30	<2.5	<0.50	<1.0	<0.50	<0.60	<0.50	<0.50	<0.50	<0.50	<0.30	<0.40							
1,2,3-Trichloropropane				<1	<1	<1	<1	<1	<1	<0.3	<0.2	<0.2	<3	<0.10	<1.5	<0.80	<1.6	<0.80	<0.60	<0.70	<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	<5	<0.30	<2.5	<0.50	<1.0	<0.50	<0.70	<0.70	<0.40	<0.40	<0.40	<0.30	<0.30							
1,2,4-Trimethylbenzene				140	430	68	320		89.6	300	290	100	130	2.8	180	45	34	18	<0.40	15	3	3.8	23	16	16		18	9	8.1	8	5.5	16
1,2-Dibromo-3-chloropropane				<3	<3	<3	<3		<3	<0.3	<0.3	<0.3	<3	<0.40	<1.5	<0.40	<0.80	<0.40	<1.1	<0.30	<0.40	<0.40	<0.40	<0.40	<0.20	<0.28						
1,2-Dibromothane				<2	<2	<2	<2		<2	<0.2	<0.4	<0.4	<3	<0.10	<1.5	<0.30	<0.60	<0.30	<0.60	<0.50	<0.13	<0.13	<0.13	<0.16	<0.30							
1,2-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<3	<0.20	<1.5	<0.70	<1.4	<0.70	<0.50	<0.50	<0.40	<0.40	<0.40	<0.23	<0.40							
1,2-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<4	<0.20	<2.0	<0.90	<1.8	<0.90	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30							
cis-1,2-Dichloroethane				<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<4	<0.20	<2.0	<0.50	<1.0	<0.50	<0.60	<0.40	<0.40	<0.40	<0.40	<0.25	<0.30							
trans-1,2-Dichloroethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<8	<0.10	<4.0	<0.40	<0.80	<0.40	<0.60	<0.40	<0.50	<0.50	<0.50	<0.25	<0.30							
1,2-Dichloropropane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<3	<0.20	<1.5	<0.40	<0.80	<0.40	<0.50	<0.50	<0.21	<0.21	<0.21	<0.22	<0.29							
1,3,5-Trimethylbenzene				38	110	21	130		14.4	130	140	150	97	0.45	97	35	21	10	<0.50	12	2.3	2.5	27	17	16							
1,3-Dichlorobenzene				<1	<1	<1	<1	<1	<1	<0.7	<0.4	<0.4	<4	<0.10	<2.0	<0.50	<1.0	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30							
cis-1,3-Dichloropropene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<2	<0.10	<1.0	<0.60	<1.2	<0.60	<0.12	<0.15	<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	<4	<0.10	<2.0	<1.2	<2.4	<1.2	<0.60	<0.50	<0.19	<0.19	<0.19	<0.23	<0.30							
trans-1,3-Dichloropropene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<5	<0.10	<2.5	<0.70	<1.4	<0.70	<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	<4	<0.10	<2.0	<0.50	<1.0	<0.50	<0.50	<0.60	<0.50	<0.50	<0.50	<0.23	<0.30							
2,2-Dichloropropane				<1	<1	<1	<1		<1	<0.2	<0.5	<0.5	<2	<0.20	<1.0	<0.60	<1.2	<0.60	<0.60	<0.60	<0.30	<0.30	<0.30	<0.25	<0.28							
2-Butanone (MEK)	<10	<100	<10																<7.0	<5.0	<4.0	<4.0		<4.0	<3.0							
2-Chloroethyl vinyl ether								<10																								
2-Chlorotoluene				<1	<1	<1	<1		<1	<0.4	<0.3	<0.3	<4	<0.10	<2.0	<0.60	<1.2	<0.60	<0.50	<0.50	<0.30	<0.30	<0.30	<0.22	<0.30							
2-Hexanone	<10	<100	<10																<7.0	<8.0	<4.0	<4.0		<4.0	<4.0							
4-Chlorotoluene				<1	<1	<1	<1		<1	<0.3	<0.3	<0.3	<3	<0.20	<1.5	<0.60	<1.2	<0.60	<0.40	<0.60	<0.30	<0.30	<0.30	<0.21	<0.29							
4-Methyl-2-Pentanone (MIBK)	<10	<100	<10																<7.0	<6.0	<3.0	<3.0		<3.0	<3.0							
Acetone	<10	2230	11.7																<9.0	<10.0	<7.0	<7.0		<7.0	<5.0	<5.0						
Benzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<1	<0.10	<0.5	0.51	<0.80	<0.40	<0.40	<0.40	<0.16	<0.16	<0.16	<0.19	<0.30							
Bromobenzene				<1	<1	<1	<1		<1	<0.3	<0.2	<0.2	<5	<0.10	<2.5	<0.50	<1.0	<0.50	<0.50	<0.60	<0.30	<0.30	<0.30	<0.20	<0.30							
Bromochloromethane				<1	<1	<1	<1		<1	<0.4	<0.2	<0.2	<4	<0.10	<2.0	<0.50	<1.0	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.22	<0.40							
Bromodichloromethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<2	0.20	<1.0	<0.40	<0.80	<0.40	<0.13	<0.15	<0.19	<0.19	<0.19	<0.20	<0.30							
Bromoform	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.2	<0.2	<1	<0.20	<0.5	<0.60	<1.2	<0.60	<0.50	<0.21	<0.50	<0.50	<0.50	<0.22	<0.24							
Bromomethane	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.3	<0.9	<0.9	<4	<0.40	<2.0	<0.80	<1.6	<0.80	<0.80	<0.90	<0.40	<0.40	<0.40	<0.50	<0.30							
n-Butylbenzene				34	130	28	140		15.2	160	180	150	170	0.32	31	70	48	18	14	11	2.2	<0.24	16	6.7	7.9							
sec-Butylbenzene				12	24	8.7	32		3.8	14	48	31	18	4.2	<0.5	12	5.6	3.8	8													

Volatile Organic Compounds - Historical Data
 WAULECO, INC - Wausau Facility
 Well - W01A

Parameter	06/14/92	09/17/92	12/18/92	03/23/93	06/28/93	12/28/93	06/21/94	07/05/95	07/10/96	07/11/97	06/23/98	06/09/99	07/18/00	01/31/01	07/09/01	08/06/02	07/22/03	07/13/04	07/21/05	07/18/06	07/11/07	07/23/08	07/06/09	07/13/10	07/19/11	07/06/12	07/05/13	07/07/14	07/07/15	07/06/16	07/11/17	07/12/18
Carbon disulfide	<5	<50	<5												170				<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60							
Carbon tetrachloride	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4	<3	<0.10	<1.5	<0.60	<1.2	<0.60	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	<0.23	<0.40						
Chlorobenzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<3	<0.10	<1.5	<0.80	<1.6	<0.80	<0.50	<0.40	<0.30	<0.30	<0.30	<0.30	<0.24	<0.30						
Dibromochloromethane	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3	<4	<0.20	<2.0	<0.40	<0.80	<0.40	<0.60	<0.60	<0.23	<0.23	<0.23	<0.19	<0.26							
Chloroethane	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8	<5	0.58	<2.5	<0.50	<1.0	<0.50	<0.70	1.2	0.48	1.2	<0.40	<0.40	<0.30							
Chloroform	6.19	<50	<5	5.2	5.2	4.2	1.4	1.1	2.3	<0.2	<0.2	<0.2	<3	4.2	<2.5	<0.60	<1.2	<0.60	1.3	0.61	0.41	0.23	<0.22	0.57	<0.23							
Chloromethane	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9	<3	0.27	<1.5	<0.40	<0.80	<0.40	<0.24	0.32	<0.30	<0.30	0.56B	<0.40	<0.40							
Dibromomethane				<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2	<4	<0.20	<2.0	<0.50	<1.0	<0.50	<0.70	<0.80	<0.40	<0.40	<0.40	<0.40	<0.24	<0.30						
Dichlorodifluoromethane				<2	<2	<2	<2	<2	<2	<0.3	<1.2	<1.2	<5	<0.10	<2.5	<0.50	<1.0	<0.50	<0.60	<0.29	<0.40	<0.40	<0.40	<0.40	<0.26	<0.30						
Diisopropyl Ether				<1	<1	<1	<1	<1	<1					<0.3	<1	<0.10	<0.5	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.20	<0.30							
Ethylbenzene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<1	<0.10	<0.5	<0.50	<1.0	<0.50	<0.50	<0.40	<0.50	<0.50	<0.50	<0.20	<0.30							
Hexachlorobutadiene				<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<6	<0.20	<3.0	<0.50	<1.0	<0.50	<0.60	<0.90	<0.60	<0.60	<0.60	<0.30	<0.40							
Isopropylbenzene				26	25	4.2	27		3.1	<0.2	38	12	<1	0.47	16	6.1	1.1	2	<0.40	<0.60	<0.20	0.91	0.31	<0.18	<0.30							
p-Isopropyltoluene				<1	39	9.7	50		4.0	24	67	60	34	0.89	47	18	11	5	<0.40	15	3.2	3.4	15	11	10							
Methyl tert-butyl ether				<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<11	<0.30	<5.5	<0.50	<1.0	<0.50	<0.60	<0.40	<0.23	<0.23	<0.23	<0.29	<0.30							
Methylene chloride	<5	116	14.1	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<19	<0.40	<9.5	<1.0	<2.0	3 J,A,B,Q	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40							
Naphthalene	<11	<10	<10	6	38	4.2	19	2.9	3.8	<0.8	17	7.5	<7	0.89	6.9 e	0.95	<1.0	0.95 J	<0.60	<0.70	<0.60	<0.60	1.3	<0.40	<0.40	<0.31	2.7	1.5	1.3	1.2	1.1	1.9
n-Propylbenzene				7	25	5.2	23		5.0	<0.3	76	10	<3	0.47	15	6	2.4	1.9	<0.40	0.57	0.26	0.27	0.61	0.5	0.4							
Styrene	<5	<50	<5	4.4		<1	<1	<1	<1	<0.2	<0.2	<0.2	<2	<0.10	<1.0	14	4.5	4.7	<0.50	<0.50	<0.30	<0.30	<0.30	<0.20	<0.30							
Tetrachloroethene	<5	<50	<5	<1	<1	<1	6.3	<1	<1	<0.3	<0.6	<0.6	<4	<0.10	<2.0	4.7	1.5	1.6	<0.40	<0.29	<0.40	<0.40	<0.40	<0.30	<0.30							
Tetrahydrofuran																			0.60	<7.0	<4.0	<4.0	<4.0	<3.0	<4.0							
Toluene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<1	<0.20	<0.5	0.95	<1.0	<0.50	<7.0	<0.40	<0.20	<0.20	<0.20	<0.22	<0.30							
Trichloroethene	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3	<3	<0.20	<1.5	<0.60	<1.2	<0.60	<0.15	<0.15	<0.15	<0.15	<0.15	<0.21	<0.40							
Trichlorofluoromethane				<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6	<4	<0.20	<2.0	<0.40	<0.80	<0.40	<0.50	<0.70	<0.40	<0.40	<0.40	<0.20	<0.40							
Vinyl acetate	<10	<100	<10																<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0							
Vinyl chloride	<10	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5	<4	<0.10	<2.0	<0.30	<0.60	<0.30	<0.12	<0.15	<0.15	<0.15	<0.15	<0.18	<0.19							
Xylene, m & p-				<2	15	2.8	15	<2	4.6	<0.4	24	<0.3	<2	<0.20	4.4	2.5	<1.2	<0.60	<1.0	<0.9	<0.50	<0.50	<0.50	<0.50	<0.60	<0.90	<1.0	<1.1	0.81	<0.80	<0.80	
Xylene, o-				8.9	30	6.3	49	1.4	7.4	<0.2	<0.5	24	<1	0.16	<0.5	<0.50	<1.0	<0.50	<0.40	<0.60	<0.50	<0.50	<0.50	<0.24	<0.29							
Xylenes, Total	5.88	<50	18.3																<1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.89							

Prepared By: T. Dushek, 12/5/18

Checked by: A. Voit, 12/16/18

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 - 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	7/12/2018	7/12/2018 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	4.5											
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				490	850		623.6	1400	1300	740	510	1300	1200	600	520			600	680	710	750	880	110	130	1000	970
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				120	200		21.291	420	415	360	300	530	530	260	200											
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	<20	<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	<14	<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	<20	<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	<20	<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	<20	<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	1620	16.8									<450	<450	<100	<50											
Benzene	<5	<50	<5	2.8	4	<20	<10	<0.2	<0.3	<8.0	<8.0	<20	<20	<3.8	<3.0											
Bromobenzene				<1	<1	<20	<10	<0.3	<0.2	<10	<10	<25	<25	<4.0	<3.0											
Bromo-chloromethane				<1	<1	<20	<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				85	140		91.59	140	180	260	230	160	31	31	21											
sec-Butylbenzene				36	43		<10	30	72.5	31	35	59	18	18	14											
tert-Butylbenzene				<1	<1	<20	<10	<0.3	<0.3	<10	<10	<25	<25	<4.0	6.2											

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	7/12/2018	7/12/2018 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	6.24	<50	<5	3.2	4.3	<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	<10	<0.1	<0.2	<10	<10	<35	<35	<4.8	<3.0											
Dichlorodifluoromethane				<2	<2	<20	<10	<0.3	<1.2	<10	<10	<30	<30	<5.2	<3.0											
Diisopropyl ether										<10	<10	<25	<25	<4.0	<3.0											
Ethylbenzene	25.1	<50	25.2	17	18	<20	<10	35	67.5	<10	<10	<25	9.7	9.7	11											
Hexachlorobutadiene				<1	<1	<10	<10	<0.5	<0.6	<10	<10	<30	<30	<6.0	<4.0											
Isopropylbenzene				38	35		11	60	85	21	22	29	29	<3.6	22											
p-Isopropyltoluene				<1	<1	<10	<10	<0.4	72.5	48	47	80	87	25	26											
Methyl tert-butyl ether (MTBE)										<10	<10	<30	<30	<5.8	<3.0											
Methylene chloride	<5	745	10.4	<3	<3	<60	<30	<0.3	<0.5	<20	92	28	25	25	9.2 B											
Naphthalene	55.4	84.6	74	140	49	73	85	180	195	120	93	150 A	140 A	85	82	49	45	90	89	87	91	110	10	12	100	100
n-Propylbenzene				43	49		67.52	<0.3	140	46	31	48	47	24	35											
Styrene	<5	<50	<5	16	<1	<10	<10	<0.2	<0.2	24	<10	<25	<25	<4.0	<3.0											
Tetrachloroethene	<5	<50	<5	<1	7.6	<20	<10	<0.3	<0.6	<10	<10	<20	<20	<6.0	<3.0											
Tetrahydrofuran												<350	<350	<60	<40											
Toluene	5.61	<50	<5	3.5	3.8	<20	<10	<0.2	40	<10	<10	<20	<20	<4.4	<3.0											
Trichloroethene	51.1	<50	27.6	16	10	<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-				83	52	<40	155	180	210	35	24	<50	<50	25	23			17	<20	<22	31	49	<4.0	<4.0	24	23
Xylene, o-				170	200	97	218	550	440	280	240	290	270	160	120			83	91	90	95	120	69	64	110	100
Xylenes, Total	181	257	292	253	252	97	373	730	650	315	264	290	270	185	143			100	91	90	126	169	69	64	134	123

Prepared By: T. Dushek, 12/5/18

Checked by: A. Voit, 12/16/18

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	7/18/2018
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	1,400	630		470	650	490	500	390	310	700	440
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	500	92									
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	48	<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	94	25									
sec-Butylbenzene	71	37									
tert-Butylbenzene	13	11									
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	18	13									
Hexachlorobutadiene	<6.0	<8.0									
Isopropylbenzene	22	41									

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	7/18/2018
p-Isopropyltoluene	78	18									
Methyl tert-butyl ether	<5.8	<6.0									
Methylene chloride	19	23 B									
Naphthalene	95	55	18	47	40	34	38	25	27	53	11
n-Propylbenzene	74	33									
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-	55	21		16	<20	<20	<22	<22	21	18	<8.0
Xylene, o-	200	87		72	90	66	67	45	59	100	25
Xylenes, Total	255	108		88	90	66	67	45	80	118	25

Prepared By: T. Dushek, 12/5/18

Checked by: A. Voit, 12/16/18

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	<5	<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	<5	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.10	<0.2	<0.90
1,1-Dichloroethane	<5	<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	<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	<1	<0.5	<0.3	<0.3	<0.5	<0.30	<0.5	<0.50
1,2,4-Trimethylbenzene				<1	5	3.8	8.2		4.6	<0.7	5.8	1.3	<0.2	<0.10	<0.2	<0.50
1,2-Dibromo-3-chloropropane				<3	<3	<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	<5	<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	2.4	1.8	3.3		2.4	<0.4	3.2	1.3	<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	12.3	1040	<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	1.6	3		3.6	<0.6	3.2	3.1	<0.4	<0.10	<0.4	<0.50
sec-Butylbenzene				<1	1.6	<1	<1		1.1	<0.3	1.1	<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	0.8	<0.2	<0.1	<0.10	<0.1	<0.50
p-Isopropyltoluene				<1	<1	<1	<1		1.6	<0.4	1.4	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	534	<10	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0
Naphthalene	<10	91.6	<10	<1	1.5	<1	<1	<1	1.4	<0.8	1.3	<1.1	<0.7	<0.20	<0.7	<0.50
n-Propylbenzene				<1	<1	<1	<1		1.1	<0.3	1.1	<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	1.3	<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	8.9	<1	2.2	1.8	4.4	1	3.5	0.3	0.55	0.76	0.46 e	2.1
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	6.4	<1	1.9	<1	2.2	<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	1.4	<0.3	<0.2	<0.10	<0.1	<0.50
Xylenes, Total	<5	<50	<5	<3	6.4	<3	1.9	<3	2.2	<0.6	1.4	<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	07/11/18
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	12	11		<0.40	<0.60	<0.50	<0.40	0.54	<0.40
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	0.58	0.4							
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	1.6	<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	07/11/18
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	<0.40	<0.30							
n-Butylbenzene	<0.50	14	<0.60	<0.40	<0.24	<0.24	<0.24	0.57	0.38							
sec-Butylbenzene	<0.50	8	<0.50	<0.50	<0.29	<0.29	<0.29	3.6	2.3							
tert-Butylbenzene	<0.50	5.6	<0.50	<0.50	<0.23	<0.23	<0.23	0.88	1.1							
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	0.3	0.88	0.36	0.93	1.2							
Chloromethane	<0.40	<0.40	<0.24	<0.30	<0.30	<0.30	0.93B	<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	1.7	0.31							
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	3	0.96							
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	3.1 J,A,B,Q	<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	3.9	2.2	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90
n-Propylbenzene	<0.50	<0.50	<0.40	<0.40	<0.20	<0.20	<0.20	3.8	0.81							
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	0.33	<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	2.1	<0.15	3.6 M	2.8	2.9	7.7	3.4	8.8	6.5							
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	0.5	3.2	<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	<0.80
Xylene, m & p-	<0.50	<0.50	<1.0	<0.60	<0.50	<0.50	<0.50	15	<0.60	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40
Xylenes, Total				<1.5	<1.0	<1.0	<1.0	15.5	3.2	<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 12/5/18

Checked by: A. Voit, 12/16/18

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	07/12/18
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	14
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	07/12/18
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	7.6	5.9									
Hexachlorobutadiene	<50	<30	<30	<7.5	<2.0									
Isopropylbenzene	<50	45	53	8.1	17									
p-Isopropyltoluene	66	76	110	51	27									
Methyl tert-butyl ether	<50	<12	<12	<7.3	<1.5									
Methylene chloride	<100	<25	<25	33	2.3 B									
Naphthalene	200	100	110	96	36	2.1	25	26	11	12	12	1.6	<0.90	2.4
n-Propylbenzene	78	74	96	79	28									
Styrene	<50	<15	<15	<5.0	<1.5									
Tetrachloroethene	<50	<20	<20	7.7	4.8									
Tetrahydrofuran		<200	<200	<75	<20									
Toluene	<50	<10	<10	<5.5	<1.5									
Trichloroethene	<60	<7.5	<7.5	<5.3	22									
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-	82	40	42	22	12		<9.0	<9.0	2.7	5.7	5.7	1.5	<0.80	<0.80
Xylene, o-	300	190	210	170	93		48	45	40	41	41	9.2	1.5	11
Xylenes, Total	382	230	252	192	105		48	45	42.7	46.7	46.7	10.7	1.5	11

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	<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	1980	<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

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
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	8.76	<50	<5	1.8	1.6	<1	1.3	<1	<1	0.9	1.6	1.6	<0.5	1.4	1.6
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	1210	<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	6.24	<50	<5	<1		<1	<1		<1	<0.2	<0.2	<0.2	<0.2	<0.10	<0.2
Tetrachloroethene	<5	7	<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												

Volatile Organic Compounds - Historical Data
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	07/10/18
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	<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	<0.50	<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	<0.40	<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	<0.40	<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							

Volatile Organic Compounds - Historical Data
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	07/10/18
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	0.26	<0.22	<0.15	0.76							
Chloromethane	<0.40	<0.40	<0.40	<0.24	<0.30	<0.30	0.58B	0.5B	<0.40	<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	<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	<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	<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	<1.2

Prepared By: T. Dushek, 12/5/18

Checked by: A. Voit, 12/16/18

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	07/18/18
p-Isopropyltoluene		<1	<1	<1		<1	<0.4	1.4	<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	J,A,B,Q	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40								
Naphthalene		<1	<1	2.2	<1	3.1	7.7	4.6	1.8	0.81	<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	1.2	1.3	1.6	1.8	<0.90	1.5
n-Propylbenzene		1.7	<1	3.2		7.8	12	4.8	0.8	<0.3	1.9	<0.3	<0.50	1.8	1.1 J	<0.40	<0.40	<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	1.3	<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	<0.15	<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	0.83	<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	1.3	1.8	<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	<0.80	
Xylene, o-		<1	<1	<1	<1	1.1	<0.2	1.4	<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	<1.2	

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	7/18/2018	7/18/2018 Duplicate			
p-Isopropyltoluene		<1	<1	3.4		<10	<0.4	35	7	<4	<2.0	16 j	<13	<13	<0.50	<0.40	<20 *	<8.5	<8.5	12	<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	4.7 A,B,Q	<0.40	65 Q*	170 A	<25	<25	<13	<13	23	27 B	27 B																
Naphthalene	62.6	70	100	12	110	79.4	66	140	125	130	110	140	120	110	4.4	120 A	77 *	150	180	170	110	130	160	90	100	11 V	11 V	55	57	46	8.6	8.8	<9.0	<9.0	28	33	28	29			
n-Propylbenzene		38	57	<1		63.5	34	78	49	54	48	50	59	66	2.4	64	40 *	90	89	87	67	66	93	46	51																
Styrene	<5	<1	<1	<1	<10	<0.2	<0.2	<4	<4	<2.0	<5.0	<13	<13	<0.50	<0.50	<25 *	<15	<15	<15	<7.5	<7.5	<4.0	<6.0	<6.0																	
Tetrachloroethene	<5	<1	3.6	2.8	<10	<10	<0.3	<0.6	<12	<8	<2.0	<10	<13	<13	<0.50	1.8	<15 *	<20	<20	<20	<10	<10	<6.0	<6.0	<6.0																
Tetrahydrofuran																<7.0	<350 *	<200	<200	<100	<100	<60	<80	<80																	
Toluene	11.3	8.9	12	10	57	<10	<0.2	18	<4	7.1	<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	31.5	22	30	25	20	25.6	<0.2	35	<6	<6	19	9.4 j	<15	<15	0.67	17	<7.5 *	23	19	29	17	16	21	9	9.7																
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-		65	61	16	300	92.1	20	68	37	49	25	47	55	52	1.8 j	34	<45 *	51	54	58	33	32	41	30	32		25	25	<20	<11	<11	15	16	18	19	29	29				
Xylene, o-		180	200	210	350	172.8	80	170	96	110	9.4	140	110	83	3.1	23	32 *	60	88	93	34	28	32	87	94		84	79	58	39	38	28	31	84	100	97	93				
Xylenes, Total	252															57	32 *	111	142	151	67	60	185	117	126		109	104	58	39	38	43	47	102	119	126	122				

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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 - W11

Parameter	12/17/92	06/30/93	12/28/93	06/21/94	07/05/95	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	07/19/11	07/09/12	07/01/13	7/1/2013 Duplicate	07/08/14	07/06/15	07/05/16	07/17/17	07/11/18
Bromoform	<5		<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	<10		<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	<0.50	<0.30							
n-Butylbenzene		<1	<1	<1		<1	<0.6	<0.3	2.3	<0.4	0.22	<0.4	<0.50	<0.50	<0.50	<0.60	<0.40	0.31	<0.24	<0.24	<0.23	<0.29								
sec-Butylbenzene		<1	<1	<1		<1	<0.3	<0.2	2.4	1.3	0.86	<0.3	<0.50	<0.50	<0.50	<0.50	<0.52	2.2	<0.29	1.6	1.4	1								
tert-Butylbenzene		<1	<1	<1		<1	<0.3	<0.3	0.8	<0.1	0.33	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<0.23	0.7	<0.20	0.49								
Carbon disulfide	<5															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60	<0.60							
Carbon tetrachloride	<5	<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	<0.23	<0.40							
Chlorobenzene	<5	<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	<0.30	<0.24	<0.30							
Chlorodibromomethane	<5	<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	<10	<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	<0.40	<0.30							
Chloroform	<5	<1	<1	17	15	34.7	36.0	<0.2	<0.2	<0.5	0.37	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	<0.22	<0.22	<0.22	<0.15	<0.23								
Chloromethane	<10	<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	1.3AB	<0.40	<0.40								
Dibromomethane			<1	<1		<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	<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	<0.40	<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	<5	<1	<1	<1	<1	<1	<0.2	<0.2	0.2	<0.1	0.11	<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	1.8	<0.1	0.29	<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	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	3 J,A,B,Q	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40	<0.33	0.70	0.94	<1.2	<0.50	<0.90	<0.90	<0.90
Naphthalene	<10	<1	<1	<1	<1	<1	<0.8	<1.1	3.8	<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	<0.33	0.70	0.94	<1.2	<0.50	<0.90	<0.90	<0.90
n-Propylbenzene		<1	<1	<1		<1	<0.3	<0.2	1	<0.3	0.17	<0.3	<0.50	<0.50	<0.50	<0.40	<0.40	<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	1.4	<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	1.3	<1	<0.2	<0.3	1.6	0.62	2.2	<0.3	<0.60	<0.60	<0.60	0.34	0.62	1.3	0.28	0.76	0.7	0.41								
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	<0.90	<1.0	<1.1	<0.80	<0.80	<0.80	
Xylene, o-		<1	<1	<1	<1	<1	<0.2	<0.5	4.7	<0.1	0.65	<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	<0.50	<0.40	<0.40	<0.40	
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.4	<1.5	<1.6	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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 - W12

Parameter	12/17/92	06/29/93	12/28/93	06/21/94	07/06/95	07/08/96	07/11/97	06/23/98	06/08/99	07/17/00	01/30/01	07/10/01	08/05/02	07/22/03	07/13/04	07/19/05	07/19/06	07/09/07	07/23/08	07/06/09	07/14/10	07/18/11	07/09/12	07/01/13	07/07/14	07/06/15	07/05/16	07/11/17	07/11/18	
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	<5	<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	<5	<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	<5	<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	<0.26	<0.30								
1,1-Dichloroethane	<5	<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	<5	<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	<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	<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	<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	<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		2.1	<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	<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	<1.1	<0.30	<0.40	<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	<0.60	<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	<5	<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	<5	<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	<0.25	<0.30								
1,2-Dichloropropane	<5	<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	<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	<0.23	<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	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3	<0.2	<0.10	<0.2	<0.60	<0.60	<0.60	<0.12	<0.15	<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	<0.60	<0.50	<0.19	<0.19	<0.19	<0.19	<0.23	<0.30								
trans-1,3-Dichloropropene	<5	0	<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	<0.19	<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	<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	<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	<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	<0.21	<0.29								
4-Methyl-2-Pentanone (MIBK)	<10															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0							
Acetone	<10															<9.0	<10.0	<7.0	<7.0	<7.0	<7.0	<5.0	<5.0							
Benzene	<5	<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	<1	<0.4	<0.2	<0.2	<0.4	<0.10	<0.4	<0.50	<0.50	<0.50	<0.70	<0.21	<0.21	<0.21	<0.21	<0.22	<0.40								
Bromodichloromethane	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<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 - W12

Parameter	12/17/92	06/29/93	12/28/93	06/21/94	07/06/95	07/08/96	07/11/97	06/23/98	06/08/99	07/17/00	01/30/01	07/10/01	08/05/02	07/22/03	07/13/04	07/19/05	07/19/06	07/09/07	07/23/08	07/06/09	07/14/10	07/18/11	07/09/12	07/01/13	07/07/14	07/06/15	07/05/16	07/11/17	07/11/18	
Bromoform	<5		<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	<10		<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	0.28	<0.3	<0.50	<0.50	<0.50	<0.50	<0.29	<0.29	<0.29	<0.29	<0.21	<0.30								
tert-Butylbenzene		<1	<1	<1		<1	<0.3	<0.3	<0.3	<0.1	0.15	<0.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.23	<0.23	<0.23	<0.20	<0.40								
Carbon disulfide	<5															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.60								
Carbon tetrachloride	<5	<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	<5	<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	<5	<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	<10	<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	<5	<1	<1	<1	<1	<1	5.2	1	0.7	1.6	1.8	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	0.23	<0.22	<0.22	<0.15	1.1								
Chloromethane	<10	<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	0.48B	<0.40	<0.40									
Dibromomethane			<1	<1	<1	<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	<0.24	<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	<5	<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	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	2.9	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	
Naphthalene	<10	<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								
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	<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	<1	<1	<0.3	<0.6	<0.6	<0.4	0.34	<0.4	0.76	<0.50	0.83	0.74	0.65	0.53	0.6	0.70	0.61	0.62								
Tetrahydrofuran																<7.0	<7.0	<4.0	<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	22.4	7.6	8.1	4.2	5.3	<1	<0.2	1.65	1.2	1.12	1.7	0.38 J	<0.60	<0.60	<0.60	0.21	<0.15	0.22	<0.15	0.18	<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	<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	<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	<1.2	

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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 - 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	07/16/18	
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	10.6	2.3	4.9	3.4	4.6	1.98	3.3	2.95	1.8	1.5	1.5	0.72 J	<0.60	0.61	1.1 J	<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	<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	<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	<1.2	

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	<0.24	<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	<0.21	<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	<0.15	<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	<0.26	<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	<0.20	<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	<0.24	<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	<0.70	<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	<1.1	<0.30	<0.40	<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			
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	<0.25	<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	<0.60	<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	<0.23	<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	<0.26	<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	<0.19	<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	<0.23	<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	<0.19	<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	<0.23	<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	<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	<0.22	<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	<0.21	<0.29			
4-Methyl-2-Pentanone (MIBK)	<10															<7.0	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
Acetone	13.3															<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	<0.16	<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	<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	30	<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 - 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	
Bromoform	<5		<1	<1	<10	<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	<10		<2	<2	<10	<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		<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	<0.24	<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	<0.29	<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	<0.23	<0.20	<0.40		
Carbon disulfide	<5															<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.60		
Carbon tetrachloride	<5	<1	<1	<1	<10	<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	<5	<1	<1	<1	<10	<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	<5	<1	<1	<1	<10	<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	<10	<2	<2	<2	<20	<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	<5	<1	<1	<1	<10	<1	22	22	<0.2	<0.5	<0.10	<0.5	<0.60	<0.60	<0.60	<0.50	<0.50	<0.22	<0.22	<0.22	<0.22	<0.15	<0.23		
Chloromethane	<10	<2	<2	<2	<20	<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	0.84B	<0.40	<0.40	<0.40	<0.40		
Dibromomethane			<1	<1		<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	<2	<2		<2	<0.3	<1.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<0.29	<0.40	<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	<0.50	<0.20	<0.30		
Ethylbenzene	<5	<1	<1	<1	33	<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	<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	<0.60	<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	<0.20	<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	<0.17	<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	<0.23	<0.29	<0.30		
Methylene chloride	<10	<3	<3	<3	<30	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	2.9 J,A,B,Q	<0.40	<1.0	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40		
Naphthalene		<1	<1	<1	110	<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	<0.60	<0.40	<0.40	<0.31	<0.50
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	<0.20	<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	<0.30	<0.20	<0.30		
Tetrachloroethene	<5	2	1.8	1.4	<10	<1	<0.3	0.9	<0.6	<0.4	0.25	<0.4	<0.50	<0.50	<0.50	<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	<5	<1	<1	<1	<10	<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	<5	<1	<1	<1	41	<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	<0.15	<0.21	<0.40		
Trichlorofluoromethane		<1	<1	<1	<10	<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	<10															<8.0	<1.7	<1.1	<1.1	<1.1	<1.1	<3.0	<4.0		
Vinyl chloride	<10	<1	<1	<1	<10	<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	120	<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		
Xylene, o-		<1	<1	<1	200	<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	<0.50	<0.24	<0.29	<0.50	
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	<0.89	<1.40		

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 - 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	07/10/18	
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	1.3	<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	<0.15	<0.21	0.44							
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	<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	0.9	<0.50	<0.50	<0.50	<0.40	<0.40	<0.40	<0.40	
Xylenes, Total	<5																<1.5	<1.0	<1.0	<1.0	<1.0	0.9	<1.4	<1.5	<1.6	<1.2	<1.2	<1.2	<1.2	

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	7/11/2018
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	6.7	<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	150	200	95	180	190	260	270	92	60			92	78	71	20	29	36
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	57	72	33	72	79	110	120	39	19								
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	23	<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	78	42	9.1	20	<1.2	37	41	9	4.4								
sec-Butylbenzene	21	16	12	15	15	27	26	8.3	17								
tert-Butylbenzene	<2.5	7.2	4.8	6.8	7.5	8.9	9	4	6.2								
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	7/11/2018
Chloroform	<3.0	<5.0	<0.50	<1.1	<1.1	<1.1	<1.1	<0.15	<0.23								
Chloromethane	<2.0	<2.4	0.32	<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	2.1	2								
Hexachlorobutadiene	<2.5	<6.0	<0.90	<3.0	<3.0	<3.0	<3.0	<0.30	<0.40								
Isopropylbenzene	4.1 J	<4.0	3.2	3.3	6.4	5	5.4	3.4	8.8								
p-Isopropyltoluene	16	28 A	12	24	21	41	45	7.4	4.2								
Methyl tert-butyl ether	<2.5	<6.0	<0.40	<1.2	<1.2	<1.2	<1.2	<0.29	<0.30								
Methylene chloride	19 J,A,B,Q	<4.0	<1.0	3	<2.5	<2.5	<2.5	<0.40	<0.40								
Naphthalene	16	<6.0	17	13	24	32	38	4.6	<0.40	<0.32	<0.32	19	8.5	6.9	3.4	7.1	4
n-Propylbenzene	<2.5	<4.0	1.9	2	1.5	4.6	4.9	3.5	4								
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	0.73	0.67								
Tetrahydrofuran		<7.0	<7.0	<2.0	<2.0	<2.0	<2.0	<3.0	<4.0								
Toluene	<2.5	<4.0	<0.40	<1.0	<1.0	<1.0	<1.0	<0.22	<0.30								
Trichloroethene	11	18	14	10	10	7.6	8.4	1.1	0.75								
Trichlorofluoromethane	<2.0	<5.0	<0.70	<2.0	<2.0	<2.0	<2.0	<0.20	<0.40								
Vinyl acetate		<8.0	<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-	5.2 J	<1.0	4.4	4.9	3.7	5	5.8	3.9	2.9			2.8	<2.0	<2.2	<1.6	<0.80	<0.80
Xylene, o-	27	12	16	17	20	20	21	18	4.4				22	8.9	4.1	6.7	6.6
Xylenes, Total		12	20.4	21.9	23.7	25	26.8	21.9	7.3			24.8	22	8.9	4.1	6.7	6.6

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	1.3	<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	<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		<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				600	330	600	480		204.1	380	50	<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				3.4	28	11	10		5.4	<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	<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	<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	1950	25													
Benzene	<50	<50	<5	2.1	1.7	3.2	2.3	<1	<1	<0.2	1.1	<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		<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	<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				100	40	45	41		27.1	22	6.5	<0.3	<0.10	<0.4	<0.50	<0.50
sec-Butylbenzene				28	14	21	21		16.1	14	10	0.7	<0.20	<0.3	<0.50	<0.50
tert-Butylbenzene				<1	<1	<1	180		<1	<0.3	3.8	<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	<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	07/11/18
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	<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-Dichloropropene	<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	0.41							
sec-Butylbenzene	<0.50	8	<0.50	<0.29	<0.29	<0.29	<0.21	17							
tert-Butylbenzene	<0.50	5.6	<0.50	<0.23	<0.23	<0.23	<0.20	5.7							
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	1.1AB	<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	07/11/18
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	3.1 J,A,B,Q	<0.40	<1.0	<0.50	<0.50	<0.50	0.4	<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	<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	0.44							
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	<0.15	0.47	0.31	<0.15	0.37	0.28	<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	<1.2

Prepared By: T. Dushek, 12/5/18

Checked by: A. Voit, 12/16/18

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	07/11/18
1,1,1,2-Tetrachloroethane	<4.0	<0.9	<1.8	<0.50	<0.70	<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	310	10	26	1.9	2.9	13	13	6.3	7.8	5.7	11		10	20	12	52	3.1	31
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	140	9.9	17	1.5	3.8	6.6	7	2.7	3.8	3.4	5.1							
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	7.8	11	9.9	<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	<0.19	<0.30							
Bromobenzene	<5.0	<0.5	<1.0	<0.50	<0.60	<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	<0.20	<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	180	15	26	<0.60	2.9	2	2.3	1	1.3	0.37	1.3							
sec-Butylbenzene	29	6.7	4.6	1.4	3.5	2.9	3	3.8	1.7	2.4	2.5							
tert-Butylbenzene	<1.0	9.0	5.3	<0.50	1.3	1.1	1.1	1.1	0.62	0.39	1.1							
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	1.8	<1.0	<0.70	<0.60	<0.40	<0.40	<0.40	<0.40	<0.40	<0.30							
Chloroform	<5.0	2.0	1.4 J	1.4	1.1	0.5	0.55	0.39	0.31	0.3	<0.23							
Chloromethane	<3.0	<0.4	<0.80	<0.24	<0.30	<0.30	<0.30	<0.30	0.92AB	<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	07/11/18
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	0.33	0.34	<0.28	<0.28	0.29	<0.29							
Hexachlorobutadiene	<6.0	<0.5	<1.0 M	<0.60	<0.90	<0.60	<0.60	<0.60	<0.60	<0.30	<0.40							
Isopropylbenzene	24	7.5	4.7	0.62	0.77	2	2	1.8	1.1	1.4	2.8							
p-Isopropyltoluene	29	8.2	7.5	0.55	2.5	2.4	2.8	1.2	1.2	<0.23	0.78							
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	7.3 A,B,Q	<0.40	<1.0	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40							
Naphthalene	27	2.4	2.2 J	<0.60	<0.70	1.4	1.4	0.85	1.4	<0.40	1.8	<0.32	2.3	2.2	1.8	3.5	0.98	2
n-Propylbenzene	56.0	7.2	5.6	1.1	1.2	3.2	3.3	2	1.8	2.8	3.9							
Styrene	<2.0	16	15	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.20	<0.30							
Tetrachloroethene	<4.0	2.8	2.3 J	<0.40	0.29	<0.40	<0.40	<0.40	0.45	<0.30	0.38							
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	0.63	<1.2	0.8	0.43	0.33	0.31	0.33	0.25	0.68	<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	5.6	2.6	1.8 J	<1.0	<0.9	0.61	0.62	<0.50	<0.50	<0.50	<0.60	<0.90	<1.0	<1.1	2.9	<0.80	0.87	
o-Xylene	23	5.0	<1.0	0.86	<0.60	2.4	2.6	1.7	1.6	10	7.4		4.2	6.9	4.8	12	1.8	8.3
Xylenes, Total				0.86	<1.5	3.01	3.22	1.7	1.6	10	7.4		4.2	6.9	4.8	14.9	1.8	9.17

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	07/10/18	
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	<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	<1.2	

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	07/18/18	
Isopropylbenzene				100	3.3	63	50		15	14	62	130	42	23 *	25	40	31	3.3	1.9	9.9								
p-Isopropyltoluene				<10	<1	28	58		13	<0.4	45	180	170 A	5 *	12	9.2	8.1	29	24	11								
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	946	142	<30	<3	<3	<60	<15	<0.3	<0.5	<25	<8.0	15 Q*	<2.5	<2.5	<5	<0.40	<0.40	1.2 B								
Naphthalene	122	<10	108	260	<1	140	110	130	70	70	110	95	51	82 *	26	47	64	1.7	1.4	2.8	22	97	36	36	45	47	69	
n-Propylbenzene				120	1.6	120	120		25	28	92	120	98	11 *	17	30	28	14	10	8.8								
Styrene	<5	<50	<50	<10	<1	<25			<5	<0.2	<0.2	440	<10.0	<2.5 *	<1.5	<1.5	<3	<0.20	<0.20	<0.30								
Tetrachloroethene	<5	<50	<50	<10	<1	3.9	4	<20	<5	<0.3	<0.6	69	<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	100	<50	114	140	<1	90	55	<20	6	<0.2	25	20	<8.0	2.8 *	1.8	8	4.9	<0.22	<0.22	<0.30								
Trichloroethene	72	<50	92	85	<1	71	28	<20	15	24	32	<15	13	14 *	5.7	7	10	<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-				700	<2	440	350	110	22	20	80	82	23	9.5 *	15	41	27	4.3	3.1	3		38	11	13	26	12	30	
Xylene, o-				640	2.3	590	400	260	61	190	250	<13	89	110 *	80	150	120	4.7	3.5	3.2		170	65	97	89	58	130	
Xylenes, Total	472	<50	871										112	119.5 *	95	191	147	9	6.6	6.2		208	76	110	115	70	160	

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	55	<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				8.8	5.2	5.2	47		7	58	28	37	1.8	32	<0.50	<0.50	0.73 J	40	22
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				44	<1	17	3	<1	8	18	14	7.7	8.6	2.2	2.3	2.8	<0.50	1.8	1.4
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				2.6	3.7	<1	12		2.8	20	12	15	0.60	13	1.4	1.5	<0.50	14	6.9
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	<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		<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	<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	108	13.1															<9.0	<9.0
Benzene	<5	<50	<5	<1	<1	<1	<1	<1	<0.2	2	<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	<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	5.4	<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	<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	<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	<0.50	<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	<0.50	<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	<0.60	<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	<0.70	<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	0.62	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
Dibromomethane	<1			<1	<1	<1	<1	<1	<0.1	<0.2	<1	<0.4	<0.20	<0.4	<0.50	<0.50	<0.50	<0.70	<0.70
Dichlorodifluoromethane				<2	<2	<2	<2		<0.3	<1.2	<6	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.60	<0.60
Diisopropyl Ether					<1						<1.5	<0.1	<0.10	<0.1	<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	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	<0.60	<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	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	0.59	<0.40
Methyl tert-butyl ether					<1						<1	<1.1	<0.30	<1.1	<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	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	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
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	<0.50	<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	<0.12	<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	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	7/11/2018
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	110	110	49	1	11	42	71	42	40		<0.40	<0.60	<0.50	2.8	<0.40	<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	1.4	1.2	1.2	<0.40	2.7	1.7	2.3	<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	28	31	8.8	<0.19	3	2.3	5.7	24	22							
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	7/11/2018
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	<0.30	<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	<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	<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	<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	<1.2

Prepared By: T. Dushek, 12/5/18

Checked by: A. Voit, 12/16/18

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	<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	<1	<0.3	<0.3	<1.5	<15	<4.0	<7.5	<13	5.5	<0.50
1,1,2,2-Tetrachloroethane	<5	<50	<50	<1	<1	<1	<1	1.25	<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	<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	<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	<1	<0.4	<0.2	<1	<45	<4.0	<23	<10	<0.80	<0.40
1,1-Dichloropropene				<1	<1	<1	<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	<1	<1	<0.5	<0.4	<2	<25	<6.0	<13	<13	<1.0	<0.50
1,2,3-Trichloropropane				<1	<1	<1	<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	<1	<1	<0.5	<0.3	<1.5	<25	<6.0	<13	<13	<1.0	<0.50
1,2,4-Trimethylbenzene				960	550	600	500		94.7	1300	900	230	570	500	440	13	46	15
1,2-Dibromo-3-chloropropane				<3	<3	<15	<3		<3	<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	<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	<1	<0.2	<0.2	<1	<20	<4.0	<10	<23	<1.8	<0.90
cis-1,2-Dichloroethene				<1	<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	<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	<1	<0.1	<0.2	<1	<15	<4.0	<7.5	<10	<0.80	<0.40
1,3,5-Trimethylbenzene				340	160	80	88		16.0	380	300	70	210	120	140	99	1.2	<0.50
1,3-Dichlorobenzene				<1	<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	<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	<1	<1	<0.3	<0.6	<3	<20	<2.0	<10	<30	<2.4	<1.2
trans-1,3-Dichloropropene	<5	<50	<50	<1	<1	<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	<1	<0.3	<0.3	<1.5	<20	<2.0	<10	<13	<1.0	<0.50
2,2-Dichloropropane				<1	<1	<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	<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	<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	10.5	<100	<100															
Benzene	27.5	<50	<50	24	18	25	13	37	3.8	<0.2	55	4	11	15	4.2 J	20	0.87	0.40 J
Bromobenzene				<1	<1	<1	<1	0	<1	<0.3	<0.2	<1	<25	<2.0	<13	<13	<1.0	<0.50
Bromochloromethane				<1	<1	<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	<1	<0.2	<0.2	<1	<10	<2.0	<5.0	<10	<0.80	<0.40
Bromoform	<5	<50	<50	<1	<1	<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	<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							<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	7/12/2018
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	<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-Dibromochane	<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	<.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	<.60	<0.30	<0.30	<0.25	<0.28	<0.28							
2-Butanone (MEK)	<7.0	<5.0	<5.0	<4.0	<4.0	<.80	<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	<.60	<0.30	<0.30	<0.22	<0.30	<0.30							
2-Hexanone	<7.0	<8.0	<8.0	<4.0	<4.0	<.80	<4.0	<4.0	<4.0	<4.0	<4.0							
4-Chlorotoluene	<0.40	<0.60	<0.60	<0.30	<0.30	<.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	<.60	<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	<.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	<.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	7/12/2018
n-Butylbenzene	0.64	1.1	1.2	0.6	0.39	2.5	<0.24	<0.24	1.6	0.68	0.65							
sec-Butylbenzene	2.6	3.2	3.5	2.9	3.1	5.6	<0.29	<0.29	7.1	5.5	5.5							
tert-Butylbenzene	1.4	1.6	1.6	1.5	1.6	2.5	<0.23	<0.23	3.1	2.3	2.4							
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	0.48	5.9	6.5	0.42	0.46	0.45							
Chloromethane	<0.24	<0.30	<0.30	<0.30	<0.30	<0.60	0.88AB	1.3AB	<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	8.3	<0.28	<0.28	0.45	1.2	1.2							
Hexachlorobutadiene	<0.60	<0.90	<0.90	<0.60	<0.60	<1.2	<0.60	<0.60	<0.30	<0.40	<0.40							
Isopropylbenzene	1.7	2.8	3.2	1.3	1.4	11	<0.20	<0.20	3	5	5.1							
p-Isopropyltoluene	<0.40	<0.40	<0.40	<0.17	<0.17	0.94	<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	3.5	4.1	<0.60	<0.60	32	<0.60	<0.60	15	8	8.1	<3.1 V	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90
n-Propylbenzene	0.95	2.1	2.3	0.21	<0.20	13	<0.20	<0.20	2.5	3.9	4.1							
Styrene	<0.50	<0.50	<0.50	<0.30	<0.30	<0.60	<0.30	<0.30	<0.20	<0.30	0.55							
Tetrachloroethene	0.62	0.59	0.70	0.57	0.55	1.1	<0.40	<0.40	0.91	1.4	1.3							
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	6.7	<0.20	<0.20	<0.22	<0.30	<0.30							
Trichloroethene	1.7	2.2	2.3	2.3	2.5	7	0.2	<0.15	3.6	2.7	2.8							
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	1.5	1.8	1	1.1	21	<0.50	<0.50	2.6	<0.60	<0.60		<0.90	<1.0	<1.1	<0.80	<0.80	<0.80
Xylene, o-	0.64	2.6	2.9	1.1	1.2	52	<0.50	<0.50	2.4	18	19		<0.50	<0.50	<0.50	<0.40	<0.40	<0.40
Xylenes, Total	0.64	4.1	4.7	2.1	2.3	73	<1.0	<1.0	5	18	19		<1.4	<1.5	<1.6	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 12/5/18

