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July 13, 2018

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

Subject: 2018 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 2018 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) 826-3644.

Sincerely,

TRC Environmental Corporation

Bruce Iverson
Project Manager

Attachments: 2018 Second Quarterly Report

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

**Wauleco, Inc. - Wausau, Wisconsin
Quarterly Report
Submitted July 2018**

Summary of 2018 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 2018 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 1.97 µg/L in April, 4.06 µg/L in May, and 1.33 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 3.3 µg/L on April 11, 7.4 µg/L on May 15, and <3.0 µg/L June 21, 2018.
- 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 3,006 µg/L to 6,219 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 2018	86	86	55
May 2018	86	87	76
June 2018	88	87	93

- The dissolved oxygen concentration in the influent to the FBR averaged 2.5 mg/L in April, 2.8 mg/L in May, and 2.9 mg/L in June 2018.

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 <0.02 µg/L on April 11, <0.02 on May 15, and <0.02 µg/L June 21, which are below the permit discharge limit of 1.6 µg/L. The mass loading for mercury in April, May, and June was calculated using half the detection limit of 0.01 µg/L, at 0.00000261 lb/24 hours in April, 0.0000029 in May, and 0.00000275 in June, which are 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 21.70 gpm for April, 24.14 gpm for May, and 22.86 gpm for June 2018 (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

Water table elevations for the month of April 2018 are included in Table 3. Monthly water table elevations have been discontinued, with only quarterly elevations being measured, and semi-annual preparation of water table maps as discussed in the 2014 Annual Groundwater Monitoring Report dated April 16, 2015.

The product thickness data for April 2018 are summarized in Table 4. Measurements show small amounts of product present in April. One monitoring well measured had free product: W35 had 0.06 ft. Two extraction wells had free product: FP02 had 0.04 ft and FP03 had 0.03 ft.

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 2018**

**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	4/11/2018	2.3	7.2				<	
Chemical Oxygen Demand	mg/L	4/11/2018	42	23				9.0	
Chloride	mg/L	4/11/2018	150	150				150	
Dissolved Oxygen	mg/L	4/5/2018	2.2	1.2	6.8				
	mg/L	4/11/2018	2.4	1.2	7.1				
	mg/L	4/18/2018	2.4	1.2	6.6				
	mg/L	4/26/2018	3	1.6	7.5				
Nitrogen, Ammonia	mg/L	4/5/2018	1.8	1.2	1.5				
	mg/L	4/11/2018	1.3	1	1.1				
	mg/L	4/18/2018	2.2	0.8	0.7				
	mg/L	4/26/2018	2.1	1.5	1.2				
Nitrogen, Nitrate	mg/L	4/5/2018	<	<	<				
	mg/L	4/11/2018	<	<	<				
	mg/L	4/18/2018	<	<	<				
	mg/L	4/26/2018	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	4/11/2018	0.33	0.11				<	
Nitrogen, Total Kjeldahl	mg/L	4/11/2018	<	<				<	
Pentachlorophenol-Screen	µg/L	4/1/2018						2	
	µg/L	4/2/2018						2	
	µg/L	4/3/2018						1	
	µg/L	4/4/2018						2	
	µg/L	4/5/2018	3323	310	374			1	
	µg/L	4/6/2018						2	
	µg/L	4/7/2018						2	
	µg/L	4/8/2018						2	
	µg/L	4/9/2018						2	
	µg/L	4/10/2018						1	
	µg/L	4/11/2018	4665	754	562		163	2	
	µg/L	4/12/2018						2	
	µg/L	4/13/2018						2	
	µg/L	4/14/2018						2	
	µg/L	4/15/2018						2	
	µg/L	4/16/2018						2	
	µg/L	4/17/2018						2	
	µg/L	4/18/2018	3006	547	461			2	
	µg/L	4/19/2018						3	
	µg/L	4/20/2018						2	
	µg/L	4/21/2018						1	
	µg/L	4/22/2018						1	
	µg/L	4/23/2018						1	
	µg/L	4/24/2018						3	
	µg/L	4/25/2018						3	
	µg/L	4/26/2018	3889	792	719			3	
	µg/L	4/27/2018						3	
	µg/L	4/28/2018						2	

