MONTGOMERY WATSON

December 20, 2000

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WAUSAU DN

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: November Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the November Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

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

Sincerely,

MONTGOMERY WATSON

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek – MW Wauleco (1)

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WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
NOVEMBER 2000

SUMMARY OF NOVEMBER 2000 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 42 ug/L for the month of November, with a maximum single day concentration of 253 ug/L on November 1, 2000. The laboratory result for PCP in the system effluent was 290 ug/L on November 14, 2000. The on-site result for the same period ranged from 103 to 186 ug/L.

Two separate component failures adversely affected effluent quality during November. As discussed in the October report, the PVC screen at the base of carbon polishing vessel #3 had failed, allowing some flow to "short circuit" the remaining carbon in the vessel, resulting in an increased effluent concentration. PCP effluent concentrations decreased sharply after vessel #3 was removed from the system on November 1. The elevated PCP effluent levels noted in mid-November are attributed to increased suspended solids in the effluent end of the system. Solid levels were elevated due to higher recirculation flow rates caused by the failure of the variable frequency controller, which was replaced on November 15. Despite these two events, the results indicate that the effluent PCP concentrations were below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on November 14 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was 0.17 ug/L.

PCP influent concentrations ranged from 7894 ug/L to 15,634 ug/L during November (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR effluent have increased gradually since the August carbon replacement, but remain well below previous levels. The average PCP removal efficiency for the FBR during November was 89% compared to an average of 72% during the previous year.

Daily groundwater flow through the treatment system (Table 2) averaged 50 gpm. The discharge flowmeter was not functioning in November due to the carbon release from finishing vessel #3 discussed previously. For this reason, discharge flow rates are not available for November. This meter was replaced on December 5.

Even with these upsets, the total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since November 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site increased slightly in November, following a decrease in October. Product recovery for November was 375 gallons, down from 474 gallons in October.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

Groundwater elevation and product thickness data for September, October, and November are summarized in Table 4.

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TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Biological Oxygen Demand	mg/L	11/14/00	15	5				3	
Chemical Oxygen Demand	mg/L	11/14/00	48	48				31	
Chloride	mg/L	11/14/00	210	216				216	
Dissolved Oxygen	mg/L	11/01/00	7.9	5.3	5.5				
	mg/L	11/09/00	8	4.8	5.4				
	mg/L	11/14/00	8.2	5.1	4.4				
	mg/L	11/22/00	7.1	4.3	5.3				
	mg/L	11/30/00	7.8	5.1	5.1				
Nitrogen, Ammonia	mg/L	11/01/00	4	1	2				
	mg/L	11/09/00	3	1	1				
	mg/L	11/14/00	3	1.5	1.5				
	mg/L	11/22/00	2	0.2	0.2				
	mg/L	11/30/00	2.5	0.4	0.6				
Nitrogen, Nitrate	mg/L	11/01/00	0.2	0.2	<				
Nitrogen, Nitrate	mg/L	11/09/00	<	<	<				
	mg/L	11/14/00	0.2	0.6	<				
	mg/L	11/22/00	<	0.2	<				
	mg/L	11/30/00	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	11/14/00	0.7	0.85				0.15	
Nitrogen, Total Kjeldahl	mg/L	11/14/00	1.45	0.77				0.9	
Pentachlorophenol-Screen	µg/L	11/01/00	15634	1837	2505			253	
	µg/L	11/02/00						31	
	µg/L	11/03/00						24	
	µg/L	11/04/00						13	
	µg/L	11/05/00						13	
	µg/L	11/06/00						13	
	µg/L	11/07/00						25	
	µg/L	11/08/00						22	
	µg/L	11/09/00	7894	989	1589			25	
	µg/L	11/10/00						186	
	µg/L	11/11/00						186	
	µg/L	11/12/00						186	
	µg/L	11/13/00						103	
	µg/L	11/14/00	14856	1515	893			123	
	µg/L	11/15/00						10	
	µg/L	11/16/00						9	
	µg/L	11/17/00						3	
	µg/L	11/18/00						4	
	µg/L	11/19/00						4	
	µg/L	11/20/00						4	

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Pentachlorophenol-Screen	µg/L	11/21/00						4	
	µg/L	11/22/00	13037	704	287			3	
	µg/L	11/23/00						3	
	µg/L	11/24/00						3	
	µg/L	11/25/00						3	
	µg/L	11/26/00						1	
	µg/L	11/27/00						1	
	µg/L	11/28/00						1	
	µg/L	11/29/00						2	
	µg/L	11/30/00	11147	1451	883			1	
pH	S.U.	11/01/00	6.2	6.4	6.4				
	S.U.	11/09/00	6.2	6.4	6.4				
	S.U.	11/14/00	6.4	6.5	6.6				
	S.U.	11/22/00	6.3	6.4	6.4				
	S.U.	11/30/00	6.3	6.4	6.5				
Phosphorus, Ortho	mg/L	11/14/00	0.81	0.67				0.95	
Phosphorus, Phosphate	mg/L	11/01/00	2.5	1.5	1.5				
	mg/L	11/09/00	4	3	2				
	mg/L	11/14/00	2.5	2.5	2.5				
	mg/L	11/22/00	1.5	1.5	1.5				
	mg/L	11/30/00	1.5	1.5	1.5				
Solids, Total Suspended	mg/L	11/14/00	13	26			4	6	
Mercury	µg/L	11/14/00	0.41	0.23				0.17	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	11/14/00	<	<	<		<	<	<
2,4,5-Trichlorophenol	µg/L	11/14/00	<	<	<		<	<	<
2,4,6-Trichlorophenol	µg/L	11/14/00	<	<	<		<	<	<
2,4-Dichlorophenol	µg/L	11/14/00	<	<	<		<	<	<
2,4-Dimethylphenol	µg/L	11/14/00	<	<	<		<	<	<
2,4-Dinitrophenol	µg/L	11/14/00	<	<	<		<	<	<
2,6-Dichlorophenol	µg/L	11/14/00	<	<	<		<	<	<
2-Chlorophenol	µg/L	11/14/00	<	<	<		<	<	<
2-Methylphenol	µg/L	11/14/00	<	<	<		<	<	<
2-Nitrophenol	µg/L	11/14/00	<	<	<		<	<	<
3&4-Methylphenol	µg/L	11/14/00	<	<	<		<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	11/14/00	<	<	<		<	<	<
4-Chloro-3-Methylphenol	µg/L	11/14/00	<	<	<		<	<	<
4-Nitrophenol	µg/L	11/14/00	<	<	<		<	<	<
Pentachlorophenol	µg/L	11/14/00	28000	890	690		470	290	270
Phenol	µg/L	11/14/00	<	<	<		<	<	<

