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July 11, 2022

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

Subject: 2022 Second Quarterly Report - Wauleco, Inc., Wausau, Wisconsin
BRRTS #02-37-000006

Dear Mr. Thompson:

On behalf of Wauleco, Inc., TRC is submitting a copy (enclosed) of the 2022 Second Quarterly Report for the Wauleco, Inc., site in Wausau, Wisconsin.

If you have any questions or comments regarding this information, please call me at (608) 235-4963.

Sincerely,

TRC

A handwritten signature in blue ink, appearing to read "Bruce Iverson".

Bruce Iverson
Project Manager

Attachments: 2022 Second Quarterly Report

cc: Evan Schreiner – Wauleco, Inc. (2 copies)
David Crass – Michael Best & Friedrich, LLP (electronic copy only)
Tom Dushek – TRC Wauleco (1 copy)
Ken Quinn – TRC (1 copy)

**Wauleco, Inc. - Wausau, Wisconsin
Quarterly Report
Submitted July 2022**

Summary of 2022 Second Quarter Activities

Groundwater Extraction and Treatment System Operation

Tables 1a, b, and c summarize the extraction and treatment system performance data for this reporting period. The results of the water discharged to the municipal sewer during the second quarter of 2022 are summarized as follows:

- Pentachlorophenol (PCP) screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sanitary sewer, averaged 1.85 µg/L in April, 1.77 µg/L in May, and 1.30 µg/L in June.
- Laboratory results for the sampling event conducted this quarter are included in Tables 1a, b, and c for each month. The laboratory results for PCP in the system effluent was <3.0 µg/L on April 13, <3.0 µg/L on May 18, and <3.0 µg/L on June 15, 2022.
- Both laboratory and on-site screening results indicate that the effluent PCP concentrations were below the monthly average permit level of 150 µg/L and the daily maximum concentration of 300 µg/L.
- Total treatment system efficiency (including carbon polishing units) removed more than 99 percent of the PCP between the influent and the effluent.
- The groundwater treatment system was shutdown on March 17 and returned to full operation on April 5 after replacement of the FBR header pipes.

On-site screening PCP influent concentrations ranged from 3,061 µg/L to 6,205 µg/L during the quarter (Tables 1a, b, and c). PCP influent and effluent concentrations in the fluidized bed reactor (FBR) are presented graphically, both as individual data points and as moving averages, on Figure 1. FBR results included the following:

- As shown on Figure 1 and in Tables 1a, b, and c, PCP concentrations in the FBR influent fluctuated during the quarter, and generally remain within normal concentrations.
- The average PCP removal efficiency for the biological portion (*i.e.*, FBR influent to the fixed film reactor [FFR] effluent) of the system during this quarter is compared to the following:

Month	Average PCP Removal (%)	Previous 12 Month Average (%)	Average 1 Year Ago (%)
April 2022	71	74	79
May 2022	61	74	81
June 2022	72	79	80

- The dissolved oxygen concentration in the influent to the FBR averaged 3.8 mg/L in April, 3.1 mg/L in May, and 3.0 mg/L in June 2022.

Laboratory results for the mercury analysis of the system effluent samples are included in Tables 1a, b, and c. The mercury concentration in the system effluent sample (discharged to the sanitary sewer) was 0.048 µg/L on April 13, 0.02 µg/L on May 18, and 0.034 µg/L on June 15, which are below the permit discharge limit of 1.6 µg/L. The mass loading for mercury in April was calculated at 0.0000127 lb/24 hours, in May was calculated at 0.00000536 lb/24 hours, and June was calculated at 0.00000873 lb/24 hours which is below the permit discharge limit of 0.00048 lb/24 hours.

The daily groundwater flow of the effluent to the Wausau Wastewater Treatment Plant averaged 22.00 gpm for the days it was in operation in April, 22.32 gpm for May, and 21.37 gpm for June 2022 (Tables 2a, b, and c). Since June, 2012 the pumping rate has been operated at approximately 22 gpm.

Figure 2 shows the average groundwater flow extracted and the average daily flow discharged to the Wausau Wastewater Treatment Plant.

Groundwater Monitoring

A complete round of water table elevations for the month of April 2022 are summarized in Table 3.

The product thickness data for April 2022 are summarized in Table 4. Measurements show minimal product present in April.

Water table elevations and product thickness data for May and June, 2022 for eleven select monitoring wells being measured in association with the City of Wausau Wastewater Treatment Plant dewatering are also summarized in Tables 3 and 4, respectively. Measurements show no product present in May and June for these wells.

Enclosures: Tables 1a, b, and c – Above Ground Treatment System Data
Tables 2a, b, and c – Treatment System Flows
Table 3 – Groundwater Elevation Data
Table 4 – Free Product Measurements
Figure 1 – FBR Influent and Effluent PCP Concentrations
Figure 2 – Average Groundwater Extraction Rates and Water Level Deviation Versus Time

