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January 16, 2025

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

Subject: 2024 Fourth Quarterly Report - Wauleco, Inc., Wausau, Wisconsin
BRRS #02-37-000006

Dear Mr. Thompson:

On behalf of Wauleco, Inc., TRC is submitting a copy (enclosed) of the 2024 Fourth 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) 347-8594.

Sincerely,

TRC

A handwritten signature in blue ink, appearing to read "Steve Sellwood".

Steve Sellwood
Project Manager

Attachments: 2024 Fourth Quarterly Report

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

**Wauleco, Inc. - Wausau, Wisconsin
Quarterly Report
Submitted January 2025**

Summary of 2024 Fourth 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 fourth quarter of 2024 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 2.10 µg/L in October, 1.33 µg/L in November, and 1.48 µg/L in December.
- Laboratory results for the sampling events conducted this quarter are included in Tables 1a, b, and c for each month. The laboratory results for PCP in the system effluent was 2.4 µg/L on October 16, <3.0 µg/L on November 13, and <3.0 µg/L on December 11, 2024.
- 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.

On-site screening PCP influent concentrations ranged from 2,617 µg/L to 5,604 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 (%)
October 2024	71	70	78
November 2024	63	68	79
December 2024	60	67	73

- The dissolved oxygen concentration in the influent to the FBR averaged 2.4 mg/L in October, 2.4 mg/L in November, and 2.4 mg/L in December 2024.

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 0.024 µg/L on October 16, < 0.020 µg/L on November 13, and

0.033 µg/L on December 11, which are below the permit discharge limit of 1.6 µg/L. The mass loading for mercury in October was calculated at 0.00000614 lb/24 hours, and in December was calculated at 0.00000848 lb/24 hours, which are below the permit discharge limit of 0.00048 lb/24 hours. The mass loading for mercury, calculated using half the detection limit ($0.02 \text{ µg/L} / 2 = 0.01 \text{ µg/L}$), for November was 0.00000251 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 21.28 gpm for October, 20.91 gpm for November, and 21.39 gpm for December 2024 (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 October 2024 are summarized in Table 3.

The product thickness data for October 2024 are summarized in Table 4. Measurements show product present in a few isolated wells in October.

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
OCTOBER 2024**

**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	10/16/2024	12	2.6				<	
Chemical Oxygen Demand	mg/L	10/16/2024	37	27				18	
Chloride	mg/L	10/16/2024	160	160				160	
Dissolved Oxygen	mg/L	10/2/2024	2.2	1	4.4				
	mg/L	10/10/2024	2.4	1.1	4.3				
	mg/L	10/16/2024	2.4	1	4.2				
	mg/L	10/23/2024	2.4	1	4.3				
	mg/L	10/30/2024	2.4	1.1	4.4				
Nitrogen, Ammonia	mg/L	10/2/2024	0.4	0.3	0.3				
	mg/L	10/10/2024	0.4	0.4	0.4				
	mg/L	10/16/2024	0.3	0.3	0.2				
	mg/L	10/23/2024	0.3	0.2	0.3				
	mg/L	10/30/2024	0.3	0.2	0.2				
Nitrogen, Nitrate	mg/L	10/2/2024	<	<	<				
	mg/L	10/10/2024	<	<	<				
	mg/L	10/16/2024	<	<	<				
	mg/L	10/23/2024	<	<	<				
	mg/L	10/30/2024	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	10/16/2024	<	<				<	
Nitrogen, Total Kjeldahl	mg/L	10/16/2024	<	<				<	
Pentachlorophenol-Screen	µg/L	10/1/2024						4	
	µg/L	10/2/2024	5604	1597	1353			2	
	µg/L	10/3/2024						2	
	µg/L	10/4/2024						3	
	µg/L	10/5/2024						3	
	µg/L	10/6/2024						3	
	µg/L	10/7/2024						3	
	µg/L	10/8/2024						2	
	µg/L	10/9/2024						2	
	µg/L	10/10/2024	3311	989	874			2	
	µg/L	10/11/2024						4	
	µg/L	10/12/2024						2	
	µg/L	10/13/2024						2	
	µg/L	10/14/2024						2	
	µg/L	10/15/2024						3	
	µg/L	10/16/2024	3825	1084	1154		327	4	
	µg/L	10/17/2024						3	
	µg/L	10/18/2024						2	
	µg/L	10/19/2024						2	
	µg/L	10/20/2024						2	
	µg/L	10/21/2024						2	
	µg/L	10/22/2024						1	
	µg/L	10/23/2024	2617	1021	803			1	
	µg/L	10/24/2024						1	
	µg/L	10/25/2024						1	