TABLE 1a
APRIL 2018

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	4/29/2018						2	
	µg/L	4/30/2018						2	
pH	S.U.	4/5/2018	7	6.85	6.9				
	S.U.	4/11/2018	7	6.85	6.9				
	S.U.	4/18/2018	6.9	6.85	6.85				
	S.U.	4/26/2018	6.85	6.8	6.85				
Phosphorus, Ortho	mg/L	4/11/2018	<	<				<	
Phosphorus, Phosphate	mg/L	4/5/2018	0.9	0.9	0.8				
	mg/L	4/11/2018	0.9	0.8	0.5				
	mg/L	4/18/2018	0.9	0.5	0.4				
	mg/L	4/26/2018	0.9	0.8	0.4				
Solids, Total Suspended	mg/L	4/11/2018	8.0	14				<	
Mercury	µg/L	4/11/2018	0.14					<	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	4/11/2018	330		34		14	<	<
2,4,5-Trichlorophenol	µg/L	4/11/2018	<		<		<	<	<
2,4,6-Trichlorophenol	µg/L	4/11/2018	<		<		<	<	<
2,4-Dichlorophenol	µg/L	4/11/2018	<		<		<	<	<
2,4-Dimethylphenol	µg/L	4/11/2018	<		<		<	<	<
2,4-Dinitrophenol	µg/L	4/11/2018	<		<		<	<	<
2,6-Dichlorophenol	µg/L	4/11/2018	<		<		<	<	<
2-Chlorophenol	µg/L	4/11/2018	<		<		<	<	<
2-Methylphenol	µg/L	4/11/2018	<		<		<	<	<
2-Nitrophenol	µg/L	4/11/2018	<		<		<	<	<
3&4-Methylphenol	µg/L	4/11/2018	<		<		<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	4/11/2018	<		<		<	<	<
4-Chloro-3-Methylphenol	µg/L	4/11/2018	<		<		<	<	<
4-Nitrophenol	µg/L	4/11/2018	<		<		<	<	<
Pentachlorophenol	µg/L	4/11/2018	3400		310		110	3.3	3.2
Phenol	µg/L	4/11/2018	<		<		<	<	<

**TABLE 1b
MAY 2018**

**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>Filters 1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Biological Oxygen Demand	mg/L	5/15/2018	12	3.7				<	
Chemical Oxygen Demand	mg/L	5/15/2018	35	26				14	
Chloride	mg/L	5/15/2018	180	190				180	
Dissolved Oxygen	mg/L	5/3/2018	3.3	1.8	8				
	mg/L	5/8/2018	3.4	1.8	7.8				
	mg/L	5/15/2018	2.4	0.9	6.4				
	mg/L	5/24/2018	2	0.9	6.1				
Nitrogen, Ammonia	mg/L	5/3/2018	1.3	1.5	1.1				
	mg/L	5/8/2018	1.2	1.4	1.1				
	mg/L	5/15/2018	1.1	1.3	0.9				
	mg/L	5/24/2018	1.4	1.2	1.2				
Nitrogen, Nitrate	mg/L	5/3/2018	<	<	<				
	mg/L	5/8/2018	<	<	<				
	mg/L	5/15/2018	<	<	<				
	mg/L	5/24/2018	<	<	<				
Nitrogen, Total Kjeldahl	mg/L	5/15/2018	<	<				0.90	
Pentachlorophenol-Screen	µg/L	5/1/2018						2	
	µg/L	5/2/2018						2	
	µg/L	5/3/2018	3961	625	388			2	
	µg/L	5/4/2018						3	
	µg/L	5/5/2018						3	
	µg/L	5/6/2018						3	
	µg/L	5/7/2018						3	
	µg/L	5/8/2018	4703	625	871			3	
	µg/L	5/9/2018						4	
	µg/L	5/10/2018						4	
	µg/L	5/11/2018						3	
	µg/L	5/12/2018						8	
	µg/L	5/13/2018						8	
	µg/L	5/14/2018						8	
	µg/L	5/15/2018	4934	738	889		255	7	
	µg/L	5/16/2018						7	
	µg/L	5/17/2018						6	
	µg/L	5/18/2018						8	
	µg/L	5/19/2018						8	
	µg/L	5/20/2018						7	
	µg/L	5/21/2018						3	
	µg/L	5/22/2018						3	
	µg/L	5/23/2018						4	
µg/L	5/24/2018	4409	518	468			4		
µg/L	5/25/2018						1		
µg/L	5/26/2018						2		
µg/L	5/27/2018						2		