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate [1] (gpm)	POTW Discharge Flow Rate [1] (gpm)	POTW Totalized Discharge (gal)
11/1/00	51.77	[3]	
11/2/00	54.61		
11/3/00	55.91		
11/4/00	55.66		
11/5/00	55.35		
11/6/00	55.07		
11/7/00	53.67		
11/8/00	54.94		
11/9/00	51.26		
11/10/00	49.11		
11/11/00	49.17		
11/12/00	49.38		
11/13/00	48.95		
11/14/00	48.96		
11/15/00	48.64		
11/16/00	26.28		
11/17/00	44.45		
11/18/00	50.88		
11/19/00	50.51		
11/20/00	50.30		
11/21/00	50.23		
11/22/00	50.28		
11/23/00	49.97		
11/24/00	49.69		
11/25/00	49.48		
11/26/00	49.27		
11/27/00	49.06		
11/28/00	48.80		
11/29/00	48.53		
11/30/00	48.74		
Average	49.96		
Total [2]:			

Footnotes:

(1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.

(2) Total is the cumulative POTW discharge during the reporting period.

(3) POTW totalized discharge and flowrates not available during November due to failure of the effluent flowmeter. This meter was replaced on December 5.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
11/01/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	1.7	0.0	0.0	10.3
11/02/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	3.4	0.0	0.0	15.4
11/03/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	8.5
11/04/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7	3.4	1.7	3.4	0.0	0.0	11.9
11/05/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	5.2	0.0	0.0	13.7
11/06/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	5.2	5.2	0.0	0.0	17.3
11/07/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	5.2	8.6	5.2	0.0	0.0	20.7
11/08/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	5.2	5.2	0.0	0.0	17.3
11/09/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	5.2	6.9	3.4	0.0	0.0	17.2
11/10/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	6.9	5.2	1.7	0.0	0.0	15.5
11/11/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	6.9	5.2	0.0	0.0	0.0	13.8
11/12/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	10.3	5.2	0.0	0.0	0.0	17.2
11/13/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	12.0	6.9	0.0	0.0	0.0	20.6
11/14/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	20.4	5.2	0.0	0.0	0.0	27.3
11/15/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	13.8	5.2	0.0	0.0	0.0	20.7
11/16/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7
11/17/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	6.8
11/18/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	8.5
11/19/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	6.8
11/20/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	5.1
11/21/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	1.7	0.0	0.0	0.0	8.5
11/22/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	5.2	1.7	0.0	0.0	0.0	8.6
11/23/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	1.7	0.0	0.0	0.0	8.5
11/24/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	0.0	3.4	1.7	0.0	0.0	0.0	8.5
11/25/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4	0.0	0.0	0.0	10.2
11/26/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4	0.0	0.0	0.0	10.2
11/27/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.4	0.0	0.0	0.0	10.2
11/28/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	1.7	3.4	3.4	0.0	0.0	0.0	11.9
11/29/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	0.0	0.0	1.7	11.9
11/30/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.4	0.0	0.0	0.0	10.2
Well Total	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	58.0	0.0	6.8	0.0	0.0	0.0	23.8	142.2	103.0	36.1	0.0	1.7	375.0

Note:
The following wells' product pumps were not operated this month due to insufficient product thickness: PW04, PW05, PW07, PW09, PW10, PW12, PW15, PW16, PW17, PW19, PW21, PW22, PW23, and PW28.

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	September 13 2000		October 18 2000		November 27 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	-----	1162.46	-----	1162.38	-----	1161.85
PW02	-----	1162.45	-----	1162.37	-----	1161.86
PW03	-----	1162.58	-----	1162.42	-----	1162.03
PW3S	-----	-----	0.05	1159.51	-----	-----
PW04	-----	1159.40	-----	1158.98	0.30	1156.80
PW05	-----	1158.01	0.12	1158.10	0.20	1157.62
PW06	-----	-----	0.41	1161.31	-----	-----
PW07	0.26	1157.29	0.05	1161.15	-----	1156.98
PW08	-----	-----	0.34	1160.58	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1161.23	-----	1160.79	-----	1160.37
PW10	-----	1160.82	-----	1159.87	-----	1160.36
PW11	0.60	1154.99	0.74	1154.91	0.27	1155.44
PW12	-----	1162.40	-----	1162.16	-----	1161.70
PW13	0.63	1158.53	0.84	1158.23	0.32	1158.03
PW14	-----	-----	0.12	1160.07	-----	-----
PW15	0.37	1160.17	0.46	1159.47	0.44	1159.61
PW16	-----	1159.60	-----	1159.54	-----	1159.43
PW17	1.05	1158.64	0.15	1159.01	0.10	1157.59
PW18	0.43	1159.06	1.23	1158.36	0.48	1158.79
PW19	0.38	1158.72	0.46	1158.59	0.33	1158.27
PW20	0.41	1158.98	0.61	1158.62	0.83	1158.06
PW21	0.58	1158.88	0.66	1158.64	0.48	1158.38
PW22	-----	1161.01	-----	1160.94	-----	1160.50
PW23	0.06	1157.77	0.18	1157.21	0.22	1157.91
PW24	0.46	1158.12	0.60	1157.71	0.89	1157.19
PW25	1.16	1157.19	0.65	1157.04	0.36	1157.50
PW26	0.24	1157.38	0.50	1156.55	0.43	1156.40
PW27	0.38	1158.98	0.86	1157.21	0.69	1159.05
PW28	0.13	1161.41	0.19	1161.10	0.19	1160.71
PW29	0.59	1159.82	0.28	1159.65	0.49	1159.06
P01	0.22	1160.31	0.24	1160.22	0.23	1159.83
OW01	-----	-----	-----	1162.90	-----	-----
W01A	-----	-----	-----	1163.06	-----	1162.56
W01B	-----	-----	-----	1163.02	-----	-----
W02	0.45	1162.22	0.45	1161.92	0.42	1161.53
W03A	0.55	1160.12	0.63	1159.46	0.54	1159.47
W03B	-----	1161.59	-----	1160.99	-----	1160.91
W04A	0.19	1161.60	0.06	1161.61	0.22	1161.01
W04B	-----	-----	0.03	1161.62	-----	-----
W05	0.30	1160.26	0.27	1160.25	0.41	1159.70
W06R	0.14	1162.84	0.18	1162.71	0.19	1162.21
W07	-----	-----	0.79	1161.84	-----	-----
W08	-----	-----	-----	1174.25	-----	-----
W09	-----	-----	-----	1161.81	-----	-----
W10A	-----	-----	-----	1160.63	-----	-----
W10B	-----	-----	-----	1160.67	-----	-----
W11	-----	-----	-----	1160.61	-----	-----