**TABLE 1a
APRIL 2022**

**Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin**

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Biological Oxygen Demand	mg/L	4/13/2022	8.1	4.3				<	
Chemical Oxygen Demand	mg/L	4/13/2022	30	27				<	
Chloride	mg/L	4/13/2022	190	190				200	
Dissolved Oxygen	mg/L	4/7/2022	4.6	1.4	6.6				
	mg/L	4/13/2022	4.8	1.7	6.5				
	mg/L	4/20/2022	2.9	1.3	5.5				
	mg/L	4/28/2022	3	1.4	5.3				
Nitrogen, Ammonia	mg/L	4/7/2022	1	0.6	0.5				
	mg/L	4/13/2022	0.6	0.4	0.4				
	mg/L	4/20/2022	0.5	0.5	0.4				
	mg/L	4/28/2022	0.6	0.3	0.3				
Nitrogen, Nitrate	mg/L	4/7/2022	<	<	<				
	mg/L	4/13/2022	<	<	<				
	mg/L	4/20/2022	<	<	<				
	mg/L	4/28/2022	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	4/13/2022	<	<			<		
Nitrogen, Total Kjeldahl	mg/L	4/13/2022	<	<			<		
Pentachlorophenol-Screen	µg/L	4/1/2022							
	µg/L	4/2/2022							
	µg/L	4/3/2022							
	µg/L	4/4/2022							
	µg/L	4/5/2022						4	
	µg/L	4/6/2022						4	
	µg/L	4/7/2022	4977	1098	1067			2	
	µg/L	4/8/2022						2	
	µg/L	4/9/2022						2	
	µg/L	4/10/2022						2	
	µg/L	4/11/2022						2	
	µg/L	4/12/2022						1	
	µg/L	4/13/2022	3362	1340	1201		24	1	
	µg/L	4/14/2022						2	
	µg/L	4/15/2022						2	
	µg/L	4/16/2022						2	
	µg/L	4/17/2022						2	
	µg/L	4/18/2022						2	
	µg/L	4/19/2022						1	
	µg/L	4/20/2022	3061	881	943			1	
	µg/L	4/21/2022						2	
	µg/L	4/22/2022						2	
	µg/L	4/23/2022						2	
	µg/L	4/24/2022						2	
	µg/L	4/25/2022						2	
	µg/L	4/26/2022						1	
	µg/L	4/27/2022	4982	1477	1408			1	
	µg/L	4/28/2022						1	

TABLE 1a
APRIL 2022

Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR</u> <u>Influent</u>	<u>FBR</u> <u>Effluent</u>	<u>FFR</u> <u>Effluent</u>	<u>Bag Filter</u> <u>Effluent</u>	<u>Filters1+2</u> <u>Effluent</u>	<u>System</u> <u>Effluent</u>	<u>System</u> <u>Eff Dup</u>
Pentachlorophenol-Screen	µg/L	4/29/2022						2	
	µg/L	4/30/2022						1	
pH	S.U.	4/7/2022	6.65	6.6	6.65				
	S.U.	4/13/2022	6.5	6.5	6.65				
	S.U.	4/20/2022	6.7	6.55	6.65				
	S.U.	4/28/2022	6.65	6.5	6.65				
Phosphorus, Ortho	mg/L	4/13/2022	<	<				<	
Phosphorus, Phosphate	mg/L	4/7/2022	0.3	0.2	0.3				
	mg/L	4/13/2022	0.3	0.1	0.1				
	mg/L	4/20/2022	0.6	0.2	0.2				
	mg/L	4/28/2022	0.6	0.2	0.3				
Solids, Total Suspended	mg/L	4/13/2022	15	6.2				2.0	
Mercury	µg/L	4/13/2022	0.17					0.048	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	4/13/2022	180		60		<	<	<
2,4,5-Trichlorophenol	µg/L	4/13/2022	<		<		<	<	<
2,4,6-Trichlorophenol	µg/L	4/13/2022	<		<		<	<	<
2,4-Dichlorophenol	µg/L	4/13/2022	<		<		<	<	<
2,4-Dimethylphenol	µg/L	4/13/2022	<		<		<	<	<
2,4-Dinitrophenol	µg/L	4/13/2022	<		<		<	<	<
2,6-Dichlorophenol	µg/L	4/13/2022	<		<		<	<	<
2-Chlorophenol	µg/L	4/13/2022	<		<		<	<	<
2-Methylphenol	µg/L	4/13/2022	<		<		<	<	<
2-Nitrophenol	µg/L	4/13/2022	<		<		<	<	<
3&4-Methylphenol	µg/L	4/13/2022	<		<		<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	4/13/2022	<		<		<	<	<
4-Chloro-3-Methylphenol	µg/L	4/13/2022	<		<		<	<	<
4-Nitrophenol	µg/L	4/13/2022	<		<		<	<	<
Pentachlorophenol	µg/L	4/13/2022	2400		650		<	<	<
Phenol	µg/L	4/13/2022	<		<		<	<	<