TABLE 1a
OCTOBER 2024

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	10/26/2024						1	
	µg/L	10/27/2024						1	
	µg/L	10/28/2024						1	
	µg/L	10/29/2024						1	
	µg/L	10/30/2024	3864	1238	1277			1	
	µg/L	10/31/2024						2	
pH	S.U.	10/2/2024	6.65	6.8	6.8				
	S.U.	10/10/2024	6.6	6.65	6.6				
	S.U.	10/16/2024	6.6	6.65	6.7				
	S.U.	10/23/2024	6.4	6.4	6.55				
	S.U.	10/30/2024	6.8	6.8	6.8				
Phosphorus, Ortho	mg/L	10/16/2024	<	<				<	
Phosphorus, Phosphate	mg/L	10/2/2024	1.1	1	1.3				
	mg/L	10/10/2024	1	0.9	0.9				
	mg/L	10/16/2024	0.9	0.8	0.9				
	mg/L	10/23/2024	1	0.8	0.8				
	mg/L	10/30/2024	1	0.7	0.8				
Solids, Total Suspended	mg/L	10/16/2024	16	18				7.4	
Mercury	µg/L	10/16/2024	0.18					0.024	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	10/16/2024	170	34			29	<	<
2,4,5-Trichlorophenol	µg/L	10/16/2024	<	<			1.8	<	<
2,4,6-Trichlorophenol	µg/L	10/16/2024	<	<			<	<	<
2,4-Dichlorophenol	µg/L	10/16/2024	<	<			<	<	<
2,4-Dimethylphenol	µg/L	10/16/2024	<	<			<	<	<
2,4-Dinitrophenol	µg/L	10/16/2024	<	<			<	<	<
2,6-Dichlorophenol	µg/L	10/16/2024	<	<			<	<	<
2-Chlorophenol	µg/L	10/16/2024	<	<			<	<	<
2-Methylphenol	µg/L	10/16/2024	<	<			<	<	<
2-Nitrophenol	µg/L	10/16/2024	<	<			<	<	<
3&4-Methylphenol	µg/L	10/16/2024	<	<			<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	10/16/2024	<	<			<	<	<
4-Chloro-3-Methylphenol	µg/L	10/16/2024	<	<			<	<	<
4-Nitrophenol	µg/L	10/16/2024	<	<			<	<	<
Pentachlorophenol	µg/L	10/16/2024	1900	400			340	2.4	2.7
Phenol	µg/L	10/16/2024	<	<			<	<	<

**TABLE 1b
NOVEMBER 2024**

**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	11/13/2024	8.8	2.8				<	
Chemical Oxygen Demand	mg/L	11/13/2024	42	35				<	
Chloride	mg/L	11/13/2024	130	130				130	
Dissolved Oxygen	mg/L	11/5/2024	2.3	1.2	4				
	mg/L	11/13/2024	2.3	1	4				
	mg/L	11/21/2024	2.4	1	4				
	mg/L	11/27/2024	2.5	1.1	4				
Nitrogen, Ammonia	mg/L	11/5/2024	0.3	0.2	0.3				
	mg/L	11/13/2024	0.3	0.2	0.2				
	mg/L	11/21/2024	0.3	0.2	0.2				
	mg/L	11/27/2024	0.3	0.2	0.2				
Nitrogen, Nitrate	mg/L	11/5/2024	<	<	<				
	mg/L	11/13/2024	<	<	<				
	mg/L	11/21/2024	<	<	<				
	mg/L	11/27/2024	<	<	<				
Nitrogen, Total Kjeldahl	mg/L	11/13/2024	<	0.50				0.45	
Pentachlorophenol-Screen	µg/L	11/1/2024						1	
	µg/L	11/2/2024						1	
	µg/L	11/3/2024						1	
	µg/L	11/4/2024						1	
	µg/L	11/5/2024	5389	1833	1698			1	
	µg/L	11/6/2024						2	
	µg/L	11/7/2024						1	
	µg/L	11/8/2024						1	
	µg/L	11/9/2024						1	
	µg/L	11/10/2024						1	
	µg/L	11/11/2024						1	
	µg/L	11/12/2024						1	
	µg/L	11/13/2024	3442	1091	1030		43	1	
	µg/L	11/14/2024						1	
	µg/L	11/15/2024						1	
	µg/L	11/16/2024						1	
	µg/L	11/17/2024						1	
	µg/L	11/18/2024						1	
	µg/L	11/19/2024						1	
	µg/L	11/20/2024						1	
	µg/L	11/21/2024	4046	1512	1398			1	
	µg/L	11/22/2024						2	
	µg/L	11/23/2024						2	
	µg/L	11/24/2024						2	
	µg/L	11/25/2024						2	
	µg/L	11/26/2024						2	
	µg/L	11/27/2024	4393	2083	2263			2	