Checked by: A. Voit, 12/16/18

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	7/18/2018	
Vinyl acetate	<10															<160.	68.5 *	<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-		36	300	240	480	42.6	46	70	22	19.5	33	2.7 J	6.9	9.3	21 J	<20	5.7 *	15	17	20	37	33	33		18	<20	<22	45	33	33	39	
Xylene, o-		200	380	300	510	93.5	260	300	90	125	240	28	42	59	150	87	110 *	100	120	170	260	240	180		130	150	130	130	79	80	92	
Xylenes, Total	620															87	115.7 *	115	137	190	297	273	213		148	150	130	175	112	113	131	

Prepared By: T. Dushek, 12/5/18
 Checked by: A.Voit, 12/16/18

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	07/11/18	
Vinyl acetate	<100															<8.0	<1.7	<1.1	<1.1	<1.1	<3.0	<4.0								
Vinyl chloride	<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	<0.18	<0.19								
Xylene, m & p-		<2	<1	<1	<1	<1	<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	<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	<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	<1.2	<1.2	

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	06/25/92	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	7/19/2018	7/19/2018 Duplicate	
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	6.5	1.1	10	<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	5.7	5.3	3.6	<0.80	<0.80	
Xylene, o-		<1	3.7	<1	6.5	40.2	8.8	60	<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	2.4	2.2	1.4	<0.40	<0.40	
Xylenes, Total	<50																<1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.89		<1.4	<1.5	<1.6	8.1	7.5	5	<1.2	<1.2	

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	07/10/18	
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	<0.2	<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	<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	<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	<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	<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	<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	<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	<0.40	<0.40	
1,2-Dibromo-3-chloropropane	<3	<3	<3	<3	<3	<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	<0.50								
1,2-Dibromoethane	<2	<2	<2	<2	<1	<0.2	<0.4	<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	<0.60	<0.40	<0.50	<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	<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	<0.14	<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	<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	<4.0							
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	<3.0							
Acetone	<100															<9.0	<10.0	<7.0	<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	<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	<0.40								
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	<0.13	<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	07/10/18	
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	<0.50	<0.30	<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	<0.40								
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	0.40AB	<0.40	<0.40								
Dibromomethane		<1	<1	<1		<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	<0.24	<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	3.0 J,A,B,Q	<0.40	<1.0	<0.50	<0.50	<0.50	<0.40	<0.40	<0.32	<0.50	<1.2	<0.50	<0.90	<0.90	<0.90	
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	<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	<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	<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	<50																<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, 12/5/18

Checked by: A.Voit, 12/16/18

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	07/19/18
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		<50	<25	<25	<35	<20	<20	<20	<7.5	<0.60							
1,2,4-Trimethylbenzene			10	4.8		1700	1400	1200	1400	1600	2800	1300	1200	100		210	230	120	170	270	170
1,2-Dibromo-3-chloropropane		<3	<3	<3		<40	<20	<20	<55	<20	<20	<20	<10	<1.0							
1,2-Dibromoethane		<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-Dichloroethane		<1	<1	<1	<1	<50	<25	<25	<30	<20	<20	<20	<6.3	<0.60							
trans-1,2-Dichloroethane	<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		2900	1500	820	730	1100	1000	770	650	65							
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		<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		<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		<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	1.5	<1	2.3	82	<20	<20	<20	<8.0	<8.0	<8.0	<4.8	<0.60							
Bromobenzene		<1	<1	<1		<50	<25	<25	<25	<15	<15	<15	<5.0Q	<0.60							
Bromochloromethane		<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	1.4	<1		1800	1100	380	140	150	110	62	45	11							
sec-Butylbenzene		<1	<1	<1		520	220	89	50	120	90	49	50	7.1							
tert-Butylbenzene		<1	<1	<1		<50	<25	<25	<25	29	26	14	7.7	3.2							
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	12							
Chloromethane	<100	<2	<2	<2	<2	<40	<20	<20	<12	<15	<15	<15	<10	<0.80							
Dibromomethane			<1	<1		<50	<25	<25	<35	<20	<20	<20	<6.0	<0.60							
Dichlorodifluoromethane		<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	1.2	110	<25	<25	<25	19	20	15	19	<0.58							
Hexachlorobutadiene		<1	<1	<1		<50	<25	<25	<30	<30	<30	<30	<7.5	<0.80							
Isopropylbenzene		<1	1.7	<1		400	110	70 J	38	58	67	37	17	2.7							
p-Isopropyltoluene		<1	<1	<1		550	270	110	77	160	130	75	48	11							
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	230 A,B,Q	35	<25	<25	<25	33	1.8 B							
Naphthalene	<10	<1	1.6	<1	2.3	<50	190	120	110 A	160	140	120	140	7.2	5.6	19	19	9.4	9.7	15	8.3
n-Propylbenzene		<1	1.7	<1		490	210	80	58	97	100	61	97	4.4							
Styrene	<50		<1	<1		<50	430	<25	<25	<15	<15	<15	<5.0	<0.60							
Tetrachloroethene	<50	<1	<1	<1	<1	160	<25	<25	<20	<20	<20	<20	7.7	<0.60							
Tetrahydrofuran									<350	<200	<200	<200	<75	<8.0							
Toluene	<50	<1	<1	<1	<1	100	<25	<25	<20	<10	11	<10	<5.5	<0.60							
Trichloroethene	<50	3.4	10	3.1	20	<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	07/19/18	
Vinyl acetate	<100								<400	<55	<55	<55	<75	<8.0								
Vinyl chloride	<100	<1	<1	<1	<1		<30	<15	<6.0	<7.5	<7.5	<7.5	<4.5	<0.38								
Xylene, m & p-		<2	<2	<2	<2		590	260	110	110	170	230	160	130	1.9	<9.0	<5.0	<5.5	12	<8.0	4.1	
Xylene, o-		<1	3.7	<1	6.5		2200	740	570	360	430	490	370	310	9.3	42	52	43	54	25	38	
Xylenes, Total	<50								470	600	720	530	440	11.2		42	52	43	66	25	42.1	

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	07/12/18	
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	<0.24	<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	<0.21	<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	<0.19	<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	<0.26	<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	<0.20	<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	<0.60	<0.50	<0.50	<0.50	<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	<0.60	<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	<0.60	<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	<0.60	<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	<0.70	<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	0.5	<0.40	
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	<0.50								
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	<0.16	<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	<0.23	<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								
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	<0.25	<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	<0.25	<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	<0.22	<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	0.35	<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	<0.26	<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	<0.23	<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	<0.14	<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	<0.23	<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	<0.25	<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	<0.22	<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-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	<0.21	<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								
Acetone	<100	<100											<9.0	<10.0	<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	<0.19	<0.30								
Bromobenzene			<1	<0.3	<0.2	<0.2	<0.5	<0.10	<0.5	<0.50	<0.50	<0.50	<0.50	<0.60	<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	<0.70	<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	<0.20	<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	07/12/18		
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			137.3	12	56	4.7	7.1	<0.10	<0.4	2.2	1.4	6.5	<0.60	<0.40	<0.24	<0.24	<0.24	<0.24	<0.23	<0.29									
sec-Butylbenzene			22.7	7	25	2.25	3.3	0.48	<0.3	0.64	<0.50	1.7	<0.50	<0.50	<0.29	<0.29	<0.29	<0.29	<0.29	0.53	<0.30								
tert-Butylbenzene			<1	<0.3	<0.3	2.75	0.85	0.10	<0.1	<0.50	<0.50	1.4 J	<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	<0.30	<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	12.5	24	14	7.7	4.75	5.7	4.1	4.5	2.1	1.8 J	1.6	1.3	1.7	1.6	1.3	0.63	0.55	0.65									
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	0.70B	<0.40	<0.40									
Dibromomethane			<1	<0.1	<0.2	<0.4	<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			36.0	6.5	23	3.4	1.55	0.25	<0.1	<0.50	<0.50	1.6	<0.40	<0.60	<0.20	<0.20	<0.20	<0.20	<0.18	<0.30									
p-Isopropyltoluene			22.0	<0.4	25	1.3	2.7	0.28	<0.2	0.59	<0.50	1.8	<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	113	<3	<0.3	<0.5	<0.5	<1.9	<0.40	<1.9	<1.0	<1.0	2.9 J,A,B,Q	<0.40	<1.0	<0.50	<0.50	<0.50	<0.50	<0.40	<0.40									
Naphthalene	71.8	<10	123.4	7	14	1.75	0.89	<0.7	0.64	<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	<0.90	<0.90		
n-Propylbenzene			123.1	12	25	2.8	3.3	0.48	<0.3	0.7	<0.50	2.3	<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	0.61	1.3	4.8	<0.50	<0.50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.20	<0.30								
Tetrachloroethene	<50	<50	<1	<0.3	<0.6	<0.6	<0.4	0.12	<0.4	<0.50	<0.50	1.4 J	<0.40	<0.29	<0.40	<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	<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	<0.20	<0.22	<0.30								
Trichloroethene	<50	<50	4.4	6	<0.3	4.4	3.75	3.0	1.6	1.5	1.2	0.9 J	1.2	0.81	0.94	0.73	0.7	1.4	1.5	0.94									
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	4.5	<0.3	0.6	0.59	<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	<0.80	<0.80		
Xylene, o-			201.6	32	<0.5	<0.5	1.55	<0.10	0.28	0.84	<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	0.60	<0.40	<0.40	<0.40		
Xylenes, Total	297	447												<1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.89	<1.4	<1.5	<1.6	0.60	<1.2	<1.2	<1.2		

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	07/12/18	
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		2400	606.2	1030	440	450	780	1200	530	210	24	8.1	130	79	350	210	390	420	380		150	130	56	130	96	100	
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		600	328.24	520	200	330	470	590	600	140	20	7.3	130	81	150	71	190	230	140								
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	190											<9.0	12	16	<35	<70	<35	<50	<50								
Benzene	<50	5.3	<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								
Bromo-chloromethane		<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	07/12/18		
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		320	631.4	360	130	240	250	350	570	180	37	4.5	19	22	29	15	41	42	12									
sec-Butylbenzene		160	238.3	260	66	66	79	47 J	78	26	9.9	6.1	10	11	21	12	30	27	15									
tert-Butylbenzene		<25	<100	<0.3	<0.3	<3	<5	<5.0	<10	<5.0	7	2.1	7.2	8.4	8.7	4.4	11	5.2	5.6									
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	3.5	<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	4.8	5.9									
Chloromethane	<100	<2	<200	<0.7	<0.9	<9	<15	<15	<8.0	<4.0	<0.40	<0.24	<0.30	0.36	<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	69.5	75	<100	<0.2	<0.2	<2	<5	<5.0	<10	<5.0	<0.50	<0.50	<0.50	<0.50	2.2	<2.8	6.8	3.4	3									
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		180	180.87	310	44	27	25	24	33	<5.0	5.7	0.45	0.99	1.2	10	6.7	16	1.8	15									
p-Isopropyltoluene		<25	<100	480	56	78	78	64	110	37	9.9	4.6	23	27	30	13	42	38	13									
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	2.9 J, A, B, Q	<0.40	<1.0	<1.0	2.7	<5	<2.5	10	9.8 B									
Naphthalene	632	160	121.68	<0.8	48	40	84	130	54	<5.0	1.2 J	0.75	5	6.9	35	25	72	30	13	19	21	23	12	19	13	14		
n-Propylbenzene		280	<100	710	54	34	41	53	58	14	5.1	0.98	2.1	2.5	16	10	27	17	21									
Styrene	<50	<25	309.4	<0.2	<0.2	<2	<10	<10	63	27	14	<0.50	<0.50	<0.50	<1.5	<3	<1.5	<2.0	<3.0									
Tetrachloroethene	<50	3	<100	<0.3	<0.6	<6	<20	<20	<10	<5.0	5	0.47	1.6	2	<2.0	<4	<2.0	<3.0	<3.0									
Tetrahydrofuran												<7.0	<7.0	<7.0	<20	<40	<20	<30	<40									
Toluene	189	<1	<100	<0.2	<0.2	<2	18	<5.0	<10	<5.0	<0.50	<0.40	<0.40	<0.40	<1.0	<2	<1.0	<2.2	<3.0									
Trichloroethene	<50	19	<100	<0.2	<0.3	<3	<15	<15	<12	<6.0	<0.60	0.31	0.34	0.33	<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-		450	<200	90	46	23	87	75	33	6.4	2	<1.0	1.3	1.8	9.3	8.3	22	17	19	<4.5	<5.0	<2.2	6	<4.0	<4.0			
Xylene, o-		600	<100	<0.2	<0.5	87	230	190	82	14	<0.50	0.62	4.6	6.5	38	38	86	76	55	23	18	11	20	13	15			
Xylenes, Total	1000											0.62	5.9	8.3	47.3	46.3	108	93	74	23	18	11	26	13	15			

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	07/19/18
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	4400
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	<2.00	<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	07/19/18
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	580
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	100
Xylene, o-	460	450		680	440	380	450	440	790
Xylenes, Total	620	620		810	440	446	570	529	890

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	<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				620	2200	110	20		137.7	160	340	310	250	270	200	86
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				230	2400	130	400		85.0	140	190	180	140	140	100	47
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	38.5													
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	191	123	170													
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				230	4800	120	280		128.9	110	170	180	190	18	120	76
sec-Butylbenzene				58	2900	12	13		21.7	<0.3	60	75	47	18	39	15
tert-Butylbenzene				<1	<100	<1	<1		<10	<0.3	40	∆3	<1	9.1	<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	2.8	<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	6.3	600	<1	<1	<20	<10	<0.2	<0.2	<2	<1	1.4	<0.5	<2.5
Hexachlorobutadiene				<1	<100	<1	<1	<10	<0.5	<0.6	<6	<6	<6	<2.0	<3.0	<2.5
Isopropylbenzene				57	2000	7.1	14	21.9	<0.2	68	60	22	8.9	35	10	
p-Isopropyltoluene				<1	1200	13	<1	56.0	<0.4	40	160	40	16	39	16	
Methyl tert-butyl ether					<100							<2	<11	<3.0	<5.5	<2.5
Methylene chloride	<50	53.7	<10	<3	<300	<3	<3	<60	<30	<0.3	<0.5	<5	<19	<4.0	<9.5	<5.0
Naphthalene	<103	48.1	52.3	95	630	44	27	52	17.2	<0.8	34	32	19	26	15	4.6
n-Propylbenzene				36	2400	6.6	<1	25.6	110	54	57	32	14	35	12	
Styrene	<50	<50	<5	5.9		<1	<1	<10	<0.2	<0.2	<2	<2	<2	<1.0	<1.0	18
Tetrachloroethene	<50	<50	<5	1.3	<100	3.8	6.5	<20	<10	<0.3	<0.6	<6	<4	1.6	10	4.1
Tetrahydrofuran																
Toluene	<50	<50	<5	7.5	<100	3.6	<1	<20	<10	<0.2	<0.2	<2	4	<2.0	<0.5	<2.5
Trichloroethene	<50	<50	<5	3.8	<100	4	4.4	<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-				60	500	5	5.8	77	<20	<0.4	48	22	11	7.6	13	4.7
Xylene, o-				190	2700	18	160	140	<10	<0.2	<0.5	140	69	21	<0.5	<2.5
Xylenes, Total	66.2	135	67.3													

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	07/18/18
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	130	4.0	90	220	200 *	1	29	120	49	150		54	170	230	300	160	220
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	75	2.4	55	140	110*	150	27	120	47	60							
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	46 *	27	<20	9.7	2.4	3.8							
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	55 *	43	<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	150	14	64	18	21 *	26	10	28	11	6.1							
sec-Butylbenzene	35	8	21	14	20 *	20	7.4	18	9.2	4.7							
tert-Butylbenzene	<2.5	5.6	<2.5	<10.0	10 *	9.7	2.4	9.4	3.5	4.5							
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	4.9 *	3.4	<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	11							

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	07/18/18
Chloromethane	<2.0	<0.40	<2.0	<4.8	2.3 *	2.8	<1.5	0.68AB	<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	0.47	0.41	0.91							
Hexachlorobutadiene	<2.5	<0.50	<2.5	<12.0	<4.5 *	<3.0	<3.0	<0.60	<0.30	<0.40							
Isopropylbenzene	<2.5	0.92 J	18	<8.0	7.4 *	7.1	<1	3.8	0.27	7.7							
p-Isopropyltoluene	42	<0.50	<2.5	19	24 *	23	8.8	22	8.7	3.3							
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	3.0 J,A,B,Q	25 A,B,Q	<8.0	19 Q*	12	<2.5	<0.50	<0.40	0.54 B							
Naphthalene	10	0.84 J	5.5 J	<12.0	9.4 *	11	<3.0	5.2	<0.40	22	<1.6 V	25	50	52	42	26	40
n-Propylbenzene	23	0.78 J	16	12	14 *	15	3	8.5	3.7	11							
Styrene	65	2.1	36	<10.0	<2.5 *	<1.5	<1.5	<0.30	<0.20	<0.30							
Tetrachloroethene	9.0	<0.50	5.7 J	<8.0	2.1 *	<2.0	3	2.4	1.8	2.3							
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	0.36	<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-	14	<0.60	7.1 J	<20.0	<4.5 *	4.1	<2.5	2.3	2.1	3.6		5.1	6.8	8.1	16	<8.0	6
Xylene, o-	<2.5	<0.50	<2.5	15	18 *	19	12	17	14	31		57	96	89	110	56	50
Xylenes, Total				15	18 *	23.1	12	19.3	16.1	34.6		62.1	102.8	97.1	126	56	56

Prepared By: T. Dushek, 12/5/18

Checked by: A. Voit, 12/16/18

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	740	1700	620	140		210
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	320	820	170	72		
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	270	760	14	21		
sec-Butylbenzene	45	130	13	16		
tert-Butylbenzene	<10	<10	4.1	3.7		

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	16	24	3.5		
Hexachlorobutadiene	<10	<10	<6	<0.80		
Isopropylbenzene	46	110	40	9.5		
p-Isopropyltoluene	56	180	15	16		
Methyl tert-butyl ether	<10	<10	<2.3	<0.60		
Methylene chloride	76	78	<5	<0.80		
Naphthalene	32	46	33	7	2.8	23
n-Propylbenzene	78	190	67	18		
Styrene	<10	<10	<3	<0.60		
Tetrachloroethene	15	49	<4	2.4		
Tetrahydrofuran			<40	<8.0		
Toluene	<10	<10	4.5	0.75		
Trichloroethene	<12	<12	8.5	3.2		
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-	54	96	76	9.6		10
Xylene, o-	230	470	220	56		52
Xylenes, Total	284	566	296	65.6		62

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	07/10/18
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	<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	07/10/18
Isopropylbenzene			
p-Isopropyltoluene			
Methyl tert-butyl ether			
Methylene chloride			
Naphthalene	<0.90	<0.90	<0.90
n-Propylbenzene			
Styrene			
Tetrachloroethene			
Tetrahydrofuran			
Toluene			
Trichloroethene			
Trichlorofluoromethane			
Vinyl acetate			
Vinyl chloride			
Xylene, m & p-	<0.80	<0.80	<0.80
Xylene, o-	<0.40	<0.40	<0.40
Xylenes, Total	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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 - W72

Parameter	07/01/16	07/10/17	07/10/18
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	<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	07/10/18
Isopropylbenzene			
p-Isopropyltoluene			
Methyl tert-butyl ether			
Methylene chloride			
Naphthalene	<0.90	<0.90	<0.90
n-Propylbenzene			
Styrene			
Tetrachloroethene			
Tetrahydrofuran			
Toluene			
Trichloroethene			
Trichlorofluoromethane			
Vinyl acetate			
Vinyl chloride			
Xylene, m & p-	<0.80	<0.80	<0.80
Xylene, o-	<0.40	<0.40	<0.40
Xylenes, Total	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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 - W73

Parameter	07/01/16	07/10/17	07/10/18
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	<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	07/10/18
Isopropylbenzene			
p-Isopropyltoluene			
Methyl tert-butyl ether			
Methylene chloride			
Naphthalene	<0.90	<0.90	<0.90
n-Propylbenzene			
Styrene			
Tetrachloroethene			
Tetrahydrofuran			
Toluene			
Trichloroethene			
Trichlorofluoromethane			
Vinyl acetate			
Vinyl chloride			
Xylene, m & p-	<0.80	<0.80	<0.80
Xylene, o-	<0.40	<0.40	<0.40
Xylenes, Total	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	07/10/18
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	<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	07/10/18
Isopropylbenzene			
p-Isopropyltoluene			
Methyl tert-butyl ether			
Methylene chloride			
Naphthalene	<0.90	<0.90	<0.90
n-Propylbenzene			
Styrene			
Tetrachloroethene			
Tetrahydrofuran			
Toluene			
Trichloroethene			
Trichlorofluoromethane			
Vinyl acetate			
Vinyl chloride			
Xylene, m & p-	<0.80	<0.80	<0.80
Xylene, o-	<0.40	<0.40	<0.40
Xylenes, Total	<1.2	<1.2	<1.2

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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	07/16/18
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	<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	07/16/18
p-Isopropyltoluene			
Methyl tert-butyl ether			
Methylene chloride			
Naphthalene	3.3	3	5.8
n-Propylbenzene			
Styrene			
Tetrachloroethene			
Tetrahydrofuran			
Toluene			
Trichloroethene			
Trichlorofluoromethane			
Vinyl acetate			
Vinyl chloride			
Xylene, m & p-	<0.80	<0.80	<0.80
Xylene, o-	0.53	<0.40	<0.40
Xylenes, Total	0.53	<1.20	<1.20

Prepared By: T. Dushek, 12/5/18

Checked by: A.Voit, 12/16/18

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.

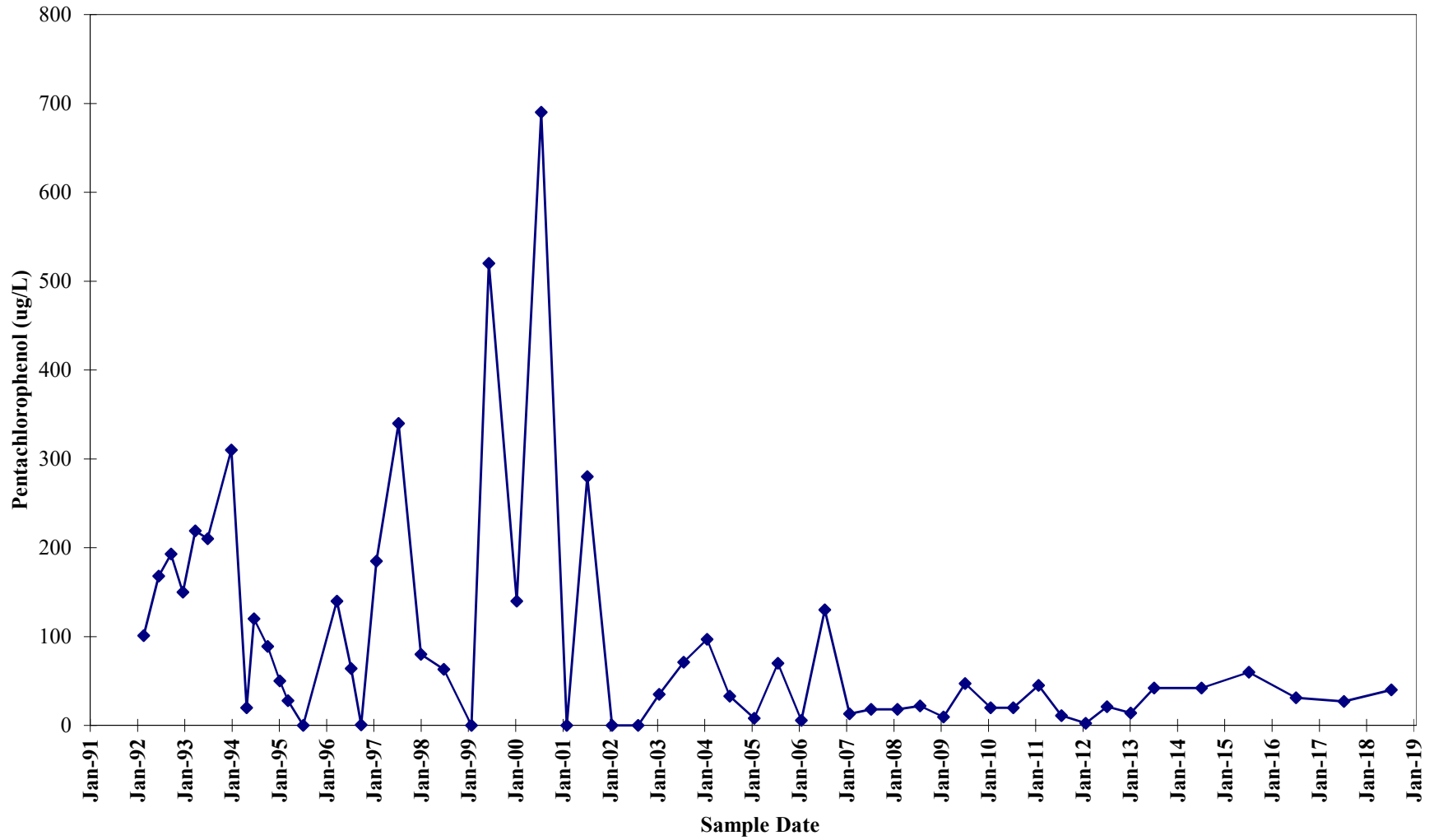
J = Estimated Value

Q = Lab Control Sample outside acceptance limits

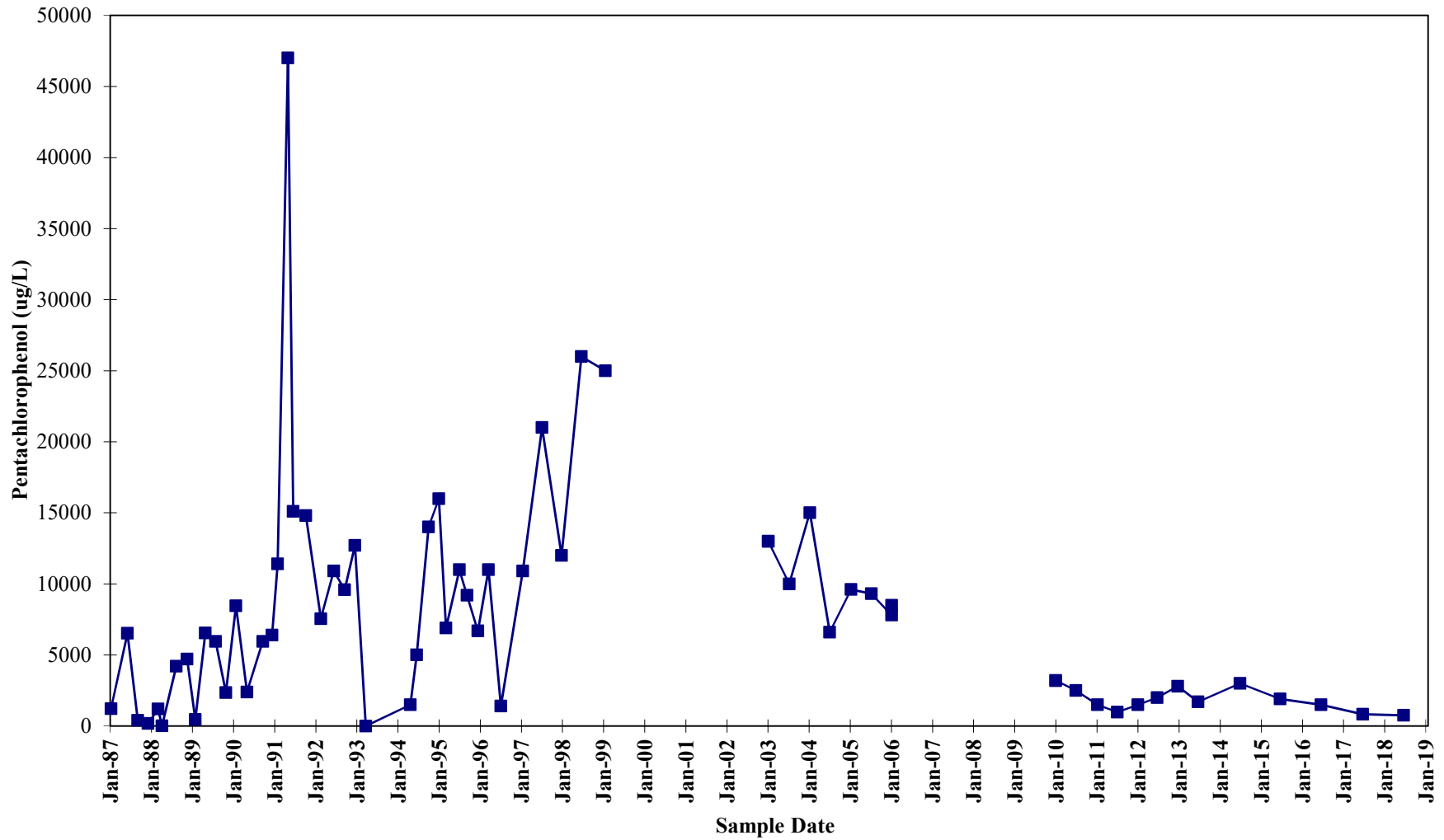
* = Suspected methylene chloride laboratory contamination.

APPENDIX C
HISTORICAL PCP ANALYSIS RESULTS

**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W01A**

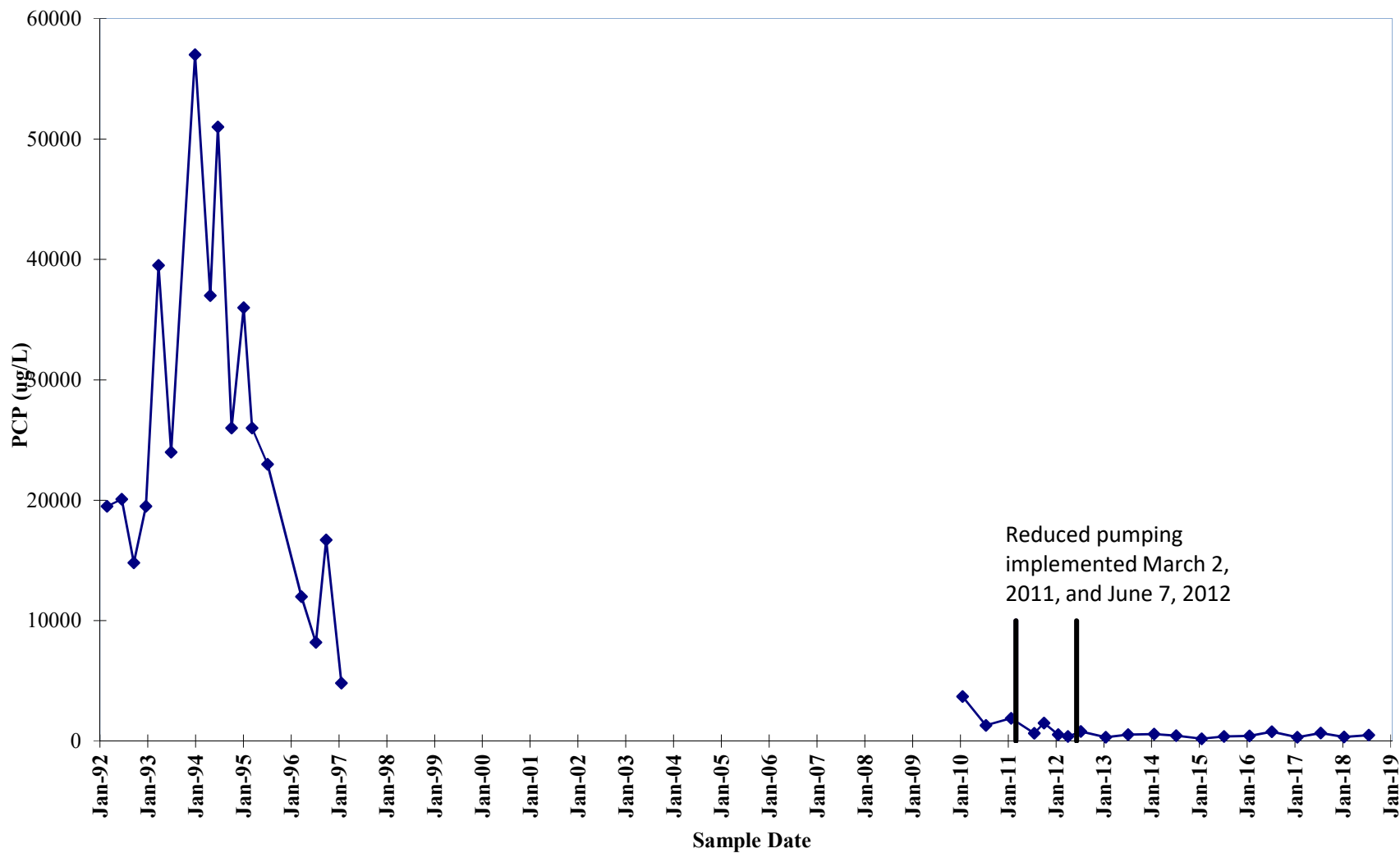


Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W02



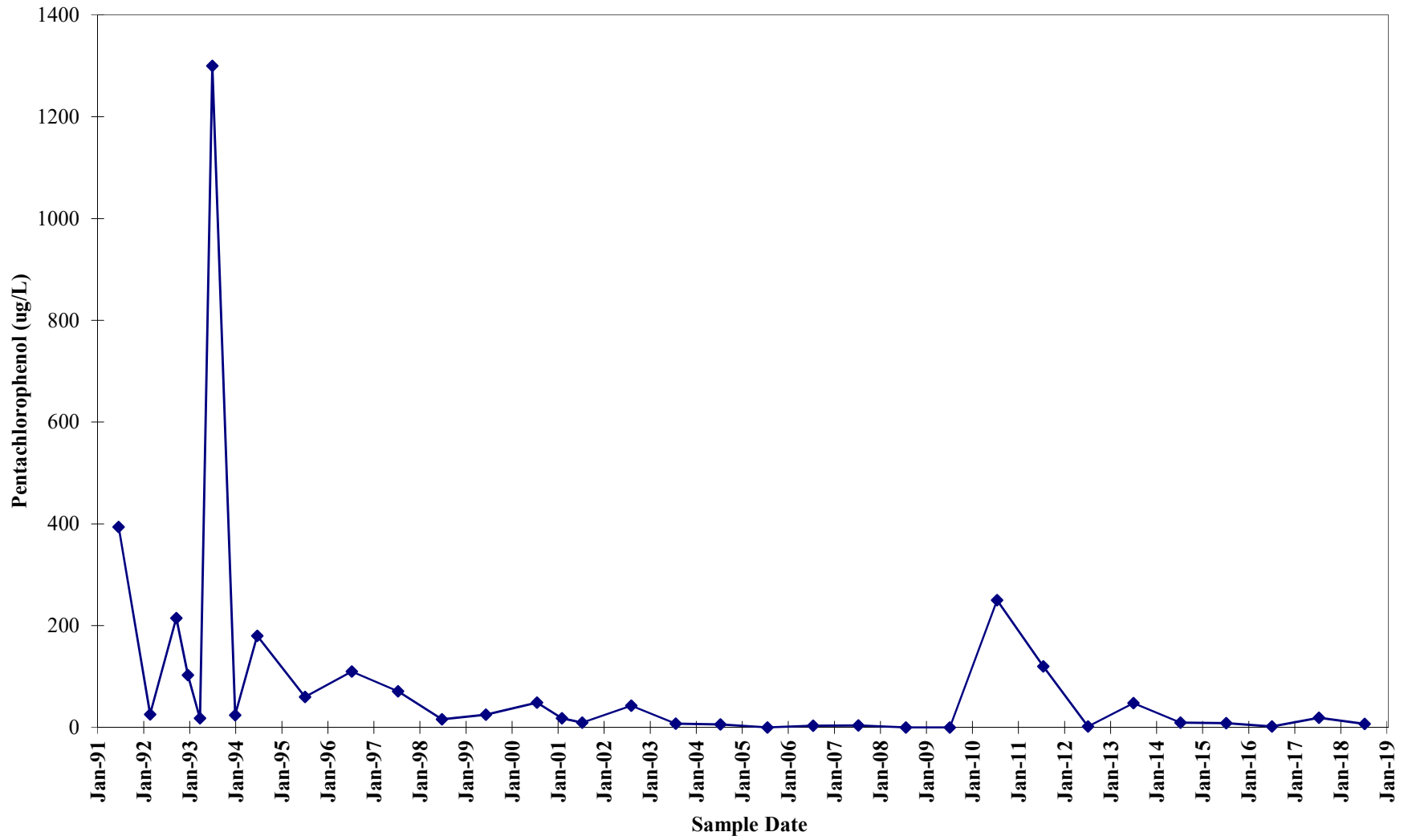
PCP data gap due to measurable product present in well.

**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W03A**

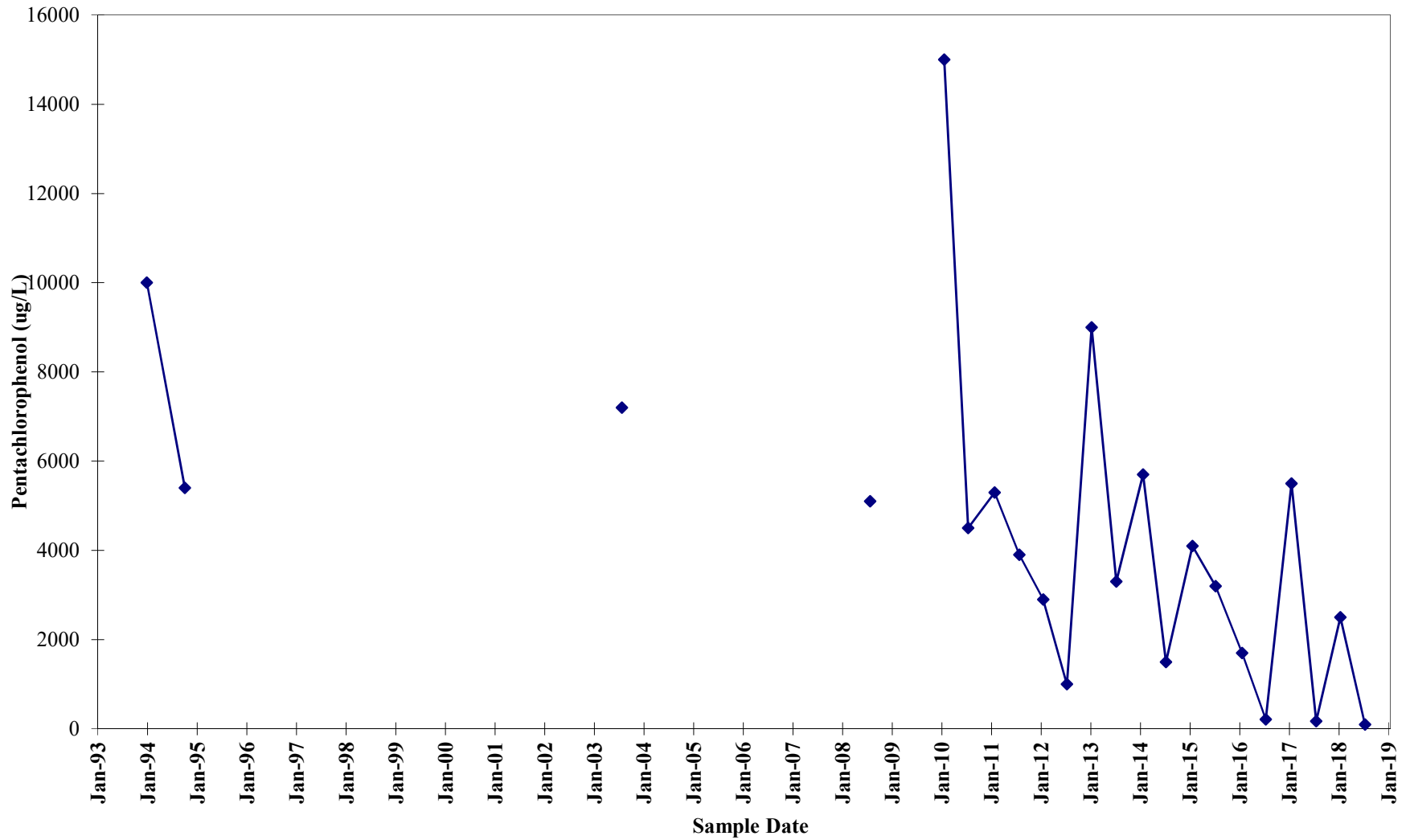


PCP data gap due to measurable product present in well.

**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W03B**

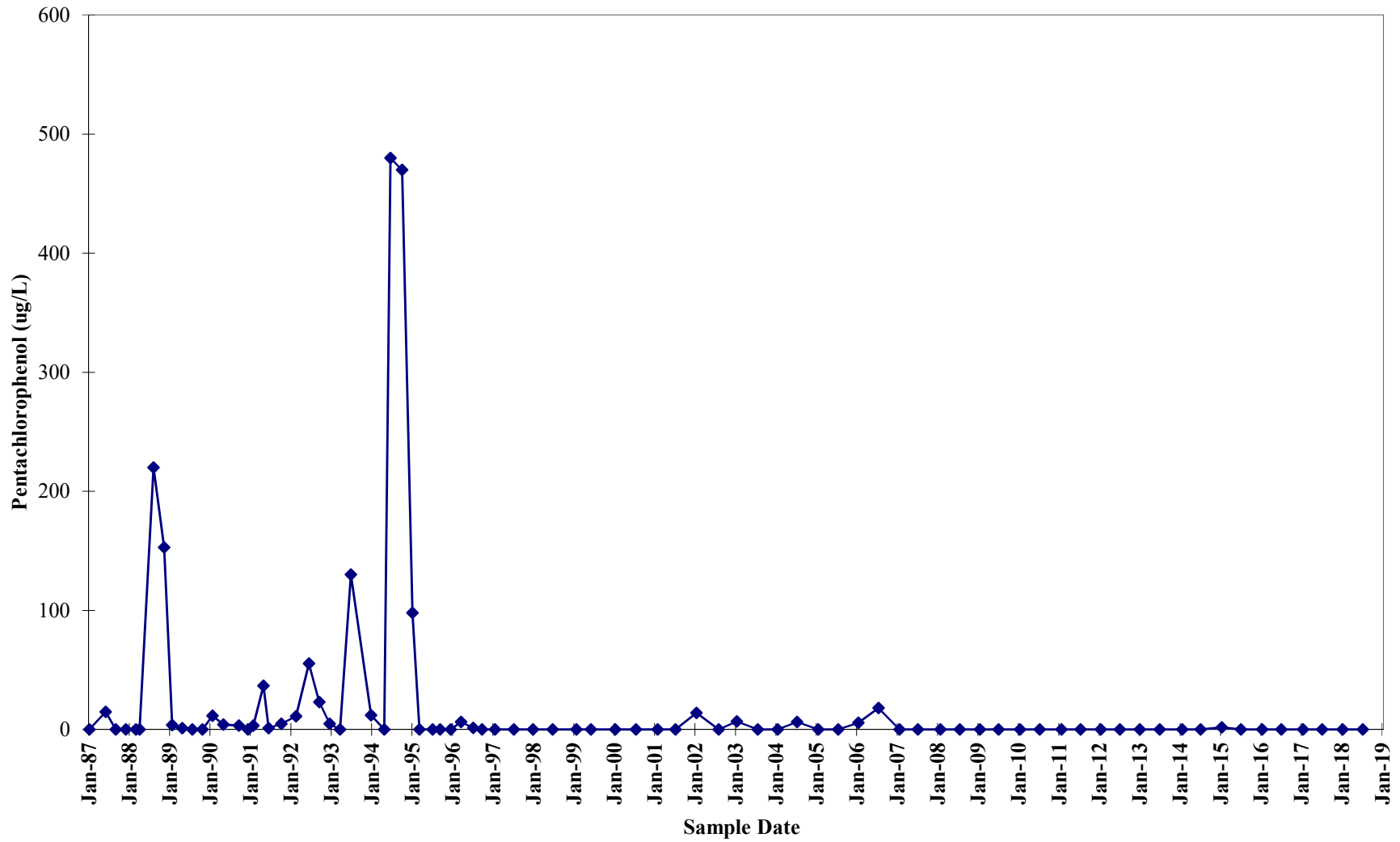


Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W06R

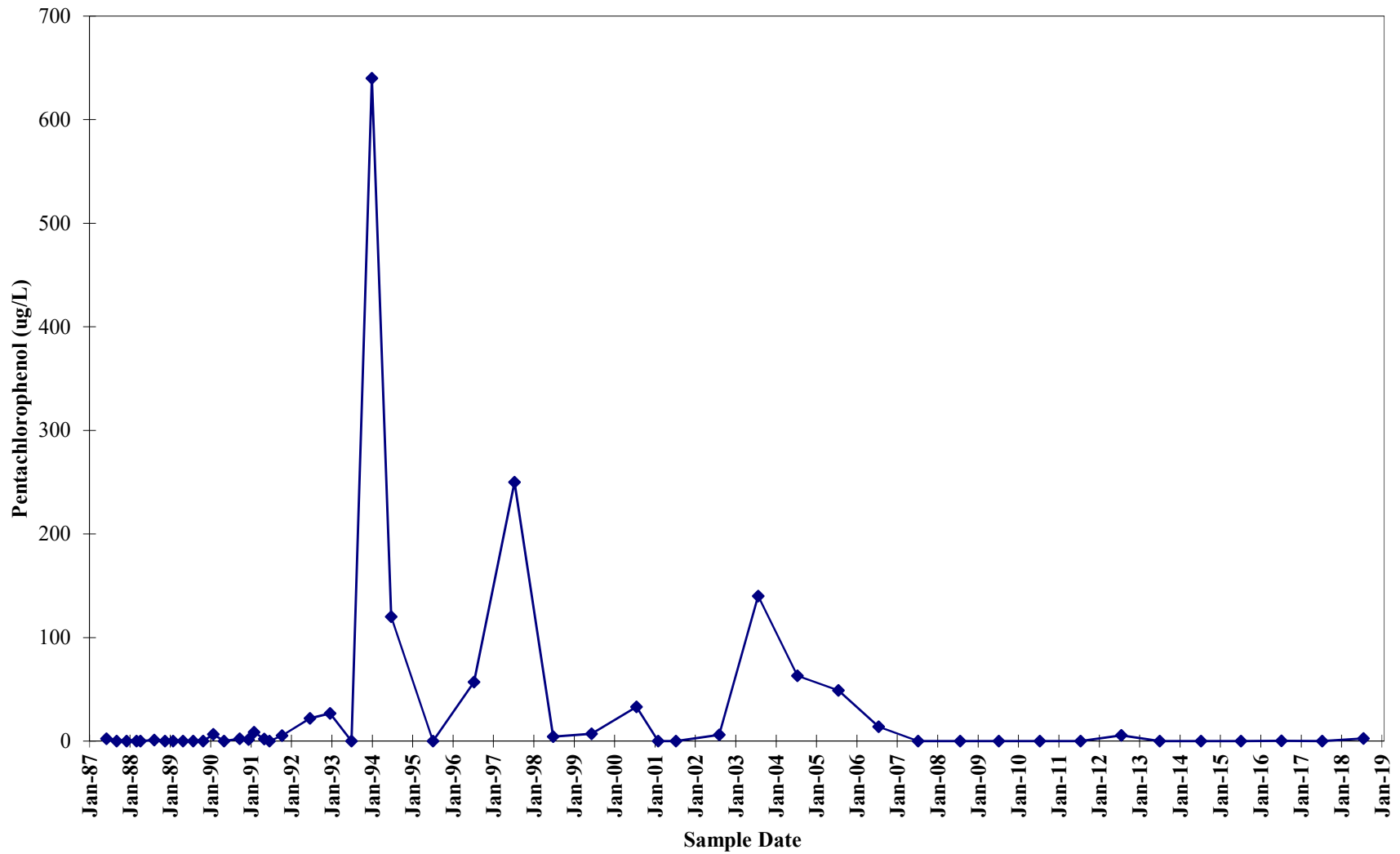


PCP data gap due to measurable product present in well.