**TABLE 1b
MAY 2018**

**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>Filters 1+2 Effluent</u>	<u>System Effluent</u>	<u>System Eff Dup</u>
Pentachlorophenol-Screen	µg/L	5/28/2018						2	
	µg/L	5/29/2018						2	
	µg/L	5/30/2018						2	
	µg/L	5/31/2018						2	
pH	S.U.	5/3/2018	6.9	6.85	6.9				
	S.U.	5/8/2018	6.95	6.85	6.9				
	S.U.	5/15/2018	6.9	6.85	6.85				
	S.U.	5/24/2018	6.9	6.9	6.95				
Phosphorus, Ortho	mg/L	5/15/2018	<	<				<	
Phosphorus, Phosphate	mg/L	5/3/2018	0.9	0.8	0.5				
	mg/L	5/8/2018	0.9	0.8	0.4				
	mg/L	5/15/2018	1.3	1.1	0.9				
	mg/L	5/24/2018	0.9	1.2	0.9				
Solids, Total Suspended	mg/L	5/15/2018	12	16				<	
Mercury	µg/L	5/15/2018						<	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	5/15/2018	300	44	46			<	<
2,4,5-Trichlorophenol	µg/L	5/15/2018	<	<	<			<	<
2,4,6-Trichlorophenol	µg/L	5/15/2018	<	<	<			<	<
2,4-Dichlorophenol	µg/L	5/15/2018	<	<	<			<	<
2,4-Dimethylphenol	µg/L	5/15/2018	<	<	<			<	<
2,4-Dinitrophenol	µg/L	5/15/2018	<	<	<			<	<
2,6-Dichlorophenol	µg/L	5/15/2018	<	<	<			<	<
2-Chlorophenol	µg/L	5/15/2018	<	<	<			<	<
2-Methylphenol	µg/L	5/15/2018	<	<	<			<	<
2-Nitrophenol	µg/L	5/15/2018	<	<	<			<	<
3&4-Methylphenol	µg/L	5/15/2018	<	<	<			<	<
4,6-Dinitro-2-Methylphenol	µg/L	5/15/2018	<	<	<			<	<
4-Chloro-3-Methylphenol	µg/L	5/15/2018	<	<	<			<	<
4-Nitrophenol	µg/L	5/15/2018	<	<	<			<	<
Pentachlorophenol	µg/L	5/15/2018	3000	410	400			7.4	6.3
Phenol	µg/L	5/15/2018	<	<	<			<	<

**TABLE 1c
JUNE 2018**

**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	6/21/2018	9.5	3.5				<	
Chemical Oxygen Demand	mg/L	6/21/2018	34	19				16	
Chloride	mg/L	6/21/2018	300	300				300	
Dissolved Oxygen	mg/L	6/1/2018	2.2	1	6				
	mg/L	6/6/2018	2.4	1.1	5.8				
	mg/L	6/16/2018	3.1	1.4	6.4				
	mg/L	6/21/2018	3.4	1.3	6.8				
	mg/L	6/29/2018	3.6	1.6	6.9				
Nitrogen, Ammonia	mg/L	6/1/2018	1.3	1.2	1.7				
	mg/L	6/6/2018	1.4	1.2	1				
	mg/L	6/16/2018	2.5	2.1	2.1				
	mg/L	6/21/2018	1.1	1.2	1.4				
	mg/L	6/29/2018	1.4	1.5	1.2				
Nitrogen, Nitrate	mg/L	6/1/2018	<	<	<				
	mg/L	6/6/2018	<	<	<				
	mg/L	6/16/2018	<	<	<				
	mg/L	6/21/2018	<	<	<				
	mg/L	6/29/2018	<	<	<				
Nitrogen, Total Kjeldahl	mg/L	6/21/2018	0.44	<				<	
Pentachlorophenol-Screen	µg/L	6/1/2018	5474	1025	891			2	
	µg/L	6/2/2018						3	
	µg/L	6/3/2018						3	
	µg/L	6/4/2018						3	
	µg/L	6/5/2018						2	
	µg/L	6/6/2018	6219	1210	804			1	
	µg/L	6/7/2018						1	
	µg/L	6/8/2018						1	
	µg/L	6/9/2018						1	
	µg/L	6/10/2018						1	
	µg/L	6/11/2018						1	
	µg/L	6/12/2018						1	
	µg/L	6/13/2018						1	
	µg/L	6/14/2018						1	
	µg/L	6/15/2018						1	
	µg/L	6/16/2018	3647	457	329			1	
	µg/L	6/17/2018						2	
	µg/L	6/18/2018						2	
	µg/L	6/19/2018						1	
	µg/L	6/20/2018						1	
	µg/L	6/21/2018	4433	625	473		14	1	
	µg/L	6/22/2018						1	
	µg/L	6/23/2018						1	
	µg/L	6/24/2018						1	
	µg/L	6/25/2018						1	