**TABLE 1b
NOVEMBER 2024**

**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	11/28/2024						2	
	µg/L	11/29/2024						2	
	µg/L	11/30/2024						2	
pH	S.U.	11/5/2024	6.4	6.5	6.5				
	S.U.	11/13/2024	6.65	6.7	6.75				
	S.U.	11/21/2024	6.65	6.65	6.7				
	S.U.	11/27/2024	6.5	6.5	6.5				
Phosphorus, Ortho	mg/L	11/13/2024	<	<				<	
Phosphorus, Phosphate	mg/L	11/5/2024	1	0.8	0.6				
	mg/L	11/13/2024	0.9	0.6	0.8				
	mg/L	11/21/2024	0.9	0.6	0.9				
	mg/L	11/27/2024	0.9	0.4	0.3				
Solids, Total Suspended	mg/L	11/13/2024	14	15				4.0	
Mercury	µg/L	11/13/2024						<	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	11/13/2024	160	52				<	<
2,4,5-Trichlorophenol	µg/L	11/13/2024	<	<				<	<
2,4,6-Trichlorophenol	µg/L	11/13/2024	<	<				<	<
2,4-Dichlorophenol	µg/L	11/13/2024	<	<				<	<
2,4-Dimethylphenol	µg/L	11/13/2024	<	<				<	<
2,4-Dinitrophenol	µg/L	11/13/2024	<	<				<	<
2,6-Dichlorophenol	µg/L	11/13/2024	<	<				<	<
2-Chlorophenol	µg/L	11/13/2024	<	<				<	<
2-Methylphenol	µg/L	11/13/2024	<	<				<	<
2-Nitrophenol	µg/L	11/13/2024	<	<				<	<
3&4-Methylphenol	µg/L	11/13/2024	<	<				<	<
4,6-Dinitro-2-Methylphenol	µg/L	11/13/2024	<	<				<	<
4-Chloro-3-Methylphenol	µg/L	11/13/2024	<	<				<	<
4-Nitrophenol	µg/L	11/13/2024	<	<				<	<
Pentachlorophenol	µg/L	11/13/2024	1700	550				<	<
Phenol	µg/L	11/13/2024	<	<				<	<

**TABLE 1c
DECEMBER 2024**

**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	12/11/2024	5.9	2.8				<	
Chemical Oxygen Demand	mg/L	12/11/2024	<	<				<	
Chloride	mg/L	12/11/2024	140	140				150	
Dissolved Oxygen	mg/L	12/4/2024	2.3	1.1	4				
	mg/L	12/11/2024	2.3	1.3	4				
	mg/L	12/18/2024	2.4	1.1	3.9				
	mg/L	12/26/2024	2.4	1.2	3.8				
Nitrogen, Ammonia	mg/L	12/4/2024	0.4	0.3	0.4				
	mg/L	12/11/2024	0.3	0.2	0.2				
	mg/L	12/18/2024	0.4	0.3	0.3				
	mg/L	12/26/2024	0.4	0.3	0.2				
Nitrogen, Nitrate	mg/L	12/4/2024	<	<	<				
	mg/L	12/11/2024	<	<	<				
	mg/L	12/18/2024	<	<	<				
	mg/L	12/26/2024	<	<	<				
Nitrogen, Total Kjeldahl	mg/L	12/11/2024	0.39	0.43				<	
Pentachlorophenol-Screen	µg/L	12/1/2024							1
	µg/L	12/2/2024							1
	µg/L	12/3/2024							1
	µg/L	12/4/2024	3528	1492	1272				1
	µg/L	12/5/2024							1
	µg/L	12/6/2024							2
	µg/L	12/7/2024							1
	µg/L	12/8/2024							1
	µg/L	12/9/2024							1
	µg/L	12/10/2024							1
	µg/L	12/11/2024	3172	1537	1277		73		1
	µg/L	12/12/2024							2
	µg/L	12/13/2024							1
	µg/L	12/14/2024							1
	µg/L	12/15/2024							1
	µg/L	12/16/2024							1
	µg/L	12/17/2024							1
	µg/L	12/18/2024	3322	1732	1512				2
	µg/L	12/19/2024							2
	µg/L	12/20/2024							2
	µg/L	12/21/2024							2
	µg/L	12/22/2024							2
	µg/L	12/23/2024							2
	µg/L	12/24/2024							2
	µg/L	12/25/2024							2
	µg/L	12/26/2024	4349	1536	1706				1
	µg/L	12/27/2024							2
	µg/L	12/28/2024							2