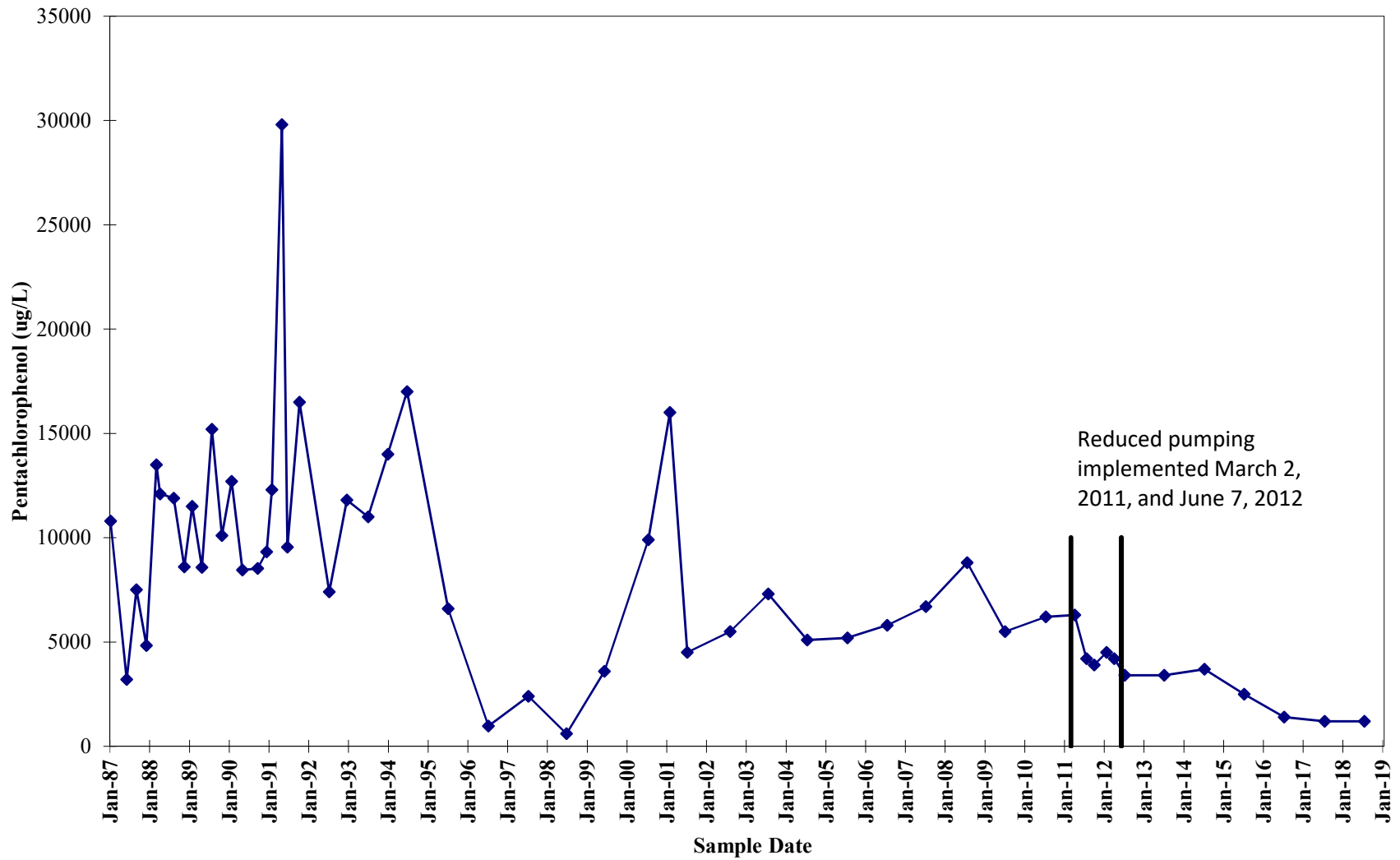
**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W08**



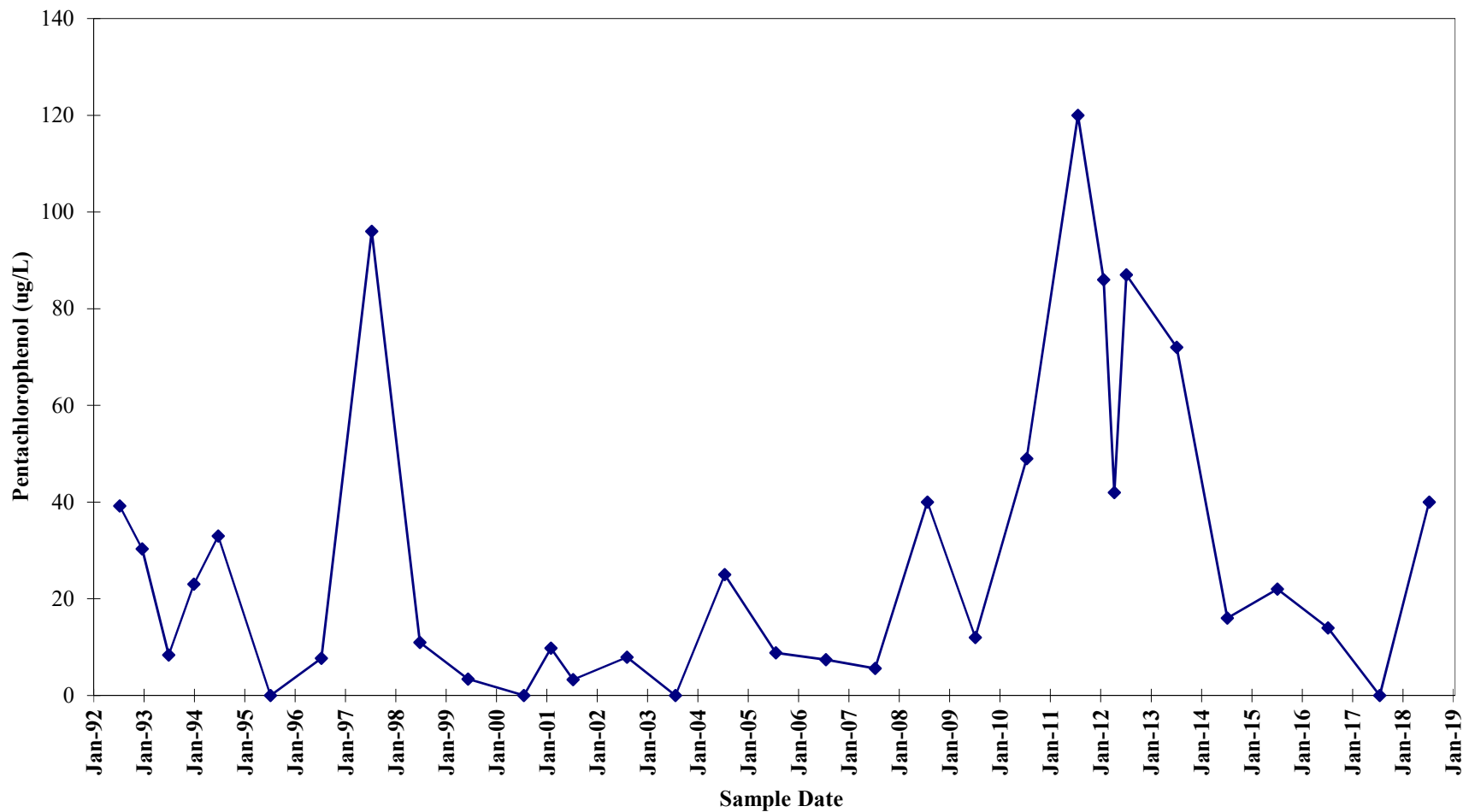
Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W09



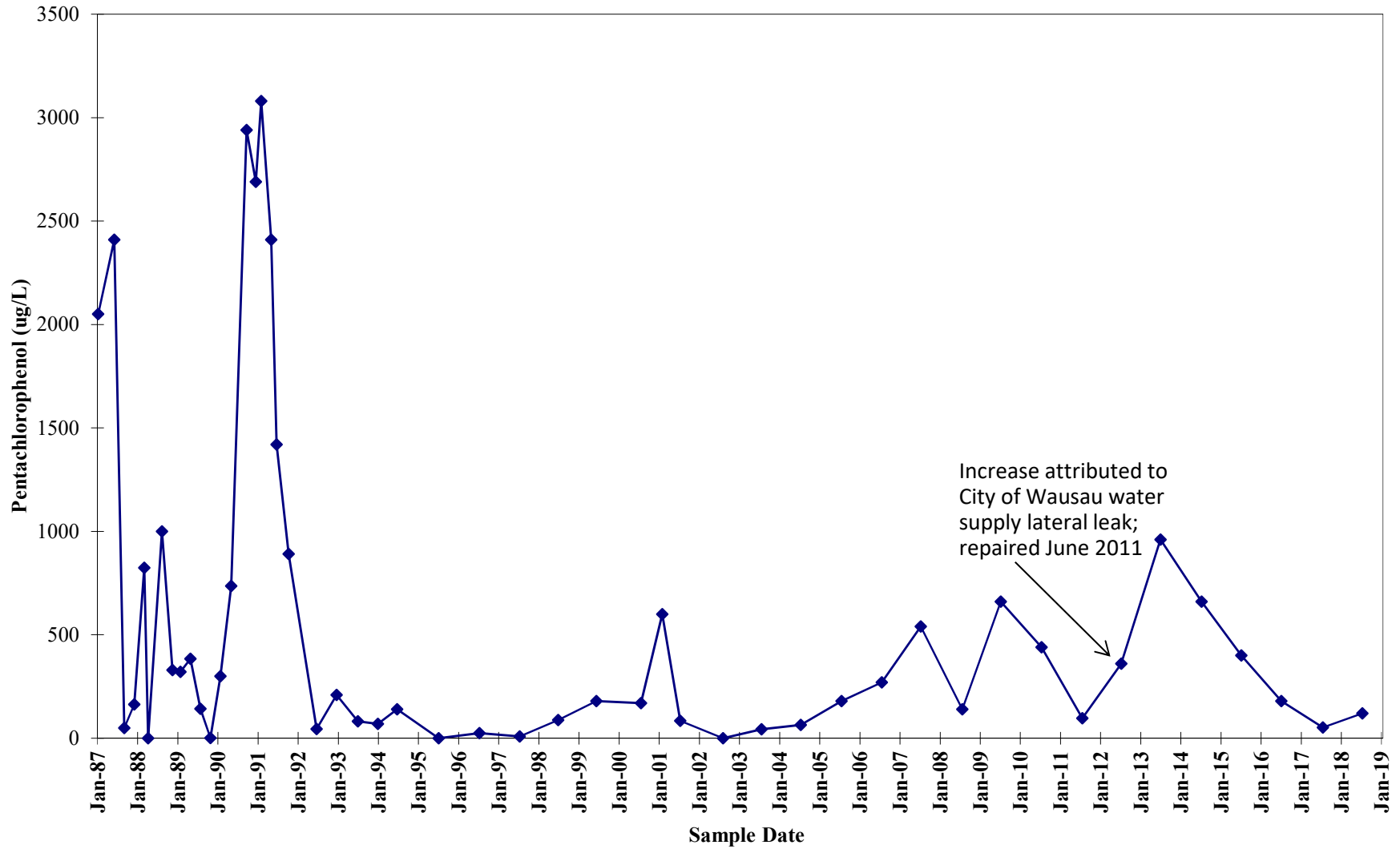
**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W10A**



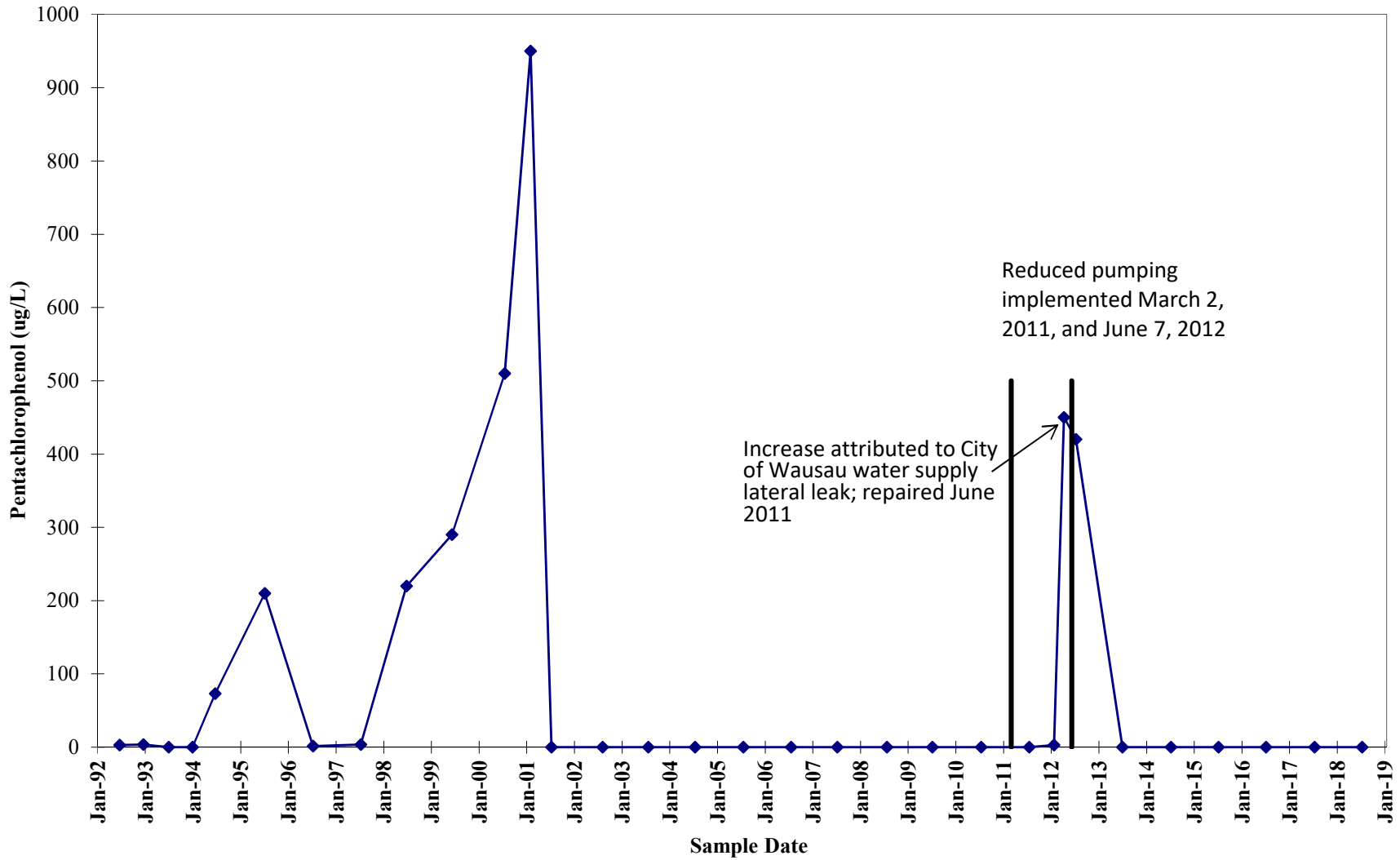
Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W10B



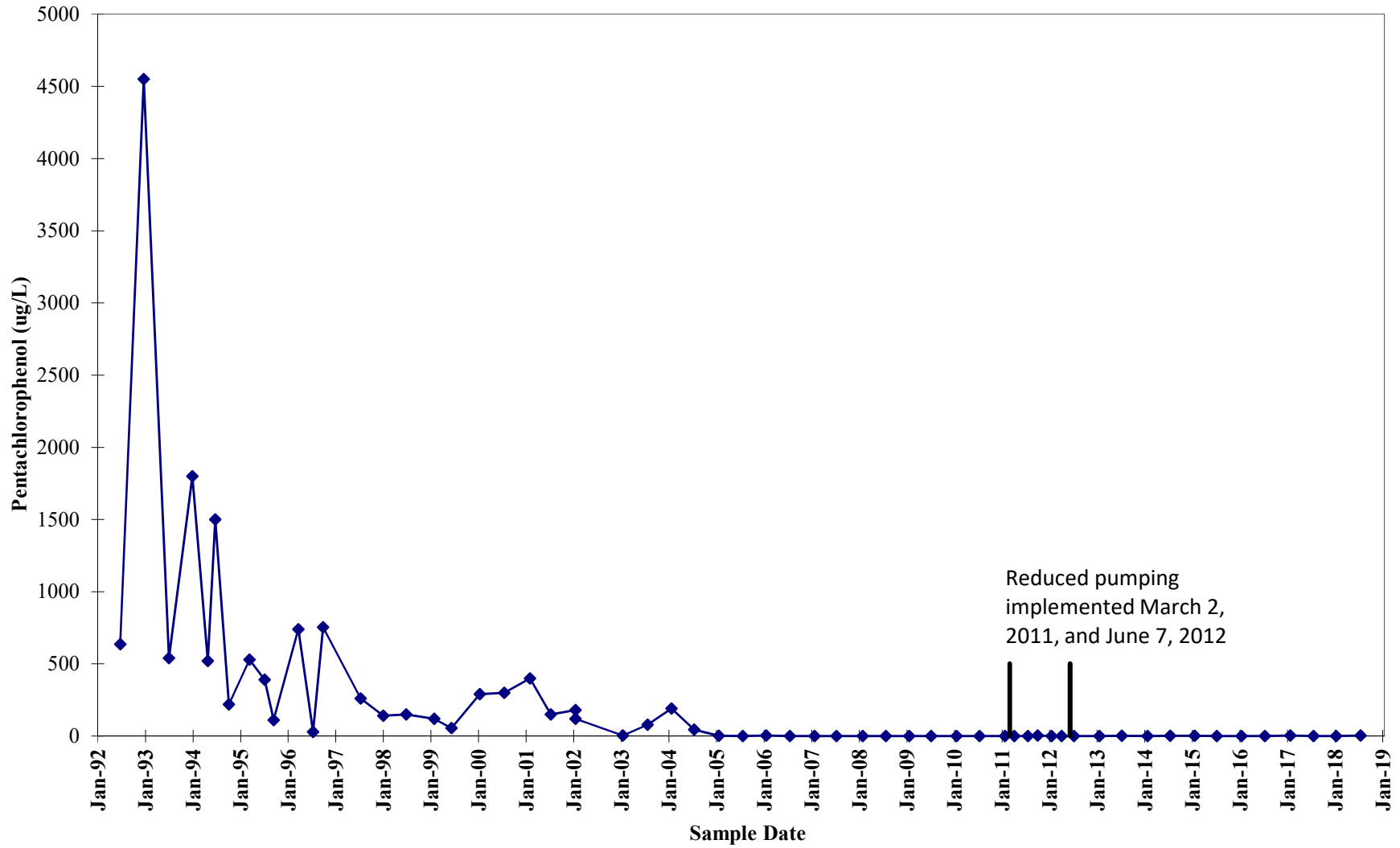
**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W11**



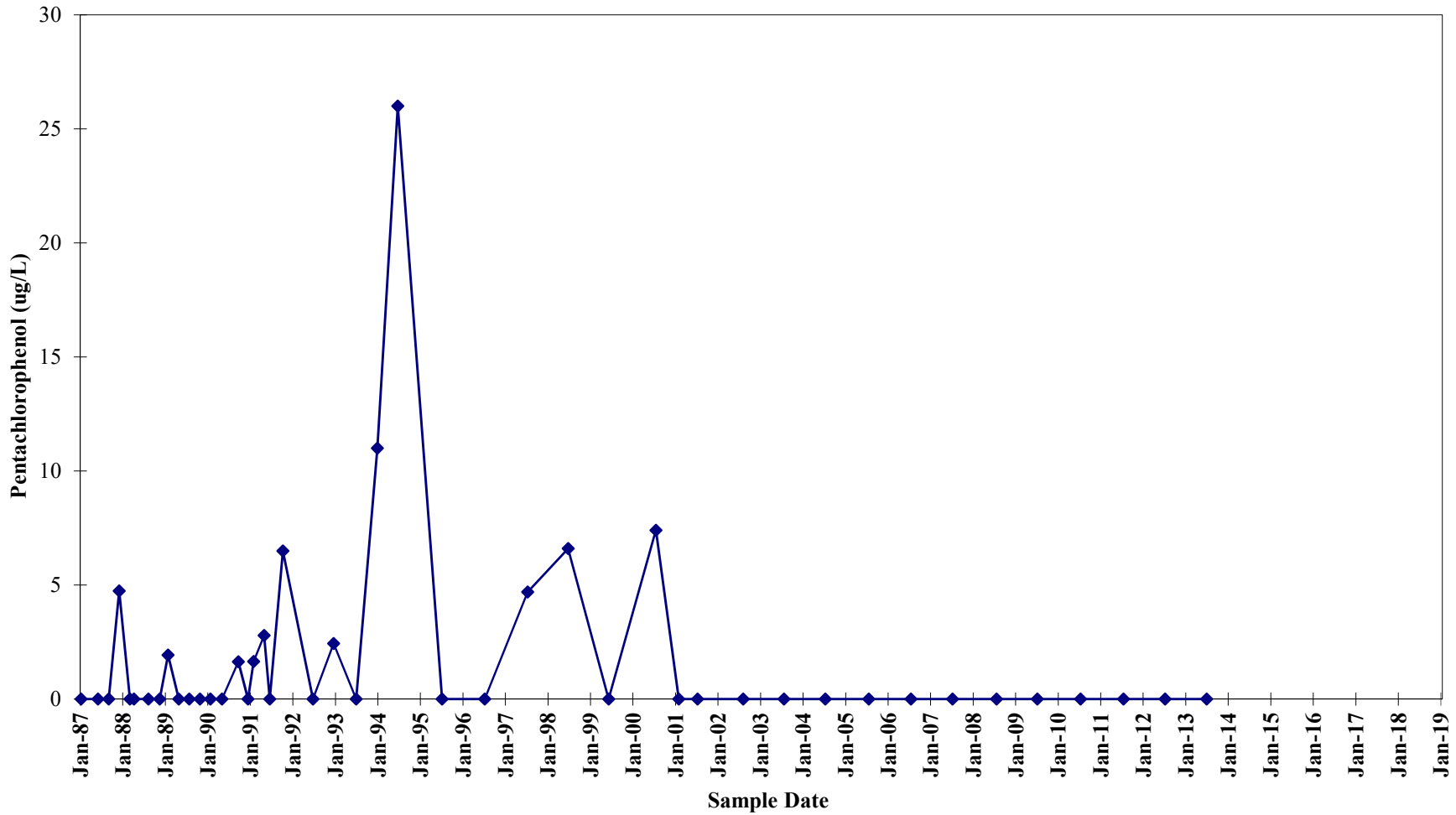
Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W12



**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W13**

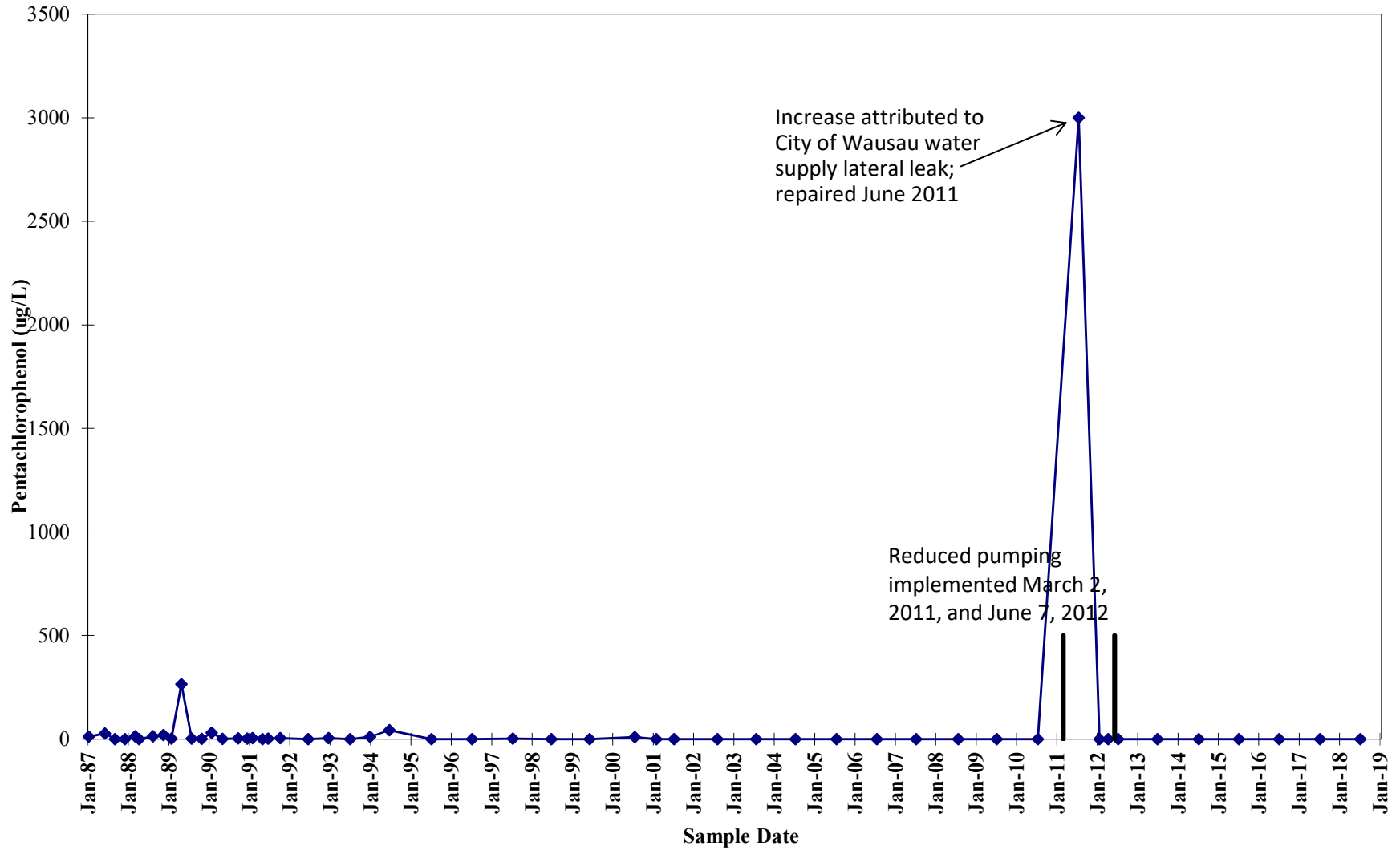


**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W14**

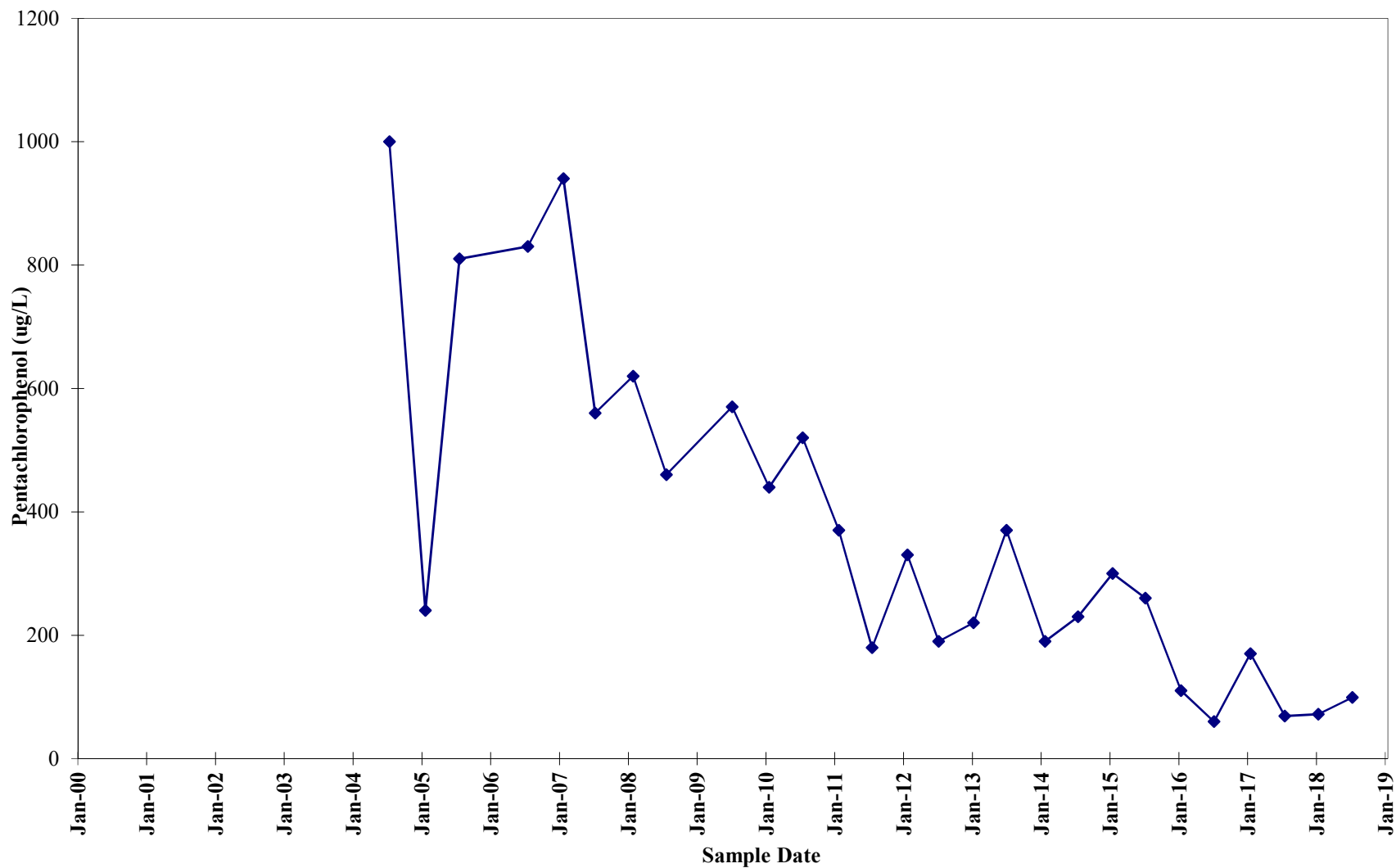


Well W14 discontinued from the monitoring program beginning in 2014.

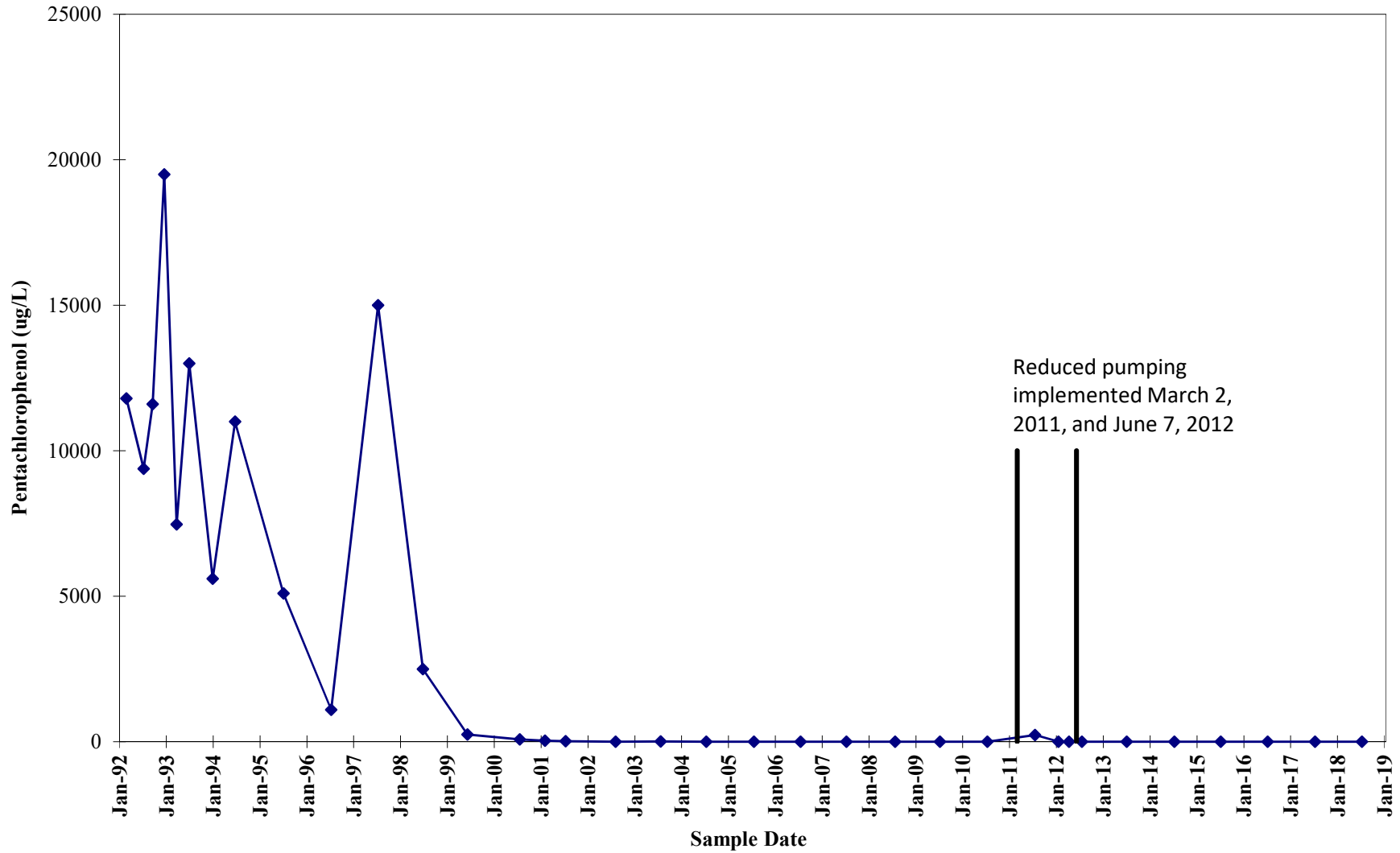
**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W16**



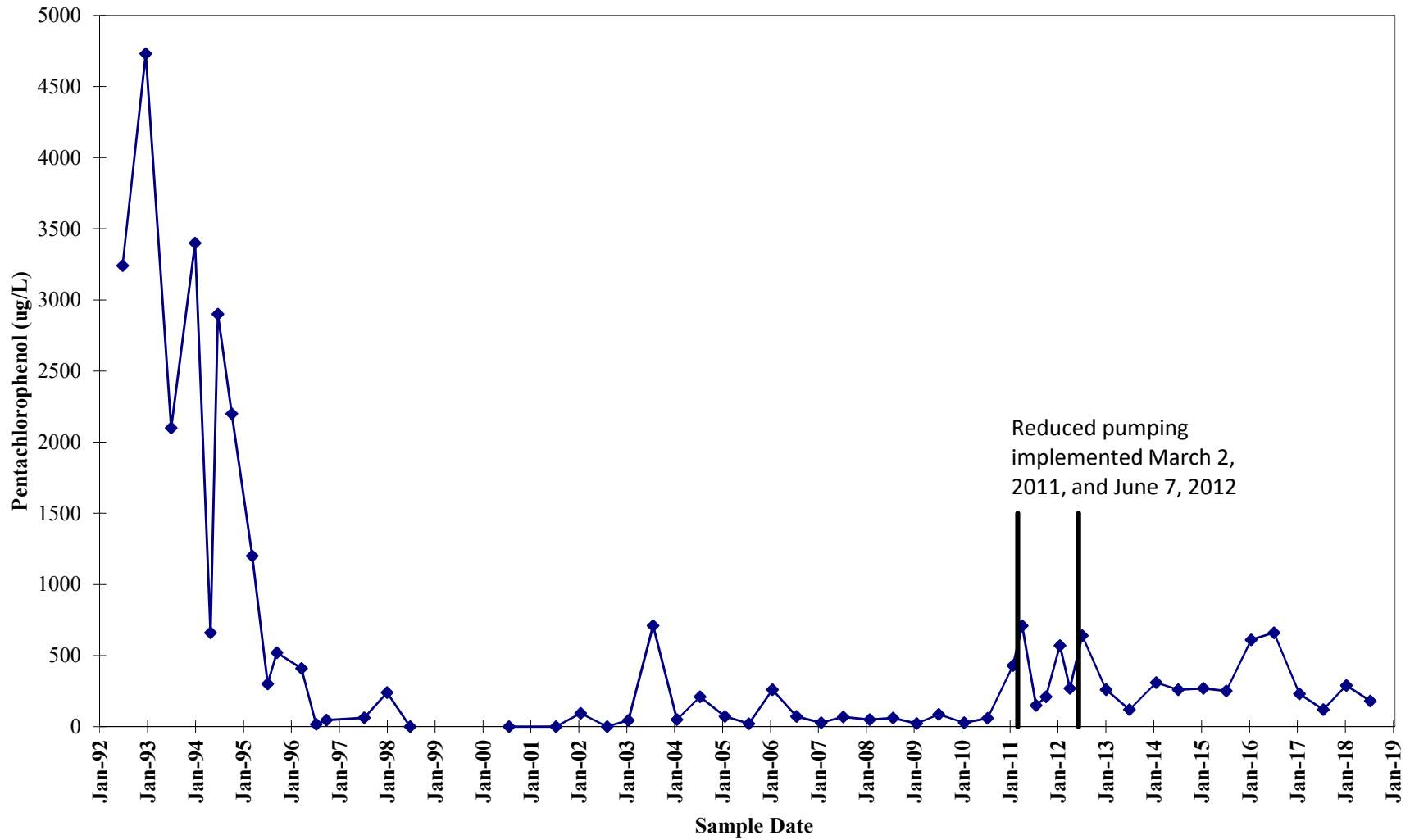
Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W17



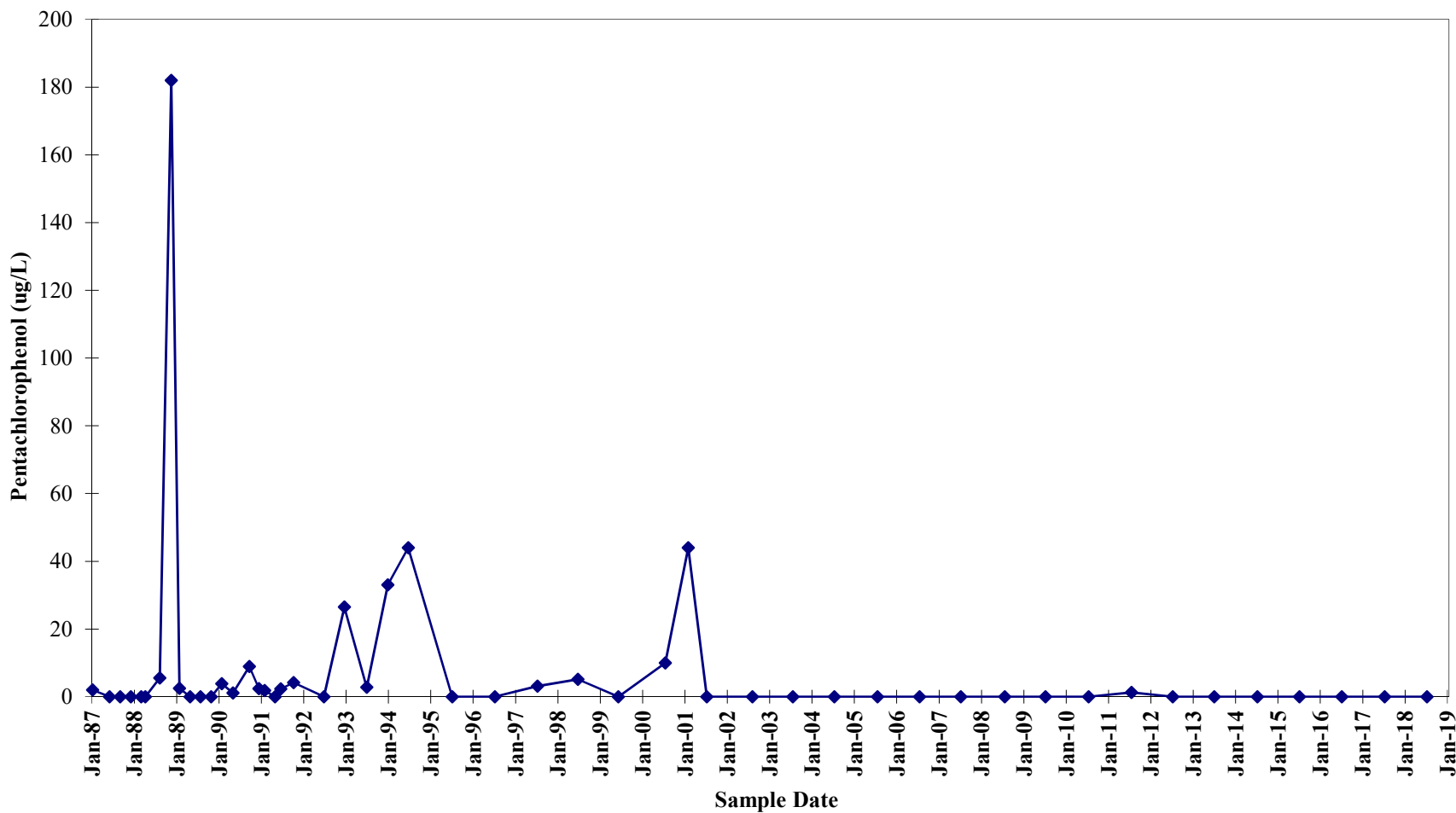
Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W18



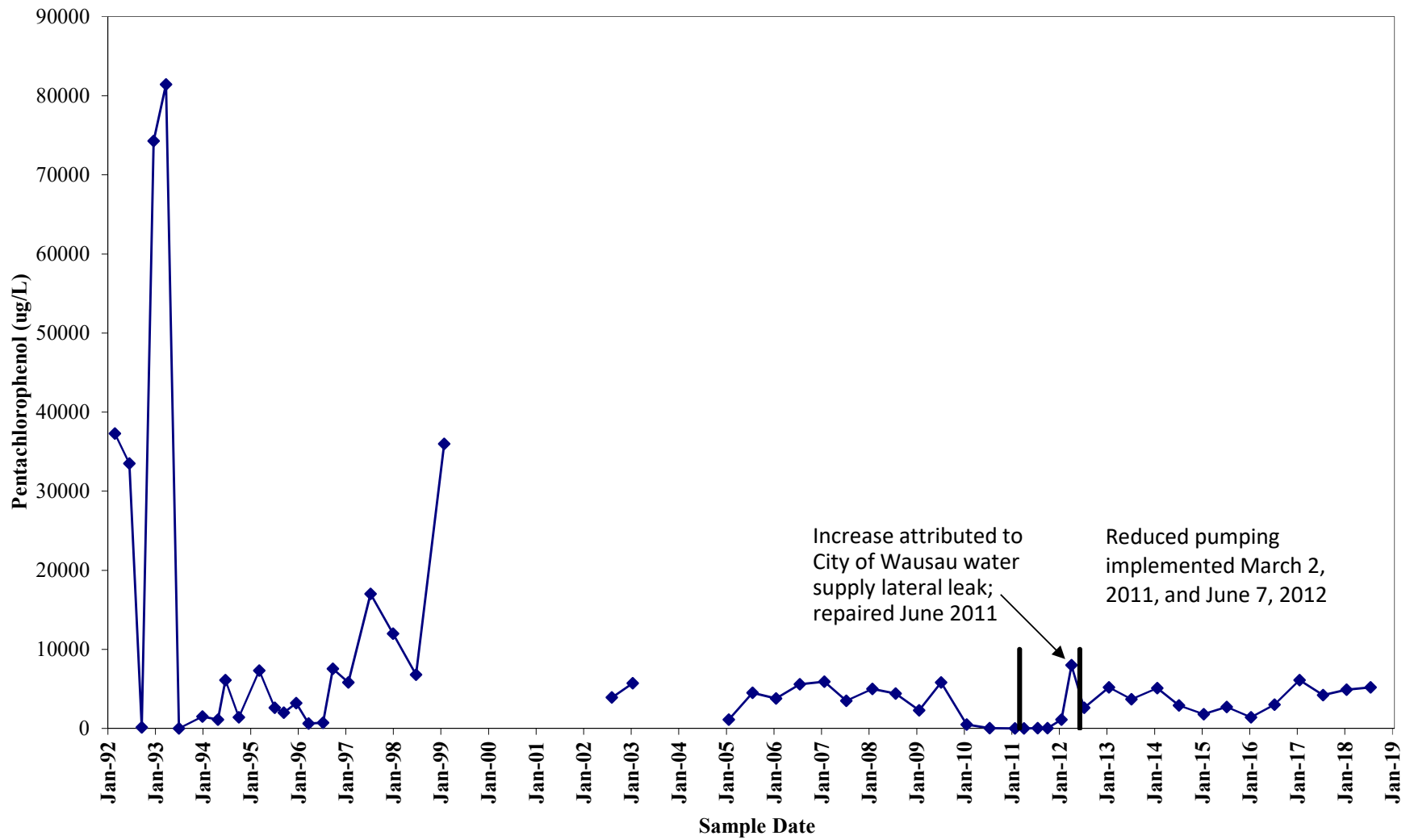
Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W19



Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W21

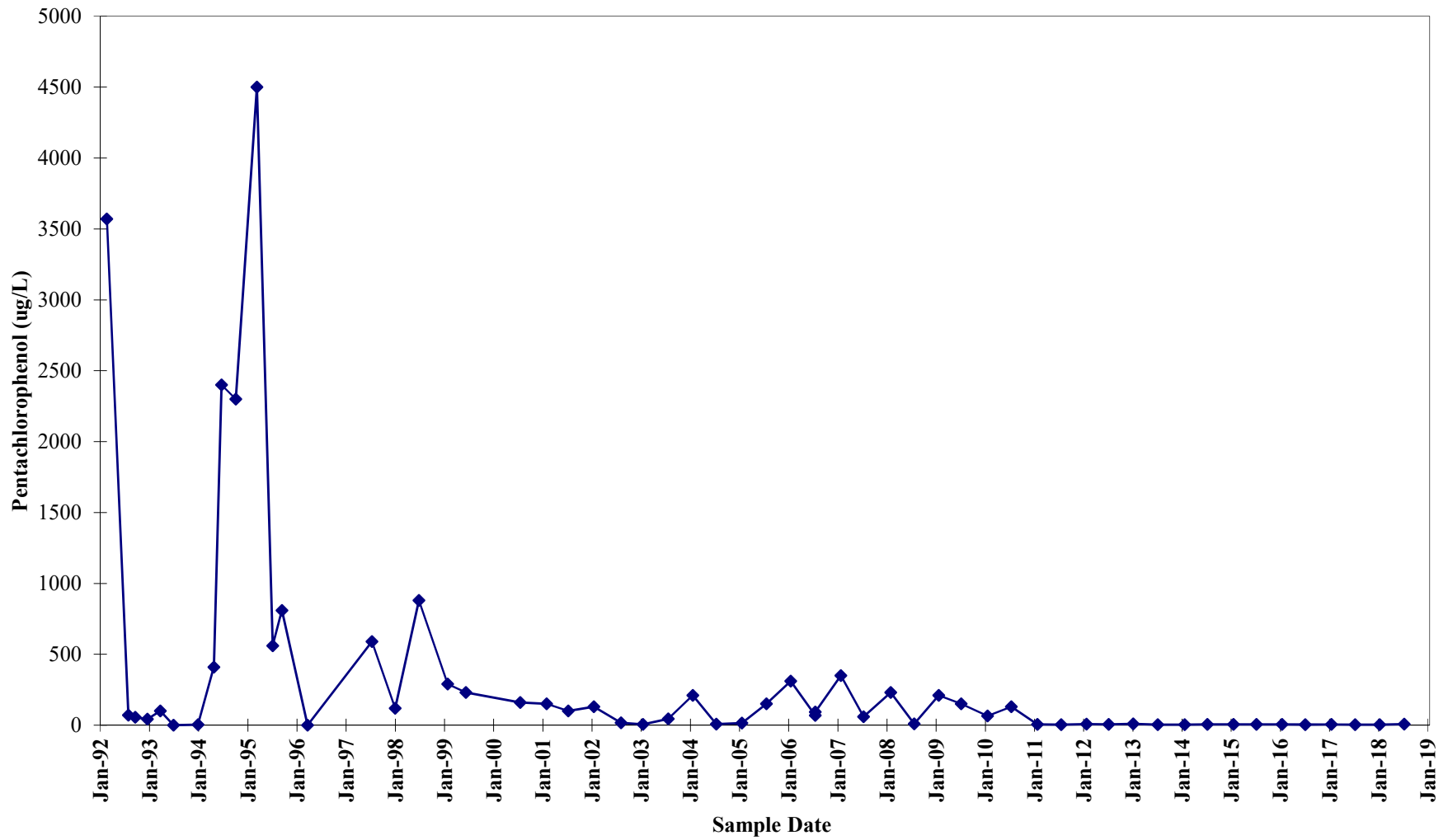


Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W22

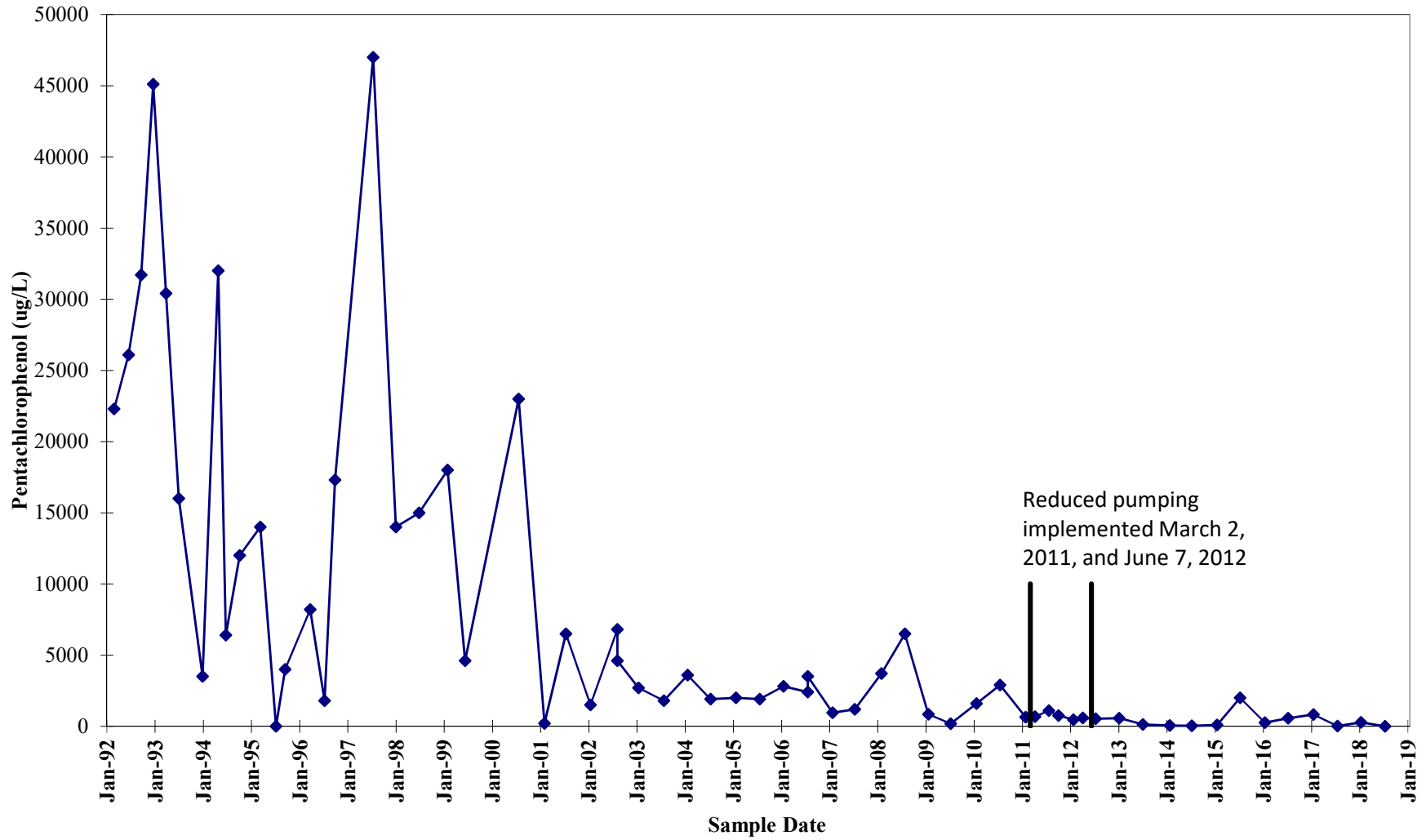


PCP data gap due to measurable product present in well.