**TABLE 1c
JUNE 2018**

**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	6/26/2018						1	
	µg/L	6/27/2018						1	
	µg/L	6/28/2018						1	
	µg/L	6/29/2018	4491	557	404			1	
	µg/L	6/30/2018						1	
pH	S.U.	6/1/2018	6.85	6.85	6.9				
	S.U.	6/6/2018	6.9	6.8	6.85				
	S.U.	6/16/2018	6.85	6.8	6.85				
	S.U.	6/21/2018	6.85	6.8	6.85				
	S.U.	6/29/2018	6.85	6.8	6.85				
Phosphorus, Ortho	mg/L	6/21/2018	<	<				<	
Phosphorus, Phosphate	mg/L	6/1/2018	0.8	0.9	0.8				
	mg/L	6/6/2018	1.1	1	0.9				
	mg/L	6/16/2018	0.9	1.2	1				
	mg/L	6/21/2018	0.9	1.1	0.9				
	mg/L	6/29/2018	0.9	1.2	0.9				
Solids, Total Suspended	mg/L	6/21/2018	14	27				<	
Mercury	µg/L	6/21/2018						<	
Phenol									
2,3,4,6-Tetrachlorophenol	µg/L	6/21/2018	320		31			<	<
2,4,5-Trichlorophenol	µg/L	6/21/2018	<		<			<	<
2,4,6-Trichlorophenol	µg/L	6/21/2018	<		<			<	<
2,4-Dichlorophenol	µg/L	6/21/2018	<		<			<	<
2,4-Dimethylphenol	µg/L	6/21/2018	<		<			<	<
2,4-Dinitrophenol	µg/L	6/21/2018	<		<			<	<
2,6-Dichlorophenol	µg/L	6/21/2018	<		<			<	<
2-Chlorophenol	µg/L	6/21/2018	<		<			<	<
2-Methylphenol	µg/L	6/21/2018	<		<			<	<
2-Nitrophenol	µg/L	6/21/2018	<		<			<	<
3&4-Methylphenol	µg/L	6/21/2018	<		<			<	<
4,6-Dinitro-2-Methylphenol	µg/L	6/21/2018	<		<			<	<
4-Chloro-3-Methylphenol	µg/L	6/21/2018	<		<			<	<
4-Nitrophenol	µg/L	6/21/2018	<		<			<	<
Pentachlorophenol	µg/L	6/21/2018	3000		270			<	<
Phenol	µg/L	6/21/2018	<		<			<	<

TABLE 2a
APRIL 2018

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)
4/1/2018	22.60	21.86	63633572
4/2/2018	22.80	21.90	63665115
4/3/2018	22.81	21.99	63696776
4/4/2018	22.83	21.78	63728140
4/5/2018	22.59	22.07	63759926
4/6/2018	22.54	21.80	63791314
4/7/2018	22.57	21.79	63822694
4/8/2018	22.56	21.80	63854089
4/9/2018	22.51	21.78	63885447
4/10/2018	22.33	21.71	63916712
4/11/2018	22.30	21.63	63947857
4/12/2018	22.30	21.74	63979164
4/13/2018	22.29	21.68	64010389
4/14/2018	22.27	21.68	64041602
4/15/2018	22.32	21.67	64072811
4/16/2018	22.33	21.65	64103988
4/17/2018	22.33	21.70	64135239
4/18/2018	22.33	21.66	64166423
4/19/2018	22.31	21.70	64197674
4/20/2018	22.26	21.75	64228987
4/21/2018	22.26	21.75	64260302
4/22/2018	22.23	21.67	64291513
4/23/2018	22.19	21.64	64322670
4/24/2018	22.17	21.54	64353687
4/25/2018	22.08	21.56	64384740
4/26/2018	22.02	21.63	64415884
4/27/2018	22.03	21.46	64446786
4/28/2018	21.99	21.17	64477270
4/29/2018	21.98	21.50	64508235
4/30/2018	22.02	21.76	64539565
Monthly Average	22.34	21.70	
Total ⁽²⁾ :			937,474