**TABLE 1c
DECEMBER 2024**

**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	12/29/2024							2
	µg/L	12/30/2024							2
	µg/L	12/31/2024							2
pH	S.U.	12/4/2024	6.4	6.5	6.45				
	S.U.	12/11/2024	6.55	6.7	6.75				
	S.U.	12/18/2024	6.55	6.65	6.6				
	S.U.	12/26/2024	6.5	6.6	6.5				
Phosphorus, Ortho	mg/L	12/11/2024	<	<				<	
Phosphorus, Phosphate	mg/L	12/4/2024	0.6	0.3	0.4				
	mg/L	12/11/2024	0.7	0.3	0.3				
	mg/L	12/18/2024	0.8	0.3	0.3				
	mg/L	12/26/2024	0.8	0.3	0.3				
Solids, Total Suspended	mg/L	12/11/2024	13	14				2.4	
Mercury	µg/L	12/11/2024						0.033	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	12/11/2024	220		90			<	<
2,4,5-Trichlorophenol	µg/L	12/11/2024	<		<			<	<
2,4,6-Trichlorophenol	µg/L	12/11/2024	<		<			<	<
2,4-Dichlorophenol	µg/L	12/11/2024	<		<			<	<
2,4-Dimethylphenol	µg/L	12/11/2024	<		<			<	<
2,4-Dinitrophenol	µg/L	12/11/2024	<		<			<	<
2,6-Dichlorophenol	µg/L	12/11/2024	<		<			<	<
2-Chlorophenol	µg/L	12/11/2024	<		<			<	<
2-Methylphenol	µg/L	12/11/2024	<		<			<	<
2-Nitrophenol	µg/L	12/11/2024	<		<			<	<
3&4-Methylphenol	µg/L	12/11/2024	<		<			<	<
4,6-Dinitro-2-Methylphenol	µg/L	12/11/2024	<		<			<	<
4-Chloro-3-Methylphenol	µg/L	12/11/2024	<		<			<	<
4-Nitrophenol	µg/L	12/11/2024	<		<			<	<
Pentachlorophenol	µg/L	12/11/2024	2400		910			<	<
Phenol	µg/L	12/11/2024	<		<			<	<

TABLE 2a
OCTOBER 2024

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ^{(1) (3)} (gpm)	POTW Discharge Flow Rate ^{(1) (4)} (gpm)	POTW Totalized Discharge ⁽³⁾ (gal)
10/1/2024	25.89	21.30	136504621
10/2/2024	26.23	21.51	136535601
10/3/2024	26.15	21.56	136566652
10/4/2024	26.07	21.40	136597471
10/5/2024	26.03	21.38	136628260
10/6/2024	26.14	21.32	136658961
10/7/2024	26.25	21.32	136689657
10/8/2024	26.00	21.16	136720128
10/9/2024	25.31	20.76	136750028
10/10/2024	25.18	20.75	136779910
10/11/2024	25.53	20.71	136809731
10/12/2024	25.43	20.53	136839291
10/13/2024	25.25	20.76	136869184
10/14/2024	25.27	20.76	136899083
10/15/2024	25.22	20.37	136928409
10/16/2024	25.36	20.70	136958212
10/17/2024	25.35	20.90	136988313
10/18/2024	25.75	20.33	137017581
10/19/2024	25.96	20.71	137047401
10/20/2024	26.00	20.83	137077403
10/21/2024	26.13	21.24	137107991
10/22/2024	26.28	20.93	137138136
10/23/2024	26.23	21.30	137168808
10/24/2024	26.27	21.79	137200191
10/25/2024	26.22	22.18	137232136
10/26/2024	26.48	22.28	137264214
10/27/2024	26.50	22.20	137296179
10/28/2024	26.25	22.21	137328164
10/29/2024	26.54	22.18	137360103
10/30/2024	26.55	22.18	137392042
10/31/2024	26.49	22.21	137424023
Average For The Month	25.95	21.28	
Total ⁽²⁾ :			950,078