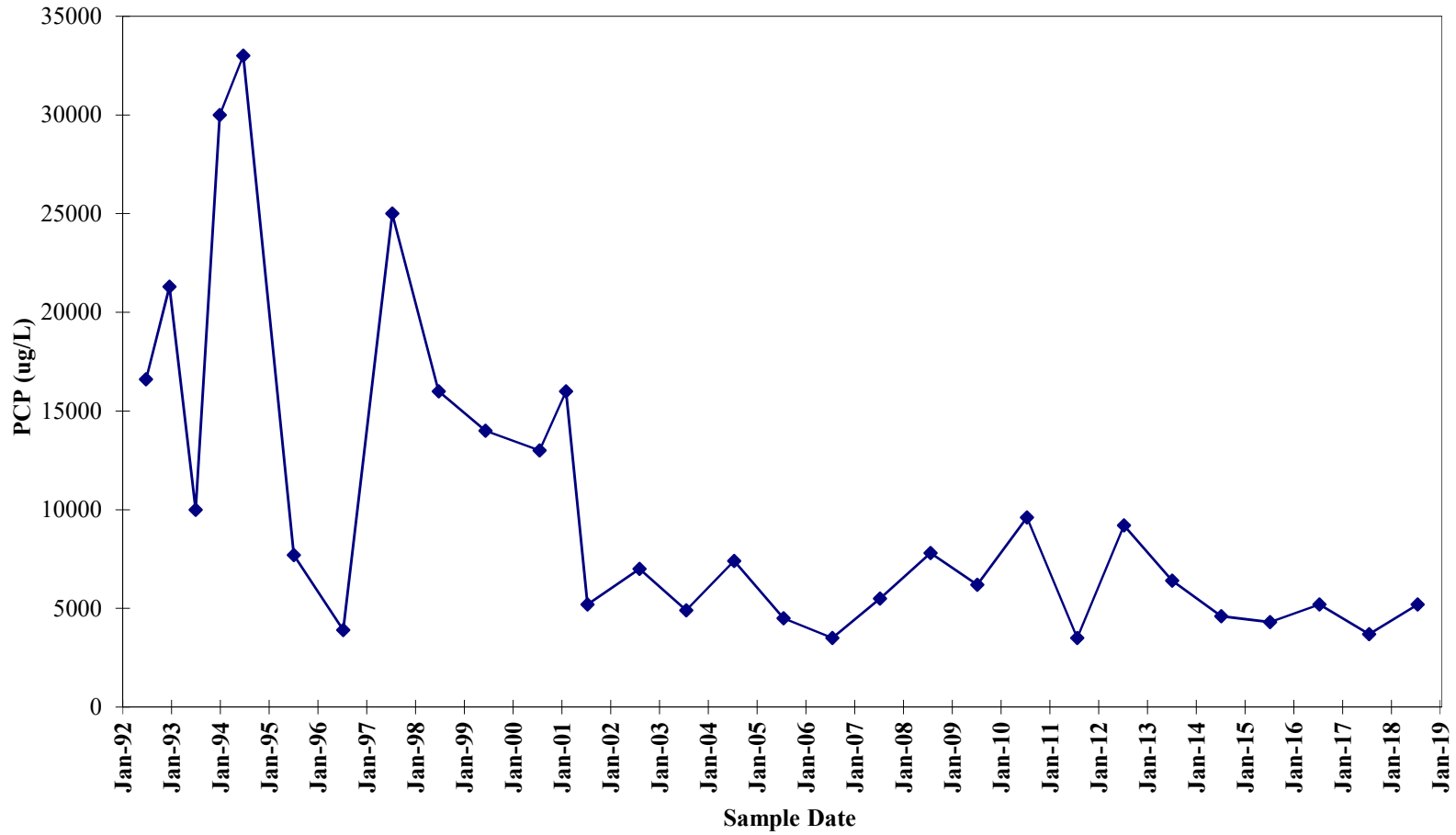
Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W25



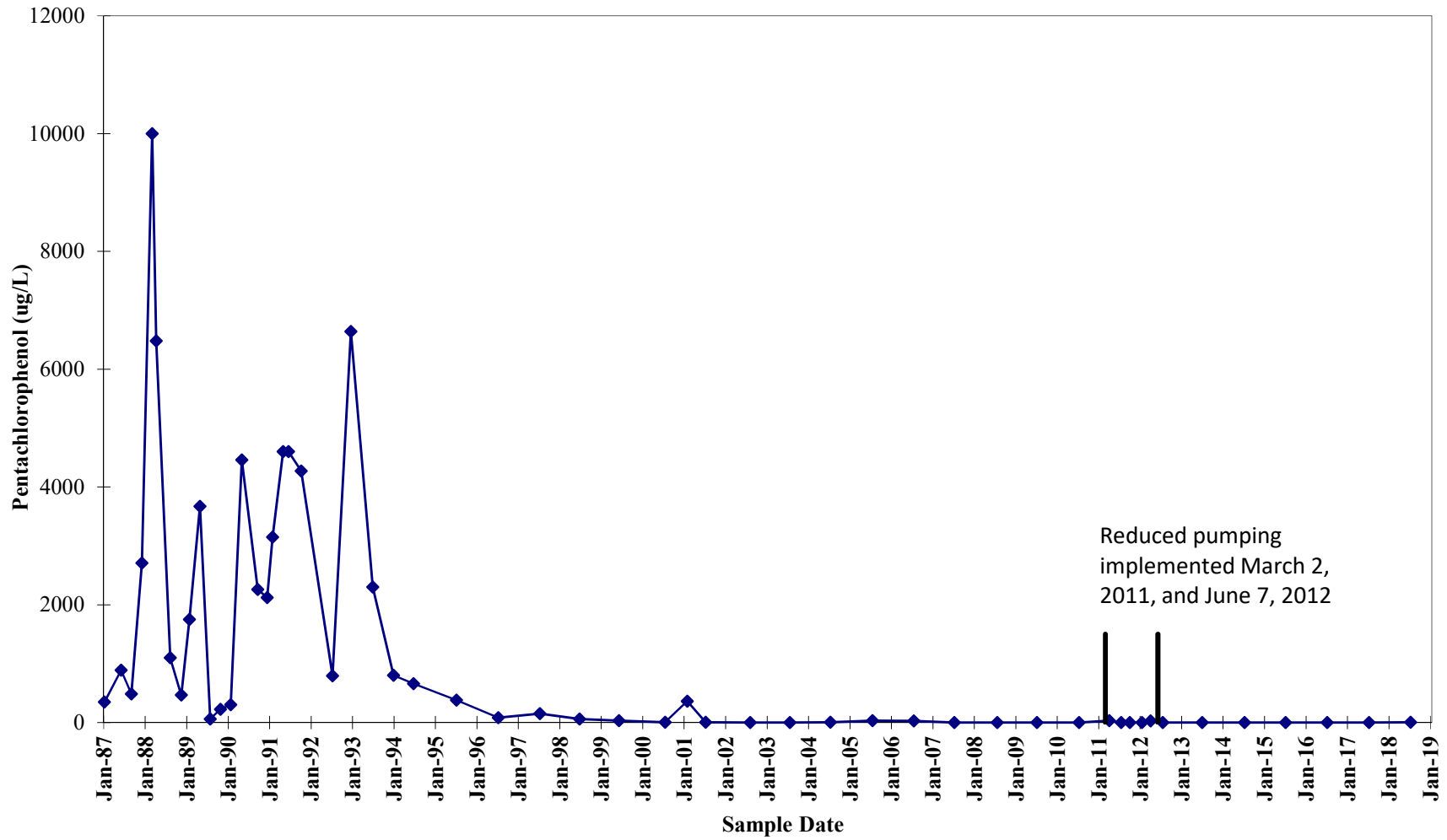
**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W26**



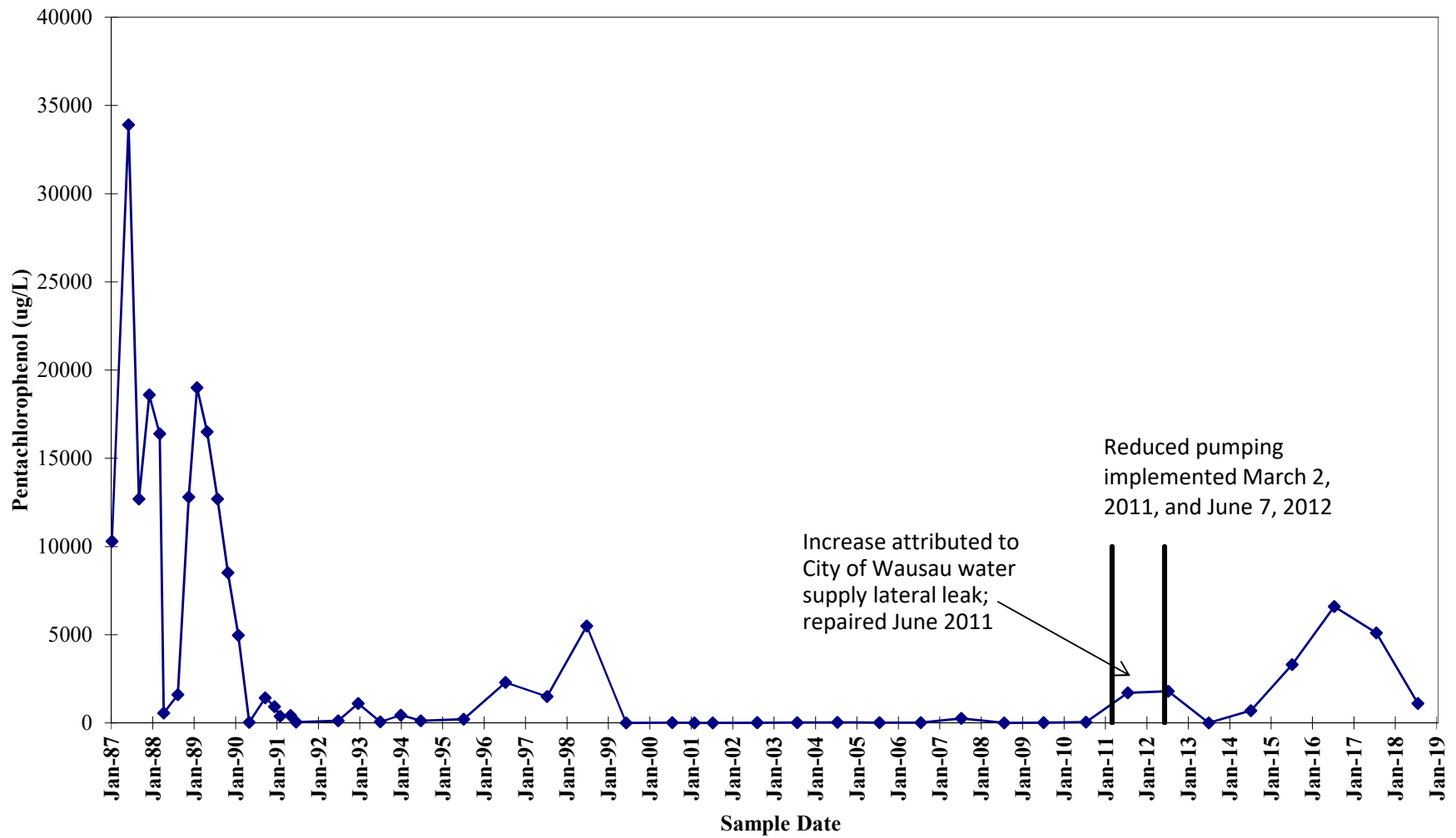
**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W27**



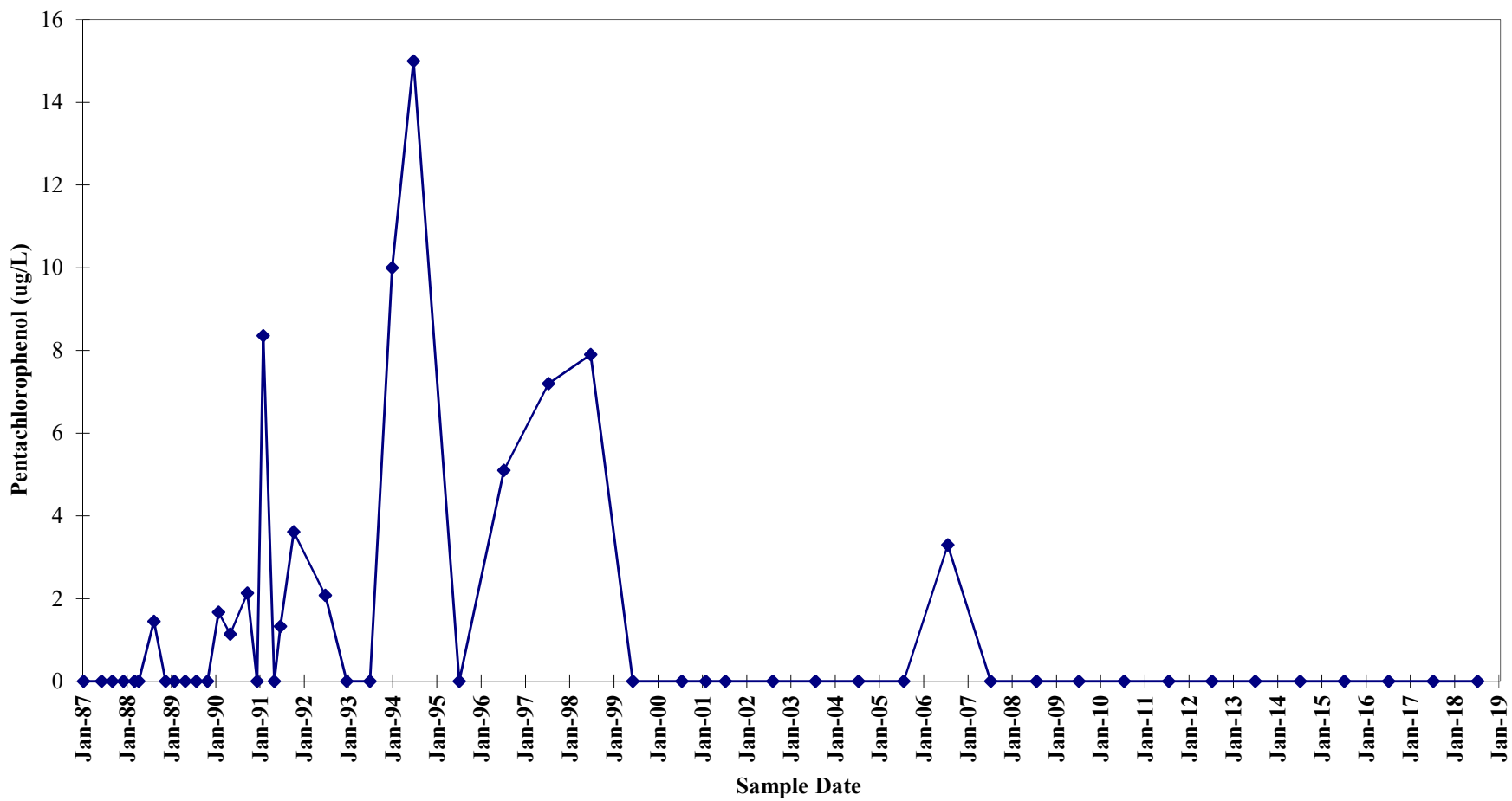
Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W28



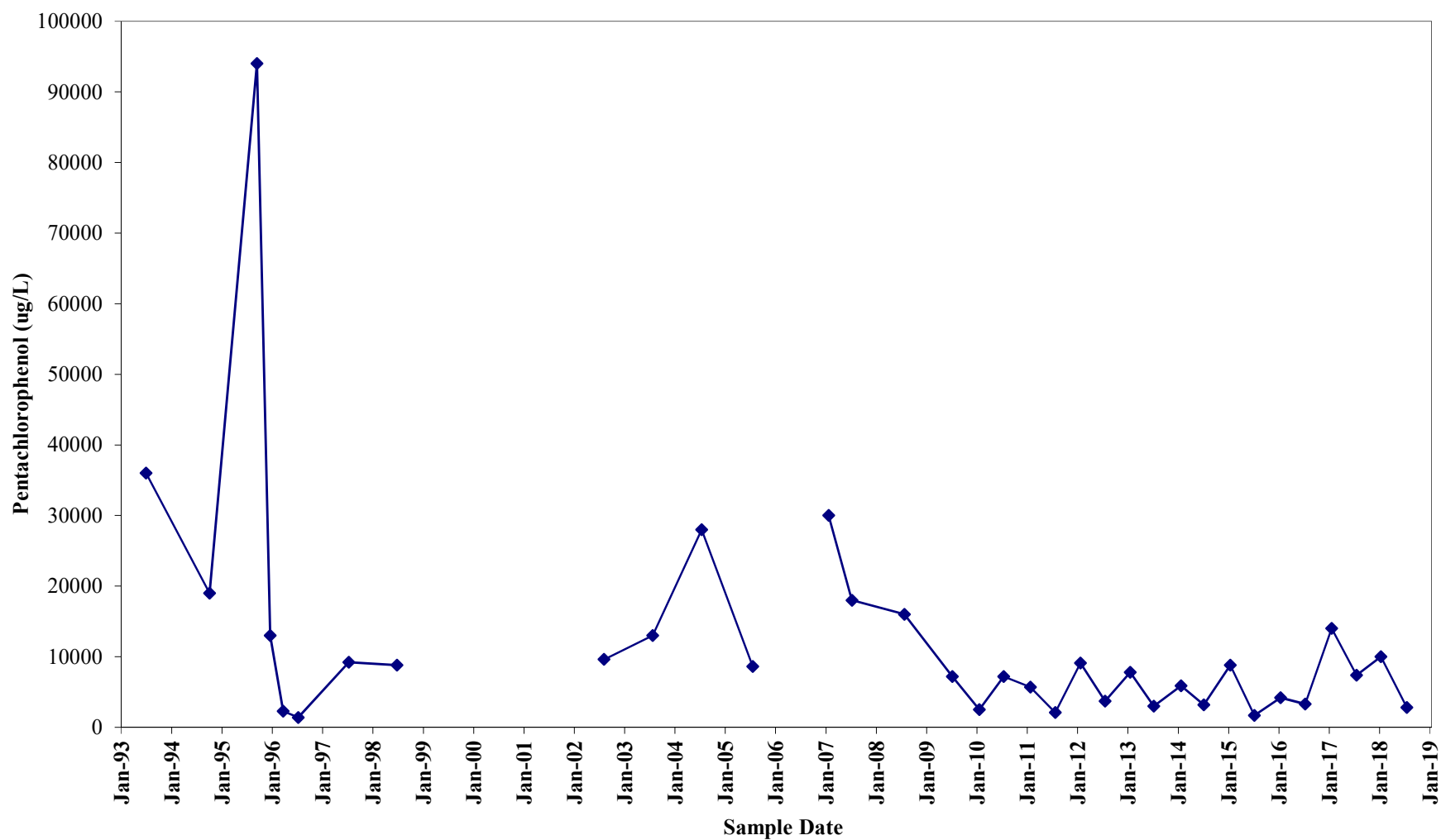
Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W29



Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W32

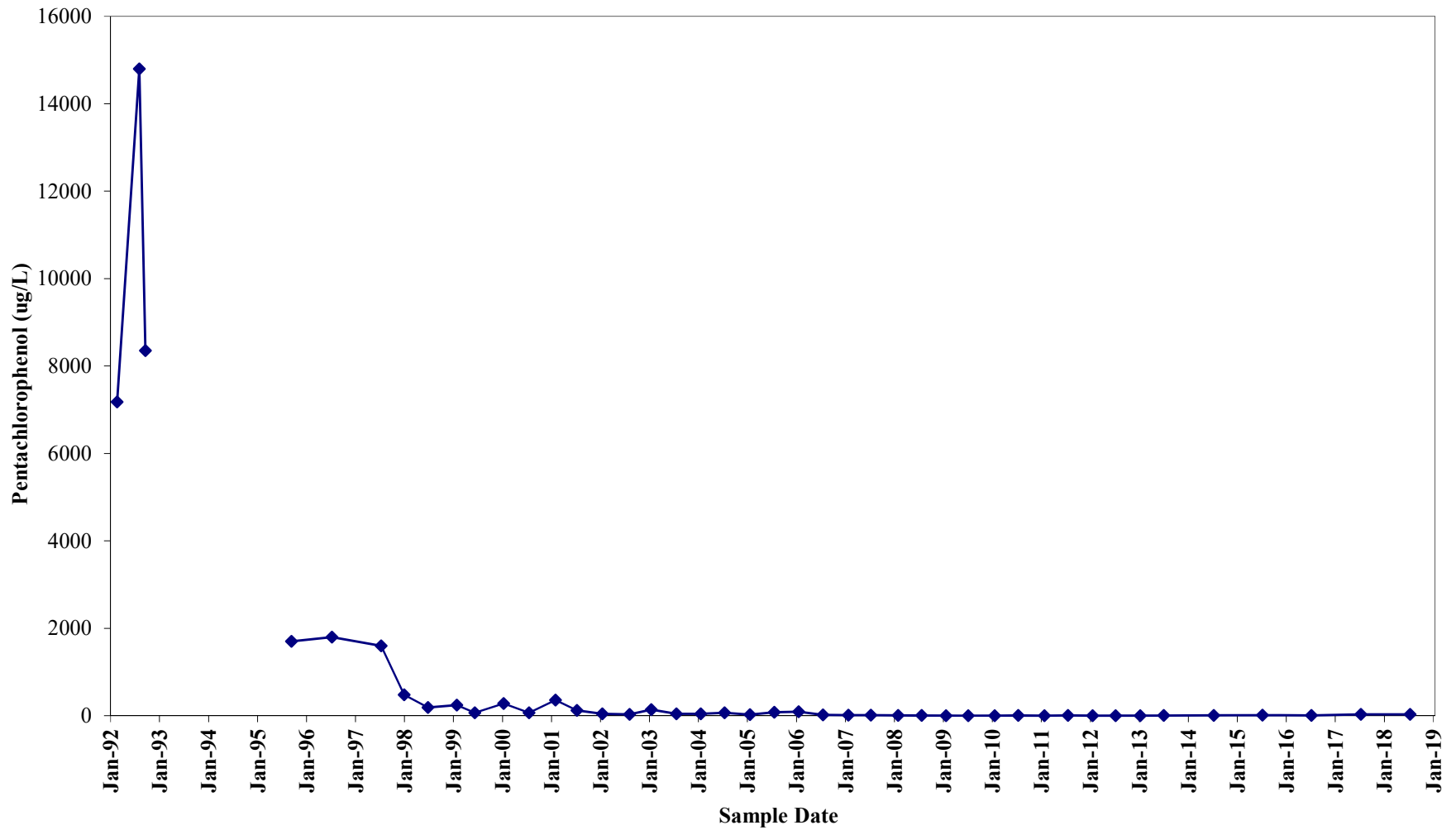


Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W33



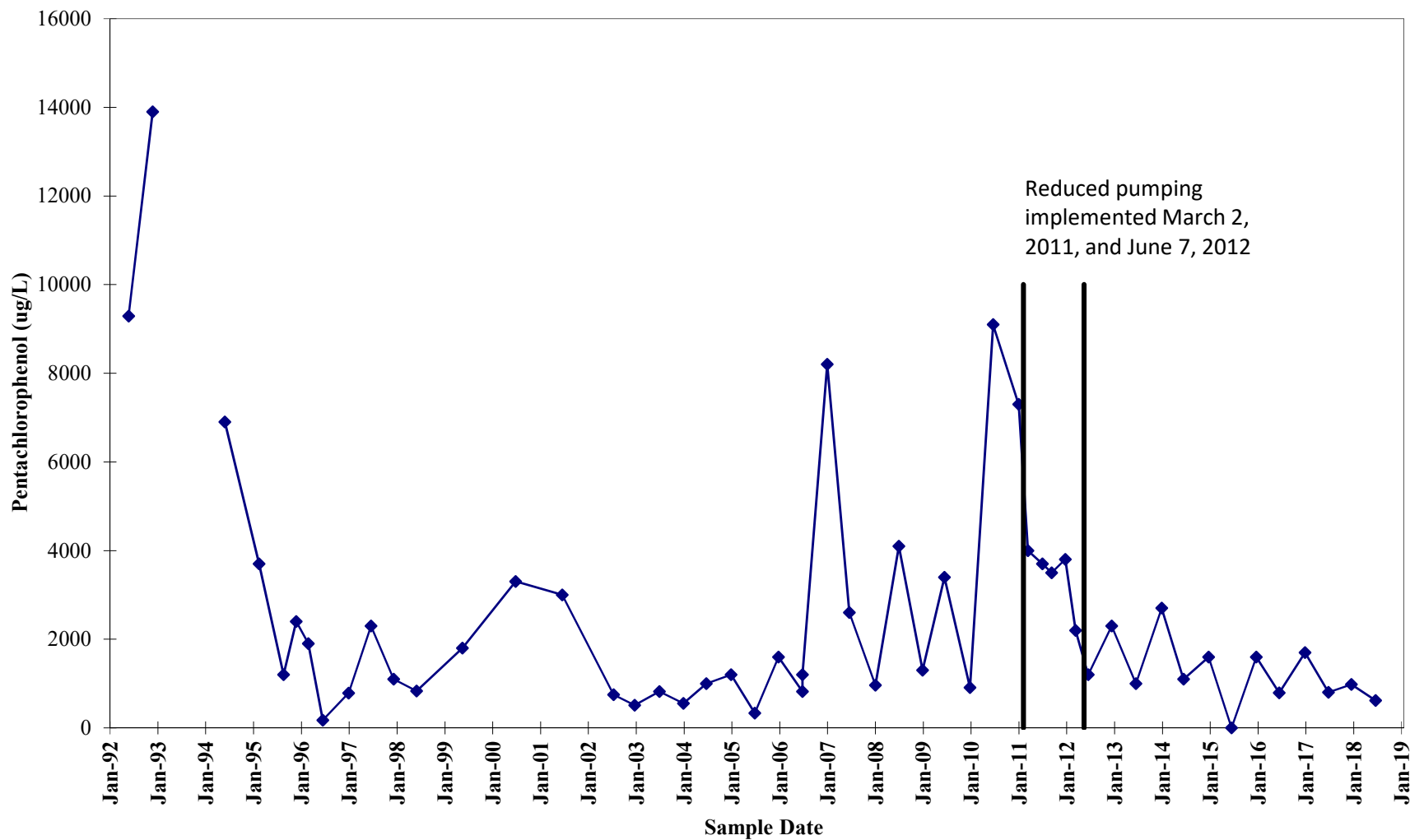
PCP data gap due to measurable product present in well.

Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W36



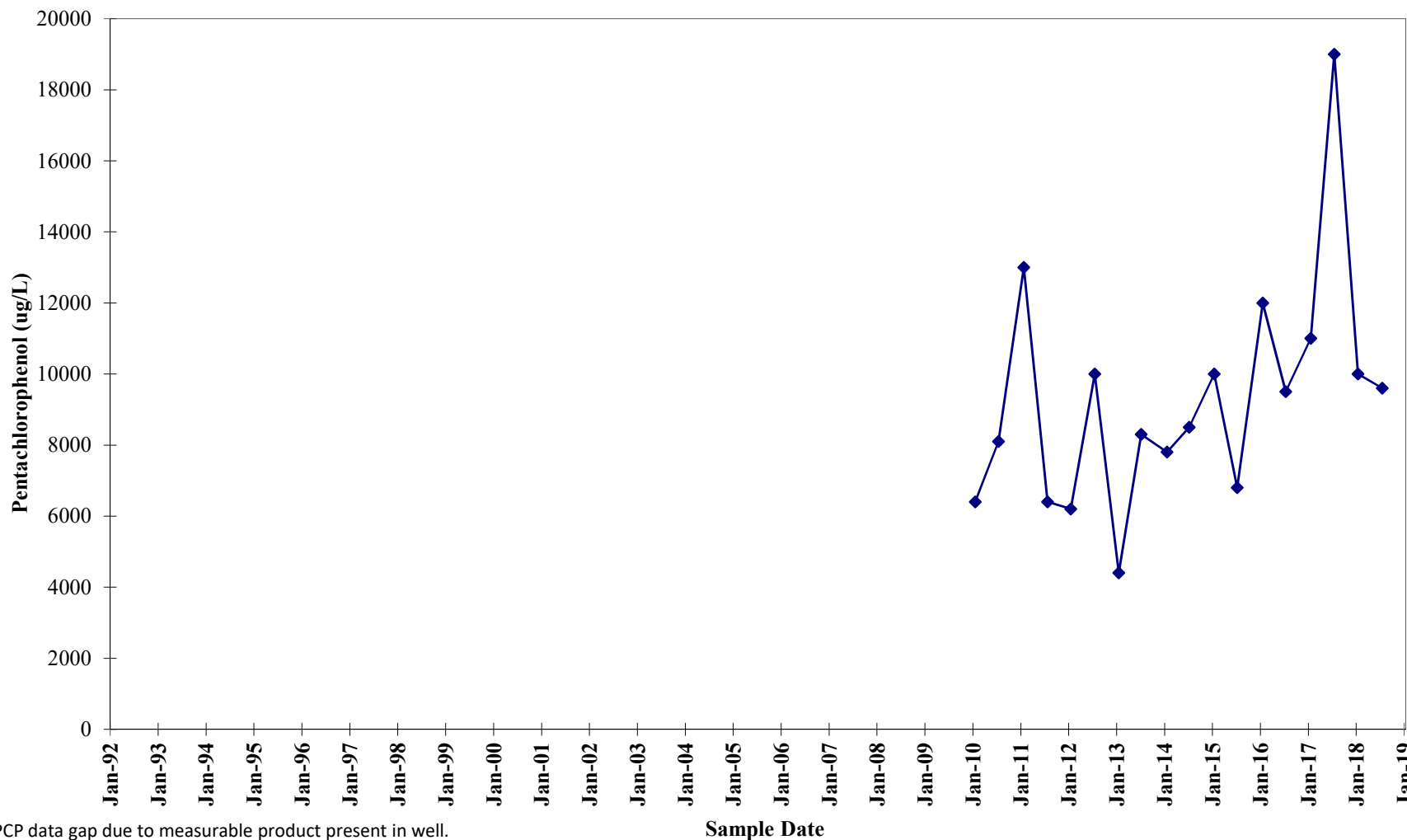
PCP data gap due to measurable product present in well.

Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W39



PCP data gap due to measurable product present in well.

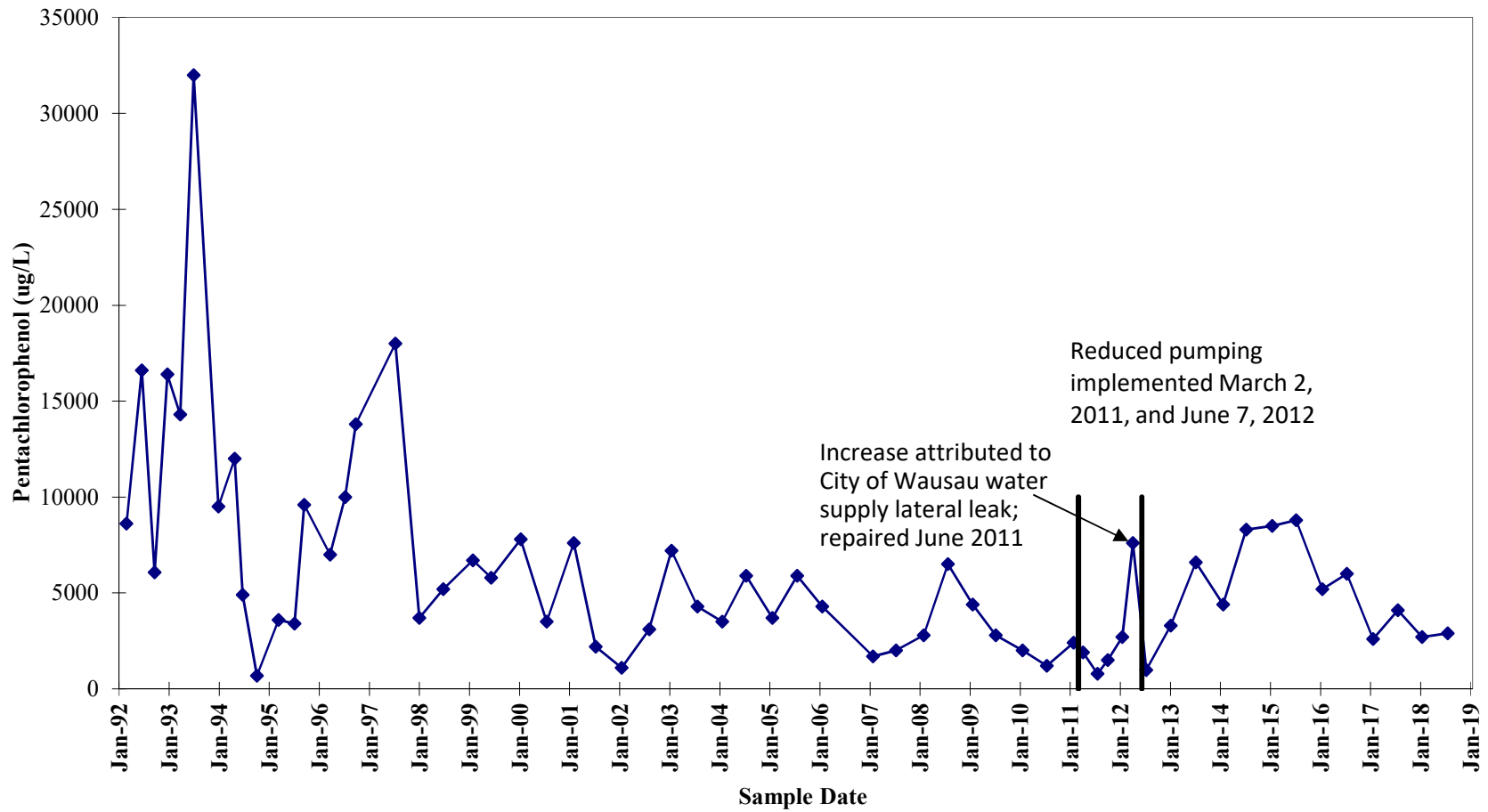
Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W40



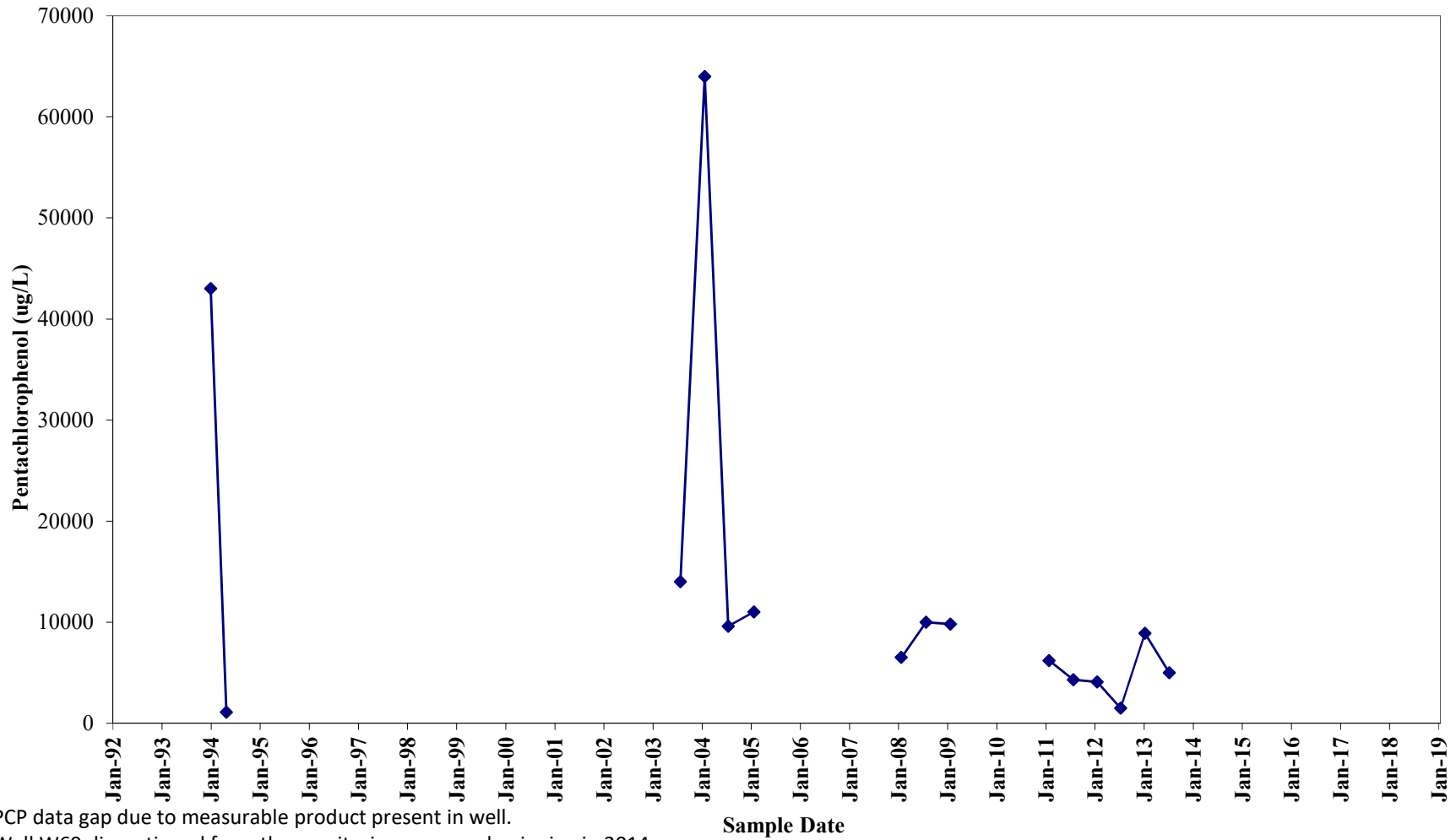
PCP data gap due to measurable product present in well.