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	September 13 2000		October 18 2000		November 27 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	-----	-----	1160.35	-----	-----
W13	-----	-----	-----	1160.93	-----	1160.93
W14	-----	-----	-----	1159.45	-----	-----
W16	-----	-----	-----	1161.42	-----	-----
W17	-----	-----	0.46	1159.75	-----	-----
W18	-----	-----	-----	1160.61	-----	-----
W19	-----	-----	-----	1162.19	-----	-----
W21	-----	-----	-----	1160.51	-----	-----
W22	0.06	1161.09	0.09	1160.41	0.10	1160.14
W23	-----	-----	-----	1160.61	-----	-----
W24A	-----	-----	-----	1160.59	-----	-----
W25	-----	-----	-----	1163.02	-----	1162.50
W26	-----	-----	-----	1160.60	-----	-----
W27	-----	-----	-----	1161.07	-----	-----
W28	-----	-----	-----	1160.64	-----	-----
W29	-----	-----	-----	1160.40	-----	-----
W30	0.22	1160.24	0.27	1160.10	0.47	1159.51
W31	-----	-----	-----	1160.63	-----	-----
W32	-----	-----	-----	1160.60	-----	-----
W33	-----	-----	0.11	1161.21	-----	-----
W34	0.14	1157.68	0.14	1157.77	0.20	1157.30
W35	0.20	1160.52	0.23	1160.43	0.32	1159.96
W36	-----	1161.35	-----	1161.34	-----	1160.91
W39	-----	-----	0.04	1161.40	-----	-----
W40	-----	-----	0.56	1150.12	-----	-----
W41	-----	-----	-----	1165.95	-----	1161.23
W42	-----	-----	0.06	1162.08	-----	-----
W44	0.21	1160.62	0.24	1160.52	0.31	1160.08
W45	0.11	1161.86	0.10	1160.73	0.09	1160.31
W46	0.53	1159.84	0.63	1159.72	0.67	1159.35
W47	0.23	1156.26	0.08	1156.13	1.00	1154.92
W48	-----	1156.65	0.08	1155.85	0.02	1156.29
W49	0.10	1157.19	0.33	1156.38	0.16	1156.56
W66	-----	1162.93	-----	1162.76	-----	1162.29
W67	-----	1162.91	-----	1162.70	-----	1162.25
W68A	-----	-----	0.30	1162.48	-----	-----
W68B	-----	-----	-----	1162.70	-----	-----
W69	0.95	1160.55	0.90	1160.53	0.87	1160.10
W70B	-----	-----	-----	1162.51	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:
ft msl = feet mean sea level