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
NOVEMBER 2024
Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ^{(1) (3)} (gpm)	POTW Discharge Flow Rate ^{(1) (4)} (gpm)	POTW Totalized Discharge ⁽³⁾ (gal)
11/1/2024	26.41	22.03	137455744
11/2/2024	26.33	22.25	137487781
11/3/2024	27.25	23.04	137520963
11/4/2024	26.96	22.83	137553844
11/5/2024	28.67	23.94	137588321
11/6/2024	24.16	20.58	137617958
11/7/2024	23.75	20.36	137647283
11/8/2024	23.80	20.09	137676218
11/9/2024	23.88	20.35	137705520
11/10/2024	23.79	20.22	137734638
11/11/2024	23.88	20.33	137763917
11/12/2024	23.98	20.22	137793030
11/13/2024	23.08	20.63	137822742
11/14/2024	22.51	20.53	137852302
11/15/2024	23.95	20.98	137882518
11/16/2024	24.04	21.10	137912909
11/17/2024	23.86	20.87	137942958
11/18/2024	23.97	20.85	137972978
11/19/2024	23.73	20.70	138002786
11/20/2024	23.81	20.69	138032586
11/21/2024	23.68	20.55	138062179
11/22/2024	23.63	20.14	138091179
11/23/2024	23.83	20.28	138120389
11/24/2024	24.01	20.44	138149826
11/25/2024	23.98	20.40	138179199
11/26/2024	23.85	20.66	138208956
11/27/2024	24.07	20.77	138238864
11/28/2024	24.12	20.40	138268247
11/29/2024	24.22	20.54	138297831
11/30/2024	24.15	20.42	138327240
Average For The Month	24.38	20.91	
Total ⁽²⁾ :			903,217

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
DECEMBER 2024

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate ^{(1) (3)} (gpm)	POTW Discharge Flow Rate ^{(1) (4) (5)} (gpm)	POTW Totalized Discharge ⁽³⁾ (gal)
12/1/2024	24.20	20.58	138356874
12/2/2024	24.61	20.49	138386382
12/3/2024	24.62	20.49	138415887
12/4/2024	21.95	19.61	138444124
12/5/2024	23.99	21.32	138474829
12/6/2024	23.67	21.82	138506250
12/7/2024	23.46	22.50	138538648
12/8/2024	23.87	22.83	138571524
12/9/2024	24.24	22.94	138604551
12/10/2024	24.18	23.16	138637899
12/11/2024	24.40	23.28	138671422
12/12/2024	24.14	22.97	138704497
12/13/2024	23.93	22.97	138737575
12/14/2024	23.97	22.92	138770580
12/15/2024	23.71	23.08	138803815
12/16/2024	23.70	22.77	138836606
12/17/2024	23.69	22.30	138868716
12/18/2024	23.74	23.48	138902526
12/19/2024	23.74	22.14	138934405
12/20/2024	23.60	21.39	138965213
12/21/2024	23.43	20.83	138995204
12/22/2024	22.55	21.05	139025523
12/23/2024	22.46	21.52	139056515
12/24/2024	22.52	21.16	139086979
12/25/2024	23.25	19.49	139115043
12/26/2024	23.60	19.58	139143234
12/27/2024	23.12	19.59	139171440
12/28/2024	23.21	19.05	139198879
12/29/2024	23.28	19.12	139226411
12/30/2024	23.33	19.21	139254078
12/31/2024	23.45	19.50	139282160
Average For The Month	23.60	21.39	
Total ⁽²⁾ :			954,920