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

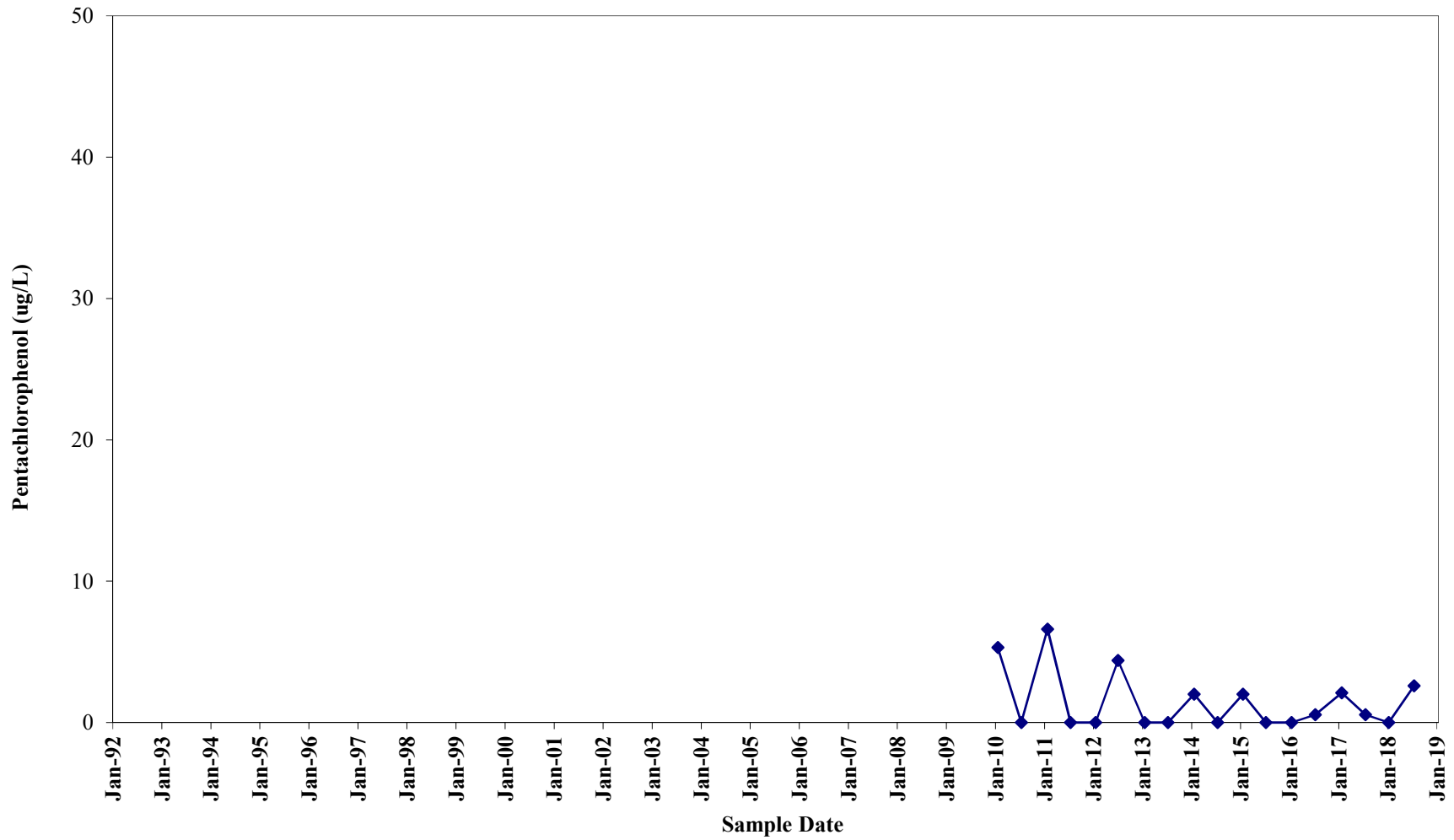
**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W41**



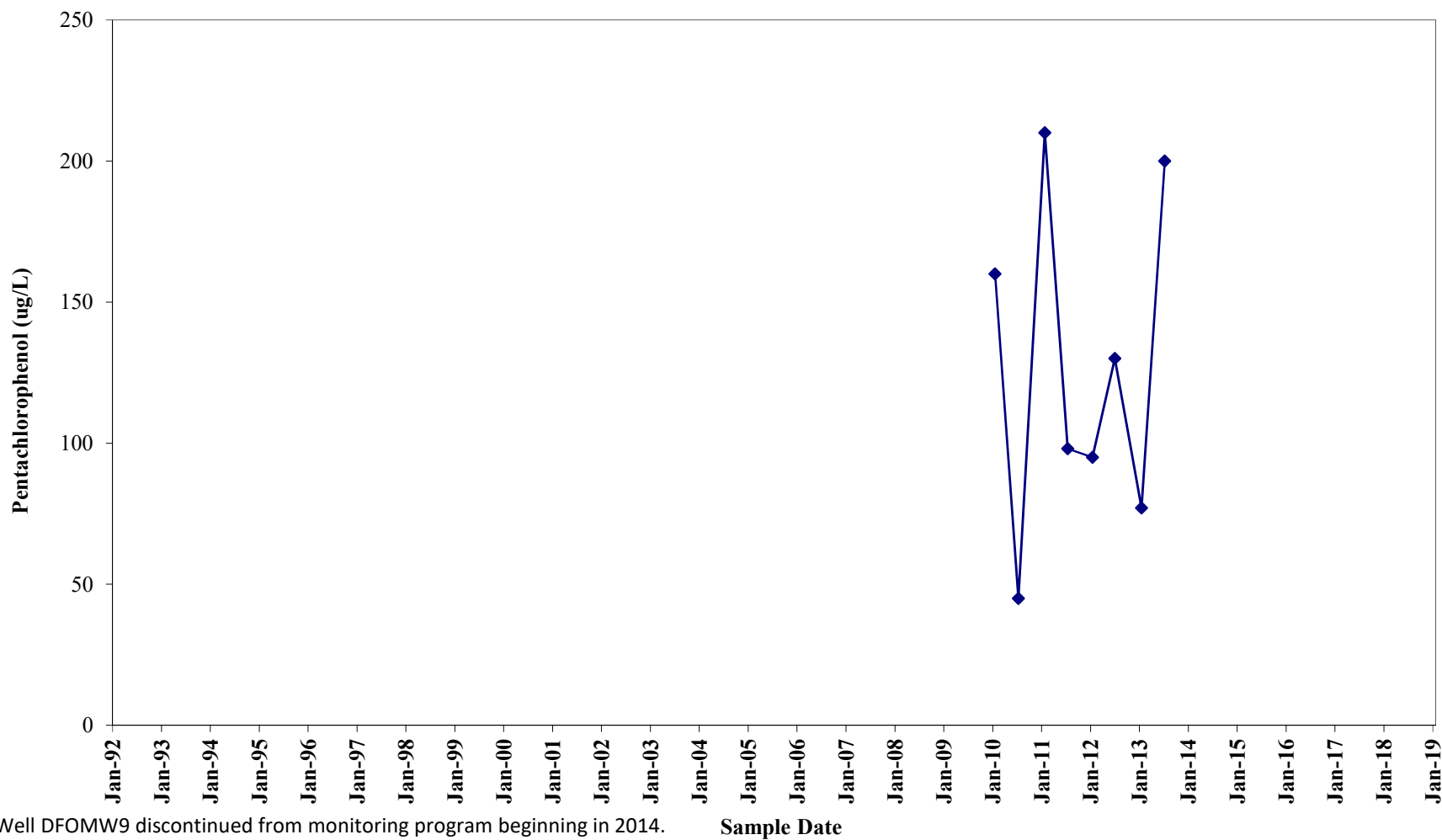
Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W69



**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well DFOMW5**

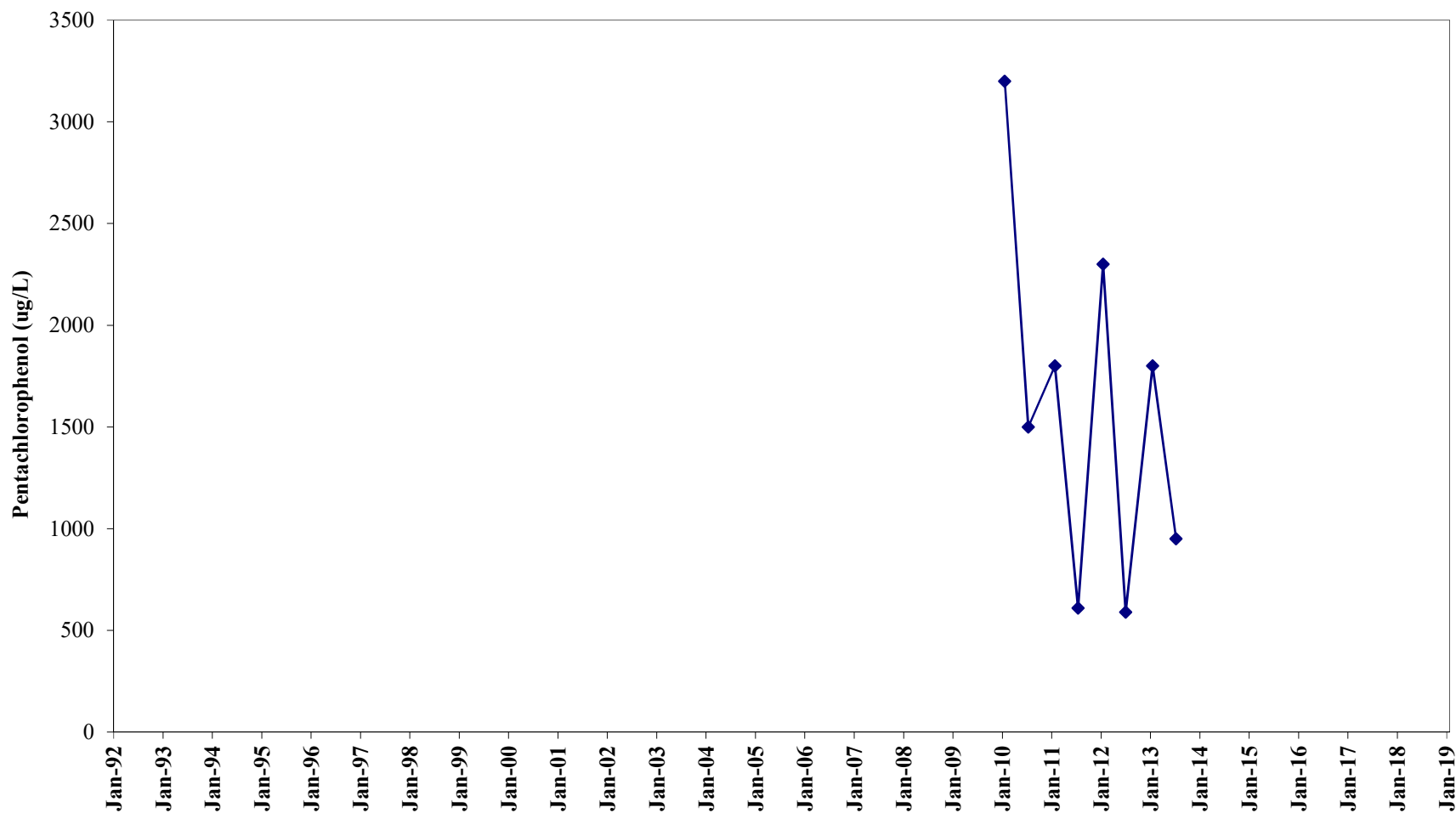


Pentachlorophenol Concentrations Historical Groundwater Monitoring Well DFOMW9



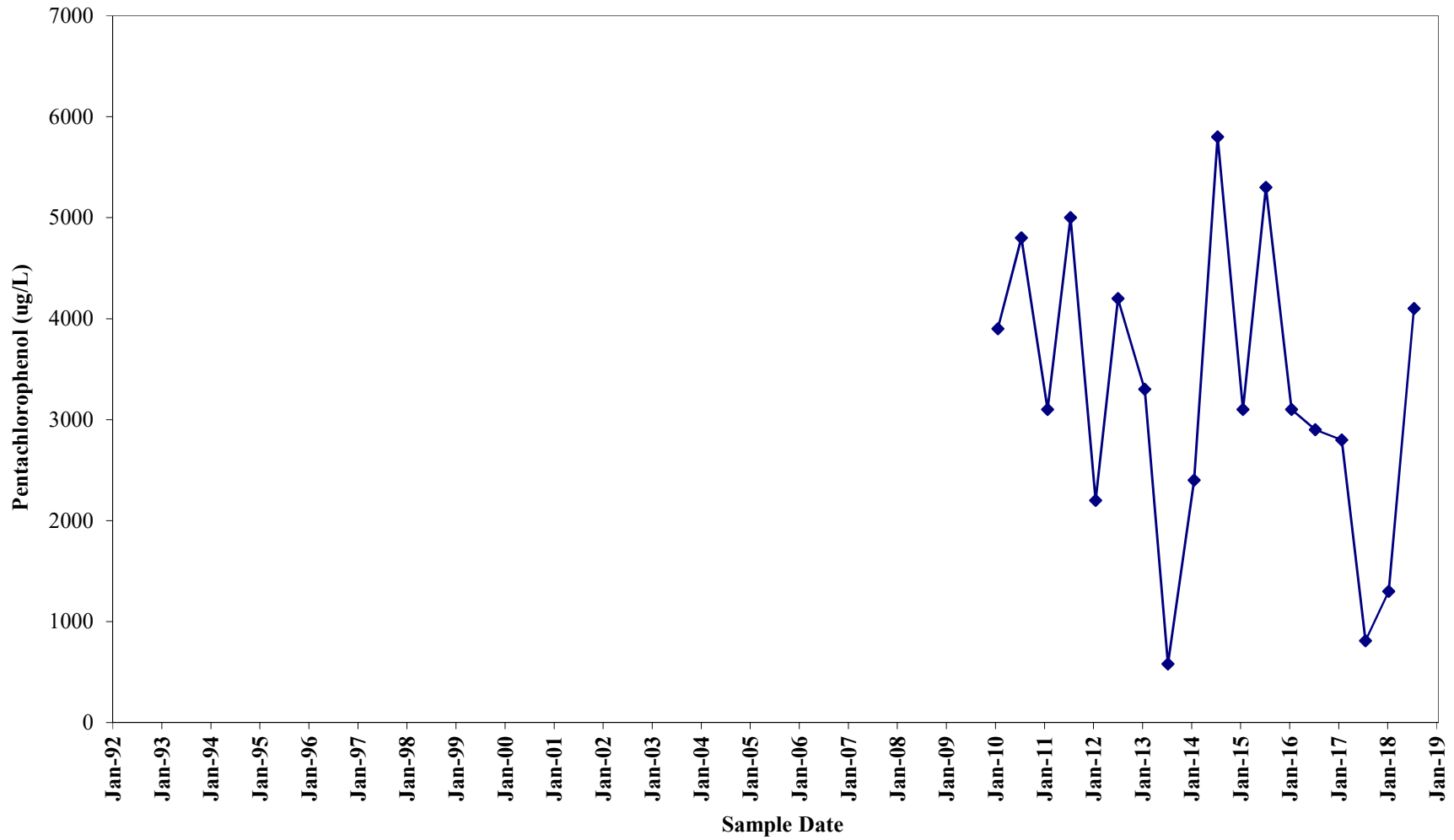
Well DFOMW9 discontinued from monitoring program beginning in 2014.
3M abandoned this well in 2015.

Pentachlorophenol Concentrations Historical Groundwater Monitoring Well DFOMW10A

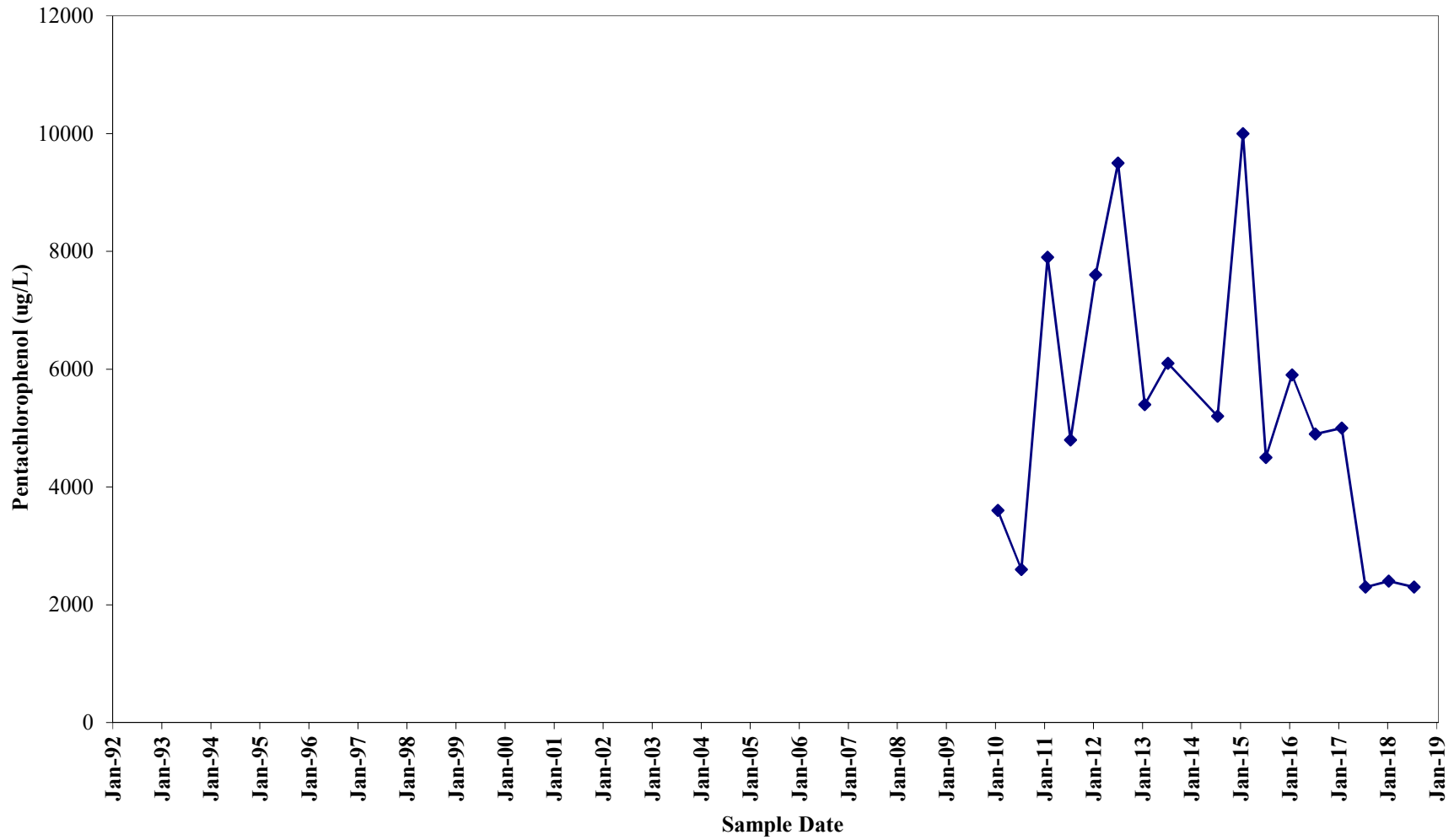


Well DFOMW10A discontinued from monitoring program beginning in 2014. 3M abandoned this well in 2015.

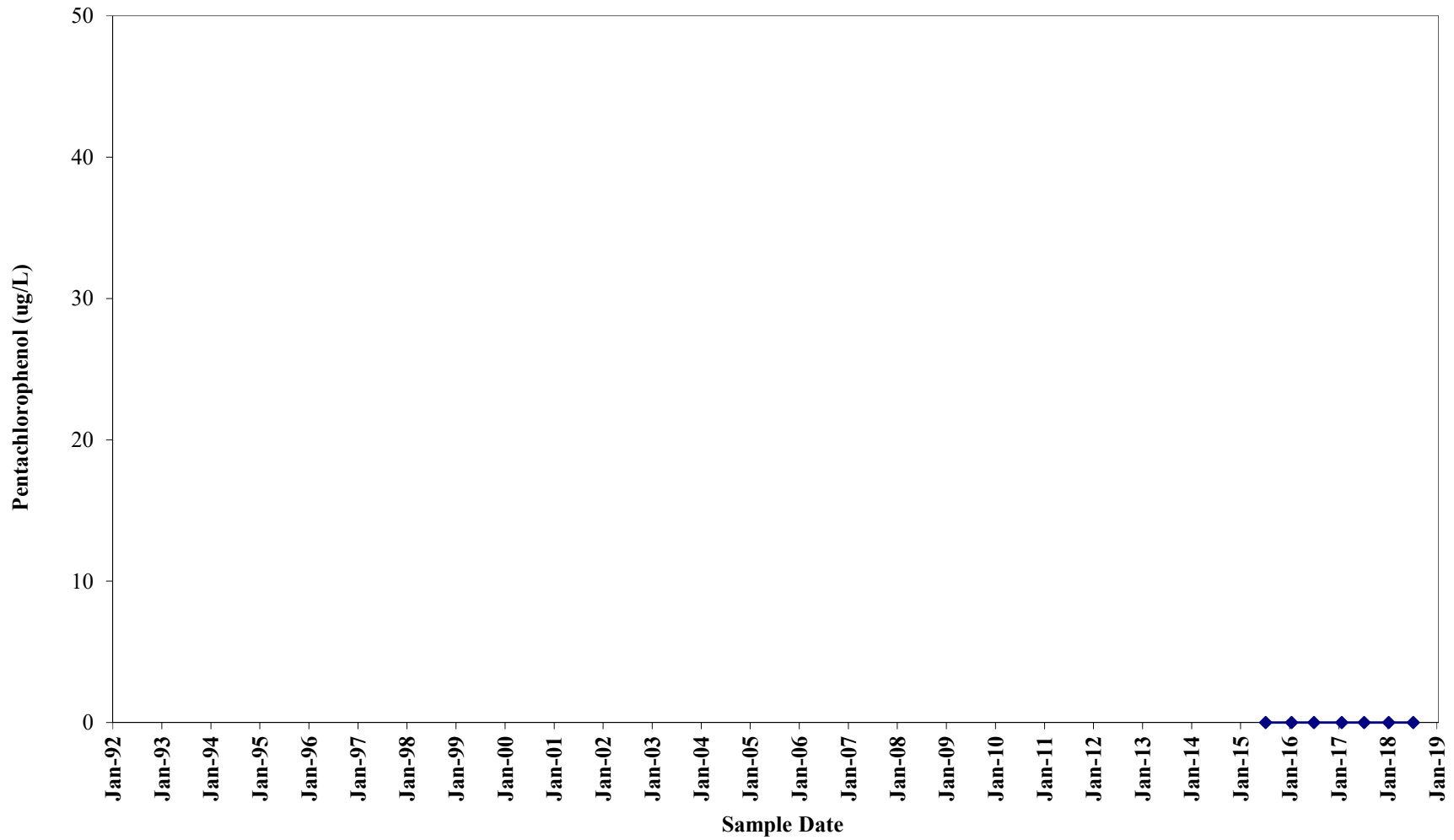
**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well DFOMW11**



**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well DFOMW12**

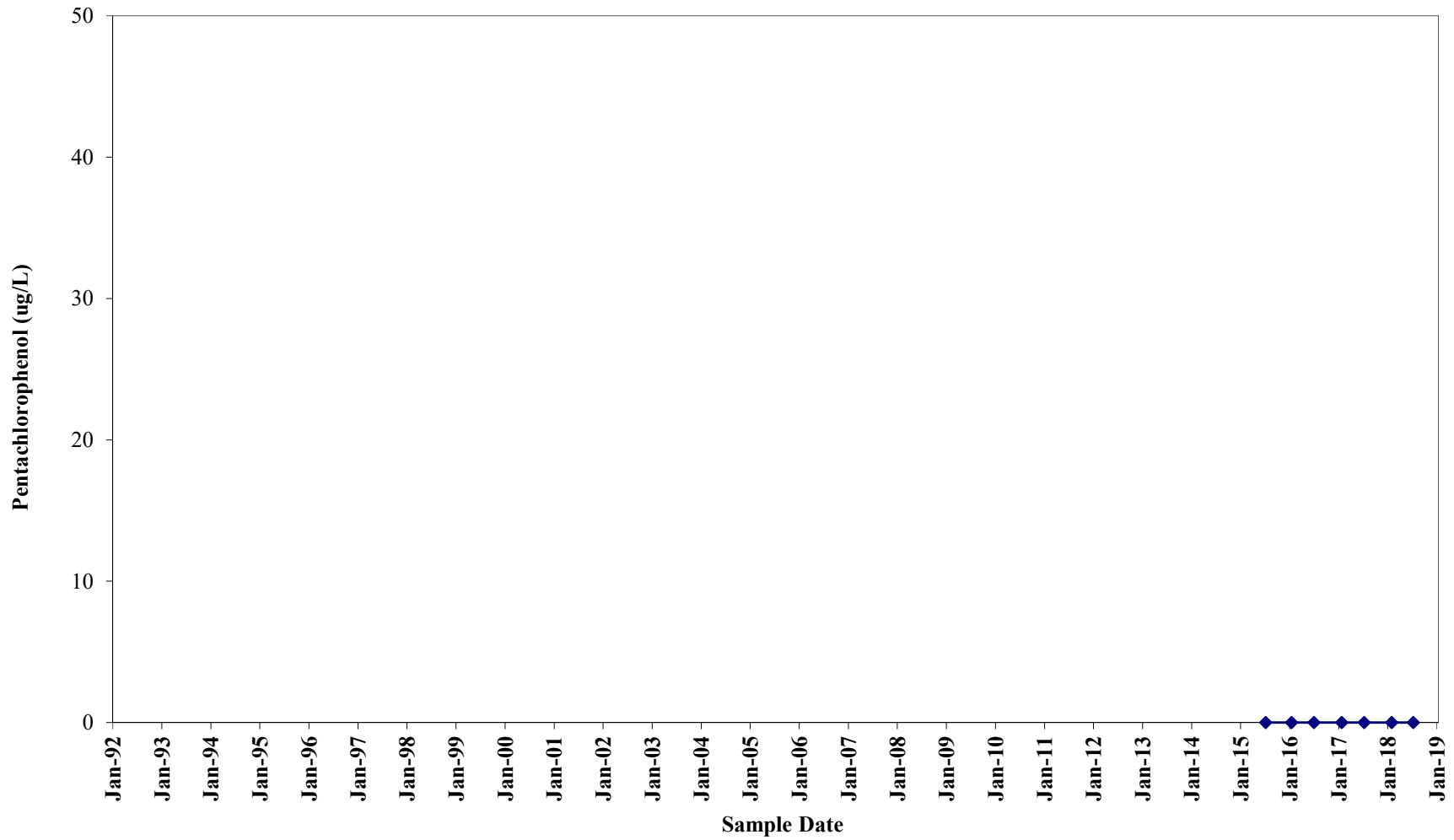


Pentachlorophenol Concentrations Historical Groundwater Monitoring Well W71



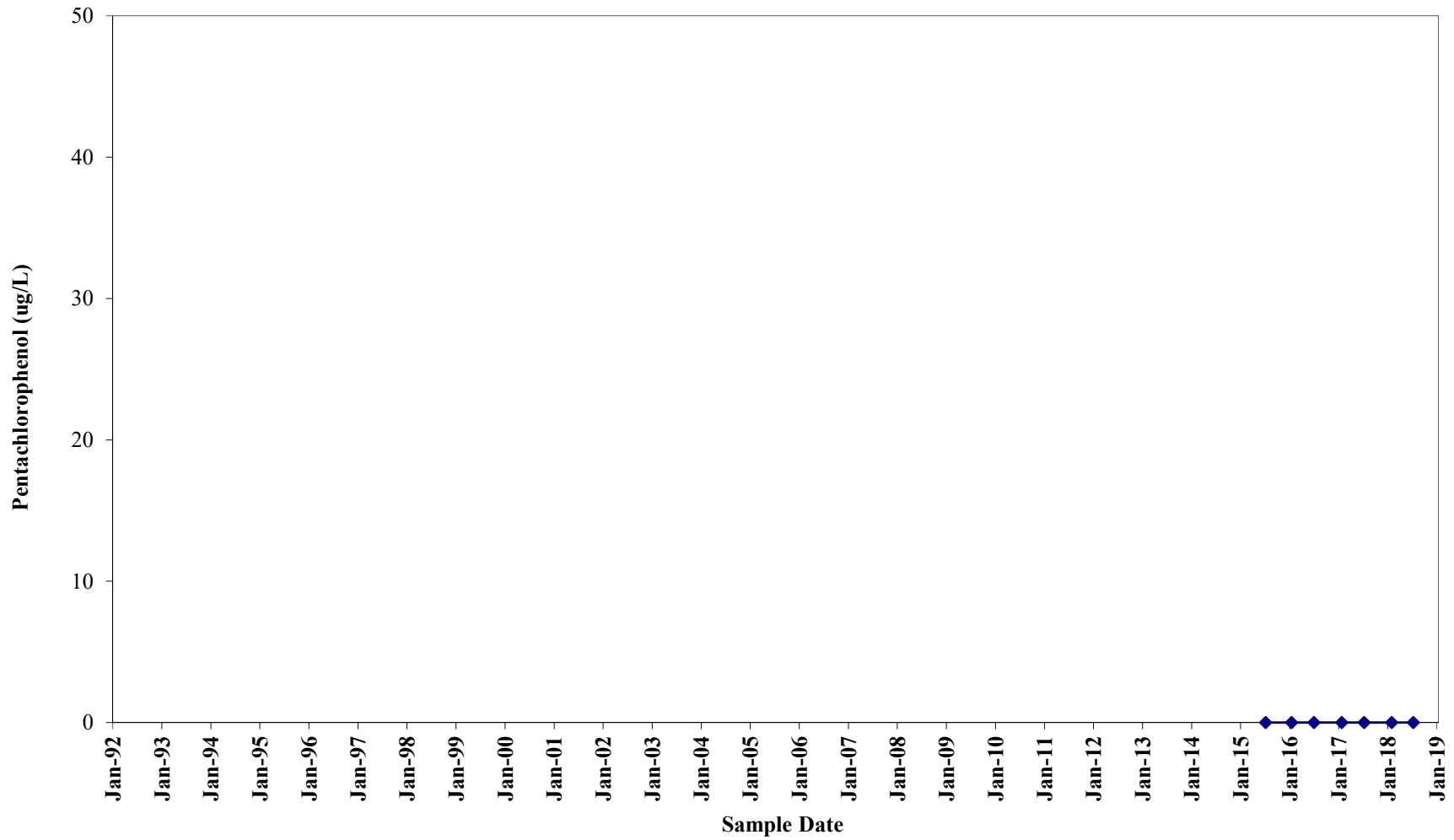
Well W71 installed in June 2015.

**Pentachlorophenol Concentrations
Historical Groundwater Monitoring
Well W72**



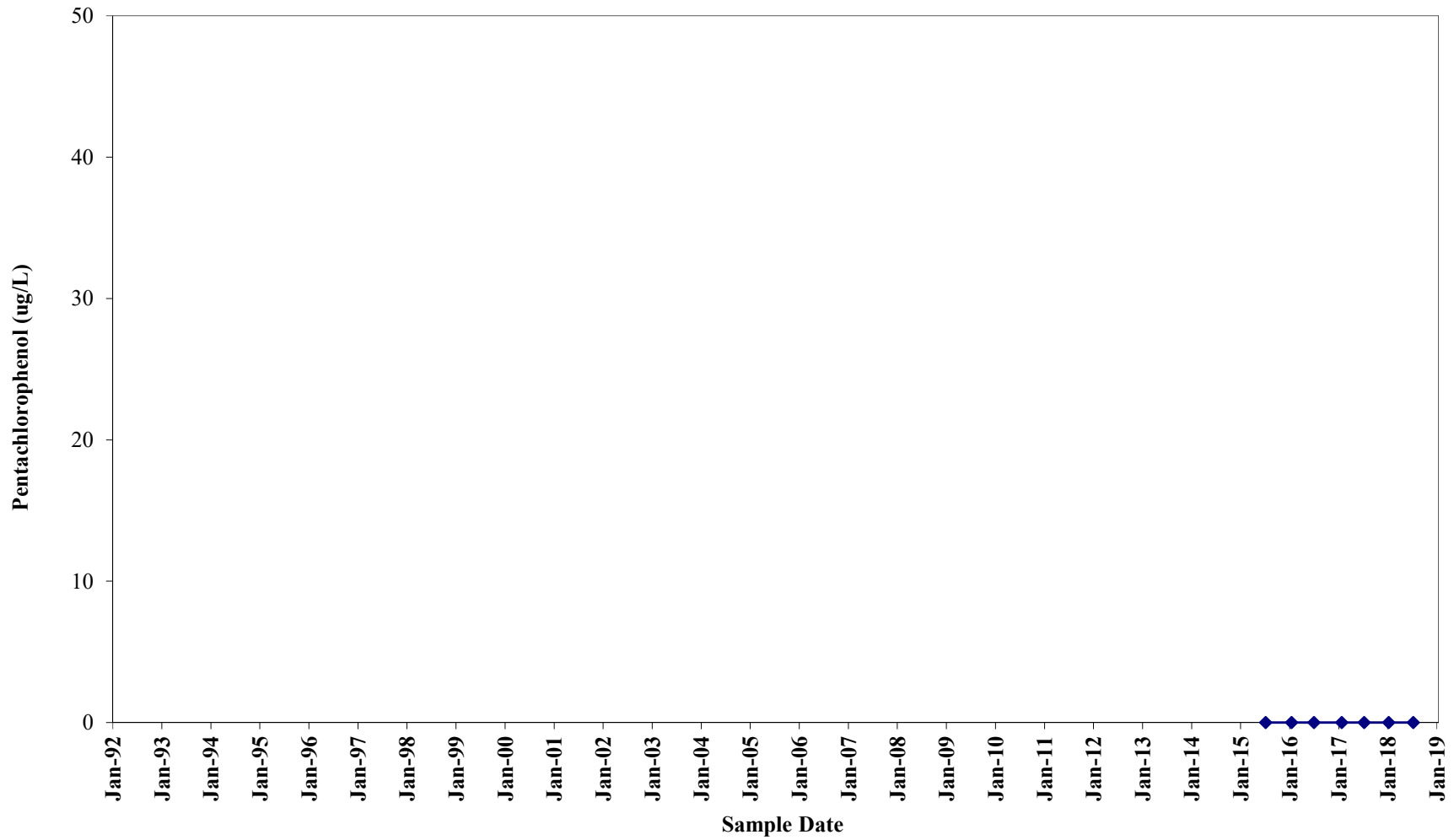
Well W72 installed in June 2015.

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

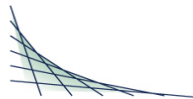
LABORATORY REPORT

D1 January 2018

D2 July 2018

D1

January 2018



REVISED
ANALYTICAL REPORT

TRC ENVIRONMENTAL
 BRUCE IVERSON
 708 HEARTLAND TRAIL
 MADISON, WI 53717

Project Name: WAULECO
 Project Phase: WAUSAU, WI
 Project #: 189597.0006
 Folder #: 133428
 Purchase Order #: 117482
 Contract #: 2399

Page 1 of 7
 Arrival Temperature: 4.0
 Report Date: 01/23/2018
 Date Received: 01/10/2018
 Reprint Date: 03/12/2019
 Revision Date 03/12/2019

CT LAB#: 972978	Sample Description: W71	Sampled: 01/09/2018 0730
-----------------	-------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	-----------------	----------	-----------	----------------	--------------------	---------	--------

Organic Results

Pentachlorophenol	<3.0	ug/L	0.51	1.7	3.0	1		01/15/2018 08:00	01/16/2018 17:36	RPN	EPA 8270D
-------------------	------	------	------	-----	-----	---	--	------------------	------------------	-----	-----------

CT LAB#: 972980	Sample Description: W74	Sampled: 01/09/2018 0855
-----------------	-------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	-----------------	----------	-----------	----------------	--------------------	---------	--------

Organic Results

Pentachlorophenol	<3.0	ug/L	0.53	1.8	3.0	1		01/15/2018 08:00	01/16/2018 18:17	RPN	EPA 8270D
-------------------	------	------	------	-----	-----	---	--	------------------	------------------	-----	-----------

CT LAB#: 972981	Sample Description: DFOMW5	Sampled: 01/09/2018 1105
-----------------	----------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	-----------------	----------	-----------	----------------	--------------------	---------	--------

Organic Results

Pentachlorophenol	<3.0	ug/L	0.51	1.7	3.0	1		01/15/2018 08:00	01/16/2018 18:37	RPN	EPA 8270D
-------------------	------	------	------	-----	-----	---	--	------------------	------------------	-----	-----------

CT LAB#: 972982	Sample Description: DFOMW11	Sampled: 01/09/2018 1135
-----------------	-----------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	-----------------	----------	-----------	----------------	--------------------	---------	--------

Organic Results

Pentachlorophenol	1300	ug/L	25	86	25	50		01/15/2018 08:00	01/16/2018 22:01	RPN	EPA 8270D
-------------------	------	------	----	----	----	----	--	------------------	------------------	-----	-----------

CT LAB#: 972983	Sample Description: DFOMW12	Sampled: 01/09/2018 1215
-----------------	-----------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	-----------------	----------	-----------	----------------	--------------------	---------	--------

Organic Results

Pentachlorophenol	2400	ug/L	100	340	100	200		01/15/2018 08:00	01/17/2018 13:51	RPN	EPA 8270D
-------------------	------	------	-----	-----	-----	-----	--	------------------	------------------	-----	-----------

CT LAB#: 972984	Sample Description: DFOMW12 DUP	Sampled: 01/09/2018 1215
-----------------	---------------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	-----------------	----------	-----------	----------------	--------------------	---------	--------

Organic Results

Pentachlorophenol	2600	ug/L	100	340	100	200		01/15/2018 08:00	01/17/2018 14:11	RPN	EPA 8270D
-------------------	------	------	-----	-----	-----	-----	--	------------------	------------------	-----	-----------

CT LAB#: 972985	Sample Description: W25	Sampled: 01/09/2018 0940
-----------------	-------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	-----------------	----------	-----------	----------------	--------------------	---------	--------

Inorganic Results

Nitrate Nitrogen Total	3.9	mg/L	0.040	0.13	0.040	1			01/10/2018 13:53	DGS	EPA 9056A
------------------------	-----	------	-------	------	-------	---	--	--	------------------	-----	-----------

Organic Results

4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
----------------------------	------	------	------	-----	-----	---	--	------------------	------------------	-----	-----------

2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
---------------------------	------	------	------	-----	-----	---	--	------------------	------------------	-----	-----------

2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
-----------------------	------	------	------	-----	-----	---	--	------------------	------------------	-----	-----------

2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
-----------------------	------	------	------	-----	-----	---	--	------------------	------------------	-----	-----------

CT LAB#: 972985 Sample Description: W25 Sampled: 01/09/2018 0940

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
Pentachlorophenol	4.6	ug/L	0.50	1.7	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	3.0	1		01/15/2018 08:00	01/16/2018 19:59	RPN	EPA 8270D

CT LAB#: 972986 Sample Description: W39 Sampled: 01/09/2018 1020

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	0.040	1			01/10/2018 14:10	DGS	EPA 9056A
Organic Results											
4,6-Dinitro-2-methylphenol	<15	ug/L	15	55	15	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
2,3,4,6-Tetrachlorophenol	53	ug/L	6.5	50	6.5	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
2,4,5-Trichlorophenol	<12	ug/L	12	50	12	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
2,4,6-Trichlorophenol	<11	ug/L	11	50	11	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	50	13	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
2,4-Dimethylphenol	<10	ug/L	10	50	10	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
2,4-Dinitrophenol	<15	ug/L	15	50	15	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D

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

CT LAB#: 972986	Sample Description: W39	Sampled: 01/09/2018 1020
-----------------	-------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,6-Dichlorophenol	<11	ug/L	11	50	11	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
2-Chlorophenol	<12	ug/L	12	50	12	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
2-Methylphenol	<10	ug/L	10	50	10	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
2-Nitrophenol	<11	ug/L	11	50	11	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
3 & 4-Methylphenol	<12	ug/L	12	50	12	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
4-Chloro-3-methylphenol	<11	ug/L	11	50	11	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
4-Nitrophenol	<12	ug/L	12	50	12	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
Pentachlorophenol	980	ug/L	25	85	25	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D
Phenol	<13	ug/L	13	50	13	50		01/15/2018 08:00	01/16/2018 23:03	RPN	EPA 8270D

CT LAB#: 972987	Sample Description: W73	Sampled: 01/09/2018 1330
-----------------	-------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results											
Total Sulfate	32	mg/L	1.0	3.2	1.0	1			01/10/2018 14:27	DGS	EPA 9056A
Total Organic Carbon	4.8	mg/L	0.50	1.7	0.50	1			01/15/2018 12:20	DGS	EPA 9060A
Metals Results											
Dissolved Iron	<59	ug/L	59	200	59	1	M,Y		01/15/2018 19:56	NAH	EPA 6010C
Dissolved Manganese	2.4	ug/L	2.2	7.3	2.2	1	J M,Y		01/15/2018 19:56	NAH	EPA 6010C
Organic Results											
TPH as Mineral Spirits	<33	ug/L	33	110	33	1		01/12/2018 11:00	01/16/2018 17:54	AJZ	EPA 8015

CT LAB#: 972991	Sample Description: W13	Sampled: 01/09/2018 1430
-----------------	-------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	-----------------	----------	-----------	----------------	--------------------	---------	--------

Inorganic Results

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

CT LAB#: 972991	Sample Description: W13	Sampled: 01/09/2018 1430
-----------------	-------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nitrate Nitrogen Total	1.7	mg/L	0.040	0.13	0.040	1			01/10/2018 14:45	DGS	EPA 9056A
Total Sulfate	12	mg/L	1.0	3.2	1.0	1			01/10/2018 14:45	DGS	EPA 9056A
Total Organic Carbon	2.1	mg/L	0.50	1.7	0.50	1			01/15/2018 13:04	DGS	EPA 9060A
Metals Results											
Dissolved Iron	<59	ug/L	59	200	59	1			01/15/2018 20:17	NAH	EPA 6010C
Dissolved Manganese	19.9	ug/L	2.2	7.3	2.2	1			01/15/2018 20:17	NAH	EPA 6010C
Organic Results											
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.27	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.51	1.7	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.27	1.0	3.0	1		01/15/2018 08:00	01/16/2018 20:40	RPN	EPA 8270D
TPH as Mineral Spirits	<33	ug/L	33	110	33	1		01/12/2018 11:00	01/16/2018 18:27	AJZ	EPA 8015

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

CT LAB#: 978955	Sample Description: W72	Sampled: 01/30/2018 1110
-----------------	-------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	-----------------	----------	-----------	----------------	--------------------	---------	--------

Organic Results

Pentachlorophenol	<3.0	ug/L	0.51	1.7	3.0	1		02/06/2018 08:10	02/07/2018 13:02	JJY	EPA 8270D
-------------------	------	------	------	-----	-----	---	--	------------------	------------------	-----	-----------

CT LAB#: 978958	Sample Description: W73	Sampled: 01/30/2018 1205
-----------------	-------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Reporting Limit	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	-----------------	----------	-----------	----------------	--------------------	---------	--------

Organic Results

Pentachlorophenol	<3.0	ug/L	0.53	1.8	3.0	1		02/06/2018 08:10	02/07/2018 13:23	JJY	EPA 8270D
-------------------	------	------	------	-----	-----	---	--	------------------	------------------	-----	-----------

Notes regarding entire Chain of Custody:

Notes: ^ Indicates the laboratory is NELAP accredited for this analyte by the indicated matrix and method. All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

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. This report has been specifically prepared to satisfy project or program requirements.

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

Reason for Revision The recollected results for samples W72 and W73 were included

QC Qualifiers

<u>Code</u>	<u>Description</u>
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	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

Company Name: TRC
 Project Contact: Bruce Iverson
 Telephone:
 Project Name: Wauleco
 Project Number: 189597.0006
 Project Location: Wausau, WI
 Sampled By: Tom Dushek



 Folder #: 133428
 Company: TRC ENVIRONMENTA
 Project: WAULECO
 Logged By: BNA PM: BM

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

Invoice To: Accounts Payable
 Company: TRC
 Address:
 City/State/Zip:
 PO No. 117482

Ice Present Yes No

Temperature 24.0
 Initials BNA

Date 1-10-18 Time 6:57
 Cooler # FA BA 5505327

Contract No.

Regulatory Program:
 UST RCRA SDWA NPL
 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 Date	Time	Field Screen	Field ID	Grab/Comp	Sample ID Description	Filt'd Y/N
-----------------	------	--------------	----------	-----------	-----------------------	------------

WDNR Well ID #	**Matrix:	(Phenols 8270) PCP only														Total No of Containers	Total No of Cont. Rec'd	Preservation*	Client Special Instructions: PCP only
----------------	-----------	-------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	------------------------	-------------------------	---------------	--

Collection							Fill in Spaces with Bottles per Test													Lab ID #			
Date	Time	Field Screen	Field ID	Grab/Comp	Sample ID Description	Filt'd Y/N																	
1/9/18	0730			G	W71	N		GW	2											2		A	972978
	0820				W72																		972979
	0855				W74																		972980
	1105				DFOMW5																		972981
	1135				DFOMW11																		972982
	1215				DFOMW12																		972983
	1215				DFOMW12 Dup																		972984

Relinquished By: <i>J. Dushek</i>	Date/Time 1/9/18 1600	Relinquished By:	Date/Time
Received by:	Date/Time	Received by: <i>[Signature]</i>	Date/Time 1-10-18 1041

****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 _____

Company Name: TRC
 Project Contact: Bruce Iverson
 Telephone: 608-826-3644
 Project Name: Wauleco
 Project Number: 189597.0006
 Project Location: Wausau, WI
 Sampled By: Tom Dushek

CTLaboratories

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

Invoice To: Accounts Payable
 Company: TRC
 Address:
 City/State/Zip:
 PO No. 117482

Place Header Sticker Here:
 Lab Use **Only**

133428

Ice Present Yes No

Temperature 24.0

Initials BA

Date 1-10-18 Time 6087 5508

Cooler # 5327

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

WDR 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.

Collection		Field Screen	Field ID	Grab/Comp	Sample ID Description	Filt'd Y/N	Fill in Spaces with Bottles per Test											Lab ID #
Date	Time						GW											
1/9/18	0940			G	W25	N							2	1		3	972985	
	1020				W39												972986	
	1330				W73			1	1	1	1	2*			972987	6	PCP only For Phenols*	
	1430				W13									1			972991	
								A	C	A	D	A	A					

Relinquished By: <u>T.J. Dushek</u>	Date/Time <u>1/9/18 1600</u>	Relinquished By:	Date/Time
Received by:	Date/Time	Received by: <u>[Signature]</u>	Date/Time <u>1-10-18 1011</u>

****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

Company Name: TRC
 Project Contact: Bruce Iverson
 Telephone:
 Project Name: Wauleco
 Project Number: 189597.0006
 Project Location: Wausau, WI
 Sampled By: Tom Dushek

CTLaboratories

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 # 133821
 Company: TRC ENVIRONMENTA
 Project: WAULECO
 Logged By: DRT PM: BM

Ice Present Yes No
 Temperature 3.6
 Initials D
 Date 1/31/18 Time 0948
 Cooler # 5394

Invoice To: Accounts Payable
 Company: TRC
 Address:
 City/State/Zip:
 PO No. 117482

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	Filt'd Y/N
Date	Time					
1/30/18	1110			G	W72	N
	↓			↓	W73	↓

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		A
	↓	✓												2		↓

Client Special Instructions:
 PCP only
 Lab ID #
 978955
 978958

Relinquished By: J. J. Dushek Date/Time: 1/30/18 1600
 Received by: _____ Date/Time: _____
 Relinquished By: R Date/Time: 1/31/18 0945
 Received by: R Date/Time: 1/31/18 1004

****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 _____

Ice Present YES NO
Temperature 3.6
IR Gun # 16
Initials RS
Date 11/30/18 Time 0945
Cooler #: 5394

Cooler Receipt Form

DATE 11/30/18
SIGNATURE [Signature]
SEAL [Seal]
QREC
Quality Environmental Containers
800-265-3950 • 304-265-3900


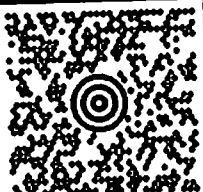
TOM DUSHEK
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

40 LBS 1 OF 1

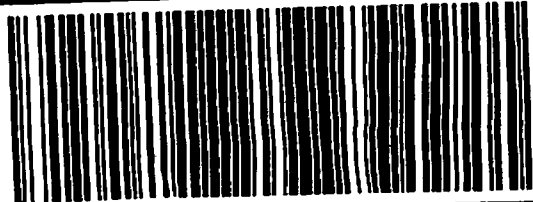
RS

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913


WI 539 0-10



UPS GROUND
TRACKING #: 1Z 1A3 77E 90 4190 4627



BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE

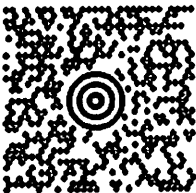

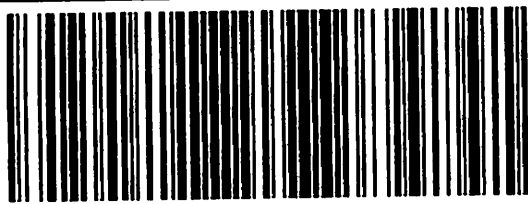
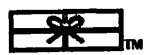
XEL 1811.35 NYMS 97.0A 01/2018 

133821

Cooler Receipt Form

Ice Present YES NO
Temperature 4.8
IR Gun # 16
Initials BA
Date 1-10-18 Time 1005
Cooler #: SS05

171604 REV. 5/17 LPS

DUSHEK ENVIRONMENTAL 25 ROSECRANS STREET WAUSAU WI 54401		50 LBS	1 OF 1
RS			
SHIP TO: SHIPPING DEPT 6083562760 CT LABS 1230 LANGE CT BARABOO WI 53913			
	WI 539 0-10 		
UPS GROUND TRACKING #: 1Z 1A3 77E 90 4068 9541			
			
BILLING: P/P DESC: Environmental Samples RETURN SERVICE			
XOL 18.01.35		NV45 93.0A 10/2017	
			

QUALITY SEAL

DATE: 1-10-18
SIGNATURE: [Signature]

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Ice Present YES NO

Cooler Receipt Form

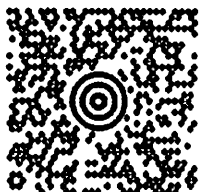
Temperature 3.6

IR Gun # 19

Initials RS

Date 11/27/18 Time 1005

Cooler #: 5327

TOM DUBNEK TRC ENVIRONMENTAL 125 ROSECRANS STREET WAUSAU WI 54401		50 LBS	1 OF 1
		RS	
SHIP TO: SHIPPING DEPT 6083562760 CT LABS 1230 LANGE CT BARABOO WI 53913			
	WI 539 0-10 		
UPS GROUND TRACKING #: 1Z 1A3 77E 90 4017 2974			
			
BILLING: P/P DESC: Environmental Samples RETURN SERVICE			
		 <small>TM</small>	

CUSTODY SEAL

DATE: 11/27/18

SIGNATURE: [Signature]

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

CUSTODY SEAL

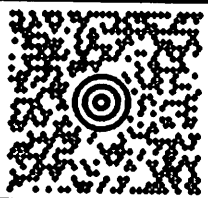

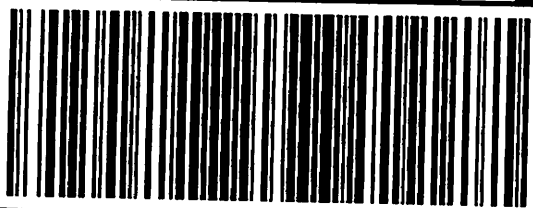

DATE: 11/27/18

SIGNATURE: [Signature]

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Cooler Receipt Form

Ice Present YES NO
Temperature 1.1
IR Gun # 19
Initials RS
Date 11/20/18 Time 1005
Cooler #: 6087

TOM DUSHEK TRC ENVIRONMENTAL 125 ROSECRANS STREET WAUSAU WI 54401		50 LBS	1 OF 1
RS			
SHIP TO: SHIPPING DEPT 6083562760 CT LABS 1230 LANGE CT BARABOO WI 53913			
	WI 539 0-10 		
UPS GROUND TRACKING #: 1Z 1A3 77E 90 4217 4530			
			
BILLING: P/P DESC: Environmental Samples RETURN SERVICE			
XDL 18.01.35		NV45 93.0A 10/2017	
 TM			

JUSTICE SEAL

DATE: _____
SIGNATURE: _____

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

ANALYTICAL REPORT

TRC ENVIRONMENTAL
 BRUCE IVERSON
 708 HEARTLAND TRAIL
 MADISON, WI 53717

Project Name: WAULECO
 Project Phase: WAUSAU, WI
 Contract #: 2399
 Project #: 189597.0006
 Folder #: 133462
 Purchase Order #: 117482

Page 1 of 8
 Arrival Temperature: 2.1
 Report Date: 01/23/2018
 Date Received: 01/11/2018
 Reprint Date: 01/23/2018

CT LAB Sample#: 973290	Sample Description: W18	Sampled: 01/10/2018 0725
------------------------	-------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	22	mg/L	1.0	3.2	1			01/11/2018 15:10	DGS	EPA 9056A
Total Organic Carbon	0.96	mg/L	0.50 *	1.7	1			01/15/2018 13:19	DGS	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/15/2018 20:24	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/15/2018 20:24	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<33	ug/L	33	110	1		01/12/2018 11:00	01/16/2018 19:00	AJZ	EPA 8015

CT LAB Sample#: 973291	Sample Description: W28	Sampled: 01/10/2018 0810
------------------------	-------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	13	mg/L	1.0	3.2	1			01/11/2018 15:27	DGS	EPA 9056A
Total Organic Carbon	1.3	mg/L	0.50 *	1.7	1			01/15/2018 13:33	DGS	EPA 9060A

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

CT LAB Sample#: 973291 Sample Description: W28

Sampled: 01/10/2018 0810

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/15/2018 20:32	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/15/2018 20:32	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<33	ug/L	33	110	1		01/12/2018 11:00	01/16/2018 19:33	AJZ	EPA 8015

CT LAB Sample#: 973292 Sample Description: W8

Sampled: 01/10/2018 0855

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	4.6	mg/L	0.040	0.13	1	M		01/11/2018 15:45	DGS	EPA 9056A
Total Sulfate	26	mg/L	1.0	3.2	1			01/11/2018 15:45	DGS	EPA 9056A
Total Organic Carbon	0.82	mg/L	0.50 *	1.7	1			01/15/2018 13:48	DGS	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/15/2018 20:39	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/15/2018 20:39	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<33	ug/L	33	110	1		01/12/2018 11:00	01/16/2018 20:06	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D

CT LAB Sample#: 973292 Sample Description: W8

Sampled: 01/10/2018 0855

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		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.50	1.7	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		01/15/2018 08:00	01/16/2018 21:00	RPN	EPA 8270D

CT LAB Sample#: 973293 Sample Description: W16

Sampled: 01/10/2018 0930

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	28	mg/L	1.0	3.2	1			01/11/2018 16:36	DGS	EPA 9056A
Total Organic Carbon	1.3	mg/L	0.50 *	1.7	1			01/15/2018 14:02	DGS	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/15/2018 20:46	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/15/2018 20:46	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<33	ug/L	33	110	1		01/12/2018 11:00	01/16/2018 20:39	AJZ	EPA 8015

CT LAB Sample#: 973294 Sample Description: W12

Sampled: 01/10/2018 1010

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	23	mg/L	1.0	3.2	1			01/11/2018 16:54	DGS	EPA 9056A
Total Organic Carbon	1.1	mg/L	0.50 *	1.7	1			01/15/2018 14:16	DGS	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/15/2018 20:54	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/15/2018 20:54	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<33	ug/L	33	110	1		01/12/2018 11:00	01/16/2018 21:11	AJZ	EPA 8015

CT LAB Sample#: 973295 Sample Description: W11

Sampled: 01/10/2018 1055

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	13	mg/L	1.0	3.2	1			01/11/2018 17:11	DGS	EPA 9056A
Total Organic Carbon	1.6	mg/L	0.50 *	1.7	1			01/15/2018 15:04	DGS	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/15/2018 21:21	NAH	EPA 6010C
Dissolved Manganese	385	ug/L	2.2	7.3	1			01/15/2018 21:21	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<34	ug/L	34	110	1		01/12/2018 11:00	01/16/2018 22:50	AJZ	EPA 8015

CT LAB Sample#: 973296 Sample Description: W19

Sampled: 01/10/2018 1305

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	4.1	mg/L	0.040	0.13	1			01/11/2018 17:28	DGS	EPA 9056A
Total Sulfate	19	mg/L	1.0	3.2	1			01/11/2018 17:28	DGS	EPA 9056A
Total Organic Carbon	2.4	mg/L	0.50	1.7	1			01/15/2018 15:18	DGS	EPA 9060A
Metals Results										
Dissolved Iron	172	ug/L	59 *	200	1			01/15/2018 21:28	NAH	EPA 6010C
Dissolved Manganese	340	ug/L	2.2	7.3	1			01/15/2018 21:28	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	190	ug/L	33	110	1		01/12/2018 11:00	01/16/2018 23:23	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	41	ug/L	0.65	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	1.2	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	1.1	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	1.3	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	1.0	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	1.5	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	1.1	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	1.2	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	1.0	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	1.1	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	1.2	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	1.5	5.5	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	1.1	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	1.2	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D
Pentachlorophenol	290	ug/L	5.0	17	10		01/15/2018 08:00	01/17/2018 11:58	RPN	EPA 8270D

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

CT LAB Sample#: 973296 Sample Description: W19 Sampled: 01/10/2018 1305

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Phenol	<3.0	ug/L	1.3	5.0	5		01/15/2018 08:00	01/16/2018 23:23	RPN	EPA 8270D

CT LAB Sample#: 973297 Sample Description: W26 Sampled: 01/10/2018 1350

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	----------	-----------	----------------	--------------------	---------	--------

Inorganic Results

Nitrate Nitrogen Total	1.4	mg/L	0.040	0.13	1			01/11/2018 17:45	DGS	EPA 9056A
Total Sulfate	20	mg/L	1.0	3.2	1			01/11/2018 17:45	DGS	EPA 9056A
Total Organic Carbon	3.2	mg/L	0.50	1.7	1			01/15/2018 15:34	DGS	EPA 9060A

Metals Results

Dissolved Iron	<59	ug/L	59	200	1			01/15/2018 21:35	NAH	EPA 6010C
Dissolved Manganese	88.3	ug/L	2.2	7.3	1			01/15/2018 21:35	NAH	EPA 6010C

Organic Results

TPH as Mineral Spirits	<33	ug/L	33	110	1		01/12/2018 11:00	01/16/2018 23:56	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	19	ug/L	0.13	1.0	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D

CT LAB Sample#: 973297 Sample Description: W26

Sampled: 01/10/2018 1350

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		01/15/2018 08:00	01/16/2018 21:20	RPN	EPA 8270D
Pentachlorophenol	270	ug/L	5.0	17	10		01/15/2018 08:00	01/17/2018 12:44	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		01/15/2018 08:00	01/16/2018 21:20	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: 608-826-3644
 Project Name: Wauleco
 Project Number: 189597.0006
 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

Folder # 133462
 Company: TRC ENVIRONMENTA
 Project: WAULECO

Ice Present Yes No

Temperature C 21
 Initials BA

Date 1-11-18 Time 10:26
 Cooler # 5438 5456

Invoice To: Accounts Payable
 Company: TRC
 Address:
 City/State/Zip:
 PO No. 117482

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	Fill'd Y/N
Date	Time					
1/10/18	0725			G	W18	N
	0810				W28	
	0855				W8	
	0930				W16	
	1010				W12	
	1055				W11	
	1305				W19	
↓	1350			↓	W26	↓

WPNR Well ID #	**Matrix:	TPH	TOC	Sulfate	Diss. Mn, Fe	Phenols (8270)	Nitrate	Total No of Containers	Total No of Cont. Rec'd	Preservation*
	GW	1	1	1	1			4		
						2	✓	6		
								4		
						2	✓	6		
							✓	↓		
		A	C	A	D					

Client Special Instructions:
 Metals are filtered.