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

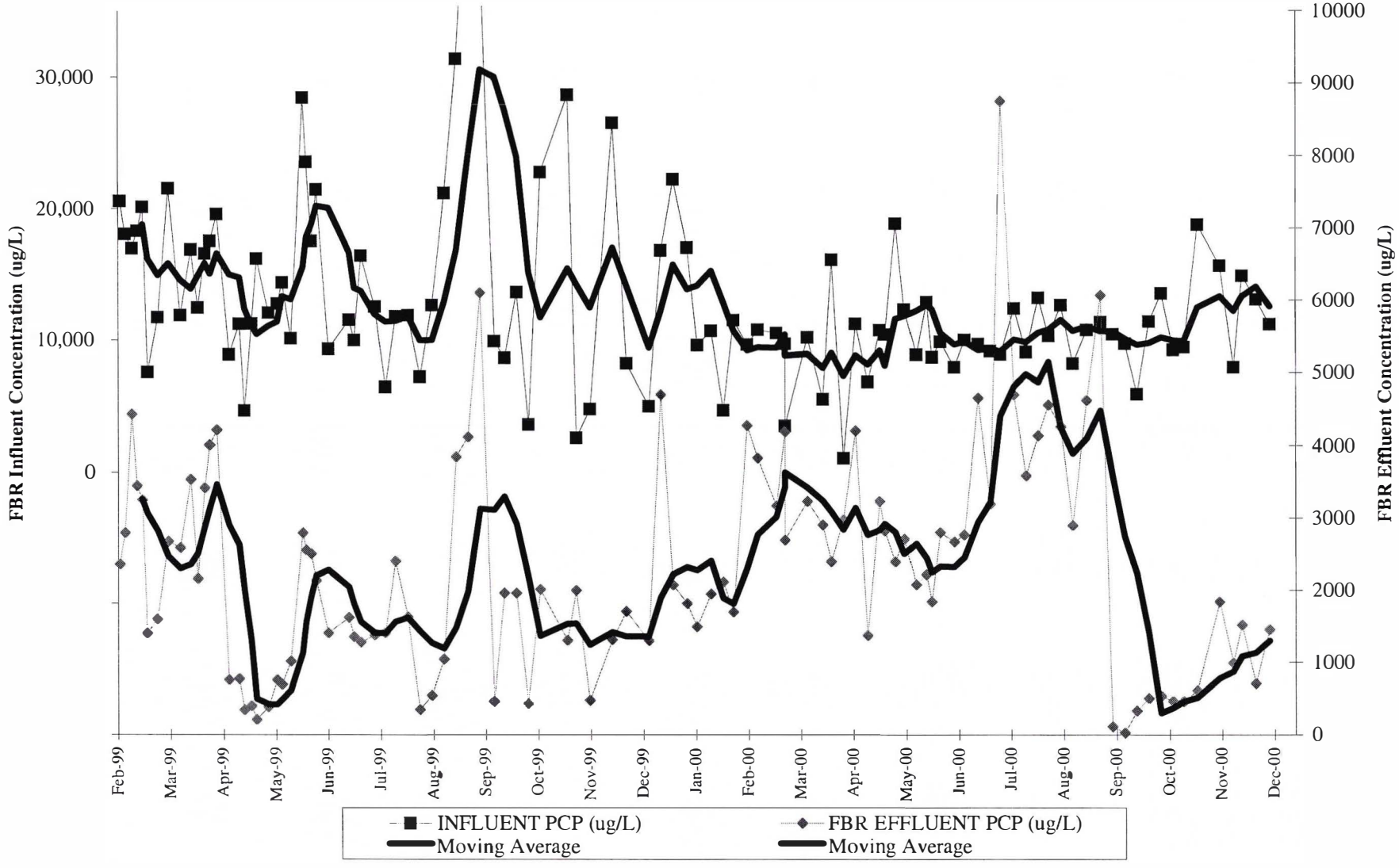


FIGURE 3
Cumulative Product Recovery by Phase and Overall

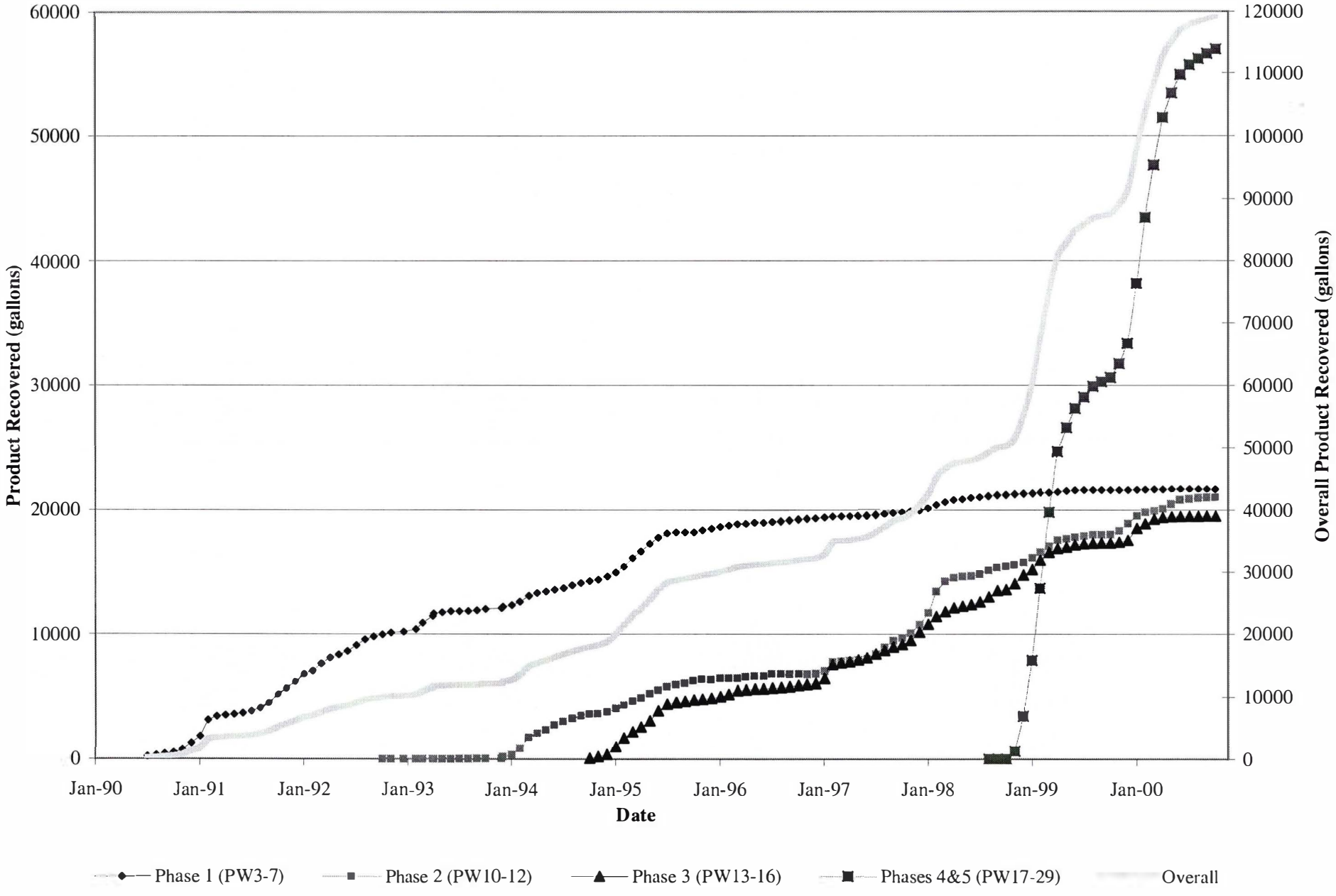
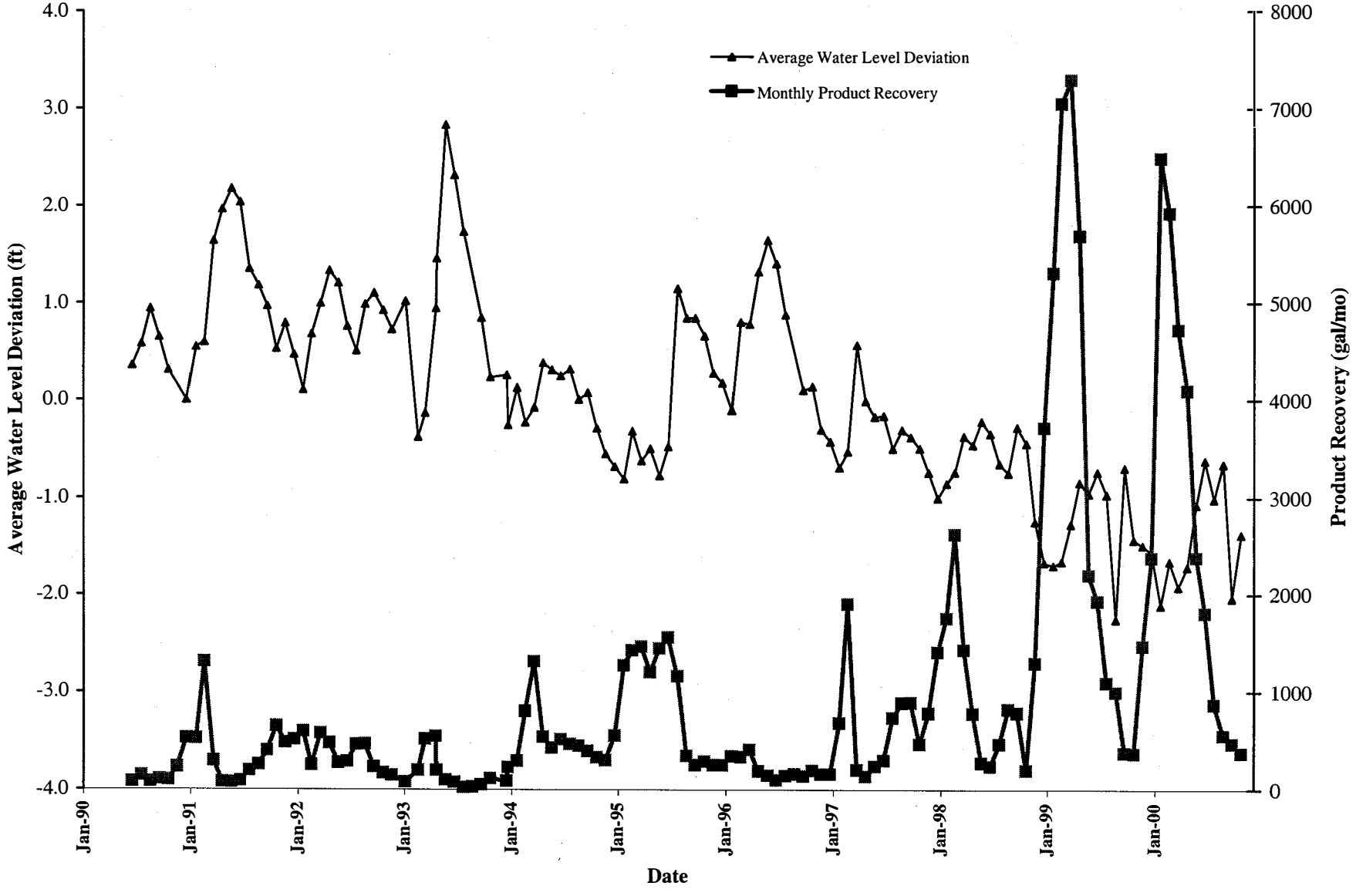


FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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12/14/00

MONTGOMERY WATSON

November 20, 2000

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: October Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

BRRTS# 02-37-000006

RECEIVED
NOV 27 2000
WAUSAU DNR

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the October Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

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

Sincerely,

MONTGOMERY WATSON

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek – MW Wauleco (1)

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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

Serving the World's Environmental Needs

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
OCTOBER 2000

SUMMARY OF OCTOBER 2000 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 7 ug/L for the month of October, with a maximum single day concentration of 65 ug/L on October 31, 2000. The laboratory result for PCP in the system effluent was 4 ug/L on October 19, 2000. The on-site result for the same day was 1 ug/L. All results indicate that the effluent PCP concentrations were below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on October 19 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was 0.24 ug/L.

PCP influent concentrations ranged from 9216 ug/L to 18,742 ug/L during October (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR effluent declined sharply in late August and remained low in September and October, following the replacement of carbon in the FBR. The average PCP removal efficiency for the FBR during October was 96% compared to an average of 72% during the previous year.

Daily groundwater flow through the treatment system (Table 2) averaged 51 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since October 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site decreased sharply in October, following an increase in September. Product recovery for October was 474 gallons, down from 557 gallons in September.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Accidental Discharge

Between the last few days of October and November 1, 2000, approximately 400 lbs. of granular activated carbon (GAC) was released due to the failure of a PVC screen at the base of carbon finishing vessel #3. The release was discovered on November 2, and the Wausau Water Works were notified that morning. Written notification was provided on November 6, 2000. A copy of this notification is included as Attachment A of this report.

As a result of the carbon loss, some "short circuiting" of the flow occurred from October 28 through November 1. This is evidenced by the increased effluent concentrations shown in Table 1. The maximum effluent concentration noted was 253 ug/L of PCP, measured by the on-site gas chromatograph, on the morning of November 1, 2000. The situation was quickly rectified by removing carbon vessel #3 from the system. Following this action, effluent concentrations had decreased to 14 ug/L by the afternoon of November 1.

Groundwater Monitoring

Groundwater elevation and product thickness data for August, September, and October are summarized in Table 4.