**TABLE 1b
MAY 2022**

**Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin**

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Biological Oxygen Demand	mg/L	5/18/2022	5.3	<				<	
Chemical Oxygen Demand	mg/L	5/18/2022	51	37				27	
Chloride	mg/L	5/18/2022	330	330				320	
Dissolved Oxygen	mg/L	5/5/2022	3	1.2	5.3				
	mg/L	5/12/2022	3.2	1.2	5.4				
	mg/L	5/18/2022	3.3	1.2	5.6				
	mg/L	5/25/2022	3	1.2	5.5				
Nitrogen, Ammonia	mg/L	5/5/2022	1	0.4	0.4				
	mg/L	5/12/2022	0.4	0.3	0.3				
	mg/L	5/18/2022	0.5	0.4	0.4				
	mg/L	5/25/2022	0.3	0.2	0.3				
Nitrogen, Nitrate	mg/L	5/5/2022	<	<	<				
	mg/L	5/12/2022	<	<	<				
	mg/L	5/18/2022	<	<	<				
	mg/L	5/25/2022	<	<	<				
Nitrogen, Total Kjeldahl	mg/L	5/18/2022	<	<				<	
Pentachlorophenol-Screen	µg/L	5/1/2022						1	
	µg/L	5/2/2022						1	
	µg/L	5/3/2022						1	
	µg/L	5/4/2022						1	
	µg/L	5/5/2022	3312	1181	1180			1	
	µg/L	5/6/2022						3	
	µg/L	5/7/2022						3	
	µg/L	5/8/2022						3	
	µg/L	5/9/2022						3	
	µg/L	5/10/2022						2	
	µg/L	5/11/2022						2	
	µg/L	5/12/2022	6034	1599	1974			2	
	µg/L	5/13/2022						2	
	µg/L	5/14/2022						2	
	µg/L	5/15/2022						2	
	µg/L	5/16/2022						2	
	µg/L	5/17/2022						2	
	µg/L	5/18/2022	4659	1946	2141		188	1	
	µg/L	5/19/2022						2	
	µg/L	5/20/2022						1	
	µg/L	5/21/2022						1	
	µg/L	5/22/2022						1	
	µg/L	5/23/2022						2	
µg/L	5/24/2022						2		
µg/L	5/25/2022	5159	1908	2133			2		
µg/L	5/26/2022						2		
µg/L	5/27/2022						1		

**TABLE 1b
MAY 2022**

**Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin**

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Pentachlorophenol-Screen	µg/L	5/28/2022						2	
	µg/L	5/29/2022						2	
	µg/L	5/30/2022						2	
	µg/L	5/31/2022						1	
pH	S.U.	5/5/2022	6.65	6.55	6.6				
	S.U.	5/12/2022	6.6	6.6	6.65				
	S.U.	5/18/2022	6.55	6.55	6.6				
	S.U.	5/25/2022	6.6	6.6	6.6				
Phosphorus, Ortho	mg/L	5/18/2022	<	<				<	
Phosphorus, Phosphate	mg/L	5/5/2022	0.8	0.2	0.3				
	mg/L	5/12/2022	0.5	0.3	0.3				
	mg/L	5/18/2022	0.5	0.3	0.3				
	mg/L	5/25/2022	0.4	0.3	0.3				
Solids, Total Suspended	mg/L	5/18/2022	17	11				3.2	
Mercury	µg/L	5/18/2022						0.020	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	5/18/2022	240	82	87			<	<
2,4,5-Trichlorophenol	µg/L	5/18/2022	<	<	<			<	<
2,4,6-Trichlorophenol	µg/L	5/18/2022	<	<	<			<	<
2,4-Dichlorophenol	µg/L	5/18/2022	<	<	<			<	<
2,4-Dimethylphenol	µg/L	5/18/2022	<	<	<			<	<
2,4-Dinitrophenol	µg/L	5/18/2022	<	<	<			<	<
2,6-Dichlorophenol	µg/L	5/18/2022	<	<	<			<	<
2-Chlorophenol	µg/L	5/18/2022	<	<	<			<	<
2-Methylphenol	µg/L	5/18/2022	<	<	<			<	<
2-Nitrophenol	µg/L	5/18/2022	<	<	<			<	<
3&4-Methylphenol	µg/L	5/18/2022	<	<	<			<	<
4,6-Dinitro-2-Methylphenol	µg/L	5/18/2022	<	<	<			<	<
4-Chloro-3-Methylphenol	µg/L	5/18/2022	<	<	<			<	<
4-Nitrophenol	µg/L	5/18/2022	<	<	<			<	<
Pentachlorophenol	µg/L	5/18/2022	2800	880	870			<	<
Phenol	µg/L	5/18/2022	<	<	<			<	<

**TABLE 1c
JUNE 2022**

**Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin**

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Biological Oxygen Demand	mg/L	6/15/2022	6.1	4.1				<	
Chemical Oxygen Demand	mg/L	6/15/2022	49	42				42	
Chloride	mg/L	6/15/2022	430	420				430	
Dissolved Oxygen	mg/L	6/1/2022	2.9	1.2	5.4				
	mg/L	6/8/2022	3	1.2	5.4				
	mg/L	6/15/2022	3.1	1.2	5.5				
	mg/L	6/21/2022	3.3	1	5.5				
	mg/L	6/30/2022	2.8	1.2	5.4				
Nitrogen, Ammonia	mg/L	6/1/2022	0.4	0.4	0.4				
	mg/L	6/8/2022	0.5	0.4	0.3				
	mg/L	6/15/2022	0.4	0.3	0.3				
	mg/L	6/21/2022	0.3	0.3	0.3				
	mg/L	6/30/2022	0.3	0.2	0.2				
Nitrogen, Nitrate	mg/L	6/1/2022	<	<	<				
	mg/L	6/8/2022	<	<	<				
	mg/L	6/15/2022	<	<	<				
	mg/L	6/21/2022	<	<	<				
	mg/L	6/30/2022	<	<	<				
Nitrogen, Total Kjeldahl	mg/L	6/15/2022	0.45	1.5				<	
Pentachlorophenol-Screen	µg/L	6/1/2022	5012	1786	1694				1
	µg/L	6/2/2022							1
	µg/L	6/3/2022							1
	µg/L	6/4/2022							1
	µg/L	6/5/2022							1
	µg/L	6/6/2022							1
	µg/L	6/7/2022							1
	µg/L	6/8/2022	6205	1663	1556				1
	µg/L	6/9/2022							1
	µg/L	6/10/2022							1
	µg/L	6/11/2022							1
	µg/L	6/12/2022							1
	µg/L	6/13/2022							1
	µg/L	6/14/2022							5
	µg/L	6/15/2022	4310	1523	1326		389		1
	µg/L	6/16/2022							2
	µg/L	6/17/2022							1
	µg/L	6/18/2022							2
	µg/L	6/19/2022							2
	µg/L	6/20/2022							2
	µg/L	6/21/2022	4297	1325	1224				2
	µg/L	6/22/2022							1
	µg/L	6/23/2022							1
	µg/L	6/24/2022							1
	µg/L	6/25/2022							1