Lab ID #
 973290
 973291
 973292
 973293
 973294
 973295
 973296
 973297

Relinquished By: *S.J. Dushek*

Date/Time: 1/10/18 1630

Relinquished By: _____

Date/Time: _____

Received by: *[Signature]*

Date/Time: 1-11-18 1026

Received by: *[Signature]*

Date/Time: 1-11-18 1050

****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 1.2
IR Gun # 16
Initials BA
Date 1-11-18 Time 1026
Cooler #: 5956

CT LABORATORIES
1230 LANGE CT

BARABOO WI 53913

P: NORTH S: MIKE I: 77D

10G - 6950

121A377E904269 2767

CYROTIZ HILAKS4JUDC JAN 11 06:25:25 2018

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

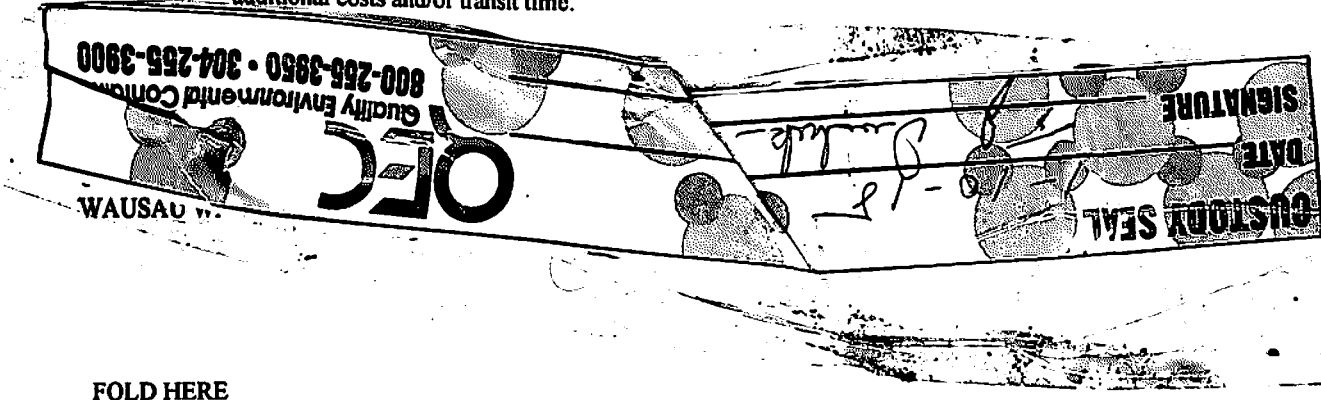
CUSTODY SEAL

DATE: 1/11/18


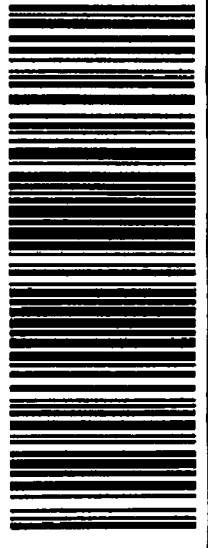

SIGNATURE: [Handwritten Signature]

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. Shipments must be dropped off at a UPS Access Point™ location.
 - Visit the [UPS Global Locator](#) to find a location near you. To view all options, select UPS Access Point™ under Location Type. Parcels not dropped off at a UPS Access Point™ location may incur additional costs and/or transit time.



FOLD HERE

<p>50 LBS</p> <p>RS</p> <p>1 OF 1</p> <p>SHIP TO: SHIPPING DEPT 6083562760 CT LABS 1230 LANGE CT BARABOO WI 53913</p> <p>TOM DUBERK TRC ENVIRONMENTAL 125 ROSEGRANS STREET WAUSAU WI 54401</p>	<p>WI 539 0-10</p> 	<p>UPS GROUND</p> <p>TRACKING #: 1Z 1A3 77E 90 4283 6959</p> 	<p></p> <p><small>JUL 18 01:35 NY45 93 0A 10/2017</small></p> <p>BILLING: P/P DESC: Environmental Samples RETURN SERVICE</p>
--	---	--	--

Ice Present Yes

Temperature 2.1

Initials BJK

Date 11-18 Time 1026

Cooler # 5938

ANALYTICAL REPORT

TRC ENVIRONMENTAL
 BRUCE IVERSON
 708 HEARTLAND TRAIL
 MADISON, WI 53717

Project Name: WAULECO
 Project Phase: WAUSAU, WI
 Contract #: 2399
 Project #: 189597.0006
 Folder #: 133489
 Purchase Order #: 117482

Page 1 of 11
 Arrival Temperature: 2.9
 Report Date: 01/23/2018
 Date Received: 01/12/2018
 Reprint Date: 01/23/2018

CT LAB Sample#: 973608 Sample Description: W6R

Sampled: 01/11/2018 0755

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	1.3	mg/L	0.040	0.13	1			01/12/2018 12:08	DGS	EPA 9056A
Total Sulfate	46	mg/L	1.0	3.2	1	M		01/12/2018 12:08	DGS	EPA 9056A
Total Organic Carbon	7.8	mg/L	0.50	1.7	1			01/15/2018 15:49	DGS	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/15/2018 21:43	NAH	EPA 6010C
Dissolved Manganese	92.0	ug/L	2.2	7.3	1			01/15/2018 21:43	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	1900	ug/L	33	110	1		01/18/2018 08:00	01/19/2018 13:23	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	170	ug/L	13	100	100		01/15/2018 08:00	01/17/2018 13:25	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	1.2	5.0	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	1.1	5.0	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	1.3	5.0	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	1.0	5.0	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	1.5	5.0	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D

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

CT LAB Sample#: 973608 Sample Description: W6R

Sampled: 01/11/2018 0755

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,6-Dichlorophenol	<3.0	ug/L	1.1	5.0	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	1.2	5.0	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	1.0	5.0	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	1.1	5.0	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	1.2	5.0	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	1.5	5.5	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	1.1	5.0	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	1.2	5.0	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D
Pentachlorophenol	2500	ug/L	50	170	100		01/15/2018 08:00	01/17/2018 13:25	RPN	EPA 8270D
Phenol	<3.0	ug/L	1.3	5.0	5		01/15/2018 08:00	01/16/2018 23:44	RPN	EPA 8270D

CT LAB Sample#: 973609 Sample Description: PW17

Sampled: 01/11/2018 0815

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	13	mg/L	1.0	3.2	1			01/12/2018 13:00	DGS	EPA 9056A
Total Organic Carbon	6.5	mg/L	0.50	1.7	1			01/15/2018 16:01	DGS	EPA 9060A
Metals Results										
Dissolved Iron	2520	ug/L	59	200	1			01/15/2018 21:50	NAH	EPA 6010C
Dissolved Manganese	2110	ug/L	2.2	7.3	1			01/15/2018 21:50	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	1400	ug/L	33	110	1		01/18/2018 08:00	01/19/2018 13:56	AJZ	EPA 8015

CT LAB Sample#: 973610 Sample Description: FP2

Sampled: 01/11/2018 0835

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	2.6	mg/L	1.0 *	3.2	1			01/12/2018 13:17	DGS	EPA 9056A
Total Organic Carbon	8.6	mg/L	0.50	1.7	1			01/15/2018 16:13	DGS	EPA 9060A
Metals Results										
Dissolved Iron	13500	ug/L	59	200	1			01/15/2018 21:57	NAH	EPA 6010C
Dissolved Manganese	6600	ug/L	2.2	7.3	1			01/15/2018 21:57	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	3000	ug/L	34	110	1		01/18/2018 08:00	01/19/2018 14:29	AJZ	EPA 8015

CT LAB Sample#: 973611 Sample Description: W29

Sampled: 01/11/2018 0940

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	6.0	mg/L	1.0	3.2	1			01/12/2018 13:35	DGS	EPA 9056A
Total Organic Carbon	3.1	mg/L	0.50	1.7	1			01/15/2018 16:25	DGS	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/15/2018 22:04	NAH	EPA 6010C
Dissolved Manganese	25.1	ug/L	2.2	7.3	1			01/15/2018 22:04	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<33	ug/L	33	110	1		01/18/2018 08:00	01/19/2018 15:03	AJZ	EPA 8015

CT LAB Sample#: 973612 Sample Description: W27

Sampled: 01/11/2018 1020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	25	mg/L	1.0	3.2	1			01/12/2018 13:52	DGS	EPA 9056A
Total Organic Carbon	21	mg/L	0.50	1.7	1			01/15/2018 16:39	DGS	EPA 9060A
Metals Results										
Dissolved Iron	6000	ug/L	59	200	1			01/15/2018 22:12	NAH	EPA 6010C
Dissolved Manganese	16400	ug/L	2.2	7.3	1			01/15/2018 22:12	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	6000	ug/L	33	110	1		01/18/2018 08:00	01/19/2018 15:36	AJZ	EPA 8015

CT LAB Sample#: 973613 Sample Description: W10A

Sampled: 01/11/2018 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	9.4	mg/L	1.0	3.2	1			01/12/2018 14:09	DGS	EPA 9056A
Total Organic Carbon	6.1	mg/L	0.50	1.7	1			01/15/2018 16:52	DGS	EPA 9060A
Metals Results										
Dissolved Iron	1520	ug/L	59	200	1			01/15/2018 22:19	NAH	EPA 6010C
Dissolved Manganese	2790	ug/L	2.2	7.3	1			01/15/2018 22:19	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	640	ug/L	33	110	1		01/18/2018 08:00	01/19/2018 16:09	AJZ	EPA 8015

CT LAB Sample#: 973614 Sample Description: W10A DUP

Sampled: 01/11/2018 1100

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	9.4	mg/L	1.0	3.2	1			01/12/2018 14:26	DGS	EPA 9056A
Total Organic Carbon	6.1	mg/L	0.50	1.7	1			01/15/2018 17:04	DGS	EPA 9060A
Metals Results										
Dissolved Iron	1530	ug/L	59	200	1			01/15/2018 22:26	NAH	EPA 6010C
Dissolved Manganese	2840	ug/L	2.2	7.3	1			01/15/2018 22:26	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	660	ug/L	33	110	1		01/18/2018 08:00	01/19/2018 17:48	AJZ	EPA 8015

CT LAB Sample#: 973615 Sample Description: W17

Sampled: 01/11/2018 1140

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			01/12/2018 14:44	DGS	EPA 9056A
Total Sulfate	3.1	mg/L	1.0 *	3.2	1			01/12/2018 14:44	DGS	EPA 9056A
Total Organic Carbon	3.6	mg/L	0.50	1.7	1			01/15/2018 17:43	DGS	EPA 9060A
Metals Results										
Dissolved Iron	332	ug/L	59	200	1			01/15/2018 22:53	NAH	EPA 6010C
Dissolved Manganese	422	ug/L	2.2	7.3	1			01/15/2018 22:53	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	420	ug/L	33	110	1		01/18/2018 08:00	01/19/2018 18:22	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	2.6	ug/L	0.13	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D

CT LAB Sample#: 973615 Sample Description: W17 Sampled: 01/11/2018 1140

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,5-Trichlorophenol	0.52	ug/L	0.23 *	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D
Pentachlorophenol	72	ug/L	5.0	17	10		01/15/2018 08:00	01/17/2018 13:04	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		01/15/2018 08:00	01/16/2018 21:41	RPN	EPA 8270D

CT LAB Sample#: 973616 Sample Description: W3A Sampled: 01/11/2018 1225

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			01/12/2018 15:35	DGS	EPA 9056A
Total Sulfate	1.7	mg/L	1.0 *	3.2	1			01/12/2018 15:35	DGS	EPA 9056A
Total Organic Carbon	6.9	mg/L	0.50	1.7	1			01/15/2018 17:55	DGS	EPA 9060A

Metals Results

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

CT LAB Sample#: 973616 Sample Description: W3A

Sampled: 01/11/2018 1225

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Iron	1290	ug/L	59	200	1			01/15/2018 23:00	NAH	EPA 6010C
Dissolved Manganese	1150	ug/L	2.2	7.3	1			01/15/2018 23:00	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	5000	ug/L	33	110	1		01/18/2018 08:00	01/19/2018 18:55	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	20	ug/L	1.3	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	2.3	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	2.1	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	2.6	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	2.0	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	2.9	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	2.1	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	2.4	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	2.0	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	2.1	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	2.3	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	3.0	11	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	2.2	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	2.4	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
Pentachlorophenol	340	ug/L	5.0	17	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D
Phenol	<3.0	ug/L	2.6	10	10		01/15/2018 08:00	01/17/2018 00:04	RPN	EPA 8270D

CT LAB Sample#: 973617 Sample Description: W33

Sampled: 01/11/2018 1335

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	----------	-----------	----------------	--------------------	---------	--------

CT LAB Sample#: 973617 Sample Description: W33

Sampled: 01/11/2018 1335

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			01/12/2018 15:53	DGS	EPA 9056A
Total Sulfate	15	mg/L	1.0	3.2	1			01/12/2018 15:53	DGS	EPA 9056A
Total Organic Carbon	9.5	mg/L	0.50	1.7	1			01/15/2018 18:53	DGS	EPA 9060A
Metals Results										
Dissolved Iron	1160	ug/L	59	200	1			01/15/2018 23:08	NAH	EPA 6010C
Dissolved Manganese	1720	ug/L	2.2	7.3	1			01/15/2018 23:08	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	14000	ug/L	170	550	5		01/18/2018 08:00	01/22/2018 12:54	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	1500	ug/L	65	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
2,4,5-Trichlorophenol	<120	ug/L	120	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
2,4,6-Trichlorophenol	<110	ug/L	110	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
2,4-Dichlorophenol	<130	ug/L	130	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
2,4-Dimethylphenol	<100	ug/L	100	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
2,4-Dinitrophenol	<150	ug/L	150	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
2,6-Dichlorophenol	<110	ug/L	110	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
2-Chlorophenol	<120	ug/L	120	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
2-Methylphenol	<100	ug/L	100	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
2-Nitrophenol	<110	ug/L	110	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
3 & 4-Methylphenol	<120	ug/L	120	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<150	ug/L	150	550	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
4-Chloro-3-methylphenol	<110	ug/L	110	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
4-Nitrophenol	<120	ug/L	120	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D
Pentachlorophenol	10000	ug/L	250	850	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D

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

CT LAB Sample#: 973617 Sample Description: W33 Sampled: 01/11/2018 1335

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Phenol	<130	ug/L	130	500	500		01/15/2018 08:00	01/17/2018 00:25	RPN	EPA 8270D

CT LAB Sample#: 973618 Sample Description: W41 Sampled: 01/11/2018 1430

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	----------	-----------	----------------	--------------------	---------	--------

Inorganic Results

Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			01/12/2018 16:10	DGS	EPA 9056A
Total Sulfate	14	mg/L	1.0	3.2	1			01/12/2018 16:10	DGS	EPA 9056A
Total Organic Carbon	31	mg/L	0.50	1.7	1			01/15/2018 19:31	DGS	EPA 9060A

Metals Results

Dissolved Iron	8200	ug/L	59	200	1	M		01/15/2018 23:15	NAH	EPA 6010C
Dissolved Manganese	12700	ug/L	2.2	7.3	1	M		01/15/2018 23:15	NAH	EPA 6010C

Organic Results

TPH as Mineral Spirits	1600	ug/L	33	110	1		01/18/2018 08:00	01/19/2018 20:01	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	100	ug/L	13	100	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
2,4,5-Trichlorophenol	<23	ug/L	23	100	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
2,4,6-Trichlorophenol	<21	ug/L	21	100	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
2,4-Dichlorophenol	<26	ug/L	26	100	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
2,4-Dimethylphenol	<20	ug/L	20	100	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
2,4-Dinitrophenol	<29	ug/L	29	100	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
2,6-Dichlorophenol	<21	ug/L	21	100	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
2-Chlorophenol	<24	ug/L	24	100	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
2-Methylphenol	<20	ug/L	20	100	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D

CT LAB Sample#: 973618 Sample Description: W41

Sampled: 01/11/2018 1430

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitrophenol	<21	ug/L	21	100	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
3 & 4-Methylphenol	<23	ug/L	23	100	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<30	ug/L	30	110	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
4-Chloro-3-methylphenol	<22	ug/L	22	100	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
4-Nitrophenol	<24	ug/L	24	100	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
Pentachlorophenol	2700	ug/L	51	170	100		01/15/2018 08:00	01/17/2018 00:45	RPN	EPA 8270D
Phenol	<26	ug/L	26	100	100		01/15/2018 08:00	01/17/2018 00:45	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: 608-826-3644
 Project Name: Wauleco
 Project Number: 189597.0006
 Project Location: Wausau, W
 Sampled By: Tom Dushek



Folder #: 133489
 Company: TRC ENVIRONMENTA
 Project: WAULECO
 Logged By: BNA PM: BM

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

Invoice To: Accounts Payable
 Company: TRC
 Address:
 City/State/Zip:
 PO No. 117482

Ice Present Yes No
 Temperature 22.9
 Initials BA
 Date 1-12-18 Time 0950
 Cooler # 5755 5865 5283

Regulatory Program:
 UST RCRA SDWA NF
 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 Date	Time	Field Screen	Field ID	Grab/Comp	Sample ID Description	Fil'd Y/N
1/11/18	0755			G	W6R	N
	0815				PW17	
	0835				FP2	
	0940				W29	
	1020				U127	
	1100				W10A	
	1100				W10A Dup	
	1140				W17	
✓	1225			↓	W3A	↓

WDNR Well ID #	**Matrix:	TPH	TOC	Sulfate	Diss. Mn, Fe	Phenols (8270)	Nitrate	Total No of Containers	Total No of Cont. Rec'd	Preservation*
	GW					2	✓	6		
						2	✓	6		
		A	C	A	D	A	A			

Client Special Instructions:
 Metals are filtered.

Lab ID #

973608
 973609
 973610
 973611
 973612
 973613
 973614
 973615
 973616

Relinquished By: S.J. Dushek Date/Time: 1/11/18 1600
 Received by: [Signature] Date/Time: 1-12-18 1017

****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 _____

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0006
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

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:

Place Header Sticker Here:
Lab Use Only

Ice Present Yes No

Temperature _____

Initials _____

Date _____ Time _____

Cooler # _____

PO No. 117482

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 Fil'd Y/N

Date	Time	Field Screen	Field ID	Grab/Comp	Sample ID Description	Fil'd Y/N
1/11/18	1335			G	W33	N
	1430			↓	W41	↓

WDNR Well ID #	**Matrix:	TPH	TOC	Sulfate	Diss. Mn, Fe	Phenols (8270)	Nitrate	Total No of Containers	Total No of Cont. Rec'd	Preservation*
	GW	1	1	1	1	2	✓	6		
	↓	1	1	1	1	2	✓	6		

Client Special Instructions:
Metals are filtered.

Lab ID #

Fill in Spaces with Bottles per Test

A C A D A A ←

Relinquished By: *T. J. Dushek*
Date/Time: 1/11/18 1600

Relinquished By: _____
Date/Time: _____

**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 _____

Received by: *Bar*
Date/Time: 1-12-18 0950

Received by: *Bar*
Date/Time: 1-12-18 1017

Cooler Receipt Form

Ice Present (YES) NO
Temperature 2.9
IR Gun # 1b
Initials BA
Date 1-12-18 Time 0958
Cooler #: S755

ANGE CT
PARABOO WI 53913
P: NORTH S: MIKE I: 77D
10G - 6950
1Z1A377E9D4140 0028
CYROT2Z N1LAK543UDC JAN 12 06:50:20 2018
US 5390 HIP 17.09.01 ZEBRAZH400

CUSTODY SEAL

DATE 1-12-18
SIGNATURE [Signature]

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Cooler Receipt Form

Ice Present YES NO
Temperature 0.9
IR Gun # 16
Initials BA
Date 1-12-18 Time 0958
Cooler #: 5283

CT LABORATORIES
1230 LANGE CT

BARABOO WI 53913

P: NORTH S: MIKE I: 77D

10G - 6950

1Z1A377E904005 7812

CYROTINZ HILAK543UDC JAN 12 06:51:04 2018
US 5390 HIP 17.09.01 ZEBRAZH600

QUALITY SEAL

DATE 1-12-18
SIGNATURE [Signature]

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Cooler Receipt Form

Ice Present YES NO

Temperature 8.4

IR Gun # 16

Initials BA

Date 1-12-18 Time 0950

Cooler #: 5865

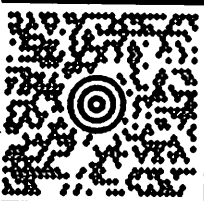
TOM DUSHEK
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

50 LBS

1 OF 1

RS

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913



WI 539 0-10



UPS GROUND

TRACKING #: 1Z 1A3 77E 90 4150 2632

CUSTODY SEAL

DATE: 1/12/18

SIGNATURE: [Signature]

QEC

Quality Environmental Containers
800-255-3950 • 304-255-3900

ANALYTICAL REPORT

TRC ENVIRONMENTAL
 BRUCE IVERSON
 708 HEARTLAND TRAIL
 MADISON, WI 53717

Project Name: WAULECO
 Project Phase: WAUSAU, WI
 Contract #: 2399
 Project #: 189597.0006
 Folder #: 133536
 Purchase Order #: 117482

Page 1 of 7
 Arrival Temperature: 2.4
 Report Date: 01/25/2018
 Date Received: 01/16/2018
 Reprint Date: 01/25/2018

CT LAB Sample#: 974462 Sample Description: W22	Sampled: 01/15/2018 1030
---	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	0.079	mg/L	0.040 *	0.13	1			01/16/2018 11:44	DGS	EPA 9056A
Total Sulfate	8.3	mg/L	1.0	3.2	1			01/16/2018 11:44	DGS	EPA 9056A
Total Organic Carbon	12	mg/L	0.50	1.7	1			01/24/2018 16:42	DGS	EPA 9060A
Metals Results										
Dissolved Iron	82.2	ug/L	59 *	200	1			01/16/2018 16:15	NAH	EPA 6010C
Dissolved Manganese	3590	ug/L	2.2	7.3	1			01/16/2018 16:15	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	4000	ug/L	33	110	1		01/18/2018 08:00	01/19/2018 20:34	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	440	ug/L	13	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D
2,4,5-Trichlorophenol	<23	ug/L	23	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D
2,4,6-Trichlorophenol	<21	ug/L	21	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D
2,4-Dichlorophenol	<26	ug/L	26	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D
2,4-Dimethylphenol	<20	ug/L	20	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D
2,4-Dinitrophenol	<29	ug/L	29	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D

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

CT LAB Sample#: 974462 Sample Description: W22

Sampled: 01/15/2018 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,6-Dichlorophenol	<21	ug/L	21	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D
2-Chlorophenol	<24	ug/L	24	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D
2-Methylphenol	<20	ug/L	20	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D
2-Nitrophenol	<21	ug/L	21	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D
3 & 4-Methylphenol	<23	ug/L	23	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<30	ug/L	30	110	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D
4-Chloro-3-methylphenol	<22	ug/L	22	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D
4-Nitrophenol	<24	ug/L	24	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D
Pentachlorophenol	4900	ug/L	100	340	200		01/22/2018 08:00	01/23/2018 11:00	RPN	EPA 8270D
Phenol	<26	ug/L	26	100	100		01/22/2018 08:00	01/23/2018 00:37	RPN	EPA 8270D

CT LAB Sample#: 974463 Sample Description: W22 DUP

Sampled: 01/15/2018 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			01/16/2018 12:37	DGS	EPA 9056A
Total Sulfate	7.4	mg/L	1.0	3.2	1			01/16/2018 12:37	DGS	EPA 9056A
Total Organic Carbon	14	mg/L	0.50	1.7	1			01/24/2018 17:20	DGS	EPA 9060A
Metals Results										
Dissolved Iron	86.7	ug/L	59 *	200	1			01/16/2018 16:22	NAH	EPA 6010C
Dissolved Manganese	3660	ug/L	2.2	7.3	1			01/16/2018 16:22	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	4100	ug/L	33	110	1		01/18/2018 08:00	01/19/2018 21:07	AJZ	EPA 8015

CT LAB Sample#: 974463 Sample Description: W22 DUP

Sampled: 01/15/2018 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,3,4,6-Tetrachlorophenol	470	ug/L	13	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
2,4,5-Trichlorophenol	<23	ug/L	23	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
2,4,6-Trichlorophenol	<21	ug/L	21	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
2,4-Dichlorophenol	<26	ug/L	26	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
2,4-Dimethylphenol	<20	ug/L	20	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
2,4-Dinitrophenol	<29	ug/L	29	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
2,6-Dichlorophenol	<21	ug/L	21	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
2-Chlorophenol	<24	ug/L	24	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
2-Methylphenol	<20	ug/L	20	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
2-Nitrophenol	<21	ug/L	21	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
3 & 4-Methylphenol	<23	ug/L	23	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<30	ug/L	30	110	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
4-Chloro-3-methylphenol	<22	ug/L	22	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
4-Nitrophenol	<24	ug/L	24	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D
Pentachlorophenol	5300	ug/L	100	340	200		01/22/2018 08:00	01/23/2018 11:20	RPN	EPA 8270D
Phenol	<26	ug/L	26	100	100		01/22/2018 08:00	01/23/2018 00:57	RPN	EPA 8270D

CT LAB Sample#: 974464 Sample Description: BLANK

Sampled: 01/15/2018 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	0.061	mg/L	0.040 *	0.13	1			01/16/2018 12:55	DGS	EPA 9056A
Total Sulfate	<1.0	mg/L	1.0	3.2	1			01/16/2018 12:55	DGS	EPA 9056A
Total Organic Carbon	0.57	mg/L	0.50 *	1.7	1			01/24/2018 17:32	DGS	EPA 9060A

CT LAB Sample#: 974464 Sample Description: BLANK

Sampled: 01/15/2018 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			01/16/2018 16:30	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			01/16/2018 16:30	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	<34	ug/L	34	110	1		01/18/2018 08:00	01/19/2018 21:41	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.50	1.7	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		01/22/2018 08:00	01/22/2018 23:16	RPN	EPA 8270D

CT LAB Sample#: 974465 Sample Description: W40

Sampled: 01/15/2018 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1			01/16/2018 13:13	DGS	EPA 9056A
Total Sulfate	8.1	mg/L	1.0	3.2	1			01/16/2018 13:13	DGS	EPA 9056A
Total Organic Carbon	72	mg/L	0.50	1.7	1			01/24/2018 17:43	DGS	EPA 9060A
Metals Results										
Dissolved Iron	2460	ug/L	59	200	1			01/16/2018 16:36	NAH	EPA 6010C
Dissolved Manganese	3210	ug/L	2.2	7.3	1			01/16/2018 16:36	NAH	EPA 6010C
Organic Results										
TPH as Mineral Spirits	360000	ug/L	3300	11000	10		01/18/2018 08:00	01/22/2018 13:28	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	950	ug/L	6.5	50	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
2,4,5-Trichlorophenol	<12	ug/L	12	50	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
2,4,6-Trichlorophenol	<11	ug/L	11	50	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	50	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
2,4-Dimethylphenol	<10	ug/L	10	50	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
2,4-Dinitrophenol	<15	ug/L	15	50	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
2,6-Dichlorophenol	<11	ug/L	11	50	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
2-Chlorophenol	<12	ug/L	12	50	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
2-Methylphenol	<10	ug/L	10	50	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
2-Nitrophenol	<11	ug/L	11	50	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
3 & 4-Methylphenol	<12	ug/L	12	50	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<15	ug/L	15	55	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
4-Chloro-3-methylphenol	<11	ug/L	11	50	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
4-Nitrophenol	<12	ug/L	12	50	10		01/22/2018 08:00	01/23/2018 01:17	RPN	EPA 8270D
Pentachlorophenol	10000	ug/L	250	850	100		01/22/2018 08:00	01/23/2018 11:40	RPN	EPA 8270D

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

CT LAB Sample#: 974465 Sample Description: W40

Sampled: 01/15/2018 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Phenol	<13	ug/L	13	50	10		01/22/2018 08:00	01/23/2018 01:17	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: 608-826-3644
 Project Name: Wauleco
 Project Number: 189597.0006
 Project Location: Wausau, WI
 Sampled By: Tom Dushek



 Folder #: 133536
 Company: TRC ENVIRONMENTA
 Project: WAULECO
 Logged By: BNA PM: BM

 230 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

Invoice To: Accounts Payable
 Company: TRC
 Address:
 City/State/Zip:
 PO No. 117482

Ice Present Yes No
 Temperature 2.4
 Initials BA
 Date 1-16-18 Time 0935
 Cooler # 54585471

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					
1/15/18	1030			G	W22	N
	1030				W22 Dup	
	1105				Blank	
	1200				W40	

WDNR Well ID #	**Matrix:	TPH	TOC	Sulfate	Diss. Mn, Fe	Phenols (8270)	Nitrate	Total No of Containers	Total No of Cont. Rec'd	Preservation*
Fill in Spaces with Bottles per Test										
	GW	1	1	1	1	2	✓	6		
		✓	✓	✓	✓	✓	✓	✓		
		A	C	A	D	A	A			

Client Special Instructions:
 Metals are filtered.
 Lab ID #

974462
 974463
 974464
 974465

Relinquished By: *S.J. Dushek* Date/Time: 1/15/18 1600
 Relinquished By: *[Signature]* Date/Time: 1-16-18 0925
 Received by: *[Signature]* Date/Time: 1-16-18 0944

**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 _____

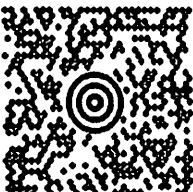

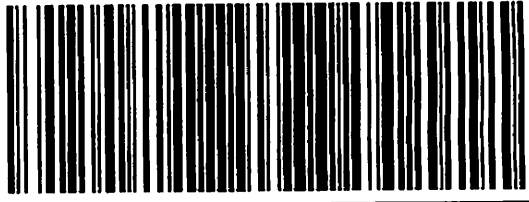

Ice Present YES NO
Temperature 1.2
IR Gun # 20
Initials TD
Date 1/16/18 Time 09:35
Cooler #: 5458

Cooler Receipt Form

QREC
Quality Environmental Containers
800-255-3950 • 304-255-3900

CUSTOMER SEAL
DATE
SIGNATURE

T. Dushek

TOM DUSHEK TRC ENVIRONMENTAL 125 ROSECRANS STREET WAUSAU WI 54401		50 LBS	1 OF 1
SHIP TO: SHIPPING DEPT 6083562760 CT LABS 1230 LANGE CT BARABOO WI 53913		RS	
	WI 539 0-10 		
UPS GROUND TRACKING #: 1Z 1A3 77E 90 4281 3054			
			
BILLING: P/P DESC: Environmental Samples RETURN SERVICE			
XDL 18.01 35		NV45 93.0A 10/2017	
			

Cooler Receipt Form

Ice Present YES NO
Temperature 2.4
IR Gun # 16
Initials RA
Date 1-16-14 Time 0935
Cooler #: 5471

CT LABORATORIES
1230 LANGE CT

BARABOO WI 53913

P: NORTH S: MIKE I: 77D

10G - 6950

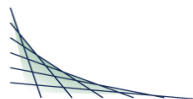
121A377E9D4013 2805

CYR0THZ WILAK432 JAN 16 06:33:53 2014

RESIDUAL SEAL
15-18
[Signature]
QREC
Quality Environmental Containers
800-255-3950 • 304-255-3900

D2

July 2018



**REVISED
 ANALYTICAL REPORT**

TRC ENVIRONMENTAL
 BRUCE IVERSON
 708 HEARTLAND TRAIL
 MADISON, WI 53717

Project Name: WAULECO
 Project Phase:
 Contract #: 2399
 Project #: 189597.0006
 Folder #: 137614
 Purchase Order #: 117482

Page 1 of 11
 Arrival Temperature: 3.8
 Report Date: 07/25/2018
 Date Received: 07/11/2018
 Reprint Date: 12/05/2018
 Revision Date 12/05/2018

CT LAB Sample#: 147194	Sample Description: W8	Sampled: 07/10/2018 0730
------------------------	------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	4.2	mg/L	0.12	0.40	1			07/11/2018 17:04	TMG	EPA 9056A
Total Sulfate	16	mg/L	0.80	2.5	1			07/11/2018 17:04	TMG	EPA 9056A
Total Organic Carbon	0.43	mg/L	0.40 *	1.3	1			07/18/2018 23:14	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/12/2018 15:22	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/12/2018 15:22	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/12/2018 11:00	07/13/2018 13:18	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/12/2018 18:47	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/12/2018 18:47	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/12/2018 18:47	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/12/2018 18:47	DGS	EPA 8021M
TPH as Mineral Spirits	<31	ug/L	31	100	1		07/12/2018 11:30	07/16/2018 11:33	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D

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

CT LAB Sample#: 147194 Sample Description: W8

Sampled: 07/10/2018 0730

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,5-Trichlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.22	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.27	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.22	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.25	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.22	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.25	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.52	1.8	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.27	1.0	1		07/12/2018 13:00	07/16/2018 11:40	RPN	EPA 8270D

CT LAB Sample#: 147197 Sample Description: W73

Sampled: 07/10/2018 0820

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	22	mg/L	0.80	2.5	1			07/11/2018 18:25	TMG	EPA 9056A
Total Organic Carbon	1.5	mg/L	0.40	1.3	1			07/18/2018 23:25	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/12/2018 15:30	NAH	EPA 6010C

CT LAB Sample#: 147197 Sample Description: W73

Sampled: 07/10/2018 0820

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Manganese	22.4	ug/L	2.2	7.3	1			07/12/2018 15:30	NAH	EPA 6010C
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/12/2018 19:21	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/12/2018 19:21	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/12/2018 19:21	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/12/2018 19:21	DGS	EPA 8021M
TPH as Mineral Spirits	<31	ug/L	31	100	1		07/12/2018 11:30	07/16/2018 12:06	AJZ	EPA 8015
Pentachlorophenol	<3.0	ug/L	0.49	1.7	1		07/12/2018 13:00	07/16/2018 11:59	RPN	EPA 8270D

CT LAB Sample#: 147199 Sample Description: W72

Sampled: 07/10/2018 0920

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/12/2018 19:56	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/12/2018 19:56	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/12/2018 19:56	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/12/2018 19:56	DGS	EPA 8021M
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/12/2018 11:30	07/16/2018 12:40	AJZ	EPA 8015
Pentachlorophenol	<3.0	ug/L	0.48	1.6	1		07/12/2018 13:00	07/16/2018 12:18	RPN	EPA 8270D

CT LAB Sample#: 147200 Sample Description: W71

Sampled: 07/10/2018 1005

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/12/2018 20:31	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/12/2018 20:31	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/12/2018 20:31	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/12/2018 20:31	DGS	EPA 8021M
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/12/2018 11:30	07/16/2018 13:13	AJZ	EPA 8015
Pentachlorophenol	<3.0	ug/L	0.56	1.9	1		07/12/2018 13:00	07/16/2018 12:36	RPN	EPA 8270D

CT LAB Sample#: 147201 Sample Description: W74

Sampled: 07/10/2018 1050

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/12/2018 21:05	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/12/2018 21:05	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/12/2018 21:05	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/12/2018 21:05	DGS	EPA 8021M
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/12/2018 11:30	07/16/2018 13:47	AJZ	EPA 8015
Pentachlorophenol	<3.0	ug/L	0.51	1.7	1		07/12/2018 13:00	07/16/2018 12:55	RPN	EPA 8270D

CT LAB Sample#: 147202 Sample Description: W16

Sampled: 07/10/2018 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	----------	-----------	----------------	--------------------	---------	--------

CT LAB Sample#: 147202 Sample Description: W16

Sampled: 07/10/2018 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	4.7	mg/L	0.12	0.40	1			07/11/2018 19:05	TMG	EPA 9056A
Total Sulfate	21	mg/L	0.80	2.5	1			07/11/2018 19:05	TMG	EPA 9056A
Total Organic Carbon	0.71	mg/L	0.40 *	1.3	1			07/18/2018 23:36	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/12/2018 15:37	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/12/2018 15:37	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/12/2018 11:00	07/13/2018 13:20	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/12/2018 21:40	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/12/2018 21:40	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/12/2018 21:40	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/12/2018 21:40	DGS	EPA 8021M
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/12/2018 11:30	07/16/2018 14:21	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.27	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D

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

CT LAB Sample#: 147202 Sample Description: W16 Sampled: 07/10/2018 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.51	1.7	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.27	1.0	1		07/12/2018 13:00	07/16/2018 13:14	RPN	EPA 8270D

CT LAB Sample#: 147203 Sample Description: W32 Sampled: 07/10/2018 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/11/2018 19:45	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/12/2018 11:00	07/13/2018 13:22	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/12/2018 22:14	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/12/2018 22:14	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/12/2018 22:14	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/12/2018 22:14	DGS	EPA 8021M
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/12/2018 11:30	07/16/2018 14:54	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.22	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D

CT LAB Sample#: 147203 Sample Description: W32

Sampled: 07/10/2018 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dichlorophenol	<3.0	ug/L	0.27	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.22	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.25	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.22	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.25	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.52	1.8	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.27	1.0	1		07/12/2018 13:00	07/16/2018 13:33	RPN	EPA 8270D

CT LAB Sample#: 147210 Sample Description: W21

Sampled: 07/10/2018 1350

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	1.4	mg/L	0.12	0.40	1			07/11/2018 20:25	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	0.34	ug/L	0.020	0.066	1		07/12/2018 11:00	07/13/2018 13:35	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/12/2018 22:49	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/12/2018 22:49	DGS	EPA 8021M

CT LAB Sample#: 147210 Sample Description: W21	Sampled: 07/10/2018 1350
---	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/12/2018 22:49	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/12/2018 22:49	DGS	EPA 8021M
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/12/2018 11:30	07/16/2018 16:34	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.51	1.7	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/12/2018 13:00	07/16/2018 13:52	RPN	EPA 8270D

CT LAB Sample#: 147211 Sample Description: W12	Sampled: 07/10/2018 1440
---	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	----------	-----------	----------------	--------------------	---------	--------

Inorganic Results

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

CT LAB Sample#: 147211 Sample Description: W12

Sampled: 07/10/2018 1440

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nitrate Nitrogen Total	5.9	mg/L	0.12	0.40	1			07/11/2018 21:05	TMG	EPA 9056A
Total Sulfate	23	mg/L	0.80	2.5	1			07/11/2018 21:05	TMG	EPA 9056A
Total Organic Carbon	0.48	mg/L	0.40 *	1.3	1			07/18/2018 23:49	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/12/2018 15:45	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/12/2018 15:45	NAH	EPA 6010C
Dissolved Mercury	0.13	ug/L	0.020	0.066	1		07/12/2018 11:00	07/13/2018 13:46	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/12/2018 23:23	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/12/2018 23:23	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/12/2018 23:23	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/12/2018 23:23	DGS	EPA 8021M
TPH as Mineral Spirits	<33	ug/L	33	110	1		07/12/2018 11:30	07/16/2018 17:07	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.15	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.26	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.24	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.30	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.23	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.33	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.24	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.27	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.23	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.24	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.26	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D

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

CT LAB Sample#: 147211 Sample Description: W12

Sampled: 07/10/2018 1440

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.34	1.3	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.25	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.27	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.57	1.9	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.30	1.1	1		07/12/2018 13:00	07/16/2018 14:11	RPN	EPA 8270D

CT LAB Sample#: 147212 Sample Description: TRIP BLANK 01

Sampled: 07/10/2018 0750

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/12/2018 15:53	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/12/2018 15:53	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/12/2018 15:53	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/12/2018 15:53	DGS	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.

Reason for Revision Client requested only Pentachlorophenol be reported for Sample #'s 147197, 147199, 147200, & 147201.

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: 189597.0006
 Project Location: Wausau, WI
 Sampled By: Tom Dushek



Folder #: 137614
 Company: TRC ENVIRONMENTA
 Project: WAULECO
 Logged By: DRT PM: BM

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

Invoice To: Accounts Payable
 Company: TRC
 Address:
 City/State/Zip:

Regulatory Program:
 UST RCRA SDWA NPDES
 Solid Waste Other _____

Ice Present Yes No
 Temperature 38.7
 Initials Pa
 Date 7/11/18 Time 1030
 Cooler #

PO No. 117482
 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*

Client Special Instructions: *
 VOC's - Report only
 Naphthalene, xylenes, 1,2,4-trimethylbenzene.
 Metals are filtered.

Collection		Field Screen	Field ID	Grab/Comp	Sample ID Description	Filt'd Y/N
7/10/18	0730			G	W8	N
	0820				W73	
	0920				W72	
	1005				W71	
	1050				W74	
	1130				W16	
	1300				W32	
	1350				W21	
	1440				W12	

Fill in Spaces with Bottles per Test

Lab ID #

Date	Time	Field Screen	Field ID	Grab/Comp	Sample ID Description	Filt'd Y/N	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*	Lab ID #
7/10/18	0730			G	W8	N		GW	2	1	3	1	1	✓	1	✓	9			147194
	0820				W73				2	1	3			✓	1	✓	9			147197
	0920				W72				2	1	3						6			147199
	1005				W71				2	1	3						6			147200
	1050				W74				2	1	3						6			147201
	1130				W16				2	1	3	1	1	✓	1	✓	9			147202
	1300				W32				2	1	3	1	1				8			147203
	1350				W21				2	1	3	1	1				8			147210
	1440				W12				2	1	3	1	1	✓	1	✓	9			147211
									A	A	B	D	A	A	C	D				

Relinquished By: S.J. Dushek Date/Time: 7/10/18 1615
 Relinquished By: Pa Date/Time: 1030 7/11/18
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: Pa 7/11/18 1111

****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 _____

Company Name: TRC
Project Contact: Bruce Iverson
Telephone: 608-826-3644
Project Name: Wauleco
Project Number: 189597.0006
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

Invoice To: Accounts Payable
Company: TRC
Address:
City/State/Zip:
PO No. 117482

Place Header Sticker Here:
Lab Use Only

Ice Present Yes No

Temperature 3.8

Initials TD

Date 7/11/18 Time 1030

Cooler # _____

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 _____

Client Special Instructions:
VOC's - Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene. Metals are filtered.