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TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Biological Oxygen Demand	mg/L	10/19/00	130	15				4	
Chemical Oxygen Demand	mg/L	10/19/00	449	30				39	
Chloride	mg/L	10/19/00	269	269				208	
Dissolved Oxygen	mg/L	10/05/00	7.5	3	4.4				
	mg/L	10/11/00	7.7	3.2	3.2				
	mg/L	10/19/00	6.5	1.3	2.6				
	mg/L	10/25/00	7.2	4.1	3.5				
Nitrogen, Ammonia	mg/L	10/05/00	2	1	0.4				
	mg/L	10/11/00	1.5	0.3	0.6				
	mg/L	10/19/00	2.5	1	1				
	mg/L	10/25/00	2	2	1				
Nitrogen, Nitrate	mg/L	10/05/00	1	0.8	0.6				
	mg/L	10/11/00	<	<	0.1				
	mg/L	10/19/00	<	<	<				
	mg/L	10/25/00	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	10/19/00	0.43	0.96				0.29	
Nitrogen, Total Kjeldahl	mg/L	10/19/00	2.96	1.29				0.66	
Pentachlorophenol-Screen	µg/L	10/01/00						1	
	µg/L	10/02/00						1	
	µg/L	10/03/00						1	
	µg/L	10/04/00						1	
	µg/L	10/05/00	9216	458	327			1	
	µg/L	10/06/00						3	
	µg/L	10/07/00						2	
	µg/L	10/08/00						2	
	µg/L	10/09/00						2	
	µg/L	10/10/00						1	
	µg/L	10/11/00	9392	457	156			1	
	µg/L	10/12/00						2	
	µg/L	10/13/00						1	
	µg/L	10/14/00						1	
	µg/L	10/15/00						1	
	µg/L	10/16/00						1	
	µg/L	10/17/00						1	
	µg/L	10/18/00						1	
	µg/L	10/19/00	18742	606	364			1	
	µg/L	10/20/00						3	
	µg/L	10/21/00						1	
	µg/L	10/22/00						1	
	µg/L	10/23/00						1	

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Pentachlorophenol-Screen	µg/L	10/24/00						4	
	µg/L	10/25/00						2	
	µg/L	10/26/00						3	
	µg/L	10/27/00						9	
	µg/L	10/28/00						35	
	µg/L	10/29/00						35	
	µg/L	10/30/00						35	
	µg/L	10/31/00						65	
pH	S.U.	10/05/00	6.2	6.3	6.4				
	S.U.	10/11/00	6.2	6.2	6.3				
	S.U.	10/19/00	6.3	6.3	6.4				
	S.U.	10/25/00	6.4	6.4	6.5				
Phosphorus, Ortho	mg/L	10/19/00	<	0.11				0.22	
Phosphorus, Phosphate	mg/L	10/05/00	<	<	<				
	mg/L	10/11/00	0.8	0.4	0.4				
	mg/L	10/19/00	0.4	0.3	0.3				
	mg/L	10/25/00	0.8	0.6	0.6				
Solids, Total Suspended	mg/L	10/19/00	39	12		8	5	<	
Mercury	µg/L	10/19/00	16.4	1.1				0.24	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	10/19/00	8300	400	170	190	170	16	<
2,4,5-Trichlorophenol	µg/L	10/19/00	<	<	<	<	<	<	<
2,4,6-Trichlorophenol	µg/L	10/19/00	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	10/19/00	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	10/19/00	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	10/19/00	2100	96	44	43	44	5.9	4.5
2,6-Dichlorophenol	µg/L	10/19/00	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	10/19/00	<	<	<	<	<	<	<
2-Methylphenol	µg/L	10/19/00	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	10/19/00	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	10/19/00	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	10/19/00	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	10/19/00	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	10/19/00	<	83	39	56	46	<	<
Pentachlorophenol	µg/L	10/19/00	15000	850	300	400	380	4.1	3.4
Phenol	µg/L	10/19/00	<	<	<	<	<	<	<

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate [1] (gpm)	POTW Discharge Flow Rate [1] (gpm)	POTW Totalized Discharge (gal)
10/01/00	51.55	44.41	36,951,029
10/02/00	51.46	44.27	37,014,783
10/03/00	54.71	47.90	37,083,754
10/04/00	55.19	47.61	37,152,308
10/05/00	55.75	48.42	37,222,033
10/06/00	57.04	48.43	37,291,775
10/07/00	55.69	47.33	37,359,933
10/08/00	55.14	46.45	37,426,816
10/09/00	54.89	46.30	37,493,495
10/10/00	54.79	46.85	37,560,963
10/11/00	54.71	46.26	37,627,574
10/12/00	55.05	45.70	37,693,380
10/13/00	54.29	46.47	37,760,301
10/14/00	53.87	46.94	37,827,895
10/15/00	53.59	47.00	37,895,577
10/16/00	53.33	47.06	37,963,346
10/17/00	53.07	46.94	38,030,942
10/18/00	52.97	45.74	38,096,804
10/19/00	52.59	47.51	38,165,224
10/20/00	53.95	47.17	38,233,152
10/21/00	54.37	45.29	38,298,369
10/22/00	49.67	42.99	38,360,275
10/23/00	43.19	37.74	38,414,625
10/24/00	50.03	45.10	38,479,562
10/25/00	51.13	44.08	38,543,041
10/26/00	20.43	18.41	38,569,545
10/27/00	33.26	23.87	38,603,916
10/28/00	53.48	44.12	38,667,452
10/29/00	44.32	37.18	38,720,989
10/30/00	49.98	27.79	38,761,003
10/31/00	51.85	32.06	38,807,171
Average	51.14	43.01	
Total [2]:			1,920,086

Footnotes:

(1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.