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

<u>Well</u>	October 04, 2024 (ft msl)	November, 2024	December, 2024
PW01	1164.46	-----	-----
PW02	Abandoned	-----	-----
PW03	1164.16	-----	-----
PW3S	1163.3	-----	-----
PW04	1163.09	-----	-----
PW05	1163.08	-----	-----
PW06	1163.46	-----	-----
PW07	1163.18	-----	-----
PW08	1164.69	-----	-----
PW09I	-----	-----	-----
PW09O	1163.21	-----	-----
PW10	1163.42	-----	-----
PW11	1161.86	-----	-----
PW12	1164.65	-----	-----
PW13	1163.20	-----	-----
PW14	1162.31	-----	-----
PW15	1162.42	-----	-----
PW16	1160.32	-----	-----
PW17	1160.2	-----	-----
PW18	1163.14	-----	-----
PW19	1162.09	-----	-----
PW20	1161.766	-----	-----
PW21	1162.16	-----	-----
PW22	1163.14	-----	-----
PW23	1163.04	-----	-----
PW24	1160.98	-----	-----
PW25	1160.94	-----	-----
PW26	1158.73	-----	-----
PW27	1156.016	-----	-----
PW28	1164.35	-----	-----
PW29	1164.49	-----	-----
P01	1163.06	-----	-----
OW01	1165.79	-----	-----
W01A	Abandoned	-----	-----
W01B	Abandoned	-----	-----
W02	1164.06	-----	-----
W03A	1162.02	-----	-----
W03B	1162.21	-----	-----
W04A	1163.53	-----	-----
W04B	1163.45	-----	-----
W05	1163.17	-----	-----
W06R	1164.93	-----	-----
W07	1164.53	-----	-----
W08	1175.5	-----	-----
W09	1163.05	-----	-----
W10A	1160.93	-----	-----
W10B	1161.07	-----	-----
W11	1160.92	-----	-----
W12	1160.59	-----	-----
W13	1161.73	-----	-----
W14	1160.75	-----	-----
W16	1162.25	-----	-----
W17	1162.29	-----	-----
W18	1161.01	-----	-----
W19	Abandoned	-----	-----

TABLE 3 (continued)

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	<u>October 04, 2024</u> (ft msl)	<u>November, 2024</u>	<u>December, 2024</u>
W21	1160.73	-----	-----
W22	1161.97	-----	-----
W23	1160.87	-----	-----
W24A	1160.85	-----	-----
W25	1164.97	-----	-----
W26/W26R	1161.01	-----	-----
W27	1161.85	-----	-----
W28	1160.99	-----	-----
W29/W29R	1160.84	-----	-----
W30	1163.06	-----	-----
W31	1160.84	-----	-----
W32	1160.84	-----	-----
W33	1163.2	-----	-----
W34	1163.18	-----	-----
W35	1163.37	-----	-----
W36	1163.95	-----	-----
W39	Abandoned	-----	-----
W40/W40R	1161.808	-----	-----
W41	1162.96	-----	-----
W42	1163.99	-----	-----
W44	1163.06	-----	-----
W45	1163.36	-----	-----
W46	1162.92	-----	-----
W47	1161.95	-----	-----
W48	1162.02	-----	-----
W49	1162.46	-----	-----
W66	1164.7	-----	-----
W67	1164.66	-----	-----
W68A	1164.74	-----	-----
W68B	1164.58	-----	-----
W69	1163.54	-----	-----
W70B	Abandoned	-----	-----
River	-----	-----	-----
IW01	1163.2	-----	-----
IW01A	1163.14	-----	-----
FP01	1161.27	-----	-----
FP02	1161.52	-----	-----
FP03	1160.41	-----	-----
FP04	1161.69	-----	-----
3M Basin	Water in both Basins	-----	-----
DFOWM 5	-----	-----	-----
DFOWM 9	Abandoned	-----	-----
DFOWM 10A	Abandoned	-----	-----
DFOWM 11	-----	-----	-----
DFOWM 12	-----	-----	-----
W71	1167.8	-----	-----
W72	1165.49	-----	-----
W73	1163.75	-----	-----
W74	1162.99	-----	-----

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

<u>Well</u>	October 04, 2024 (ft)	November, 2024	December, 2024
PW01	0.00	----	----
PW02	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	0.23	----	----
PW17	0.00	----	----
PW18	0.00	----	----
PW19	0.00	----	----
PW20	0.02	----	----
PW21	0.00	----	----
PW22	0.00	----	----
PW23	0.00	----	----
PW24	0.00	----	----
PW25	0.00	----	----
PW26	0.04	----	----
PW27	0.02	----	----
PW28	0.00	----	----
PW29	0.00	----	----
P01	0.00	----	----
OW01	0.00	----	----
W01A	Abandoned	----	----
W01B	Abandoned	----	----
W02	0.00	----	----
W03A	0.00	----	----
W03B	0.00	----	----
W04A	0.00	----	----
W04B	0.00	----	----
W05	0.00	----	----
W06R	0.00	----	----
W07	1.47	----	----
W08	0.00	----	----
W09	0.00	----	----
W10A	0.00	----	----
W10B	0.00	----	----
W11	0.00	----	----
W12	0.00	----	----
W13	0.00	----	----
W14	0.00	----	----
W16	0.00	----	----
W17	0.00	----	----

Table 4 (continued)