Collection		Field Screen	Field ID	Grab/Comp	Sample ID Description	Fil'd Y/N	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*	Lab ID #
Date	Time						Fill in Spaces with Bottles per Test													
7/10/18	0750			G	Trip Blank	N		GW			1						1			147212
									A	A	B	D	A	A	C	D				

Relinquished By: T.D. Dushek

Date/Time: 7/10/18 1615

Relinquished By: TD

Date/Time: 7/11/18 1030

Received by:

Date/Time:

Received by: TD

Date/Time: 7/11/18 1111

****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 _____

Ice Present YES NO
Temperature 3.8
IR Gun # 19
Initials ra
Date 7/1/18 Time 1030
Cooler #: 5355

Cooler Receipt Form

CT LABORATORIES
1230 LANGE CT

BARABOO WI 53913

P: NCRTH S: 10SET I: 77D

10Y - 6000

1Z1A377E904132 9259

KUT9XUG WILAK745JDC JUL 11 06:13:36 2018
US 5390 HIP 18.03.01 ZEBRAZH400

DATE 7-1-18
SIGNATURE [Signature]
CUSTODY SEAL

QEC
Quality Environmental Containers
800-255-3950 • www.qecusa.com


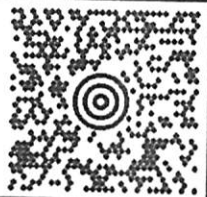
TOM DUSHEK
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

50 LBS 1 OF 1


RS

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913

WI 539 0-10




UPS GROUND
TRACKING #: 1Z 1A3 77E 90 4132 9259



BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE

XDL 18.07.25 NV45 99.0A 04/2018



137614

Ice Present YES NO
Temperature 3.2
IR Gun # 19
Initials RS
Date 7/10/18 Time 1030
Cooler #: 5586

Cooler Receipt Form

CT LABORATORIES
1230 LANGE CT

BARABOO WI 53913

P: NORTH S: 10SET I: 77D
10Y - 6000

1Z1A377E904024 9276
KUT9XUG HILAK745JDC JUL 11 06:13:12 2018
US 5390 HIP 18.03.01 ZEBRAZH400

CUSTODY SEAL
DATE 7-10-18
SIGNATURE [Signature]

QEC
Quality Environmental Containers
800-255-3950 • www.qecusa.com

TOM DUSHEK
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

50 LBS

1 OF 1

RS

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913



WI 539 0-10



UPS GROUND

TRACKING #: 1Z 1A3 77E 90 4024 9276



BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE



137614

Ice Present YES NO
Temperature 1.4
IR Gun # 19
Initials RS
Date 7/11/18 Time 1030
Cooler #: 60026

Cooler Receipt Form

CUSTODY SEAL

DATE 7-10-18
SIGNATURE T. Dushek

QEC
Quality Environmental Containers
800-255-3950 • www.qecusa.com

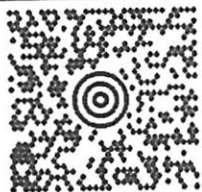
TOM DUSHEK
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

50 LBS

1 OF 1

RS

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913



WI 539 0-10



UPS GROUND

TRACKING #: 1Z 1A3 77E 90 4240 9849



BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE



137614

Ice Present YES NO

Temperature 1.1

IR Gun # 19

Initials D

Date 7/11/18 Time 1030

Cooler #: 6039

Cooler Receipt Form

CT LABORATORIES
1230 LANGE CT

BARABOO WI 53913

P: NORTH S: 10SET I: 77D

10Y - 6000

1Z1A377E904013 7066

KUT9XUG HILAK745JDC JUL 11 06:13:20 2018
HIS 5990 MID 18 03 01 2F5B02H400

CUSTODY SEAL

DATE 7-10-18

SIGNATURE T. Dushek

QEC
Quality Environmental Containers
800-255-3950 • www.qecusa.com

TOM DUSHEK
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

50 LBS

1 OF 1

RS

SHIP TO:

SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913



WI 539 0-10



UPS GROUND

TRACKING #: 1Z 1A3 77E 90 4013 7066



BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE



137614

ANALYTICAL REPORT

TRC ENVIRONMENTAL
 BRUCE IVERSON
 708 HEARTLAND TRAIL
 MADISON, WI 53717

Project Name: WAULECO
 Project Phase:
 Contract #: 2399
 Project #: 189597.0006
 Folder #: 137655
 Purchase Order #: 117482

Page 1 of 13
 Arrival Temperature: 4.3
 Report Date: 07/25/2018
 Date Received: 07/12/2018
 Reprint Date: 07/25/2018

CT LAB Sample#: 147699	Sample Description: W10B	Sampled: 07/11/2018 0750
------------------------	--------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	0.56	mg/L	0.12	0.40	1			07/12/2018 15:33	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2018 11:15	07/17/2018 09:52	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/17/2018 12:47	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/17/2018 12:47	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/17/2018 12:47	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/17/2018 12:47	DGS	EPA 8021M
TPH as Mineral Spirits	<32	ug/L	32	110	1		07/12/2018 11:30	07/16/2018 17:41	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	2.2	ug/L	0.13	1.0	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D

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

CT LAB Sample#: 147699 Sample Description: W10B Sampled: 07/11/2018 0750

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		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
Pentachlorophenol	40	ug/L	0.51	1.7	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/12/2018 13:00	07/16/2018 15:46	RPN	EPA 8270D

CT LAB Sample#: 147700 Sample Description: W18 Sampled: 07/11/2018 0835

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	0.84	mg/L	0.12	0.40	1			07/12/2018 16:13	TMG	EPA 9056A
Total Sulfate	20	mg/L	0.80	2.5	1			07/12/2018 16:13	TMG	EPA 9056A
Total Organic Carbon	<0.40	mg/L	0.40	1.3	1			07/19/2018 00:03	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/16/2018 20:00	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/16/2018 20:00	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2018 11:15	07/17/2018 09:55	LJF	EPA 7470A

Organic Results

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

CT LAB Sample#: 147700 Sample Description: W18

Sampled: 07/11/2018 0835

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			07/17/2018 13:21	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/17/2018 13:21	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/17/2018 13:21	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/17/2018 13:21	DGS	EPA 8021M
TPH as Mineral Spirits	<34	ug/L	34	110	1		07/12/2018 11:30	07/16/2018 18:15	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.50	1.7	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/12/2018 13:00	07/16/2018 16:18	RPN	EPA 8270D

CT LAB Sample#: 147701 Sample Description: W28

Sampled: 07/11/2018 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	1.2	mg/L	0.12	0.40	1			07/12/2018 16:53	TMG	EPA 9056A
Total Sulfate	11	mg/L	0.80	2.5	1			07/12/2018 16:53	TMG	EPA 9056A
Total Organic Carbon	<0.40	mg/L	0.40	1.3	1			07/19/2018 00:14	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/16/2018 20:22	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/16/2018 20:22	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2018 11:15	07/17/2018 10:01	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/17/2018 13:56	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/17/2018 13:56	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/17/2018 13:56	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/17/2018 13:56	DGS	EPA 8021M
TPH as Mineral Spirits	<32	ug/L	32	110	1		07/12/2018 11:30	07/16/2018 18:48	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.12	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.22	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.20	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.25	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.19	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.28	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.20	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.23	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.19	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D

CT LAB Sample#: 147701 Sample Description: W28

Sampled: 07/11/2018 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitrophenol	<3.0	ug/L	0.20	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.22	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.29	1.0	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.21	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.23	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
Pentachlorophenol	2.5	ug/L	0.48	1.6	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.25	0.95	1		07/12/2018 13:00	07/16/2018 16:37	RPN	EPA 8270D

CT LAB Sample#: 147702 Sample Description: W3B

Sampled: 07/11/2018 1050

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	3.4	mg/L	0.12	0.40	1			07/12/2018 17:33	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	0.062	ug/L	0.020 *	0.066	1	M	07/16/2018 11:15	07/17/2018 10:03	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/17/2018 14:31	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/17/2018 14:31	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/17/2018 14:31	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/17/2018 14:31	DGS	EPA 8021M
TPH as Mineral Spirits	<31	ug/L	31	100	1		07/12/2018 11:30	07/16/2018 19:21	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.22	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D

CT LAB Sample#: 147702 Sample Description: W3B

Sampled: 07/11/2018 1050

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,6-Trichlorophenol	<3.0	ug/L	0.20	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.25	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.19	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.28	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.20	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.23	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.19	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.20	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.22	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.29	1.1	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.21	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.23	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
Pentachlorophenol	7.0	ug/L	0.49	1.7	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.25	0.97	1		07/12/2018 13:00	07/16/2018 16:56	RPN	EPA 8270D

CT LAB Sample#: 147703 Sample Description: W11

Sampled: 07/11/2018 1140

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	1.6	mg/L	0.12	0.40	1			07/12/2018 17:53	TMG	EPA 9056A
Total Sulfate	15	mg/L	0.80	2.5	1			07/12/2018 17:53	TMG	EPA 9056A
Total Organic Carbon	1.1	mg/L	0.40 *	1.3	1			07/19/2018 01:03	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/16/2018 20:30	NAH	EPA 6010C

CT LAB Sample#: 147703 Sample Description: W11

Sampled: 07/11/2018 1140

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Manganese	151	ug/L	2.2	7.3	1			07/16/2018 20:30	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2018 11:15	07/17/2018 10:15	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/17/2018 15:05	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/17/2018 15:05	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/17/2018 15:05	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/17/2018 15:05	DGS	EPA 8021M
TPH as Mineral Spirits	<31	ug/L	31	100	1		07/12/2018 11:30	07/16/2018 19:55	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	4.7	ug/L	1.3 *	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	2.3	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	2.1	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	2.6	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	2.0	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	2.9	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	2.1	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	2.4	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	2.0	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	2.1	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	2.3	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	3.0	11	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	2.2	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	2.4	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
Pentachlorophenol	120	ug/L	5.0	17	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D
Phenol	<3.0	ug/L	2.6	10	10		07/12/2018 13:00	07/16/2018 17:15	RPN	EPA 8270D

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

CT LAB Sample#: 147704 Sample Description: W19

Sampled: 07/11/2018 1220

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	2.9	mg/L	0.12	0.40	1			07/12/2018 18:13	TMG	EPA 9056A
Total Sulfate	19	mg/L	0.80	2.5	1			07/12/2018 18:13	TMG	EPA 9056A
Total Organic Carbon	3.2	mg/L	0.40	1.3	1			07/19/2018 02:00	TMG	EPA 9060A
Metals Results										
Dissolved Iron	1210	ug/L	59	200	1			07/16/2018 20:37	NAH	EPA 6010C
Dissolved Manganese	469	ug/L	2.2	7.3	1			07/16/2018 20:37	NAH	EPA 6010C
Dissolved Mercury	0.027	ug/L	0.020 *	0.066	1		07/16/2018 11:15	07/17/2018 10:17	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	31	ug/L	0.40	1.3	1			07/17/2018 15:40	DGS	EPA 8021M
m & p-Xylene	0.87	ug/L	0.80 *	2.8	1			07/17/2018 15:40	DGS	EPA 8021M
Naphthalene	2.0	ug/L	0.90 *	2.9	1			07/17/2018 15:40	DGS	EPA 8021M
o-Xylene	8.3	ug/L	0.40	1.4	1			07/17/2018 15:40	DGS	EPA 8021M
TPH as Mineral Spirits	170	ug/L	32	110	1		07/12/2018 11:30	07/16/2018 20:28	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	25	ug/L	0.62	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	1.1	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	1.0	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	1.2	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.95	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	1.4	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	1.0	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	1.1	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.95	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D

CT LAB Sample#: 147704 Sample Description: W19

Sampled: 07/11/2018 1220

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitrophenol	<3.0	ug/L	1.0	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	1.1	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	1.4	5.2	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	1.0	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	1.1	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
Pentachlorophenol	180	ug/L	2.4	8.1	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D
Phenol	<3.0	ug/L	1.2	4.8	5		07/12/2018 13:00	07/16/2018 17:34	RPN	EPA 8270D

CT LAB Sample#: 147705 Sample Description: W25

Sampled: 07/11/2018 1340

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	5.8	mg/L	0.12	0.40	1			07/12/2018 20:13	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2018 11:15	07/17/2018 10:19	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/17/2018 16:14	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/17/2018 16:14	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/17/2018 16:14	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/17/2018 16:14	DGS	EPA 8021M
TPH as Mineral Spirits	<33	ug/L	33	110	1		07/12/2018 11:30	07/16/2018 21:02	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	0.41	ug/L	0.14 *	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D

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

CT LAB Sample#: 147705 Sample Description: W25

Sampled: 07/11/2018 1340

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,6-Trichlorophenol	<3.0	ug/L	0.22	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.27	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.30	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.22	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.25	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.21	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.22	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.24	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.31	1.1	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.23	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.25	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
Pentachlorophenol	8.0	ug/L	0.52	1.8	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.27	1.0	1		07/12/2018 13:00	07/16/2018 17:53	RPN	EPA 8270D

CT LAB Sample#: 147706 Sample Description: W17

Sampled: 07/11/2018 1425

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	0.31	mg/L	0.12 *	0.40	1			07/12/2018 20:33	TMG	EPA 9056A
Total Sulfate	32	mg/L	0.80	2.5	1			07/12/2018 20:33	TMG	EPA 9056A
Total Organic Carbon	1.4	mg/L	0.40	1.3	1			07/19/2018 02:11	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/16/2018 20:45	NAH	EPA 6010C

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

CT LAB Sample#: 147706 Sample Description: W17

Sampled: 07/11/2018 1425

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Manganese	6.5	ug/L	2.2 *	7.3	1			07/16/2018 20:45	NAH	EPA 6010C
Dissolved Mercury	0.032	ug/L	0.020 *	0.066	1		07/16/2018 11:15	07/17/2018 10:21	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	36	ug/L	0.40	1.3	1			07/17/2018 16:49	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/17/2018 16:49	DGS	EPA 8021M
Naphthalene	4.0	ug/L	0.90	2.9	1			07/17/2018 16:49	DGS	EPA 8021M
o-Xylene	6.6	ug/L	0.40	1.4	1			07/17/2018 16:49	DGS	EPA 8021M
TPH as Mineral Spirits	2400	ug/L	34	110	1		07/12/2018 11:30	07/16/2018 21:35	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	4.6	ug/L	1.3 *	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	2.4	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	2.2	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	2.7	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	2.1	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	3.0	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	2.2	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	2.5	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	2.1	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	2.2	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	2.4	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.1	ug/L	3.1	11	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	2.3	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	2.5	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
Pentachlorophenol	99	ug/L	5.2	18	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D
Phenol	<3.0	ug/L	2.7	10	10		07/12/2018 13:00	07/16/2018 18:12	RPN	EPA 8270D

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

CT LAB Sample#: 147707 Sample Description: TRIP BLANK 02

Sampled: 07/11/2018 0700

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1		07/17/2018 17:58	07/17/2018 17:58	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1		07/17/2018 17:58	07/17/2018 17:58	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1		07/17/2018 17:58	07/17/2018 17:58	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1		07/17/2018 17:58	07/17/2018 17:58	DGS	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

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	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

Company Name: TRC
 Project Contact: Bruce Iverson
 Telephone: 608-826-3644
 Project Name: Wauleco
 Project Number: 189597.0006
 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

 Folder #: 137655
 Company: TRC ENVIRONMENTA
 Project: WAULECO
 Logged By: BNA PM: BM

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Tel. Fx 608-356-2766
 www.ctlaboratories.com

Ice Present No

Temperature 24.3
 Initials BNA
 Date 7-12-18 Time 1000

Cooler # 5293 5966 6042

Invoice To: Accounts Payable

Company: TRC
 Address:
 City/State/Zip:

PO No. 117482

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 _____

Client Special Instructions:
 VOC's - Report only
 Naphthalene, xylenes,
 1,2,4-trimethylbenzene.
 Metals are filtered.

Collection Date	Time	Field Screen	Field ID	Grab/Comp	Sample ID Description	Fill'd Y/N	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*	Lab ID #
																				Fill in Spaces with Bottles per Test
7/11/18	0750			G	W10B	N		GW	2	1	3	1	1				8			147699
	0835				W18				2	1	3	1	1	✓	1	✓	9			147700
	0915				W28				2	1	3	1	1	✓	1	✓	9			147701
	1050				W3B				2	1	3	1	1				8			147702
	1140				W11				2	1	3	1	1	✓	1	✓	9			147703
	1220				W19				2	1	3	1	1	✓	1	✓	9			147704
	1340				W25				2	1	3	1	1				8			147705
	1425				W17				2	1	3	1	1	✓	1	✓	9			147706
	0700				Trip Blank 02						1						1			147707
									A	A	B	D	A	A	C	D				

Relinquished By: J.G. Dushek

Date/Time: 7/11/18
1600

Relinquished By: _____

Date/Time: _____

Received by: _____

Date/Time: _____

Received by: [Signature]

Date/Time: 7-12-18 1047

****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 4.3
IR Gun # 24
Initials BA
Date 7-12-18 Time 1000
Cooler #: 5293

CT LABORATORIES
1230 LANGE CT
BARABOO WI 53913
P: NORTH S: 10SET I: 77D
10Y - 6000
1Z1A377E904028 8402
KUT9XUG HILAK745JDC JUL 12 07:27:37 2018
HIS 5900 H10 1R 03 01 2ER007H000

CUSTODY SEAL

DATE 7/11/18
SIGNATURE [Signature]

QEC
Quality Environmental Containers
800-255-3950 • www.qecusa.com

Cooler Receipt Form

Ice Present YES NO
Temperature 2.7
IR Gun # 24
Initials BA
Date 7-12-18 Time 1000
Cooler #: 5966

NORTH S: 10SET I: 77D
10Y - 6000
1Z1A377E904174 2212
KUT9XUG WILAK745JDC JUL 12 07:27:34 2018
IR 5900 MID 18 03 01 2520074000

GUSTODY SEAL
DATE 7-11-18
SIGNATURE S. J. [unclear]
QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Cooler Receipt Form

Ice Present YES NO
Temperature 3.1
IR Gun # _____
Initials BMA
Date 7-12-18 Time 1000
Cooler #: 6042

CT LABORATORIES
1230 LANGE CT
BARABOO WI 53913

P: NORTH S: 10SET
10Y - 6000 2994
1Z1A377E904016 JUL 12 07
KUT9KUG HILAK7451DC
HID 1R 03 01 2ERB02H100V
US 5390

CUSTODY SEAL

DATE 7/11/18

SIGNATURE T. J. D. Walsh

QEC
Quality Environmental Containers
800-255-3950 • www.qecusa.com

ANALYTICAL REPORT

TRC ENVIRONMENTAL
 BRUCE IVERSON
 708 HEARTLAND TRAIL
 MADISON, WI 53717

Project Name: WAULECO
 Project Phase:
 Contract #: 2399
 Project #: 189597.0006
 Folder #: 137699
 Purchase Order #: 117482

Page 1 of 14
 Arrival Temperature: 3.2
 Report Date: 07/31/2018
 Date Received: 07/13/2018
 Reprint Date: 07/31/2018

CT LAB Sample#: 148555 Sample Description: W1A	Sampled: 07/12/2018 0740
--	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	3.3	mg/L	0.12	0.40	1			07/13/2018 19:02	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	0.054	ug/L	0.020 *	0.066	1		07/16/2018 11:15	07/17/2018 10:30	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	16	ug/L	0.40	1.3	1			07/17/2018 20:51	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/17/2018 20:51	DGS	EPA 8021M
Naphthalene	1.9	ug/L	0.90 *	2.9	1			07/17/2018 20:51	DGS	EPA 8021M
o-Xylene	2.4	ug/L	0.40	1.4	1			07/17/2018 20:51	DGS	EPA 8021M
TPH as Mineral Spirits	210	ug/L	33	110	1	Q	07/19/2018 09:00	07/20/2018 15:35	JJY	EPA 8015
2,3,4,6-Tetrachlorophenol	3.8	ug/L	0.14	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.25	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.23	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.28	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.22	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D

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

CT LAB Sample#: 148555 Sample Description: W1A

Sampled: 07/12/2018 0740

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dinitrophenol	<3.0	ug/L	0.32	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.23	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.26	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.22	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.23	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.25	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.33	1.2	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.24	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.26	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
Pentachlorophenol	40	ug/L	0.54	1.8	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.28	1.1	1		07/19/2018 11:15	07/20/2018 18:30	RPN	EPA 8270D

CT LAB Sample#: 148557 Sample Description: BLANK 01

Sampled: 07/12/2018 0815

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/13/2018 19:24	TMG	EPA 9056A
Total Sulfate	<0.80	mg/L	0.80	2.5	1			07/13/2018 19:24	TMG	EPA 9056A
Total Organic Carbon	<0.40	mg/L	0.40	1.3	1			07/19/2018 02:22	TMG	EPA 9060A
Metals Results										
Dissolved Iron	731	ug/L	59	200	1			07/16/2018 20:53	NAH	EPA 6010C
Dissolved Manganese	2100	ug/L	2.2	7.3	1			07/16/2018 20:53	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2018 11:15	07/17/2018 10:33	LJF	EPA 7470A

Organic Results

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

CT LAB Sample#: 148557 Sample Description: BLANK 01

Sampled: 07/12/2018 0815

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			07/17/2018 20:16	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/17/2018 20:16	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/17/2018 20:16	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/17/2018 20:16	DGS	EPA 8021M
TPH as Mineral Spirits	<33	ug/L	33	110	1	Q	07/19/2018 09:00	07/20/2018 16:09	JJY	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.13	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
Pentachlorophenol	<3.0	ug/L	0.50	1.7	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/19/2018 11:15	07/20/2018 18:49	RPN	EPA 8270D

CT LAB Sample#: 148558 Sample Description: W36

Sampled: 07/12/2018 0850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	6.7	mg/L	0.12	0.40	1			07/13/2018 19:46	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2018 11:15	07/17/2018 10:35	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/17/2018 21:25	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/17/2018 21:25	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/17/2018 21:25	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/17/2018 21:25	DGS	EPA 8021M
TPH as Mineral Spirits	<33	ug/L	33	110	1	Q	07/19/2018 09:00	07/20/2018 16:42	JJY	EPA 8015
2,3,4,6-Tetrachlorophenol	2.8	ug/L	0.13	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.23	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.21	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.26	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.20	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.29	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.21	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.24	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.20	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.21	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.23	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.30	1.1	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.22	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D

CT LAB Sample#: 148558 Sample Description: W36

Sampled: 07/12/2018 0850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Nitrophenol	<3.0	ug/L	0.24	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
Pentachlorophenol	29	ug/L	0.50	1.7	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.26	1.0	1		07/19/2018 11:15	07/20/2018 19:08	RPN	EPA 8270D

CT LAB Sample#: 148559 Sample Description: W26

Sampled: 07/12/2018 0945

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	1.9	mg/L	0.12	0.40	1			07/13/2018 20:08	TMG	EPA 9056A
Total Sulfate	31	mg/L	0.80	2.5	1			07/13/2018 20:08	TMG	EPA 9056A
Total Organic Carbon	1.2	mg/L	0.40 *	1.3	1			07/19/2018 02:40	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/16/2018 21:01	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/16/2018 21:01	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/16/2018 11:15	07/17/2018 10:37	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/17/2018 21:59	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/17/2018 21:59	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/17/2018 21:59	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/17/2018 21:59	DGS	EPA 8021M
TPH as Mineral Spirits	<33	ug/L	33	110	1	Q	07/19/2018 09:00	07/20/2018 17:16	JJY	EPA 8015
2,3,4,6-Tetrachlorophenol	0.99	ug/L	0.14 *	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.25	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D

CT LAB Sample#: 148559 Sample Description: W26

Sampled: 07/12/2018 0945

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,6-Trichlorophenol	<3.0	ug/L	0.23	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.28	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.22	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.32	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.23	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.26	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.22	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.23	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.25	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.33	1.2	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.24	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.26	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
Pentachlorophenol	4.5	ug/L	0.54	1.8	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.28	1.1	1		07/19/2018 11:15	07/25/2018 17:26	RPN	EPA 8270D

CT LAB Sample#: 148560 Sample Description: FP2

Sampled: 07/12/2018 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	2.9	mg/L	0.80	2.5	1			07/13/2018 22:44	TMG	EPA 9056A
Total Organic Carbon	7.3	mg/L	0.40	1.3	1			07/19/2018 02:51	TMG	EPA 9060A
Metals Results										
Dissolved Iron	16800	ug/L	59	200	1			07/16/2018 21:08	NAH	EPA 6010C
Dissolved Manganese	9500	ug/L	2.2	7.3	1			07/16/2018 21:08	NAH	EPA 6010C

CT LAB Sample#: 148560 Sample Description: FP2 Sampled: 07/12/2018 1105

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
TPH as Mineral Spirits	2700	ug/L	35	120	1	Q	07/19/2018 09:00	07/20/2018 17:49	JJY	EPA 8015

CT LAB Sample#: 148561 Sample Description: PW17 Sampled: 07/12/2018 1115

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Sulfate	13	mg/L	0.80	2.5	1			07/13/2018 23:07	TMG	EPA 9056A
Total Organic Carbon	5.2	mg/L	0.40	1.3	1			07/19/2018 03:03	TMG	EPA 9060A
Metals Results										
Dissolved Iron	3600	ug/L	59	200	1			07/16/2018 21:36	NAH	EPA 6010C
Dissolved Manganese	3630	ug/L	2.2	7.3	1			07/16/2018 21:36	NAH	EPA 6010C

Organic Results										
TPH as Mineral Spirits	1100	ug/L	35	120	1	Q	07/19/2018 09:00	07/23/2018 12:49	JJY	EPA 8015

CT LAB Sample#: 148562 Sample Description: W6R Sampled: 07/12/2018 1150

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	2.7	mg/L	0.12	0.40	1			07/13/2018 20:31	TMG	EPA 9056A
Total Sulfate	54	mg/L	0.80	2.5	1	M		07/13/2018 20:31	TMG	EPA 9056A
Total Organic Carbon	3.8	mg/L	0.40	1.3	1			07/19/2018 03:39	TMG	EPA 9060A

Metals Results

CT LAB Sample#: 148562 Sample Description: W6R

Sampled: 07/12/2018 1150

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Iron	<59	ug/L	59	200	1			07/16/2018 21:44	NAH	EPA 6010C
Dissolved Manganese	67.7	ug/L	2.2	7.3	1			07/16/2018 21:44	NAH	EPA 6010C
Dissolved Mercury	0.034	ug/L	0.020 *	0.066	1		07/16/2018 11:15	07/17/2018 10:39	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	14	ug/L	0.40	1.3	1			07/17/2018 22:34	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/17/2018 22:34	DGS	EPA 8021M
Naphthalene	2.4	ug/L	0.90 *	2.9	1			07/17/2018 22:34	DGS	EPA 8021M
o-Xylene	11	ug/L	0.40	1.4	1			07/17/2018 22:34	DGS	EPA 8021M
TPH as Mineral Spirits	97	ug/L	33 *	110	1	Q	07/19/2018 09:00	07/23/2018 13:22	JJY	EPA 8015
2,3,4,6-Tetrachlorophenol	8.0	ug/L	0.62	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	1.1	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	1.0	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	1.2	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.95	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	1.4	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	1.0	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	1.1	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.95	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	1.0	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	1.1	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	1.4	5.2	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	1.0	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	1.1	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D
Pentachlorophenol	97	ug/L	2.4	8.1	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D

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

CT LAB Sample#: 148562 Sample Description: W6R Sampled: 07/12/2018 1150

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Phenol	<3.0	ug/L	1.2	4.8	5		07/19/2018 11:15	07/20/2018 19:47	RPN	EPA 8270D

CT LAB Sample#: 148563 Sample Description: W39 Sampled: 07/12/2018 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	----------	-----------	----------------	--------------------	---------	--------

Inorganic Results

Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/13/2018 20:53	TMG	EPA 9056A
------------------------	-------	------	------	------	---	--	--	------------------	-----	-----------

Metals Results

Dissolved Mercury	0.062	ug/L	0.020 *	0.066	1		07/16/2018 11:15	07/17/2018 10:42	LJF	EPA 7470A
-------------------	--------------	------	---------	-------	---	--	------------------	------------------	-----	-----------

Organic Results

1,2,4-Trimethylbenzene	100	ug/L	2.0	6.5	5			07/17/2018 23:08	DGS	EPA 8021M
m & p-Xylene	<4.0	ug/L	4.0	14	5			07/17/2018 23:08	DGS	EPA 8021M
Naphthalene	14	ug/L	4.5 *	15	5			07/17/2018 23:08	DGS	EPA 8021M
o-Xylene	15	ug/L	2.0	7.0	5			07/17/2018 23:08	DGS	EPA 8021M
TPH as Mineral Spirits	2000	ug/L	33	110	1	Q	07/19/2018 09:00	07/23/2018 13:55	JJY	EPA 8015
2,3,4,6-Tetrachlorophenol	26	ug/L	6.2 *	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
2,4,5-Trichlorophenol	<11	ug/L	11	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
2,4,6-Trichlorophenol	<10	ug/L	10	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
2,4-Dichlorophenol	<12	ug/L	12	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
2,4-Dimethylphenol	<9.5	ug/L	9.5	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
2,4-Dinitrophenol	<14	ug/L	14	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
2,6-Dichlorophenol	<10	ug/L	10	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
2-Chlorophenol	<11	ug/L	11	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D

CT LAB Sample#: 148563 Sample Description: W39 Sampled: 07/12/2018 1300

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Methylphenol	<9.5	ug/L	9.5	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
2-Nitrophenol	<10	ug/L	10	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
3 & 4-Methylphenol	<11	ug/L	11	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<14	ug/L	14	52	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
4-Chloro-3-methylphenol	<10	ug/L	10	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
4-Nitrophenol	<11	ug/L	11	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
Pentachlorophenol	620	ug/L	24	81	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D
Phenol	<12	ug/L	12	48	50		07/19/2018 11:15	07/20/2018 20:06	RPN	EPA 8270D

CT LAB Sample#: 148564 Sample Description: TRIP BLANK 03 Sampled: 07/12/2018 0750

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/17/2018 19:42	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/17/2018 19:42	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/17/2018 19:42	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/17/2018 19:42	DGS	EPA 8021M

CT LAB Sample#: 148565 Sample Description: W2 Sampled: 07/12/2018 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	3.4	mg/L	0.12	0.40	1			07/13/2018 21:15	TMG	EPA 9056A

CT LAB Sample#: 148565 Sample Description: W2

Sampled: 07/12/2018 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Dissolved Mercury	0.037	ug/L	0.020 *	0.066	1		07/16/2018 11:15	07/17/2018 10:44	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	1000	ug/L	20	65	50			07/18/2018 14:34	DGS	EPA 8021M
m & p-Xylene	24	ug/L	4.0	14	5			07/18/2018 00:17	DGS	EPA 8021M
Naphthalene	100	ug/L	4.5	15	5			07/18/2018 00:17	DGS	EPA 8021M
o-Xylene	110	ug/L	2.0	7.0	5			07/18/2018 00:17	DGS	EPA 8021M
TPH as Mineral Spirits	2700	ug/L	33	110	1	Q	07/19/2018 09:00	07/23/2018 14:29	JJY	EPA 8015
2,3,4,6-Tetrachlorophenol	47	ug/L	3.1	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
2,4,5-Trichlorophenol	<5.5	ug/L	5.5	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
2,4,6-Trichlorophenol	<5.0	ug/L	5.0	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
2,4-Dichlorophenol	<6.2	ug/L	6.2	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
2,4-Dimethylphenol	<4.8	ug/L	4.8	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
2,4-Dinitrophenol	<6.9	ug/L	6.9	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
2,6-Dichlorophenol	<5.0	ug/L	5.0	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
2-Chlorophenol	<5.7	ug/L	5.7	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
2-Methylphenol	<4.8	ug/L	4.8	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
2-Nitrophenol	<5.0	ug/L	5.0	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
3 & 4-Methylphenol	<5.5	ug/L	5.5	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<7.1	ug/L	7.1	26	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
4-Chloro-3-methylphenol	<5.2	ug/L	5.2	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
4-Nitrophenol	<5.7	ug/L	5.7	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
Pentachlorophenol	750	ug/L	12	40	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D
Phenol	<6.2	ug/L	6.2	24	25		07/19/2018 11:15	07/20/2018 20:25	RPN	EPA 8270D

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

CT LAB Sample#: 148566 Sample Description: W2 DUP

Sampled: 07/12/2018 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	1.3	mg/L	0.12	0.40	1			07/13/2018 21:37	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	0.030	ug/L	0.020 *	0.066	1		07/16/2018 11:15	07/17/2018 10:46	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	970	ug/L	20	65	50			07/18/2018 15:43	DGS	EPA 8021M
m & p-Xylene	23	ug/L	4.0	14	5			07/18/2018 00:51	DGS	EPA 8021M
Naphthalene	100	ug/L	4.5	15	5			07/18/2018 00:51	DGS	EPA 8021M
o-Xylene	100	ug/L	2.0	7.0	5			07/18/2018 00:51	DGS	EPA 8021M
TPH as Mineral Spirits	2400	ug/L	33	110	1	Q	07/19/2018 09:00	07/23/2018 15:02	JJY	EPA 8015
2,3,4,6-Tetrachlorophenol	76	ug/L	3.1	24	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
2,4,5-Trichlorophenol	<5.5	ug/L	5.5	24	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
2,4,6-Trichlorophenol	<5.0	ug/L	5.0	24	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
2,4-Dichlorophenol	<6.2	ug/L	6.2	24	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
2,4-Dimethylphenol	<4.8	ug/L	4.8	24	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
2,4-Dinitrophenol	<6.9	ug/L	6.9	24	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
2,6-Dichlorophenol	<5.0	ug/L	5.0	24	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
2-Chlorophenol	<5.7	ug/L	5.7	24	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
2-Methylphenol	<4.8	ug/L	4.8	24	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
2-Nitrophenol	<5.0	ug/L	5.0	24	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
3 & 4-Methylphenol	<5.5	ug/L	5.5	24	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<7.1	ug/L	7.1	26	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
4-Chloro-3-methylphenol	<5.2	ug/L	5.2	24	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D

CT LAB Sample#: 148566 Sample Description: W2 DUP

Sampled: 07/12/2018 1400

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Nitrophenol	<5.7	ug/L	5.7	24	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
Pentachlorophenol	1100	ug/L	12	40	25		07/19/2018 11:15	07/20/2018 20:44	RPN	EPA 8270D
Phenol	<6.2	ug/L	6.2	24	25		07/19/2018 11:15	07/20/2018 20:44	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	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

Company Name: TRC
 Project Contact: Bruce Iverson
 Telephone: 608-826-3644
 Project Name: Wauleco
 Project Number: 189597.0006
 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 #: 137699
 Company: TRC ENVIRONMENTA
 Project: WAULECO

Ice Present No

Temperature 43.2

Initials BA

Date 7-13-18 Time 1025

Cooler # 6132 5013 5255

Invoice To: Accounts Payable
 Company: TRC
 Address:
 City/State/Zip:
 PO No. 117482

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

Client Special Instructions:
 VOC's - Report only
 Naphthalene, xylenes,
 1,2,4-trimethylbenzene.
 Metals are filtered.

Collection Date	Time	Field Screen	Field ID	Grab/Comp	Sample ID Description	Filt'd Y/N	WDR 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*	Lab ID #
																				Fill in Spaces with Bottles per Test
7/12/18	0740			G	W1A	N		GW	2	1	3	1	1				8			148555
	0815				Blank 01				2	1	3	1	1	✓	1	✓	9			148557
	0850				W36				2	1	3	1	1				8			148558
	0945				W26				2	1	3	1	1	✓	1	✓	9			148559
	1105				FP 2									1	1	1	4			148560
	1115				PW17									1	1	1	4			148561
	1150				W6R				2	1	3	1	1	✓	1	✓	9			148562
	1300				W39				2	1	3	1	1				8			148563
✓	0750			✓	Trip Blank 03	✓					1						1			148564
									A	A	B	D	A	A	C	D				

Relinquished By: S. J. Dushek
 Date/Time: 7/12/18 1600

Relinquished By: _____
 Date/Time: _____

Received by: _____
 Date/Time: _____

Received by: [Signature]
 Date/Time: 1054 7-13-18

****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 2.4
IR Gun # 24
Initials BA
Date 7-13-18 Time 1025
Cooler #: 6132

CT LABORATORIES
1230 LANGE CT

BARABOO WI 53913

P: NORTH S: 10SET I: 77D

10Y - 6000

1Z1A377E904042 2417

KUT9XUG HILAK745JDC JUL 13 06:46:13 2018

QUALITY SEAL

DATE: 7-12-18
SIGNATURE: [Signature]

QEC
Quality Environmental Containers
800-255-3950 • www.qecusa.com

Cooler Receipt Form

Ice Present YES NO

Temperature 3.2

IR Gun # 24

Initials BN

Date 7-13-18 Time 1025

Cooler #: 5255

CT LABORATORIES
1230 LANGE CT
BARABOO WI 53913
P: NORTH \$: 10SET
10Y - 600P
1Z1A377E904160
KUT9XUG HILAK745JDC



GUSTODY SEAL
DATE 7-12-18
SIGNATURE [Handwritten Signature]
OPEC
Quality Environmental Containers
830-255-3950 • www.qecusa.com

UPS Electronic Return Label: View/Print Label

1. Make sure 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

GUSTODY SEAL

DATE 7-12-18

SIGNATURE [Signature]

QEC
Quality Environmental Containers
800-255-3950 • www.qecusa.com

Locator

UPS Access Point™
GOIN POSTAL WAUSAU
607 S 24TH AVE
WAUSAU WI

UPS Access Point™
THE UPS STORE
4404 RIB MOUNTAIN DR
WAUSAU WI

FOLD HERE

TOM DUSHEK
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

50 LBS

1 OF 1

RS

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913

WI 539 0-10

UPS GROUND
TRACKING #: 1Z 1A3 77E 90 4084 0608

BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE

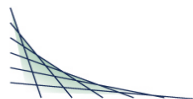
XOL 18.07.25 NV45 99.0A 04/2018

Ice Present: Yes No

Temperature 2.9 °C

Initials BL

Date 7-13-18 Time 1025
5013



**REVISED
 ANALYTICAL REPORT**

TRC ENVIRONMENTAL
 BRUCE IVERSON
 708 HEARTLAND TRAIL
 MADISON, WI 53717

Project Name: WAULECO
 Project Phase:
 Contract #: 2399
 Project #: 189597.0006
 Folder #: 137770
 Purchase Order #: 117482

Page 1 of 5
 Arrival Temperature: 2.6
 Report Date: 08/01/2018
 Date Received: 07/17/2018
 Reprint Date: 12/05/2018
 Revision Date 12/05/2018

CT LAB Sample#: 149837 Sample Description: DFOMW5	Sampled: 07/16/2018 0710
---	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/18/2018 13:25	TMG	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/18/2018 13:25	TMG	EPA 8021M
Naphthalene	5.8	ug/L	0.90	2.9	1			07/18/2018 13:25	TMG	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/18/2018 13:25	TMG	EPA 8021M
TPH as Mineral Spirits	290	ug/L	32	110	1		07/23/2018 11:00	07/26/2018 06:21	AJZ	EPA 8015
Pentachlorophenol	2.6	ug/L	0.49	1.7	1		07/23/2018 11:00	07/26/2018 12:21	RPN	EPA 8270D

CT LAB Sample#: 149838 Sample Description: DFOMW11	Sampled: 07/16/2017 0745
--	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Pentachlorophenol	4100	ug/L	48	160	100		07/23/2018 11:00	07/26/2018 15:33	RPN	EPA 8270D

CT LAB Sample#: 149839 Sample Description: DFOMW12 Sampled: 07/16/2017 0820

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Pentachlorophenol	2300	ug/L	97	330	200		07/23/2018 11:00	07/26/2018 15:14	RPN	EPA 8270D

CT LAB Sample#: 149840 Sample Description: DFOMW12 DUP Sampled: 07/16/2017 0820

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
Pentachlorophenol	1700	ug/L	100	340	200		07/23/2018 11:00	07/26/2018 16:11	RPN	EPA 8270D

CT LAB Sample#: 149841 Sample Description: TRIP BLANK 04 Sampled: 07/16/2018 0730

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/18/2018 12:50	TMG	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/18/2018 12:50	TMG	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/18/2018 12:50	TMG	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/18/2018 12:50	TMG	EPA 8021M

CT LAB Sample#: 149842 Sample Description: W13 Sampled: 07/16/2018 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	4.4	mg/L	0.12	0.40	1			07/17/2018 16:07	TMG	EPA 9056A

CT LAB Sample#: 149842 Sample Description: W13

Sampled: 07/16/2018 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Sulfate	19	mg/L	0.80	2.5	1	M		07/17/2018 16:07	TMG	EPA 9056A
Total Organic Carbon	0.67	mg/L	0.40 *	1.3	1			07/19/2018 03:51	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/18/2018 20:54	NAH	EPA 6010C
Dissolved Manganese	<2.2	ug/L	2.2	7.3	1			07/18/2018 20:54	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2018 10:00	07/23/2018 10:07	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/18/2018 13:59	TMG	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/18/2018 13:59	TMG	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/18/2018 13:59	TMG	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/18/2018 13:59	TMG	EPA 8021M
TPH as Mineral Spirits	<32	ug/L	32	110	1		07/23/2018 11:00	07/26/2018 06:54	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.12	0.95	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.22	0.95	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.20	0.95	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.25	0.95	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.19	0.95	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	0.28	0.95	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.20	0.95	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.23	0.95	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.19	0.95	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.20	0.95	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.22	0.95	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.29	1.0	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D

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

CT LAB Sample#: 149842 Sample Description: W13

Sampled: 07/16/2018 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Chloro-3-methylphenol	<3.0	ug/L	0.21	0.95	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.23	0.95	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
Pentachlorophenol	2.7	ug/L	0.48	1.6	1		07/23/2018 11:00	07/26/2018 12:40	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.25	0.95	1		07/23/2018 11:00	07/26/2018 12:40	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.

Reason for Revision Client requested only Pentachlorophenol be reported for Sample #'s 149837, 149838, 149839, & 149840.

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	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

Company Name: TRC
 Project Contact: Bruce Iverson
 Telephone: 608-826-3644
 Project Name: Wauleco
 Project Number: 189597.0006
 Project Location: Wausau, WI
 Sampled By: Tom Dushek
 Regulatory Program:
 UST RCRA SDWA NPDES
 Solid Waste Other _____



Folder #: 137770
 Company: TRC ENVIRONMENTA
 Project: WAULECO
 Logged By: DRT PM: BM

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Tel. Fx 608-356-2766
 www.ctlaboratories.com

Ice Present Yes No

Temperature 26.7

Initials DR

Date 7/17/18 Time 0945

Cooler # L0135, 4000

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. 117482

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	WDR 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*	Client Special Instructions: VOC's - Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene. Metals are filtered.	Lab ID #
Date	Time																				
Fill in Spaces with Bottles per Test																					
7/16/18	0710			G	DFOMW5	N		GW	2	1	3										149837
	0745				DFOMW11				2												149838
	0820				DFOMW12				2												149839
	0820				DFOMW12 Dup				2												149840
	0730				Trip Blank 04						1										149841
↓	0915			↓	W13	↓		↓	2	1	3	1	1	✓	1	✓	9				149842
									A	A	B	D	A	A	C	D					

Relinquished By: S.J. Dushak Date/Time: 7/16/18 11:00
 Received by: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: 7/17/18 0945
 Received by: _____ Date/Time: 7/17/18 1005

****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 24

IR Gun # 19

Initials RS

Date 7/17/18 Time 0945

Cooler #: 6135

CUSTODY SEAL

DATE 7-16-18

SIGNATURE [Signature]

QEC
Quality Environmental Container
800-255-3950 • www.qecusa.com

TOM DUSHEK TRC ENVIRONMENTAL 125 ROSECRANS STREET WAUSAU WI 54401		50 LBS	1 OF 1
SHIP TO: SHIPPING DEPT 6083562760 CT LABS 1230 LANGE CT BARABOO WI 53913		RS	
	WI 539 0-10		
			
UPS GROUND			
TRACKING #: 1Z 1A3 77E 90 4243 4286			
			
BILLING: P/P DESC: Environmental Samples RETURN SERVICE			
XDL 18.07.25		NV45 99.0A 04/2018	
			

137770

Cooler Receipt Form

Ice Present YES NO

Temperature 13

IR Gun # 19

Initials RS

Date 7/17/18 Time 0945

Cooler #: 4000

CUSTODY SEAL

DATE 7-16-18

SIGNATURE [Signature]

QEC
Quality Environmental Containers
800-255-3950 • www.qecusa.com

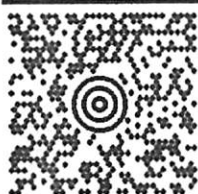
FOM DUSHEK
FRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

50 LBS

1 OF 1

RS

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913



WI 539 0-10



UPS GROUND

TRACKING #: 1Z 1A3 77E 90 4022 5676



BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE



137770

ANALYTICAL REPORT

TRC ENVIRONMENTAL
 BRUCE IVERSON
 708 HEARTLAND TRAIL
 MADISON, WI 53717

Project Name: WAULECO
 Project Phase:
 Contract #: 2399
 Project #: 189597.0006
 Folder #: 137867
 Purchase Order #: 117482

Page 1 of 12
 Arrival Temperature: 3.1
 Report Date: 08/08/2018
 Date Received: 07/19/2018
 Reprint Date: 08/08/2018

CT LAB Sample#: 151669	Sample Description: W9	Sampled: 07/18/2018 0840
------------------------	------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/19/2018 14:09	TMG	EPA 9056A
Metals Results										
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2018 10:00	07/23/2018 10:34	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/31/2018 12:34	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/31/2018 12:34	DGS	EPA 8021M
Naphthalene	1.5	ug/L	0.90 *	2.9	1			07/31/2018 12:34	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/31/2018 12:34	DGS	EPA 8021M
TPH as Mineral Spirits	110	ug/L	31	100	1		07/23/2018 11:00	07/26/2018 07:28	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	<3.0	ug/L	0.12	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	0.22	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	0.20	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	0.25	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	0.19	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D

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

CT LAB Sample#: 151669 Sample Description: W9

Sampled: 07/18/2018 0840

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dinitrophenol	<3.0	ug/L	0.28	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	0.20	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	0.23	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	0.19	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	0.20	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	0.22	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	0.29	1.0	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	0.21	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	0.23	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
Pentachlorophenol	2.5	ug/L	0.48	1.6	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D
Phenol	<3.0	ug/L	0.25	0.95	1		07/23/2018 11:00	07/26/2018 12:59	RPN	EPA 8270D

CT LAB Sample#: 151670 Sample Description: W3A

Sampled: 07/18/2018 0925

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/19/2018 14:49	TMG	EPA 9056A
Total Sulfate	14	mg/L	0.80	2.5	1			07/19/2018 14:49	TMG	EPA 9056A
Total Organic Carbon	6.8	mg/L	0.40	1.3	1			08/01/2018 15:42	TMG	EPA 9060A
Metals Results										
Dissolved Iron	7450	ug/L	59	200	1			07/21/2018 02:38	NAH	EPA 6010C
Dissolved Manganese	12800	ug/L	2.2	7.3	1	M		07/21/2018 02:38	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2018 10:00	07/23/2018 10:36	LJF	EPA 7470A

Organic Results

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

CT LAB Sample#: 151670 Sample Description: W3A

Sampled: 07/18/2018 0925

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,4-Trimethylbenzene	440	ug/L	8.0	26	20			08/01/2018 10:19	DGS	EPA 8021M
m & p-Xylene	<8.0	ug/L	8.0	28	10			07/31/2018 18:55	DGS	EPA 8021M
Naphthalene	11	ug/L	9.0 *	29	10			07/31/2018 18:55	DGS	EPA 8021M
o-Xylene	25	ug/L	4.0	14	10			07/31/2018 18:55	DGS	EPA 8021M
TPH as Mineral Spirits	4400	ug/L	32	110	1		07/23/2018 11:00	07/26/2018 08:01	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	34	ug/L	1.2	9.5	10	Q	07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
2,4,5-Trichlorophenol	<3.0	ug/L	2.2	9.5	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
2,4,6-Trichlorophenol	<3.0	ug/L	2.0	9.5	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
2,4-Dichlorophenol	<3.0	ug/L	2.5	9.5	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
2,4-Dimethylphenol	<3.0	ug/L	1.9	9.5	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
2,4-Dinitrophenol	<3.0	ug/L	2.8	9.5	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
2,6-Dichlorophenol	<3.0	ug/L	2.0	9.5	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
2-Chlorophenol	<3.0	ug/L	2.3	9.5	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
2-Methylphenol	<3.0	ug/L	1.9	9.5	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
2-Nitrophenol	<3.0	ug/L	2.0	9.5	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
3 & 4-Methylphenol	<3.0	ug/L	2.2	9.5	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<3.0	ug/L	2.9	10	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
4-Chloro-3-methylphenol	<3.0	ug/L	2.1	9.5	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
4-Nitrophenol	<3.0	ug/L	2.3	9.5	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D
Pentachlorophenol	500	ug/L	9.5	32	20		07/23/2018 11:00	07/26/2018 19:03	RPN	EPA 8270D
Phenol	<3.0	ug/L	2.5	9.5	10		07/23/2018 11:00	07/26/2018 16:30	RPN	EPA 8270D

CT LAB Sample#: 151680 Sample Description: W10A

Sampled: 07/18/2018 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/19/2018 15:29	TMG	EPA 9056A
Total Sulfate	9.6	mg/L	0.80	2.5	1			07/19/2018 15:29	TMG	EPA 9056A
Total Organic Carbon	7.0	mg/L	0.40	1.3	1			08/01/2018 15:54	TMG	EPA 9060A
Metals Results										
Dissolved Iron	1350	ug/L	59	200	1			07/21/2018 03:01	NAH	EPA 6010C
Dissolved Manganese	3550	ug/L	2.2	7.3	1			07/21/2018 03:01	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2018 10:00	07/23/2018 10:38	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	500	ug/L	8.0	26	20			07/31/2018 21:13	DGS	EPA 8021M
m & p-Xylene	29	ug/L	0.80	2.8	1			07/31/2018 13:09	DGS	EPA 8021M
Naphthalene	28	ug/L	0.90	2.9	1			07/31/2018 13:09	DGS	EPA 8021M
o-Xylene	97	ug/L	8.0	28	20			07/31/2018 21:13	DGS	EPA 8021M
TPH as Mineral Spirits	1600	ug/L	31	100	1		07/23/2018 11:00	07/26/2018 08:34	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	56	ug/L	6.2	48	50	Q	07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
2,4,5-Trichlorophenol	<11	ug/L	11	48	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
2,4,6-Trichlorophenol	<10	ug/L	10	48	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
2,4-Dichlorophenol	<12	ug/L	12	48	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
2,4-Dimethylphenol	<9.5	ug/L	9.5	48	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
2,4-Dinitrophenol	<14	ug/L	14	48	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
2,6-Dichlorophenol	<10	ug/L	10	48	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
2-Chlorophenol	<11	ug/L	11	48	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
2-Methylphenol	<9.5	ug/L	9.5	48	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D