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 2018**

**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)
5/1/2018	22.00	21.39	64570366
5/2/2018	21.99	21.43	64601228
5/3/2018	22.01	21.53	64632224
5/4/2018	21.92	22.09	64664034
5/5/2018	24.82	24.79	64699732
5/6/2018	24.99	24.91	64735601
5/7/2018	25.05	24.92	64771482
5/8/2018	25.08	24.78	64807172
5/9/2018	25.10	24.71	64842751
5/10/2018	25.11	24.77	64878422
5/11/2018	25.17	24.67	64913949
5/12/2018	25.23	24.84	64949717
5/13/2018	25.23	24.69	64985274
5/14/2018	25.27	24.63	65020743
5/15/2018	25.34	24.69	65056295
5/16/2018	25.37	24.75	65091933
5/17/2018	25.33	24.83	65127694
5/18/2018	25.21	25.00	65163697
5/19/2018	25.18	24.40	65198827
5/20/2018	25.13	24.66	65234339
5/21/2018	25.13	24.53	65269662
5/22/2018	25.14	24.49	65304927
5/23/2018	25.16	24.74	65340546
5/24/2018	25.18	24.49	65375807
5/25/2018	25.15	24.28	65410773
5/26/2018	25.11	24.69	65446320
5/27/2018	25.07	24.50	65481595
5/28/2018	24.98	24.27	65516548
5/29/2018	24.99	23.74	65550739
5/30/2018	25.06	22.47	65583096
5/31/2018	25.05	23.54	65616993
Average For The Month	24.73	24.14	
Total ⁽²⁾ :			1,077,428

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 2018**

**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)
6/1/2018	25.01	24.16	65651786
6/2/2018	24.94	24.05	65686412
6/3/2018	24.79	23.84	65720745
6/4/2018	24.78	23.75	65754950
6/5/2018	24.78	24.02	65789533
6/6/2018	24.80	23.91	65823966
6/7/2018	22.71	23.01	65857105
6/8/2018	20.54	21.64	65888265
6/9/2018	20.55	21.70	65919516
6/10/2018	20.49	21.59	65950600
6/11/2018	20.46	21.77	65981954
6/12/2018	19.92	21.57	66013008
6/13/2018	19.76	20.91	66043113
6/14/2018	19.69	20.22	66072228
6/15/2018	19.55	20.52	66101772
6/16/2018	16.43	16.75	66125887
6/17/2018	22.57	22.15	66157790
6/18/2018	22.78	21.86	66189275
6/19/2018	25.03	23.43	66223009
6/20/2018	25.44	23.49	66256833
6/21/2018	25.53	23.98	66291366
6/22/2018	25.52	24.75	66327012
6/23/2018	25.52	24.78	66362697
6/24/2018	25.68	24.58	66398097
6/25/2018	25.85	24.58	66433485
6/26/2018	25.78	24.16	66468273
6/27/2018	25.56	23.98	66502802
6/28/2018	25.31	23.68	66536903
6/29/2018	25.15	23.49	66570732
6/30/2018	25.13	23.52	66604600
Average	23.33	22.86	
Total ⁽²⁾ :			987,607