**TABLE 1c
JUNE 2022**

**Above Ground Treatment System Data
Wauleco, Inc.
Wausau, Wisconsin**

<u>Parameter</u>	<u>UNIT</u>	<u>DATE</u>	<u>FBR Influent</u>	<u>FBR Effluent</u>	<u>FFR Effluent</u>	<u>Bag Filter Effluent</u>	<u>Filters1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Pentachlorophenol-Screen	µg/L	6/26/2022							1
	µg/L	6/27/2022							1
	µg/L	6/28/2022							1
	µg/L	6/29/2022							1
	µg/L	6/30/2022	3486	762	822				1
pH	S.U.	6/1/2022	6.6	6.6	6.6				
	S.U.	6/8/2022	6.65	6.65	6.65				
	S.U.	6/15/2022	6.7	6.7	6.7				
	S.U.	6/21/2022	6.7	6.65	6.7				
	S.U.	6/30/2022	6.65	6.65	6.65				
Phosphorus, Ortho	mg/L	6/15/2022	<	<				<	
Phosphorus, Phosphate	mg/L	6/1/2022	0.4	0.3	0.3				
	mg/L	6/8/2022	0.4	0.2	0.3				
	mg/L	6/15/2022	0.3	0.2	0.3				
	mg/L	6/21/2022	0.4	0.2	0.3				
	mg/L	6/30/2022	0.3	0.3	0.3				
Solids, Total Suspended	mg/L	6/15/2022	27	8.4				<	
Mercury	µg/L	6/15/2022						0.034	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	6/15/2022	200		80			<	<
2,4,5-Trichlorophenol	µg/L	6/15/2022	<		27			<	<
2,4,6-Trichlorophenol	µg/L	6/15/2022	<		<			<	<
2,4-Dichlorophenol	µg/L	6/15/2022	<		<			<	<
2,4-Dimethylphenol	µg/L	6/15/2022	<		<			<	<
2,4-Dinitrophenol	µg/L	6/15/2022	<		<			<	<
2,6-Dichlorophenol	µg/L	6/15/2022	<		<			<	<
2-Chlorophenol	µg/L	6/15/2022	<		<			<	<
2-Methylphenol	µg/L	6/15/2022	<		<			<	<
2-Nitrophenol	µg/L	6/15/2022	<		<			<	<
3&4-Methylphenol	µg/L	6/15/2022	<		<			<	<
4,6-Dinitro-2-Methylphenol	µg/L	6/15/2022	<		<			<	<
4-Chloro-3-Methylphenol	µg/L	6/15/2022	<		<			<	<
4-Nitrophenol	µg/L	6/15/2022	<		<			<	<
Pentachlorophenol	µg/L	6/15/2022	2700		890			<	<
Phenol	µg/L	6/15/2022	<		<			<	<

TABLE 2a
APRIL 2022

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

<u>Date</u>	<u>Influent Groundwater Flow Rate ⁽¹⁾⁽³⁾ (gpm)</u>	<u>POTW Discharge Flow Rate ⁽¹⁾⁽⁴⁾ (gpm)</u>	<u>POTW Totalized Discharge ⁽³⁾ (gal)</u>
4/1/2022	0.00	0.00	108617905
4/2/2022	0.00	0.00	108617905
4/3/2022	0.00	0.00	108617905
4/4/2022	0.00	0.00	108617905
4/5/2022	0.00	0.00	108617905
4/6/2022	19.30	16.77	108617905
4/7/2022	21.95	22.33	108650060
4/8/2022	21.88	22.13	108681928
4/9/2022	21.57	22.06	108713690
4/10/2022	20.68	21.86	108745174
4/11/2022	21.45	21.82	108776589
4/12/2022	21.28	21.77	108807933
4/13/2022	21.26	21.84	108839379
4/14/2022	21.30	21.50	108870334
4/15/2022	21.16	21.49	108901286
4/16/2022	21.16	21.37	108932065
4/17/2022	21.19	21.28	108962705
4/18/2022	21.03	21.17	108993187
4/19/2022	21.23	21.17	109023665
4/20/2022	22.46	22.36	109055867
4/21/2022	23.28	23.04	109089051
4/22/2022	23.44	22.86	109121963
4/23/2022	23.94	23.37	109155618
4/24/2022	23.95	23.10	109188884
4/25/2022	24.27	23.06	109222097
4/26/2022	24.18	22.64	109254697
4/27/2022	24.37	22.74	109287440
4/28/2022	24.31	22.86	109320355
4/29/2022	24.02	22.77	109353143
4/30/2022	24.12	22.67	109385793
Average For The Month	18.63	18.33	
Average For The Month While Running	22.35	22.00	
Total ⁽²⁾ :			792,039

Footnotes:

- ⁽¹⁾ Influent and POTW discharge flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters. The influent groundwater flow rate is calculated by adding the instantaneous flow rate from each pumping well (i.e., 16 meters). The POTW discharge flow rate is recorded directly from the effluent meter.
- ⁽²⁾ Total is the cumulative gallons discharged to the POTW during the reporting period. This number is calculated by subtracting the total of the previous month's last day from the total of the current month's last day, see previous month's report for the number used. The total from the first day of the current month is not used in the calculation.
- ⁽³⁾ Totalizers were reset to 0 on August 23, 2012 during the system shutdown for maintenance.
- ⁽⁴⁾ A new effluent meter was installed in April, 2017 during the system shutdown for maintenance.