(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
10/01/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	6.9	5.2	3.4	0.0	0.0	0.0	30.9
10/02/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	8.6	6.9	1.7	0.0	0.0	0.0	25.8
10/03/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	8.6	3.4	0.0	1.7	0.0	0.0	22.3
10/04/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	5.2	0.0	1.7	0.0	0.0	0.0	5.2	5.2	1.7	1.7	0.0	0.0	24.1
10/05/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	5.2	3.4	1.7	1.7	0.0	0.0	18.8
10/06/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.2	3.4	1.7	0.0	0.0	0.0	13.7
10/07/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	1.7	0.0	0.0	17.0
10/08/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	3.4	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	0.0	0.0	0.0	17.0
10/09/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	0.0	0.0	0.0	13.6
10/10/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4	0.0	0.0	0.0	15.3
10/11/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4	0.0	0.0	0.0	11.9
10/12/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4	0.0	0.0	0.0	13.6
10/13/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	3.4	5.2	0.0	0.0	0.0	17.1
10/14/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	3.4	5.2	0.0	0.0	0.0	15.4
10/15/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	5.2	1.7	0.0	0.0	17.1
10/16/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	1.7	0.0	0.0	1.7	5.2	3.4	1.7	0.0	0.0	17.1
10/17/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	5.2	3.4	1.7	0.0	0.0	17.1
10/18/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3.4	5.2	5.2	1.7	0.0	0.0	20.6
10/19/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3.4	5.2	3.4	1.7	0.0	0.0	18.8
10/20/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	10.2
10/21/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	0.0	0.0	10.2
10/22/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	11.9
10/23/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	1.7	1.7	0.0	0.0	10.2
10/24/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	3.4	1.7	1.7	0.0	0.0	11.9
10/25/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	1.7	1.7	0.0	0.0	11.9
10/26/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	3.4	1.7	1.7	0.0	0.0	10.2
10/27/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/28/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/29/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/30/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	6.9	8.6	0.0	0.0	25.8
10/31/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	5.2	6.9	0.0	0.0	24.1
Well Total	0.0	0.0	0.0	0.0	0.0	47.6	0.0	17.0	0.0	0.0	5.1	75.2	0.0	3.4	1.7	0.0	0.0	80.5	114.8	85.6	42.7	0.0	0.0	473.6

Note:
The following wells' product pumps were not operated this month due to insufficient product thickness: PW04, PW05, PW07, PW09, PW10, PW12, PW15, PW16, PW19, PW22, PW23, PW28, and PW29.

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	August 14 2000		September 13 2000		October 18 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	-----	1162.15	-----	1162.46	-----	1162.38
PW02	-----	1162.15	-----	1162.45	-----	1162.37
PW03	-----	1162.18	-----	1162.58	-----	1162.42
PW3S	-----	-----	-----	-----	0.05	1159.51
PW04	0.07	1160.42	-----	1159.40	-----	1158.98
PW05	0.35	1156.71	-----	1158.01	0.12	1158.10
PW06	-----	-----	-----	-----	0.41	1161.31
PW07	0.60	1156.91	0.26	1157.29	0.05	1161.15
PW08	-----	-----	-----	-----	0.34	1160.58
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1160.66	-----	1161.23	-----	1160.79
PW10	0.02	1160.75	-----	1160.82	-----	1159.87
PW11	0.79	1154.44	0.60	1154.99	0.74	1154.91
PW12	-----	1161.58	-----	1162.40	-----	1162.16
PW13	0.56	1157.81	0.63	1158.53	0.84	1158.23
PW14	-----	-----	-----	-----	0.12	1160.07
PW15	0.45	1159.60	0.37	1160.17	0.46	1159.47
PW16	-----	1160.24	-----	1159.60	-----	1159.54
PW17	0.21	1157.42	1.05	1158.64	0.15	1159.01
PW18	0.49	1158.77	0.43	1159.06	1.23	1158.36
PW19	0.29	1158.52	0.38	1158.72	0.46	1158.59
PW20	0.81	1158.60	0.41	1158.98	0.61	1158.62
PW21	0.40	1158.89	0.58	1158.88	0.66	1158.64
PW22	-----	1160.78	-----	1161.01	-----	1160.94
PW23	0.45	1157.77	0.06	1157.77	0.18	1157.21
PW24	1.10	1157.08	0.46	1158.12	0.60	1157.71
PW25	0.20	1157.44	1.16	1157.19	0.65	1157.04
PW26	0.54	1156.20	0.24	1157.38	0.50	1156.55
PW27	0.65	1156.42	0.38	1158.98	0.86	1157.21
PW28	0.26	-----	0.13	-----	0.19	-----
PW29	0.31	-----	0.59	-----	0.28	-----
P01	0.16	1160.25	0.22	1160.31	0.24	1160.22
OW01	-----	-----	-----	-----	-----	1162.90
W01A	-----	-----	-----	-----	-----	1163.06
W01B	-----	-----	-----	-----	-----	1163.02
W02	0.48	1161.65	0.45	1162.22	0.45	1161.92
W03A	0.59	1159.46	0.55	1160.12	0.63	1159.46
W03B	-----	1160.95	-----	1161.59	-----	1160.99
W04A	0.24	1161.25	0.19	1161.60	0.06	1161.61
W04B	-----	-----	-----	-----	0.03	1161.62
W05	0.37	1160.08	0.30	1160.26	0.27	1160.25
W06R	0.13	1162.48	0.14	1162.84	0.18	1162.71
W07	-----	-----	-----	-----	0.79	1161.84
W08	-----	-----	-----	-----	-----	1174.25
W09	-----	-----	-----	-----	-----	1161.81
W10A	-----	-----	-----	-----	-----	1160.63
W10B	-----	-----	-----	-----	-----	1160.67
W11	-----	-----	-----	-----	-----	1160.61