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 3

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

<u>Well</u>	<u>April 20, 2018 (ft msl)</u>	<u>May 2018</u>	<u>June 2018</u>
PW01	1162.48	----	----
PW02	Abandoned	----	----
PW03	1162.46	----	----
PW3S	1161.85	----	----
PW04	1161.79	----	----
PW05	1161.81	----	----
PW06	1162.16	----	----
PW07	1161.94	----	----
PW08	1162.73	----	----
PW09I	----	----	----
PW09O	1161.82	----	----
PW10	1161.9	----	----
PW11	1160.48	----	----
PW12	1162.22	----	----
PW13	1161.82	----	----
PW14	1161.49	----	----
PW15	1161.49	----	----
PW16	1161.60	----	----
PW17	1160.22	----	----
PW18	1161.77	----	----
PW19	1161.36	----	----
PW20	1160.97	----	----
PW21	1161.09	----	----
PW22	1161.85	----	----
PW23	1161.76	----	----
PW24	1160.26	----	----
PW25	1159.67	----	----
PW26	1159.80	----	----
PW27	1159.18	----	----
PW28	1162.55	----	----
PW29	1162.59	----	----
P01	1161.77	----	----
OW01	1163.68	----	----
W01A	1162.76	----	----
W01B	1162.73	----	----
W02	1162.25	----	----
W03A	1161.22	----	----
W03B	1161.74	----	----
W04A	1162.17	----	----
W04B	1162.16	----	----
W05	1161.8	----	----
W06R	1162.7	----	----
W07	1162.49	----	----
W08	1168.61	----	----
W09	1162.15	----	----
W10A	1161.35	----	----
W10B	1161.34	----	----
W11	1161.27	----	----
W12	1160.86	----	----
W13	1161.89	----	----
W14	1161.2	----	----
W16	1161.97	----	----
W17	1161.52	----	----
W18	1161.46	----	----

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

<u>Well</u>	<u>April 20, 2018 (ft msl)</u>	<u>May 2018</u>	<u>June 2018</u>
W19	1162.39	----	----
W21	1161.26	----	----
W22	1161.17	----	----
W23	1161.23	----	----
W24A	1161.24	----	----
W25	1162.87	----	----
W26	1161.32	----	----
W27	1161.65	----	----
W28	1161.48	----	----
W29	1161.32	----	----
W30	1161.77	----	----
W31	1161.32	----	----
W32	1161.34	----	----
W33	1161.99	----	----
W34	1161.92	----	----
W35	1161.88	----	----
W36	1162.25	----	----
W39	1161.98	----	----
W40	1161.34	----	----
W41	1161.94	----	----
W42	1162.4	----	----
W44	1161.78	----	----
W45	1162.28	----	----
W46	1161.6	----	----
W47	1160.49	----	----
W48	1161.04	----	----
W49	1161.65	----	----
W66	1162.64	----	----
W67	1162.61	----	----
W68A	1162.65	----	----
W68B	1162.59	----	----
W69	1162.01	----	----
W70B	Abandoned	----	----
River	----	----	----
IW01	1161.77	----	----
IW01A	1161.79	----	----
FP01	1159.71	----	----
FP02	1160.10	----	----
FP03	1158.444	----	----
FP04	1160.27	----	----
3M Basin	Ice in both Basins	----	----
DFOWM 5	----	----	----
DFOWM 9	Abandoned	----	----
DFOWM 10A	Abandoned	----	----
DFOWM 11	----	----	----
DFOWM 12	----	----	----
W71	1164.09	----	----
W72	1162.94	----	----
W73	1162.39	----	----
W74	1162.2	----	----

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>	April 20, 2018 (ft)	May 2018	June 2018
PW01	0.00	----	----
PW02	----	----	----
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	0.00	----	----
W01B	0.00	----	----
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	----	----
W10B	0.00	----	----
W11	0.00	----	----
W12	0.00	----	----
W13	0.00	----	----
W14	0.00	----	----
W16	0.00	----	----
W17	0.00	----	----