CT LAB Sample#: 151680 Sample Description: W10A Sampled: 07/18/2018 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Nitrophenol	<10	ug/L	10	48	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
3 & 4-Methylphenol	<11	ug/L	11	48	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<14	ug/L	14	52	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
4-Chloro-3-methylphenol	<10	ug/L	10	48	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
4-Nitrophenol	<11	ug/L	11	48	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
Pentachlorophenol	1200	ug/L	24	81	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D
Phenol	<12	ug/L	12	48	50		07/23/2018 11:00	07/26/2018 16:49	RPN	EPA 8270D

CT LAB Sample#: 151681 Sample Description: W10A DUP Sampled: 07/18/2018 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/19/2018 15:50	TMG	EPA 9056A
Total Sulfate	11	mg/L	0.80	2.5	1			07/19/2018 15:50	TMG	EPA 9056A
Total Organic Carbon	6.3	mg/L	0.40	1.3	1			08/01/2018 16:46	TMG	EPA 9060A
Metals Results										
Dissolved Iron	1330	ug/L	59	200	1			07/21/2018 03:08	NAH	EPA 6010C
Dissolved Manganese	3340	ug/L	2.2	7.3	1			07/21/2018 03:08	NAH	EPA 6010C
Dissolved Mercury	0.024	ug/L	0.020 *	0.066	1		07/20/2018 10:00	07/23/2018 10:40	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	490	ug/L	8.0	26	20			07/31/2018 21:47	DGS	EPA 8021M
m & p-Xylene	29	ug/L	0.80	2.8	1			07/31/2018 13:43	DGS	EPA 8021M
Naphthalene	29	ug/L	0.90	2.9	1			07/31/2018 13:43	DGS	EPA 8021M
o-Xylene	93	ug/L	8.0	28	20			07/31/2018 21:47	DGS	EPA 8021M

CT LAB Sample#: 151681 Sample Description: W10A DUP

Sampled: 07/18/2018 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TPH as Mineral Spirits	1300	ug/L	31	100	1		07/23/2018 11:00	07/26/2018 09:08	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	50	ug/L	6.2	48	50	Q	07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
2,4,5-Trichlorophenol	<11	ug/L	11	48	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
2,4,6-Trichlorophenol	<10	ug/L	10	48	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
2,4-Dichlorophenol	<12	ug/L	12	48	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
2,4-Dimethylphenol	<9.5	ug/L	9.5	48	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
2,4-Dinitrophenol	<14	ug/L	14	48	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
2,6-Dichlorophenol	<10	ug/L	10	48	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
2-Chlorophenol	<11	ug/L	11	48	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
2-Methylphenol	<9.5	ug/L	9.5	48	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
2-Nitrophenol	<10	ug/L	10	48	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
3 & 4-Methylphenol	<11	ug/L	11	48	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<14	ug/L	14	52	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
4-Chloro-3-methylphenol	<10	ug/L	10	48	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
4-Nitrophenol	<11	ug/L	11	48	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
Pentachlorophenol	1100	ug/L	24	81	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D
Phenol	<12	ug/L	12	48	50		07/23/2018 11:00	07/26/2018 17:08	RPN	EPA 8270D

CT LAB Sample#: 151682 Sample Description: W22

Sampled: 07/18/2018 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	0.41	mg/L	0.12	0.40	1			07/19/2018 16:10	TMG	EPA 9056A
Total Sulfate	15	mg/L	0.80	2.5	1			07/19/2018 16:10	TMG	EPA 9056A

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

CT LAB Sample#: 151682 Sample Description: W22

Sampled: 07/18/2018 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Organic Carbon	6.1	mg/L	0.40	1.3	1			08/01/2018 16:58	TMG	EPA 9060A
Metals Results										
Dissolved Iron	<59	ug/L	59	200	1			07/21/2018 03:16	NAH	EPA 6010C
Dissolved Manganese	2940	ug/L	2.2	7.3	1			07/21/2018 03:16	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2018 10:00	07/23/2018 10:47	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	540	ug/L	8.0	26	20			07/31/2018 22:22	DGS	EPA 8021M
m & p-Xylene	30	ug/L	0.80	2.8	1			07/31/2018 14:19	DGS	EPA 8021M
Naphthalene	69	ug/L	18	58	20			07/31/2018 22:22	DGS	EPA 8021M
o-Xylene	130	ug/L	8.0	28	20			07/31/2018 22:22	DGS	EPA 8021M
TPH as Mineral Spirits	2600	ug/L	33	110	1		07/23/2018 11:00	07/26/2018 09:41	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	420	ug/L	26	200	200	Q	07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
2,4,5-Trichlorophenol	<46	ug/L	46	200	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
2,4,6-Trichlorophenol	<42	ug/L	42	200	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
2,4-Dichlorophenol	<52	ug/L	52	200	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
2,4-Dimethylphenol	<40	ug/L	40	200	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
2,4-Dinitrophenol	<58	ug/L	58	200	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
2,6-Dichlorophenol	<42	ug/L	42	200	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
2-Chlorophenol	<48	ug/L	48	200	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
2-Methylphenol	<40	ug/L	40	200	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
2-Nitrophenol	<42	ug/L	42	200	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
3 & 4-Methylphenol	<46	ug/L	46	200	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<60	ug/L	60	220	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
4-Chloro-3-methylphenol	<44	ug/L	44	200	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D

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

CT LAB Sample#: 151682 Sample Description: W22

Sampled: 07/18/2018 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4-Nitrophenol	<48	ug/L	48	200	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
Pentachlorophenol	5200	ug/L	100	340	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D
Phenol	<52	ug/L	52	200	200		07/23/2018 11:00	07/26/2018 17:28	RPN	EPA 8270D

CT LAB Sample#: 151683 Sample Description: W27

Sampled: 07/18/2018 1215

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	0.13	mg/L	0.12 *	0.40	1			07/19/2018 16:30	TMG	EPA 9056A
Total Sulfate	43	mg/L	0.80	2.5	1			07/19/2018 16:30	TMG	EPA 9056A
Total Organic Carbon	33	mg/L	0.40	1.3	1			08/01/2018 17:09	TMG	EPA 9060A
Metals Results										
Dissolved Iron	5040	ug/L	59	200	1			07/21/2018 03:44	NAH	EPA 6010C
Dissolved Manganese	15300	ug/L	2.2	7.3	1			07/21/2018 03:44	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2018 10:00	07/23/2018 10:49	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	720	ug/L	8.0	26	20			07/31/2018 22:56	DGS	EPA 8021M
m & p-Xylene	39	ug/L	0.80	2.8	1			07/31/2018 14:52	DGS	EPA 8021M
Naphthalene	94	ug/L	18	58	20			07/31/2018 22:56	DGS	EPA 8021M
o-Xylene	92	ug/L	8.0	28	20			07/31/2018 22:56	DGS	EPA 8021M
TPH as Mineral Spirits	4600	ug/L	32	110	1		07/23/2018 11:00	07/26/2018 11:21	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	520	ug/L	12	95	100	Q	07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D
2,4,5-Trichlorophenol	<22	ug/L	22	95	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D

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

CT LAB Sample#: 151683 Sample Description: W27

Sampled: 07/18/2018 1215

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,6-Trichlorophenol	<20	ug/L	20	95	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D
2,4-Dichlorophenol	<25	ug/L	25	95	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D
2,4-Dimethylphenol	<19	ug/L	19	95	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D
2,4-Dinitrophenol	<28	ug/L	28	95	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D
2,6-Dichlorophenol	<20	ug/L	20	95	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D
2-Chlorophenol	<23	ug/L	23	95	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D
2-Methylphenol	<19	ug/L	19	95	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D
2-Nitrophenol	<20	ug/L	20	95	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D
3 & 4-Methylphenol	<22	ug/L	22	95	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<29	ug/L	29	100	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D
4-Chloro-3-methylphenol	<21	ug/L	21	95	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D
4-Nitrophenol	<23	ug/L	23	95	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D
Pentachlorophenol	5200	ug/L	95	320	200		07/23/2018 11:00	07/26/2018 20:20	RPN	EPA 8270D
Phenol	<25	ug/L	25	95	100		07/23/2018 11:00	07/26/2018 19:23	RPN	EPA 8270D

CT LAB Sample#: 151684 Sample Description: W41

Sampled: 07/18/2018 1340

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	0.15	mg/L	0.12 *	0.40	1			07/19/2018 16:50	TMG	EPA 9056A
Total Sulfate	9.7	mg/L	0.80	2.5	1			07/19/2018 16:50	TMG	EPA 9056A
Total Organic Carbon	26	mg/L	0.40	1.3	1			08/01/2018 17:22	TMG	EPA 9060A
Metals Results										
Dissolved Iron	6930	ug/L	59	200	1			07/21/2018 03:52	NAH	EPA 6010C

CT LAB Sample#: 151684 Sample Description: W41

Sampled: 07/18/2018 1340

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Manganese	14600	ug/L	2.2	7.3	1			07/21/2018 03:52	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/20/2018 10:00	07/23/2018 10:52	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	220	ug/L	4.0	13	10			07/31/2018 23:30	DGS	EPA 8021M
m & p-Xylene	6.0	ug/L	0.80	2.8	1			07/31/2018 15:27	DGS	EPA 8021M
Naphthalene	40	ug/L	0.90	2.9	1			07/31/2018 15:27	DGS	EPA 8021M
o-Xylene	50	ug/L	4.0	14	10			07/31/2018 23:30	DGS	EPA 8021M
TPH as Mineral Spirits	1300	ug/L	32	110	1		07/23/2018 11:00	07/26/2018 11:54	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	100	ug/L	13	100	100	Q	07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
2,4,5-Trichlorophenol	<23	ug/L	23	100	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
2,4,6-Trichlorophenol	<21	ug/L	21	100	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
2,4-Dichlorophenol	<26	ug/L	26	100	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
2,4-Dimethylphenol	<20	ug/L	20	100	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
2,4-Dinitrophenol	<29	ug/L	29	100	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
2,6-Dichlorophenol	<21	ug/L	21	100	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
2-Chlorophenol	<24	ug/L	24	100	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
2-Methylphenol	<20	ug/L	20	100	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
2-Nitrophenol	<21	ug/L	21	100	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
3 & 4-Methylphenol	<23	ug/L	23	100	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<30	ug/L	30	110	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
4-Chloro-3-methylphenol	<22	ug/L	22	100	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
4-Nitrophenol	<24	ug/L	24	100	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
Pentachlorophenol	2900	ug/L	50	170	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D
Phenol	<26	ug/L	26	100	100		07/23/2018 11:00	07/26/2018 18:06	RPN	EPA 8270D

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

CT LAB Sample#: 151685 Sample Description: TRIP BLANK 05

Sampled: 07/18/2018 0855

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1		07/31/2018 11:25	07/31/2018 11:25	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1		07/31/2018 11:25	07/31/2018 11:25	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1		07/31/2018 11:25	07/31/2018 11:25	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1		07/31/2018 11:25	07/31/2018 11:25	DGS	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

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	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

Company Name: TRC
 Project Contact: Bruce Iverson
 Telephone: 608-826-3644
 Project Name: Wauleco
 Project Number: 189597.0006
 Project Location: Wausau, WI
 Sampled By: Tom Dushek

CTI laboratories
 Folder #: 137867
 Company: TRC ENVIRONMENTA
 Project: WAULECO
 Logged By: DRT PM: BM
 1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Tel. Fx 608-356-2766
 www.ctlaboratories.com
 Ice Present Yes No
 Temperature 31.2
 Initials [Signature]
 Date 7/18/18 Time 1000
 Cooler # _____

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:

Regulatory Program:
 UST RCRA SDWA NPDES
 Solid Waste Other _____

PO No. 117482
 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	Filt'd Y/N	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*	Client Special Instructions: VOC's - Report only Naphthalene, xylenes, 1,2,4-trimethylbenzene. Metals are filtered.
Date	Time																			Lab ID #
7/18/18	0840			G	W9	N		GW	2	1	3	1	1				8			151669
	0925				W3A				2	1	3	1	1	✓	1	✓	9			151670
	1030				W10A				2	1	3	1	1	✓	1	✓	9			151680
	1030				W10A Dup				2	1	3	1	1	✓	1	✓	9			151681
	1130				W22				2	1	3	1	1	✓	1	✓	9			151682
	1215				W27				2	1	3	1	1	✓	1	✓	9			151683
	1340				W41				2	1	3	1	1	✓	1	✓	9			151684
	0855				Tap Blank 05						1						1			151685
									A	A	B	D	A	A	C	D				

Relinquished By: J. J. Dushek Date/Time: 7/18/18 1530
 Received by: _____ Date/Time: _____
 Relinquished By: [Signature] Date/Time: 7/19/18 1000
 Received by: [Signature] Date/Time: 7/19/18 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 _____

Ice Present 3 YES NO
Temperature 37
IR Gun # 19
Initials RS
Date 7/19/18 Time 1000
Cooler #: 5296

Cooler Receipt Form

CT LABORATORIES
1230 LANGE CT

BARABOO WI 53913

P: NORTH S: 10SET I: 77D

10W - 6000

1Z1A377E904081 1390

KUT9XUG W1LAK935UDC JUL 19 06:56:18 2018
US 5390 HIP 18.03.01 ZEBRAZH400

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

CUSTODY SEAL
DATE 7/18/18
SIGNATURE [Signature]

TOM DUSHEK TRC ENVIRONMENTAL 125 ROSECRANS STREET WAUSAU WI 54401	50 LBS	1 OF 1
RS		
SHIP TO: SHIPPING DEPT 6083562760 CT LABS 1230 LANGE CT BARABOO WI 53913		
	WI 539 0-10 	
UPS GROUND TRACKING #: 1Z 1A3 77E 90 4081 1390		
		
BILLING: P/P DESC: Environmental Samples RETURN SERVICE		
XDL 18.07.25 NV45 03.0A 07/2018		

137867

Ice Present YES NO
Temperature 2.4
IR Gun # 19
Initials [Signature]
Date 7/9/18 Time 1000
Cooler #: 6129

Cooler Receipt Form

CT LABORATORIES
1230 LANGE CT
BARABOO WI 53913

P: NORTH S: 10SET I: 77D
10W - 6000
1Z1A377E904156 9777
KUT9XUG HILAK935UDC JUL 19 06:56:20 2018
US 5390 HIP 18.03.01 ZEBRAZH400

QUALITY ENVIRONMENTAL CONTAINERS
GUSTODY SEAL
DATE 7/9/18
SIGNATURE [Signature]
QEC
Quality Environmental Containers
800-255-3950 • www.qecusa.com

TOM DUSHEK 50 LBS 1 OF 1
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401
RS

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913

WI 539 0-10


UPS GROUND
TRACKING #: 1Z 1A3 77E 90 4156 9777



BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE

XOL 18.07.25 NV45 03.0A 07/2018 

137867

Ice Present YES NO

Temperature 2.6

IR Gun # 19

Initials TD

Date 7/19/18 Time 1000

Cooler #: 5230

Cooler Receipt Form

CT LABORATORIES
1230 LANGE CT

BARABOO WI 53913

P: NORTH S: 10SET I: 77D

10W - 6000

1Z1A377E904266 2388

KUT9VUG H1LAK935UDC JUL 19 06:56:23 2018
US 5390 HIP 18.03.01 ZEBRAZH400

VOID SEAL

DATE 7/19/18

SIGNATURE T. D. Dushek

QREC
Quality Environmental Containers
1-800-255-3950 • 304-255-3900

TOM DUSHEK TRC ENVIRONMENTAL 125 ROSECRANS STREET WAUSAU WI 54401		50 LBS	1 OF 1
SHIP TO: SHIPPING DEPT 6083562760 CT LABS 1230 LANGE CT BARABOO WI 53913		RS	
	WI 539 0-10		
			
UPS GROUND			
TRACKING #: 1Z 1A3 77E 90 4266 2388			
			
BILLING: P/P DESC: Environmental Samples RETURN SERVICE			
<small>XOL 18.07.25</small>		<small>NW45 03.0A 07/2018</small>	
			

137867

ANALYTICAL REPORT

TRC ENVIRONMENTAL
 BRUCE IVERSON
 708 HEARTLAND TRAIL
 MADISON, WI 53717

Project Name: WAULECO
 Project Phase:
 Contract #: 2399
 Project #: 189597.0006
 Folder #: 137926
 Purchase Order #: 117482

Page 1 of 8
 Arrival Temperature: 2.1
 Report Date: 08/08/2018
 Date Received: 07/20/2018
 Reprint Date: 08/08/2018

CT LAB Sample#: 152858 Sample Description: W33	Sampled: 07/19/2018 0815
---	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/20/2018 11:57	TMG	EPA 9056A
Total Sulfate	14	mg/L	0.80	2.5	1			07/20/2018 11:57	TMG	EPA 9056A
Total Organic Carbon	5.2	mg/L	0.40	1.3	1			08/01/2018 17:59	TMG	EPA 9060A
Metals Results										
Dissolved Iron	847	ug/L	59	200	1			07/23/2018 17:50	NAH	EPA 6010C
Dissolved Manganese	1550	ug/L	2.2	7.3	1			07/23/2018 17:50	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/30/2018 13:40	07/31/2018 09:01	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	170	ug/L	2.0	6.5	5			07/31/2018 20:04	DGS	EPA 8021M
m & p-Xylene	4.1	ug/L	4.0 *	14	5			07/31/2018 20:04	DGS	EPA 8021M
Naphthalene	8.3	ug/L	4.5 *	15	5			07/31/2018 20:04	DGS	EPA 8021M
o-Xylene	38	ug/L	2.0	7.0	5			07/31/2018 20:04	DGS	EPA 8021M
TPH as Mineral Spirits	7400	ug/L	31	100	1		07/23/2018 11:00	07/26/2018 12:28	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	430	ug/L	6.2	48	50	Q	07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D

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

CT LAB Sample#: 152858 Sample Description: W33

Sampled: 07/19/2018 0815

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4,5-Trichlorophenol	<11	ug/L	11	48	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D
2,4,6-Trichlorophenol	<10	ug/L	10	48	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D
2,4-Dichlorophenol	<12	ug/L	12	48	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D
2,4-Dimethylphenol	<9.5	ug/L	9.5	48	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D
2,4-Dinitrophenol	<14	ug/L	14	48	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D
2,6-Dichlorophenol	<10	ug/L	10	48	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D
2-Chlorophenol	<11	ug/L	11	48	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D
2-Methylphenol	<9.5	ug/L	9.5	48	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D
2-Nitrophenol	<10	ug/L	10	48	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D
3 & 4-Methylphenol	<11	ug/L	11	48	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<14	ug/L	14	52	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D
4-Chloro-3-methylphenol	<10	ug/L	10	48	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D
4-Nitrophenol	<11	ug/L	11	48	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D
Pentachlorophenol	2800	ug/L	48	160	100		07/23/2018 11:00	07/30/2018 18:17	RPN	EPA 8270D
Phenol	<12	ug/L	12	48	50		07/23/2018 11:00	07/26/2018 19:42	RPN	EPA 8270D

CT LAB Sample#: 152934 Sample Description: W29

Sampled: 07/19/2018 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	0.13	mg/L	0.12 *	0.40	1			07/20/2018 12:19	TMG	EPA 9056A
Total Sulfate	13	mg/L	0.80	2.5	1			07/20/2018 12:19	TMG	EPA 9056A
Total Organic Carbon	2.5	mg/L	0.40	1.3	1			08/01/2018 18:11	TMG	EPA 9060A

Metals Results

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

CT LAB Sample#: 152934 Sample Description: W29

Sampled: 07/19/2018 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Iron	<59	ug/L	59	200	1			07/23/2018 18:12	NAH	EPA 6010C
Dissolved Manganese	6.2	ug/L	2.2 *	7.3	1			07/23/2018 18:12	NAH	EPA 6010C
Dissolved Mercury	0.022	ug/L	0.020 *	0.066	1		07/30/2018 13:40	07/31/2018 09:04	LJF	EPA 7470A
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/31/2018 17:45	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/31/2018 17:45	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/31/2018 17:45	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/31/2018 17:45	DGS	EPA 8021M
TPH as Mineral Spirits	<32	ug/L	32	110	1		07/23/2018 11:00	07/26/2018 13:01	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	68	ug/L	13 *	100	100	Q	07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
2,4,5-Trichlorophenol	<23	ug/L	23	100	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
2,4,6-Trichlorophenol	<21	ug/L	21	100	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
2,4-Dichlorophenol	<26	ug/L	26	100	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
2,4-Dimethylphenol	<20	ug/L	20	100	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
2,4-Dinitrophenol	<29	ug/L	29	100	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
2,6-Dichlorophenol	<21	ug/L	21	100	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
2-Chlorophenol	<24	ug/L	24	100	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
2-Methylphenol	<20	ug/L	20	100	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
2-Nitrophenol	<21	ug/L	21	100	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
3 & 4-Methylphenol	<23	ug/L	23	100	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<30	ug/L	30	110	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
4-Chloro-3-methylphenol	<22	ug/L	22	100	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
4-Nitrophenol	<24	ug/L	24	100	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D
Pentachlorophenol	1100	ug/L	50	170	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D

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

CT LAB Sample#: 152934 Sample Description: W29

Sampled: 07/19/2018 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Phenol	<26	ug/L	26	100	100		07/23/2018 11:00	07/26/2018 14:16	RPN	EPA 8270D

CT LAB Sample#: 152935 Sample Description: W29 DUP

Sampled: 07/19/2018 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
---------	--------	-------	-----	-----	----------	-----------	----------------	--------------------	---------	--------

Inorganic Results

Nitrate Nitrogen Total	0.14	mg/L	0.12 *	0.40	1			07/20/2018 12:41	TMG	EPA 9056A
Total Sulfate	13	mg/L	0.80	2.5	1			07/20/2018 12:41	TMG	EPA 9056A
Total Organic Carbon	1.8	mg/L	0.40	1.3	1			08/01/2018 18:23	TMG	EPA 9060A

Metals Results

Dissolved Iron	<59	ug/L	59	200	1			07/23/2018 18:20	NAH	EPA 6010C
Dissolved Manganese	5.5	ug/L	2.2 *	7.3	1			07/23/2018 18:20	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/30/2018 13:40	07/31/2018 09:15	LJF	EPA 7470A

Organic Results

1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/31/2018 18:20	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			07/31/2018 18:20	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1			07/31/2018 18:20	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/31/2018 18:20	DGS	EPA 8021M
TPH as Mineral Spirits	<33	ug/L	33	110	1		07/23/2018 11:00	07/26/2018 13:34	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	80	ug/L	6.5	50	50	Q	07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
2,4,5-Trichlorophenol	<12	ug/L	12	50	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
2,4,6-Trichlorophenol	<11	ug/L	11	50	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
2,4-Dichlorophenol	<13	ug/L	13	50	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D

CT LAB Sample#: 152935 Sample Description: W29 DUP

Sampled: 07/19/2018 0900

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2,4-Dimethylphenol	<10	ug/L	10	50	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
2,4-Dinitrophenol	<15	ug/L	15	50	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
2,6-Dichlorophenol	<11	ug/L	11	50	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
2-Chlorophenol	<12	ug/L	12	50	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
2-Methylphenol	<10	ug/L	10	50	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
2-Nitrophenol	<11	ug/L	11	50	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
3 & 4-Methylphenol	<12	ug/L	12	50	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<15	ug/L	15	55	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
4-Chloro-3-methylphenol	<11	ug/L	11	50	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
4-Nitrophenol	<12	ug/L	12	50	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
Pentachlorophenol	1100	ug/L	25	85	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D
Phenol	<13	ug/L	13	50	50		07/23/2018 11:00	07/26/2018 15:52	RPN	EPA 8270D

CT LAB Sample#: 152936 Sample Description: W40

Sampled: 07/19/2018 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Nitrate Nitrogen Total	<0.12	mg/L	0.12	0.40	1			07/20/2018 13:03	TMG	EPA 9056A
Total Sulfate	7.9	mg/L	0.80	2.5	1	M		07/20/2018 13:03	TMG	EPA 9056A
Total Organic Carbon	37	mg/L	0.40	1.3	1			08/01/2018 18:34	TMG	EPA 9060A
Metals Results										
Dissolved Iron	4540	ug/L	59	200	1			07/23/2018 18:27	NAH	EPA 6010C
Dissolved Manganese	5680	ug/L	2.2	7.3	1			07/23/2018 18:27	NAH	EPA 6010C
Dissolved Mercury	<0.020	ug/L	0.020	0.066	1		07/30/2018 13:40	07/31/2018 09:22	LJF	EPA 7470A

CT LAB Sample#: 152936 Sample Description: W40

Sampled: 07/19/2018 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	4400	ug/L	40	130	100			08/01/2018 00:05	DGS	EPA 8021M
m & p-Xylene	100	ug/L	80 *	280	100			08/01/2018 00:05	DGS	EPA 8021M
Naphthalene	580	ug/L	90	290	100			08/01/2018 00:05	DGS	EPA 8021M
o-Xylene	790	ug/L	40	140	100			08/01/2018 00:05	DGS	EPA 8021M
TPH as Mineral Spirits	300000	ug/L	1700	5700	10		07/23/2018 11:00	07/26/2018 14:08	AJZ	EPA 8015
2,3,4,6-Tetrachlorophenol	900	ug/L	33	260	50	Q	07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
2,4,5-Trichlorophenol	<59	ug/L	59	260	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
2,4,6-Trichlorophenol	<54	ug/L	54	260	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
2,4-Dichlorophenol	<66	ug/L	66	260	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
2,4-Dimethylphenol	<51	ug/L	51	260	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
2,4-Dinitrophenol	<74	ug/L	74	260	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
2,6-Dichlorophenol	<54	ug/L	54	260	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
2-Chlorophenol	<61	ug/L	61	260	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
2-Methylphenol	<51	ug/L	51	260	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
2-Nitrophenol	<54	ug/L	54	260	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
3 & 4-Methylphenol	<59	ug/L	59	260	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
4,6-Dinitro-2-methylphenol	<77	ug/L	77	280	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
4-Chloro-3-methylphenol	<56	ug/L	56	260	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
4-Nitrophenol	<61	ug/L	61	260	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
Pentachlorophenol	9600	ug/L	130	430	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D
Phenol	<66	ug/L	66	260	50		07/23/2018 11:00	07/26/2018 20:01	RPN	EPA 8270D

CT LAB Sample#: 152948 Sample Description: TRIP BLANK 06

Sampled: 07/19/2018 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1		07/31/2018 12:00	12:00	DGS	EPA 8021M
m & p-Xylene	<0.80	ug/L	0.80	2.8	1		07/31/2018 12:00	12:00	DGS	EPA 8021M
Naphthalene	<0.90	ug/L	0.90	2.9	1		07/31/2018 12:00	12:00	DGS	EPA 8021M
o-Xylene	<0.40	ug/L	0.40	1.4	1		07/31/2018 12:00	12:00	DGS	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

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	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

Ice Present YES NO
Temperature 2.1
IR Gun # 22
Initials [Signature]
Date 7/19/18 Time 0945
Cooler #: 6138

Cooler Receipt Form

QEC
Quality Environmental Containers
300-255-3950 • 304-255-3900

CUSTODY SEAL
DATE 7/19/18
SIGNATURE [Signature]

TOM DUSHEK TRC ENVIRONMENTAL 125 ROSECRANS STREET WAUSAU WI 54401		50 LBS	1 OF 1
RS			
SHIP TO: SHIPPING DEPT 6083562760 CT LABS 1230 LANGE CT BARABOO WI 53913			
	WI 539 0-10 		
UPS GROUND TRACKING #: 1Z 1A3 77E 90 4186 2619			
			
BILLING: P/P DESC: Environmental Samples RETURN SERVICE			
<small>XDL 18.07.25 NV45 03.0A 07/2018</small>			

Ice Present YES NO

Temperature 2.3

IR Gun # 22

Initials TD

Date 7/20/18 Time 0945

Cooler #: 5394 5394

Cooler Receipt Form

CT LABORATORIES
1230 LANGE CT
BARABOO WI 53913

P: NORTH S: 10SET I: 77D
10W - 6000

1Z1A377E904175 2809
KUT9XUG N1LAK745JDC JUL 20 06:48:39 2018
US 4500 W10 18 03 01 7580024400

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

CUSTODY SEAL

DATE 7/20/18

SIGNATURE TD Dushek

TOM DUSHEK
TRC ENVIRONMENTAL
125 ROSECRANS STREET
WAUSAU WI 54401

50 LBS 1 OF 1

RS

SHIP TO:
SHIPPING DEPT
6083562760
CT LABS
1230 LANGE CT
BARABOO WI 53913

WI 539 0-10

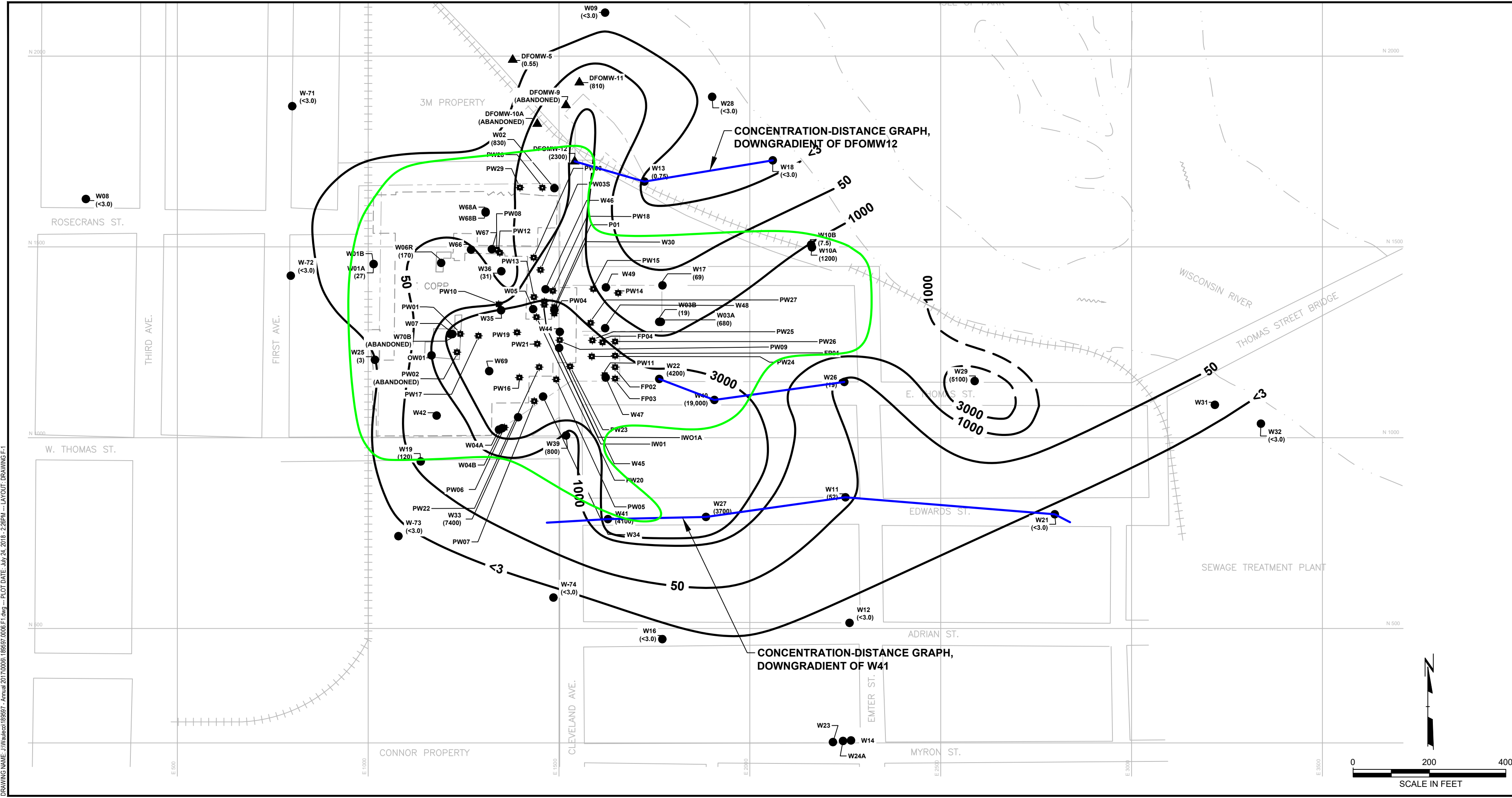
UPS GROUND
TRACKING #: 1Z 1A3 77E 90 4175 2809

BILLING: P/P
DESC: Environmental Samples
RETURN SERVICE

XOL 18.07.25 NV45 03.0A 07/2018



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 DOFMW-9 AND DOFMW-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)**

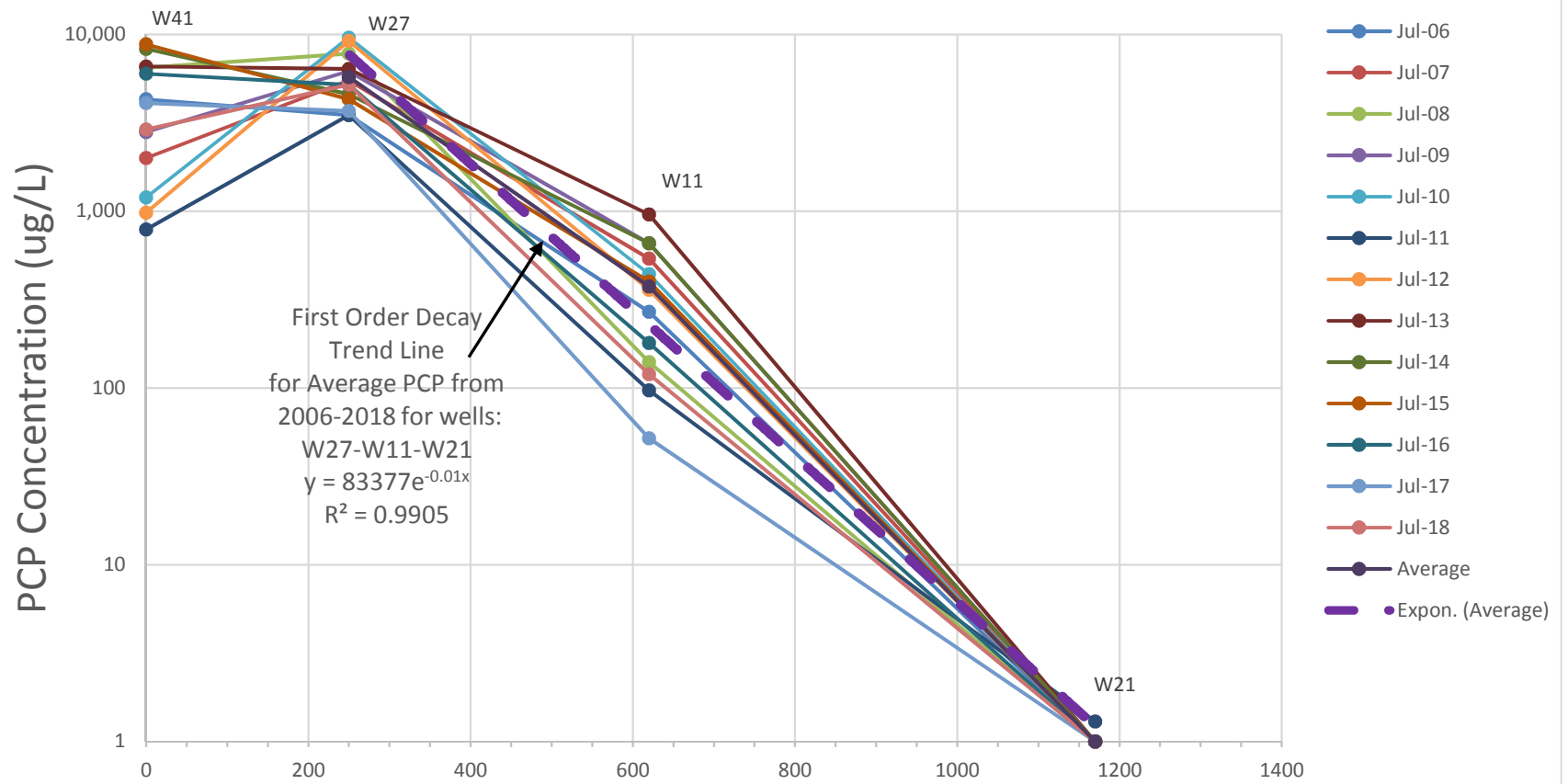
DRAWN BY: L. STORMER	PROJ NO.: 189597 - ANNUAL REPORT
CHECKED BY: K. QUINN	DRAWING E-1
APPROVED BY: B. IVERSON	
DATE: JULY 2018	

8500 TRC 708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600

FILE NO.: 189597.0006.F1.dwg

11:04 - USER: KQ - ATTACHED REFS: B:\maps\july\189597.dwg - PLOT DATE: July 24, 2018 - 2:28PM - LAYOUT: DRAWING E-1
 DRAWING NAME: J:\Wauleco\189597 - Annual 2017\0006.F1.dwg
 Version: 2017-10-21

PCP Concentration-Distance Graphs
Wells W41-W27-W11-W21

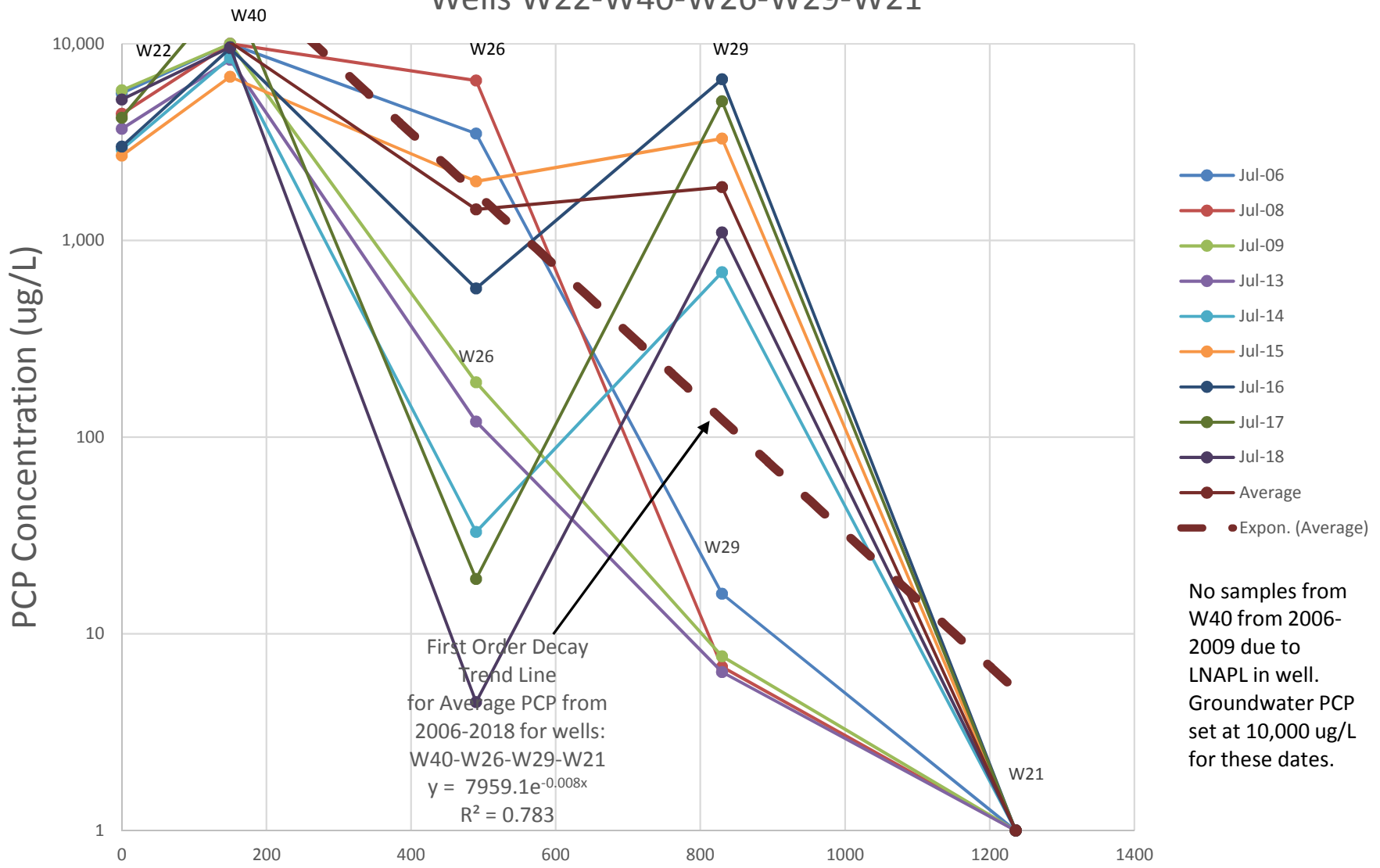


Non-detects at W21 plotted at 1 ug/L for convenience

Distance Downgradient of W41 (ft)

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

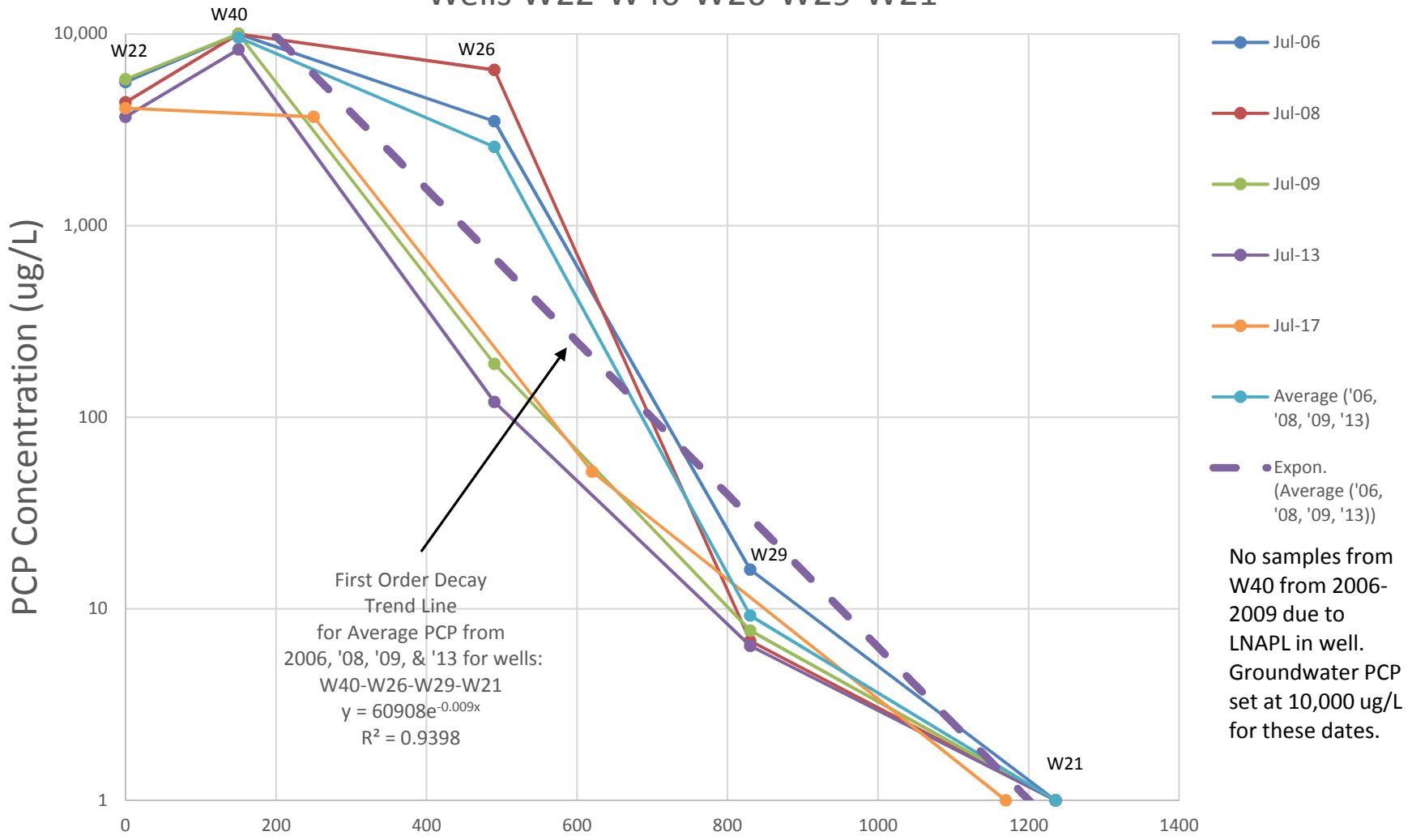
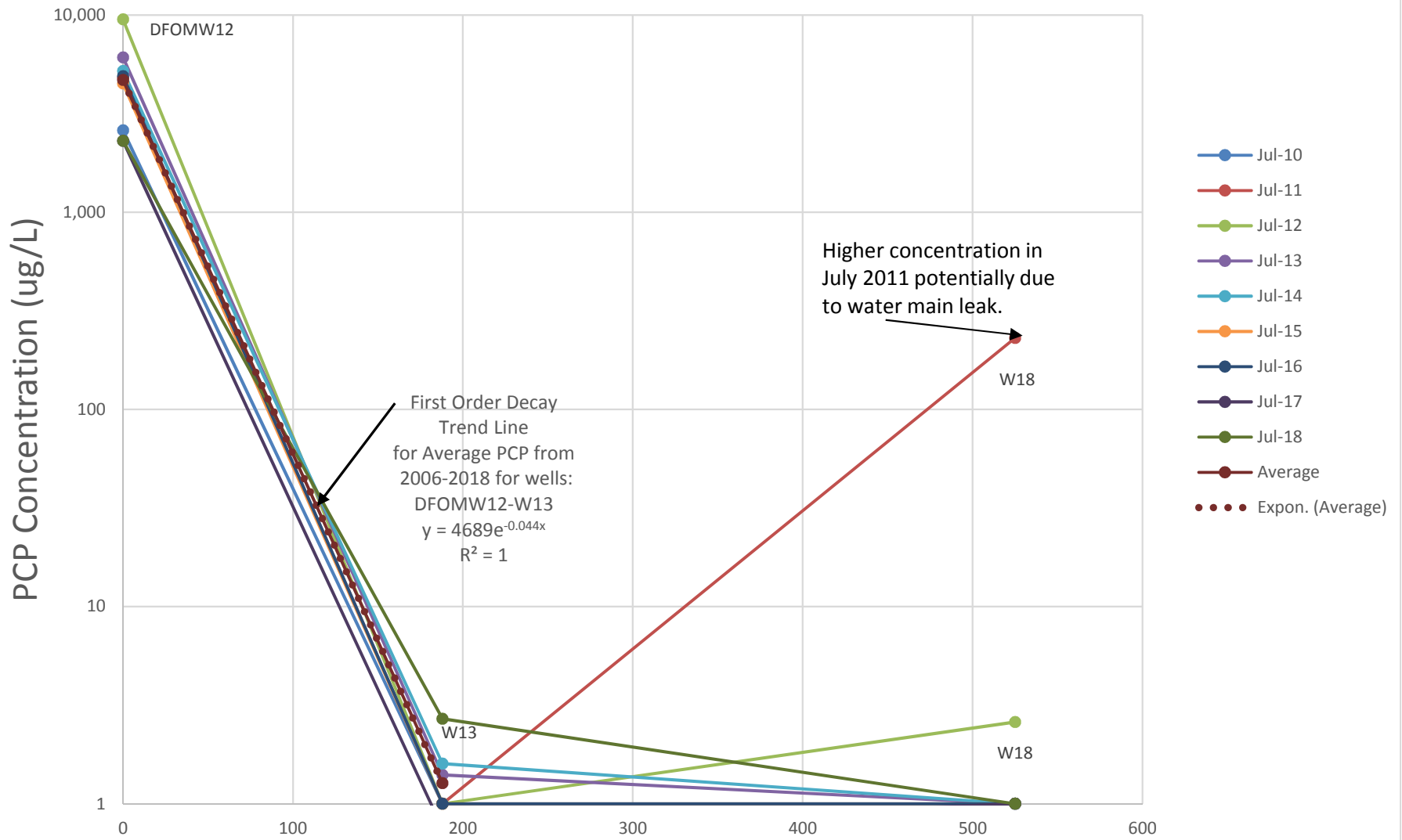


Figure E-4

Concentration-Distance Graphs Wells DFOMW12-W13-W18



Non-detects plotted at 1 ug/L for convenience

Distance Downgradient of DFOMW12(ft)

Figure E-5