TABLE 2b
MAY 2022

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

<u>Date</u>	<u>Influent Groundwater Flow Rate ^{(1) (3)} (gpm)</u>	<u>POTW Discharge Flow Rate ^{(1) (4)} (gpm)</u>	<u>POTW Totalized Discharge ⁽³⁾ (gal)</u>
5/1/2022	24.15	22.52	109418228
5/2/2022	23.92	22.44	109450537
5/3/2022	24.02	22.45	109482861
5/4/2022	24.41	22.74	109515602
5/5/2022	24.26	22.62	109548178
5/6/2022	24.29	22.63	109580759
5/7/2022	24.38	22.56	109613246
5/8/2022	24.22	22.41	109645511
5/9/2022	24.24	22.40	109677760
5/10/2022	24.20	22.45	109710095
5/11/2022	24.29	22.56	109742585
5/12/2022	24.31	22.57	109775079
5/13/2022	24.22	22.50	109807473
5/14/2022	24.07	22.60	109840015
5/15/2022	24.21	22.73	109872752
5/16/2022	24.23	22.68	109905406
5/17/2022	24.05	22.68	109938070
5/18/2022	23.89	22.56	109970557
5/19/2022	23.91	22.52	110002982
5/20/2022	23.91	22.61	110035543
5/21/2022	23.48	22.25	110067578
5/22/2022	23.41	22.09	110099384
5/23/2022	23.37	22.04	110131115
5/24/2022	23.40	21.79	110162490
5/25/2022	23.30	21.93	110194074
5/26/2022	23.31	21.89	110225599
5/27/2022	23.27	21.84	110257053
5/28/2022	23.25	21.82	110288480
5/29/2022	23.24	21.63	110319633
5/30/2022	23.16	21.62	110350766
5/31/2022	23.13	21.66	110381955
Average For The Month	23.85	22.32	
Total ⁽²⁾ :			996,162

Footnotes:

- (1) Influent and POTW discharge flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters. The influent groundwater flow rate is calculated by adding the instantaneous flow rate from each pumping well (i.e., 16 meters). The POTW discharge flow rate is recorded directly from the effluent meter.
- (2) Total is the cumulative gallons discharged to the POTW during the reporting period. This number is calculated by subtracting the total of the previous month's last day from the total of the current month's last day, see previous month's report for the number used. The total from the first day of the current month is not used in the calculation.
- (3) Totalizers were reset to 0 on August 23, 2012 during the system shutdown for maintenance.
- (4) A new effluent meter was installed in April, 2017 during the system shutdown for maintenance.

**TABLE 2c
JUNE 2022**

**Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin**

<u>Date</u>	<u>Influent Groundwater Flow Rate ^{(1) (3)} (gpm)</u>	<u>POTW Discharge Flow Rate ^{(1) (4) (5)} (gpm)</u>	<u>POTW Totalized Discharge ⁽³⁾ (gal)</u>
6/1/2022	23.07	21.63	110413099
6/2/2022	23.18	21.64	110444256
6/3/2022	23.24	21.49	110475196
6/4/2022	23.25	21.59	110506279
6/5/2022	23.31	21.45	110537174
6/6/2022	23.10	21.30	110567841
6/7/2022	23.11	21.12	110598254
6/8/2022	23.18	21.66	110629447
6/9/2022	23.05	21.35	110660189
6/10/2022	23.11	21.33	110690910
6/11/2022	23.32	21.59	110721993
6/12/2022	23.63	21.35	110752743
6/13/2022	23.55	21.28	110783389
6/14/2022	23.49	21.25	110813995
6/15/2022	23.58	21.29	110844650
6/16/2022	23.62	21.29	110875307
6/17/2022	23.63	21.22	110905866
6/18/2022	23.60	21.35	110936605
6/19/2022	23.57	21.30	110967272
6/20/2022	23.72	21.17	110997762
6/21/2022	23.02	20.55	111027348
6/22/2022	24.43	21.80	111058741
6/23/2022	24.07	21.85	111090201
6/24/2022	23.79	21.20	111120722
6/25/2022	23.76	21.12	111151139
6/26/2022	24.13	21.31	111181830
6/27/2022	24.47	21.31	111212518
6/28/2022	24.65	21.47	111243430
6/29/2022	24.73	21.37	111274208
6/30/2022	24.50	21.59	111305293
Average For The Month	23.63	21.37	
Total ⁽²⁾ :			923,338

Footnotes:

- (1) Influent and POTW discharge flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters. The influent groundwater flow rate is calculated by adding the instantaneous flow rate from each pumping well (i.e., 16 meters). The POTW discharge flow rate is recorded directly from the effluent meter.
- (2) Total is the cumulative gallons discharged to the POTW during the reporting period. This number is calculated by subtracting the total of the previous month's last day from the total of the current month's last day, see previous month's report for the number used. The total from the first day of the current month is not used in the calculation.
- (3) Totalizers were reset to 0 on August 23, 2012 during the system shutdown for maintenance.
- (4) A new effluent meter was installed in April, 2017 during the system shutdown for maintenance.
- (5) The reed switch was replaced in early December, 2021.