Free Product Measurements
Wauleco, Inc.
Wausau, Wisconsin

<u>Well</u>	<u>October 04, 2024</u> <u>(ft)</u>	<u>November, 2024</u>	<u>December, 2024</u>
W18	0.00	----	----
W19	Abandoned	----	----
W21	0.00	----	----
W22	0.00	----	----
W23	0.00	----	----
W24A	0.00	----	----
W25	0.00	----	----
W26/W26R	0.00	----	----
W27	0.00	----	----
W28	0.00	----	----
W29/W29R	0.00	----	----
W30	0.00	----	----
W31	0.00	----	----
W32	0.00	----	----
W33	0.00	----	----
W34	0.00	----	----
W35	0.88	----	----
W36	0.00	----	----
W39	Abandoned	----	----
W40/W40R	0.11	----	----
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	----	----
River	----	----	----
IW01	0.00	----	----
IW01A	0.00	----	----
FP01	0.00	----	----
FP02	0.00	----	----
FP03	0.00	----	----
FP04	0.00	----	----
3M Basin	0.00	----	----
DFOWM 5	----	----	----
DFOWM 9	Abandoned	----	----
DFOWM 10A	Abandoned	----	----
DFOWM 11	----	----	----
DFOWM 12	----	----	----
W71	0.00	----	----
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