Free Product Measurements
 Wauleco, Inc.
 Wausau, Wisconsin

<u>Well</u>	April 20, 2018 (ft)	May 2018	June 2018
W18	0.00	----	----
W19	0.00	----	----
W21	0.00	----	----
W22	0.00	----	----
W23	0.00	----	----
W24A	0.00	----	----
W25	0.00	----	----
W26	0.00	----	----
W27	0.00	----	----
W28	0.00	----	----
W29	0.00	----	----
W30	0.00	----	----
W31	0.00	----	----
W32	0.00	----	----
W33	0.00	----	----
W34	0.00	----	----
W35	0.06	----	----
W36	0.00	----	----
W39	0.00	----	----
W40	0.00	----	----
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	0.00	----	----
River	----	----	----
IW01	0.00	----	----
IW01A	0.00	----	----
FP01	0.00	----	----
FP02	0.04	----	----
FP03	0.03	----	----
FP04	0.00	----	----
3M Basin	0.00	----	----
DFOWM 5	----	----	----
DFOWM 9	0.00	----	----
DFOWM 10A	0.00	----	----
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

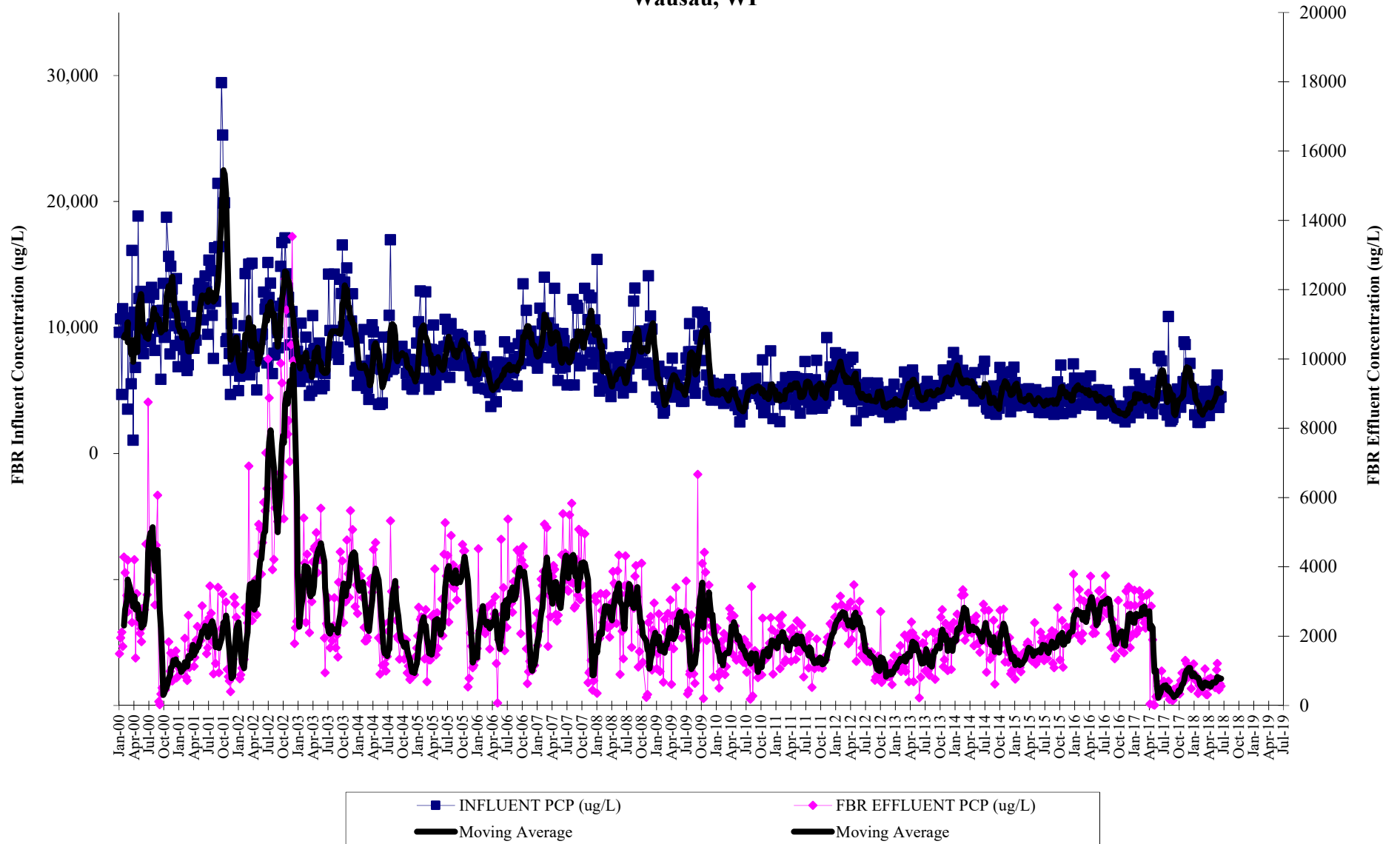
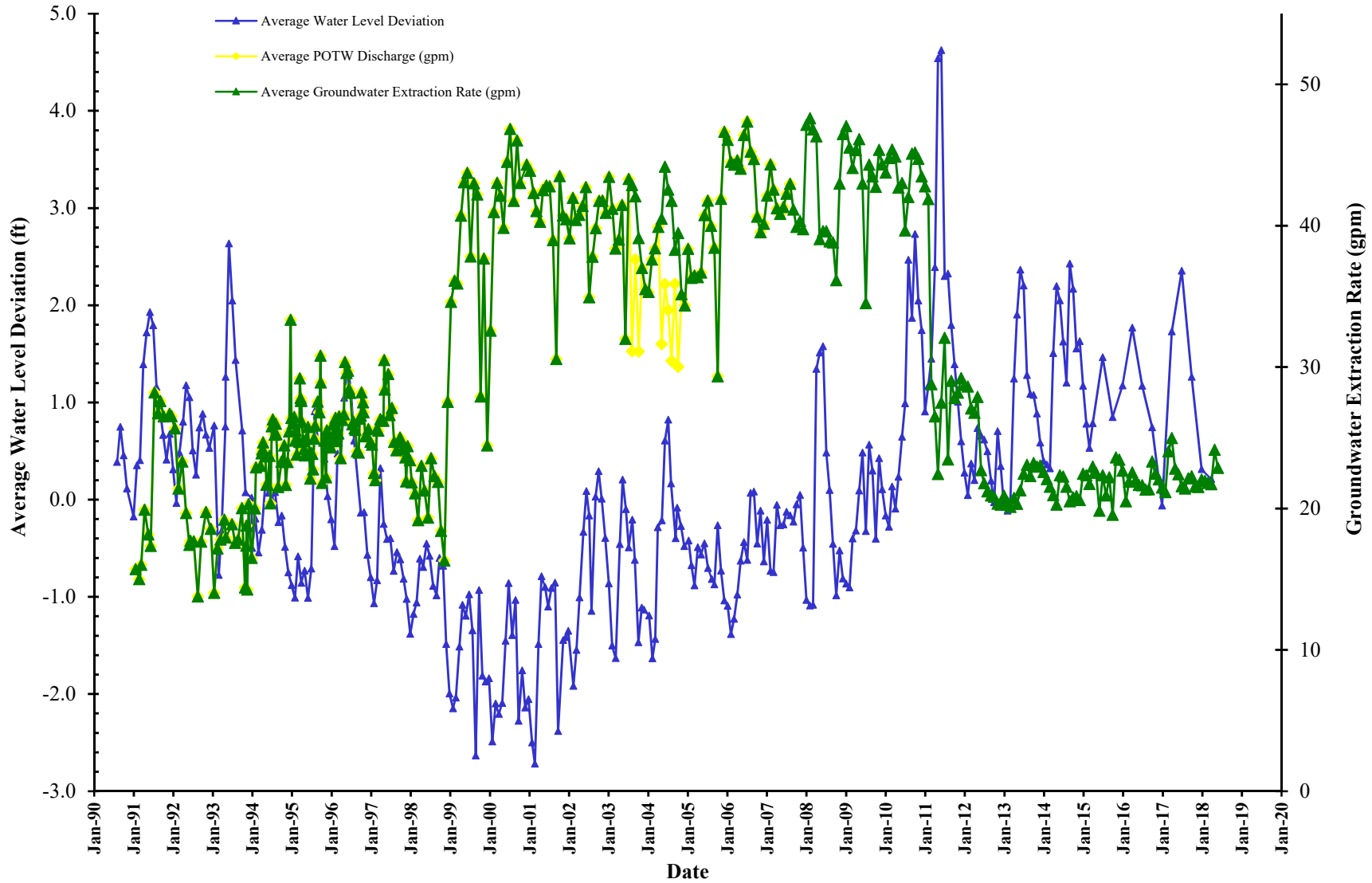


FIGURE 2

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.