TABLE 3

**Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin**

Well	April 11, 2022 (ft msl)	May 04, 2022 (ft msl)	June 01, 2022 (ft msl)
PW01	1162.92	----	----
PW02	Abandoned	Abandoned	Abandoned
PW03	1162.96	----	----
PW3S	1162.52	----	----
PW04	1162.42	----	----
PW05	1162.37	----	----
PW06	1162.57	----	----
PW07	1162.5	----	----
PW08	1163.19	----	----
PW09I	----	----	----
PW09O	1162.75	----	----
PW10	1162.54	----	----
PW11	1161.5	----	----
PW12	1163.06	----	----
PW13	1162.45	----	----
PW14	1162.71	----	----
PW15	1162.75	----	----
PW16	1161.07	----	----
PW17	1158.8	----	----
PW18	1162.43	----	----
PW19	1162.47	----	----
PW20	1160.99	----	----
PW21	1161.66	----	----
PW22	1162.42	----	----
PW23	1162.35	----	----
PW24	1160.33	----	----
PW25	1158.25	----	----
PW26	1160.41	----	----
PW27	1159.35	----	----
PW28	1163.01	----	----
PW29	1163.03	----	----
P01	1162.42	----	----
OW01	1164.1	----	----
W01A	Abandoned	Abandoned	Abandoned
W01B	Abandoned	Abandoned	Abandoned
W02	1162.72	----	----
W03A	1162.4	----	----
W03B	1162.32	----	----
W04A	1162.65	----	----
W04B	1162.57	----	----
W05	1162.43	----	----
W06R	1163.12	----	----
W07	1162.93	----	----
W08	1169.88	----	----
W09	1162.74	----	----
W10A	1161.9	1161.93	1161.39
W10B	1161.79	----	----
W11	1161.48	1161.44	1161.15
W12	1160.91	1160.87	1160.66
W13	1162.7	----	----
W14	1161.23	1161.09	1160.88
W16	1162.35	1162.58	1162.34
W17	1162.76	----	----
W18	1162	----	----
W19	Abandoned	Abandoned	Abandoned

TABLE 3 (continued)

Groundwater Elevation Data
 Wauleco, Inc.
 Wausau, Wisconsin

Well	April 11, 2022 (ft msl)	May 04, 2022 (ft msl)	June 01, 2022 (ft msl)
W21	1161.36	1161.27	1160.92
W22	1162.13	1162.33	1162.10
W23	1161.31	-----	-----
W24A	1161.29	-----	-----
W25	1163.16	-----	-----
W26/W26R	1161.8	1161.77	1161.35
W27	1162	1162.26	1162.00
W28	1162.04	-----	-----
W29/W29R	1161.6	1161.51	1161.21
W30	1162.41	-----	-----
W31	1161.53	-----	-----
W32	1161.55	1161.52	1161.02
W33	1162.56	-----	-----
W34	1162.43	-----	-----
W35	1162.52	-----	-----
W36	1162.81	-----	-----
W39	Abandoned	Abandoned	Abandoned
W40/W40R	1162.03	-----	-----
W41	1162.49	-----	-----
W42	1162.78	-----	-----
W44	1162.39	-----	-----
W45	1163.13	-----	-----
W46	1162.24	-----	-----
W47	1161.66	-----	-----
W48	1162.18	-----	-----
W49	1162.85	-----	-----
W66	1163.1	-----	-----
W67	1163.08	-----	-----
W68A	1163.06	-----	-----
W68B	1163.05	-----	-----
W69	1162.53	-----	-----
W70B	Abandoned	Abandoned	Abandoned
River	-----	-----	-----
IW01	1162.43	-----	-----
IW01A	1162.43	-----	-----
FP01	1161.08	-----	-----
FP02	1161.10	-----	-----
FP03	1159.58	-----	-----
FP04	1161.32	-----	-----
3M Basin	Water in both Basins	-----	-----
DFOWM 5	-----	-----	-----
DFOWM 9	Abandoned	Abandoned	Abandoned
DFOWM 10A	Abandoned	Abandoned	Abandoned
DFOWM 11	-----	-----	-----
DFOWM 12	-----	-----	-----
W71	1164.38	-----	-----
W72	1163.33	-----	-----
W73	1162.76	-----	-----
W74	1162.53	-----	-----

Notes:

1. ft msl = feet mean sea level
2. PW09O denotes the outer well and PW09I denotes the inner well
3. ----- = Well not measured
4. Groundwater elevations have been adjusted for product thickness.
5. Top of casing elevations were resurveyed for the on-site wells on December 4, 2009 . Use of the new data began in January 2010.