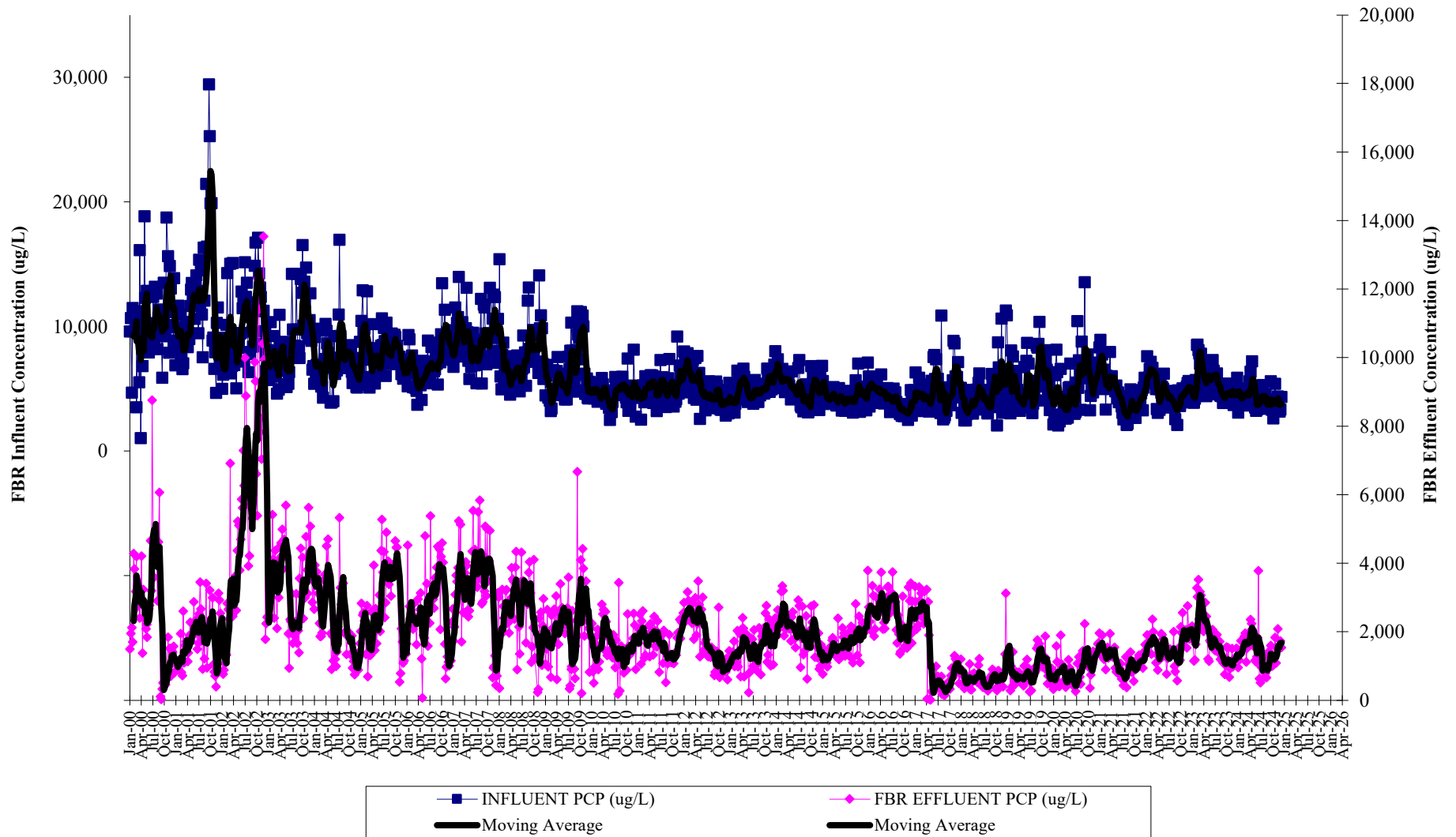
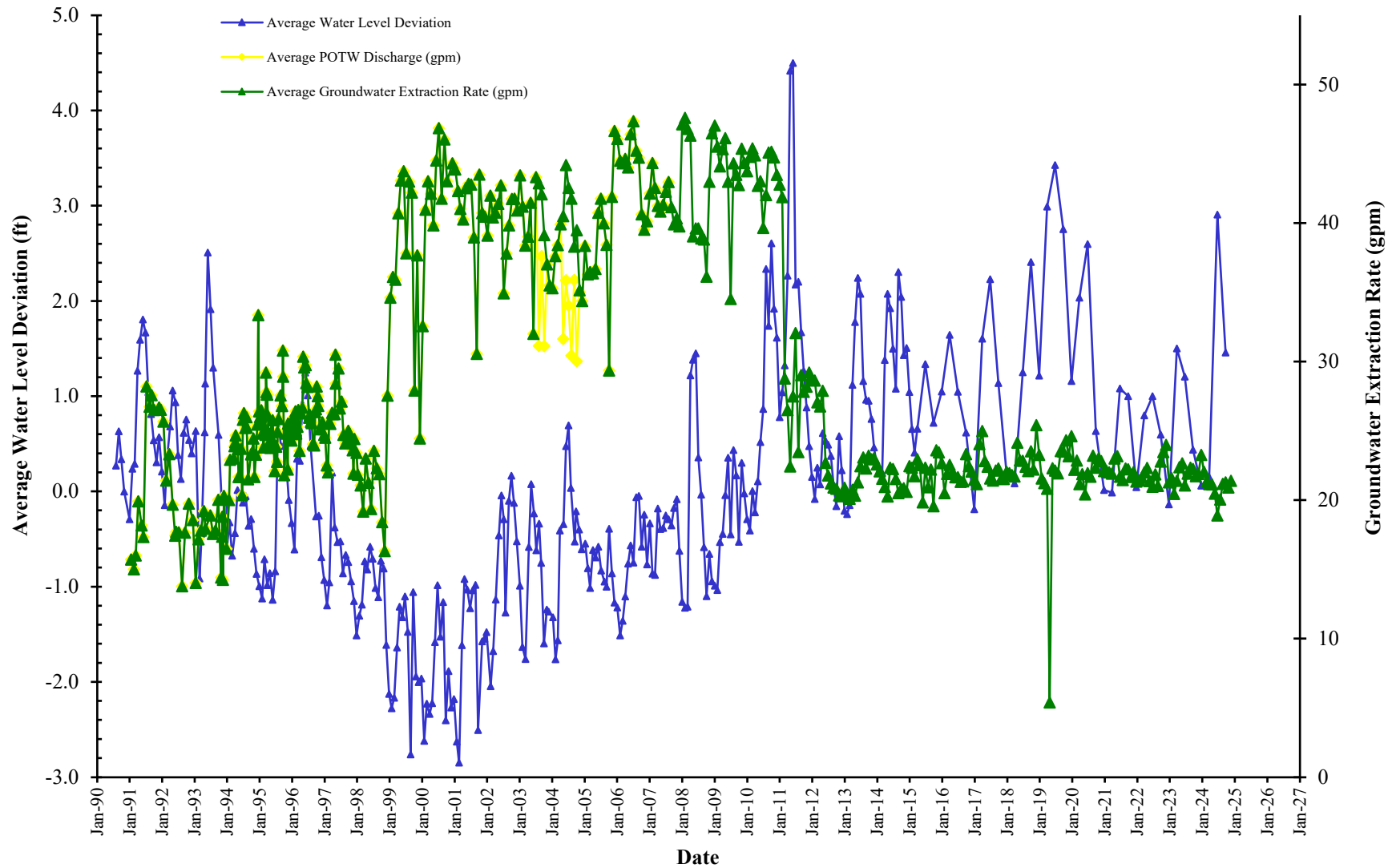


FIGURE 2

**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.