Table 4

Free Product Measurements
 Wauleco, Inc.
 Wausau, Wisconsin

Well	April 11, 2022 (ft)	May 04, 2022 (ft msl)	June 01, 2022 (ft msl)
PW01	0.00	----	----
PW02	Abandoned	Abandoned	Abandoned
PW03	0.00	----	----
PW3S	0.00	----	----
PW04	0.00	----	----
PW05	0.00	----	----
PW06	0.00	----	----
PW07	0.00	----	----
PW08	0.00	----	----
PW09I	----	----	----
PW09O	0.00	----	----
PW10	0.00	----	----
PW11	0.00	----	----
PW12	0.00	----	----
PW13	0.00	----	----
PW14	0.00	----	----
PW15	0.00	----	----
PW16	0.00	----	----
PW17	0.00	----	----
PW18	0.00	----	----
PW19	0.00	----	----
PW20	0.00	----	----
PW21	0.00	----	----
PW22	0.00	----	----
PW23	0.00	----	----
PW24	0.00	----	----
PW25	0.00	----	----
PW26	0.00	----	----
PW27	0.00	----	----
PW28	0.00	----	----
PW29	0.00	----	----
P01	0.00	----	----
OW01	0.00	----	----
W01A	Abandoned	Abandoned	Abandoned
W01B	Abandoned	Abandoned	Abandoned
W02	0.00	----	----
W03A	0.00	----	----
W03B	0.00	----	----
W04A	0.00	----	----
W04B	0.00	----	----
W05	0.00	----	----
W06R	0.00	----	----
W07	0.00	----	----
W08	0.00	----	----
W09	0.00	----	----
W10A	0.00	0.00	0.00
W10B	0.00	----	----
W11	0.00	0.00	0.00
W12	0.00	0.00	0.00
W13	0.00	----	----
W14	0.00	0.00	0.00
W16	0.00	0.00	0.00
W17	0.00	----	----

Free Product Measurements
 Wauleco, Inc.
 Wausau, Wisconsin

Well	April 11, 2022 (ft)	May 04, 2022 (ft msl)	June 01, 2022 (ft msl)
W18	0.00	----	----
W19	Abandoned	Abandoned	Abandoned
W21	0.00	0.00	0.00
W22	0.00	0.00	0.00
W23	0.00	----	----
W24A	0.00	----	----
W25	0.00	----	----
W26/W26R	0.00	0.00	0.00
W27	0.00	0.00	0.00
W28	0.00	----	----
W29/W29R	0.00	0.00	0.00
W30	0.00	----	----
W31	0.00	----	----
W32	0.00	0.00	0.00
W33	0.00	----	----
W34	0.00	----	----
W35	0.00	----	----
W36	0.00	----	----
W39	Abandoned	Abandoned	Abandoned
W40/W40R	0.10	----	----
W41	0.00	----	----
W42	0.00	----	----
W44	0.00	----	----
W45	0.00	----	----
W46	0.00	----	----
W47	0.00	----	----
W48	0.00	----	----
W49	0.00	----	----
W66	0.00	----	----
W67	0.00	----	----
W68A	0.00	----	----
W68B	0.00	----	----
W69	0.00	----	----
W70B	Abandoned	Abandoned	Abandoned
River	----	----	----
IW01	0.00	----	----
IW01A	0.00	----	----
FP01	0.00	----	----
FP02	0.00	----	----
FP03	0.00	----	----
FP04	0.00	----	----
3M Basin	----	----	----
DFOWM 5	----	----	----
DFOWM 9	Abandoned	Abandoned	Abandoned
DFOWM 10A	Abandoned	Abandoned	Abandoned
DFOWM 11	----	----	----
DFOWM 12	----	----	----
W71	----	----	----
W72	0.00	----	----
W73	0.00	----	----
W74	0.00	----	----

Notes:

1. PW09O denotes the outer well and PW09I denotes the inner well
2. ---- = Well not measured

FIGURE 1
FBR Influent and Effluent PCP Concentrations
Wauleco, Inc.
Wausau, WI

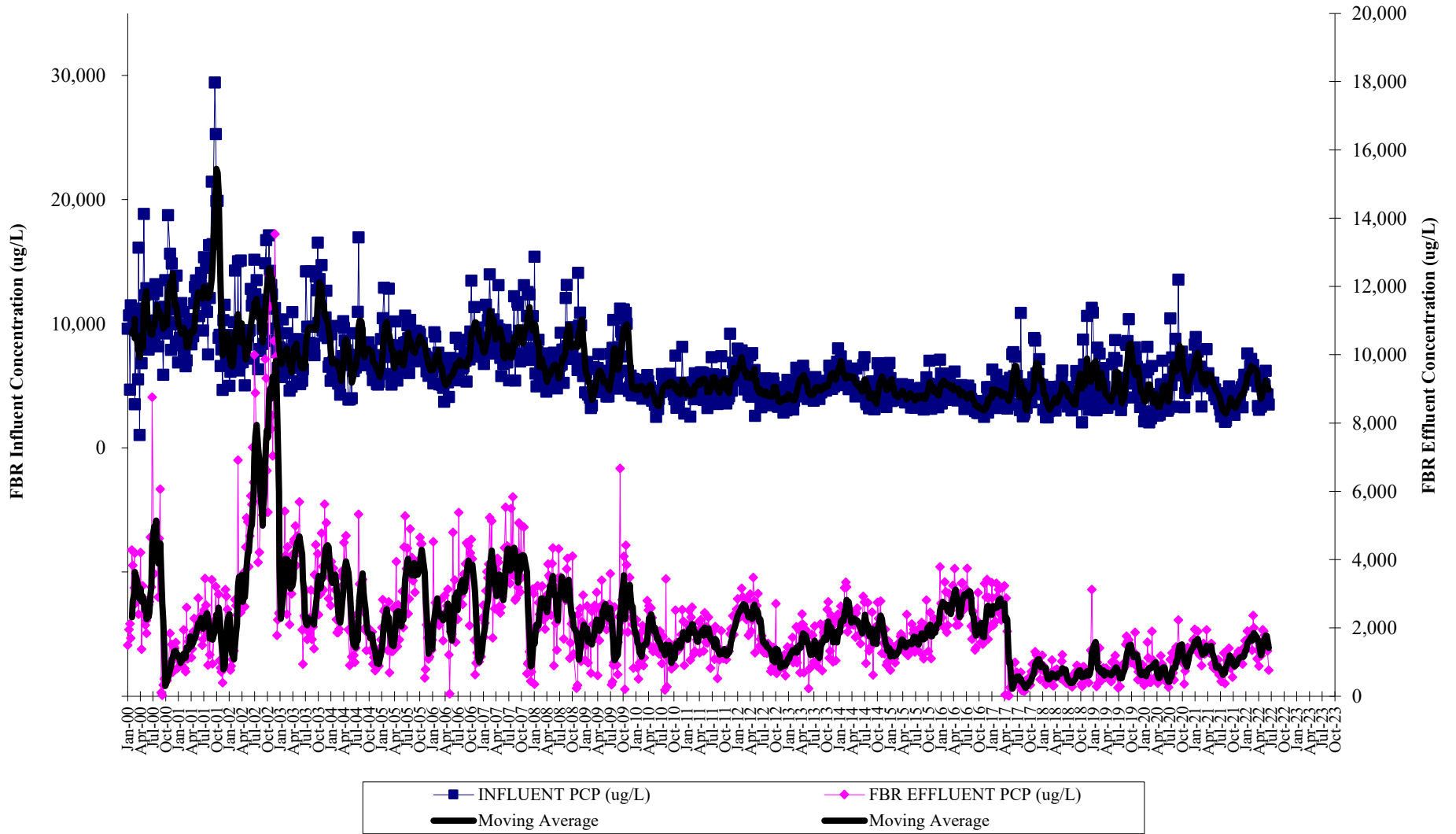
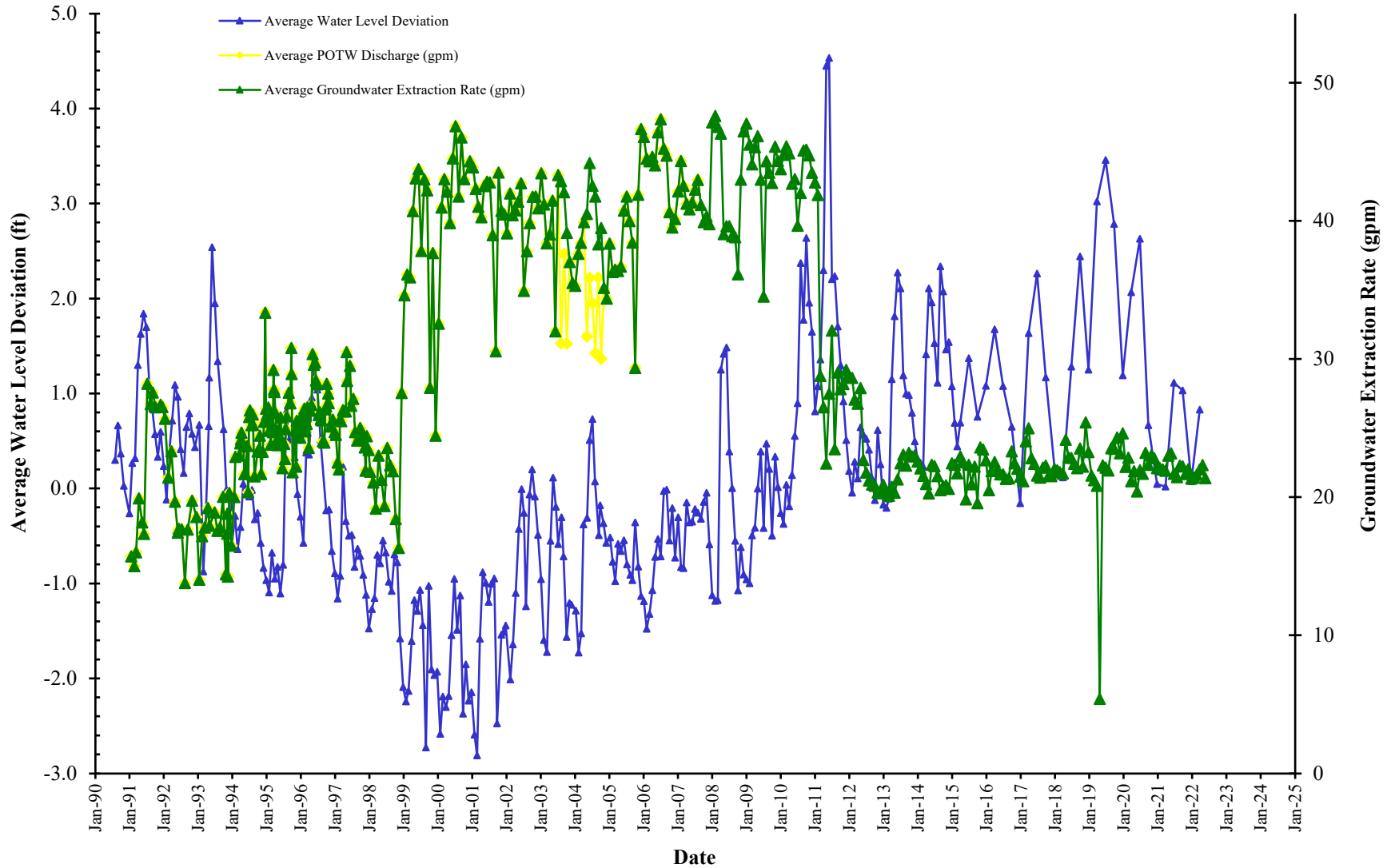


FIGURE 2

**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.