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	August 14 2000		September 13 2000		October 18 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	-----	-----	-----	-----	1160.35
W13	-----	-----	-----	-----	-----	1160.93
W14	-----	-----	-----	-----	-----	1159.45
W16	-----	-----	-----	-----	-----	1161.42
W17	-----	-----	-----	-----	0.46	1159.75
W18	-----	-----	-----	-----	-----	1160.61
W19	-----	-----	-----	-----	-----	1162.19
W21	-----	-----	-----	-----	-----	1160.51
W22	0.20	1160.14	0.06	1161.09	0.09	1160.41
W23	-----	-----	-----	-----	-----	1160.61
W24A	-----	-----	-----	-----	-----	1160.59
W25	-----	-----	-----	-----	-----	1163.02
W26	-----	-----	-----	-----	-----	1160.60
W27	-----	-----	-----	-----	-----	1161.07
W28	-----	-----	-----	-----	-----	1160.64
W29	-----	-----	-----	-----	-----	1160.40
W30	0.31	1160.04	0.22	1160.24	0.27	1160.10
W31	-----	-----	-----	-----	-----	1160.63
W32	-----	-----	-----	-----	-----	1160.60
W33	-----	-----	-----	-----	0.11	1161.21
W34	0.15	1157.57	0.14	1157.68	0.14	1157.77
W35	0.29	1160.29	0.20	1160.52	0.23	1160.43
W36	-----	1161.11	-----	1161.35	-----	1161.34
W39	-----	-----	-----	-----	0.04	1161.40
W40	-----	-----	-----	-----	0.56	1150.12
W41	-----	-----	-----	-----	-----	1165.95
W42	-----	-----	-----	-----	0.06	1162.08
W44	0.23	1160.43	0.21	1160.62	0.24	1160.52
W45	0.08	1160.72	0.11	1161.86	0.10	1160.73
W46	0.65	1159.64	0.53	1159.84	0.63	1159.72
W47	1.12	1154.75	0.23	1156.26	0.08	1156.13
W48	0.05	1156.10	-----	1156.65	0.08	1155.85
W49	0.25	1156.61	0.10	1157.19	0.33	1156.38
W66	-----	1162.50	-----	1162.93	-----	1162.76
W67	-----	1162.46	-----	1162.91	-----	1162.70
W68A	-----	-----	-----	-----	0.30	1162.48
W68B	-----	-----	-----	-----	-----	1162.70
W69	0.98	1160.27	0.95	1160.55	0.90	1160.53
W70B	-----	-----	-----	-----	-----	1162.51
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:
ft msl = feet mean sea level

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

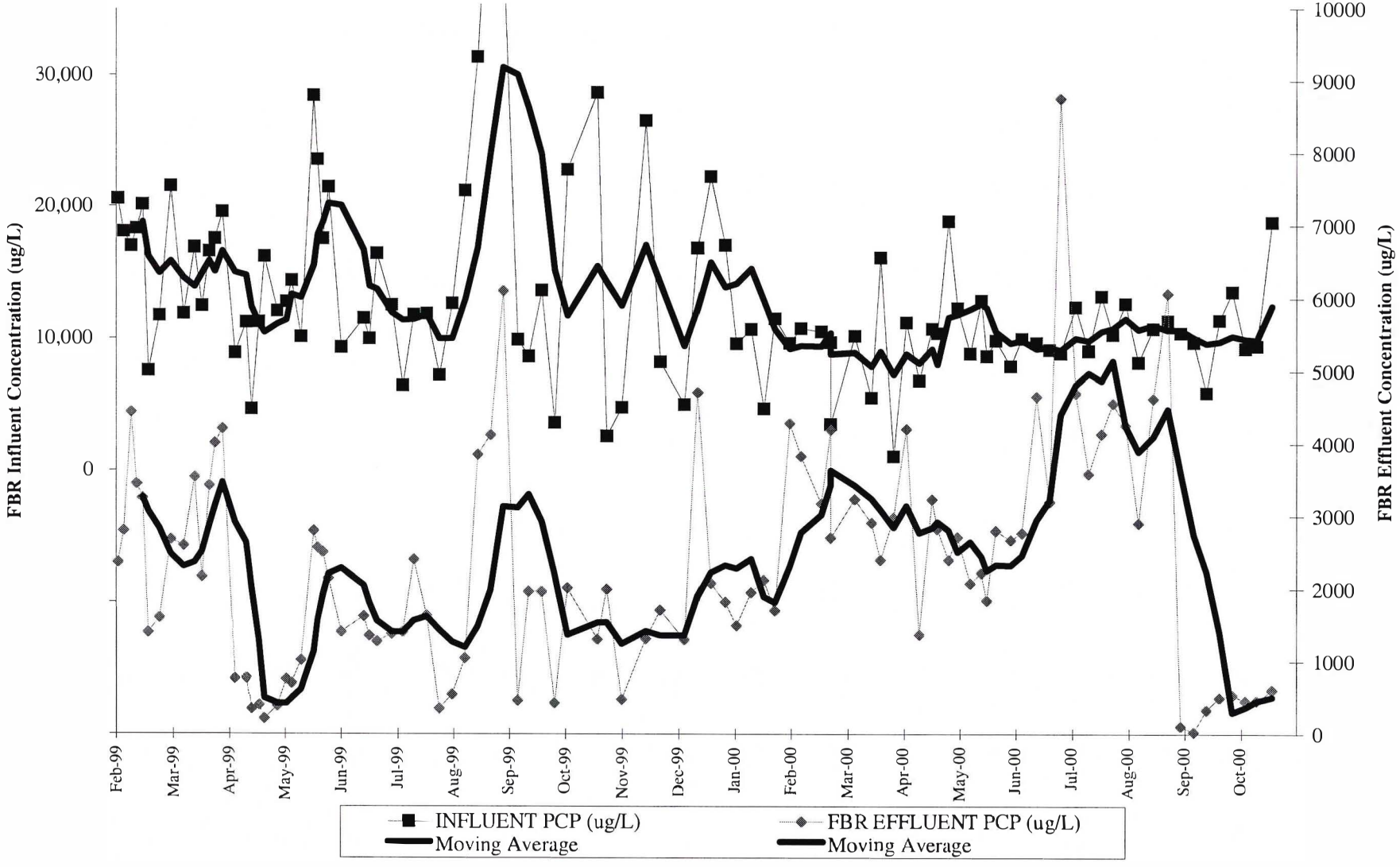
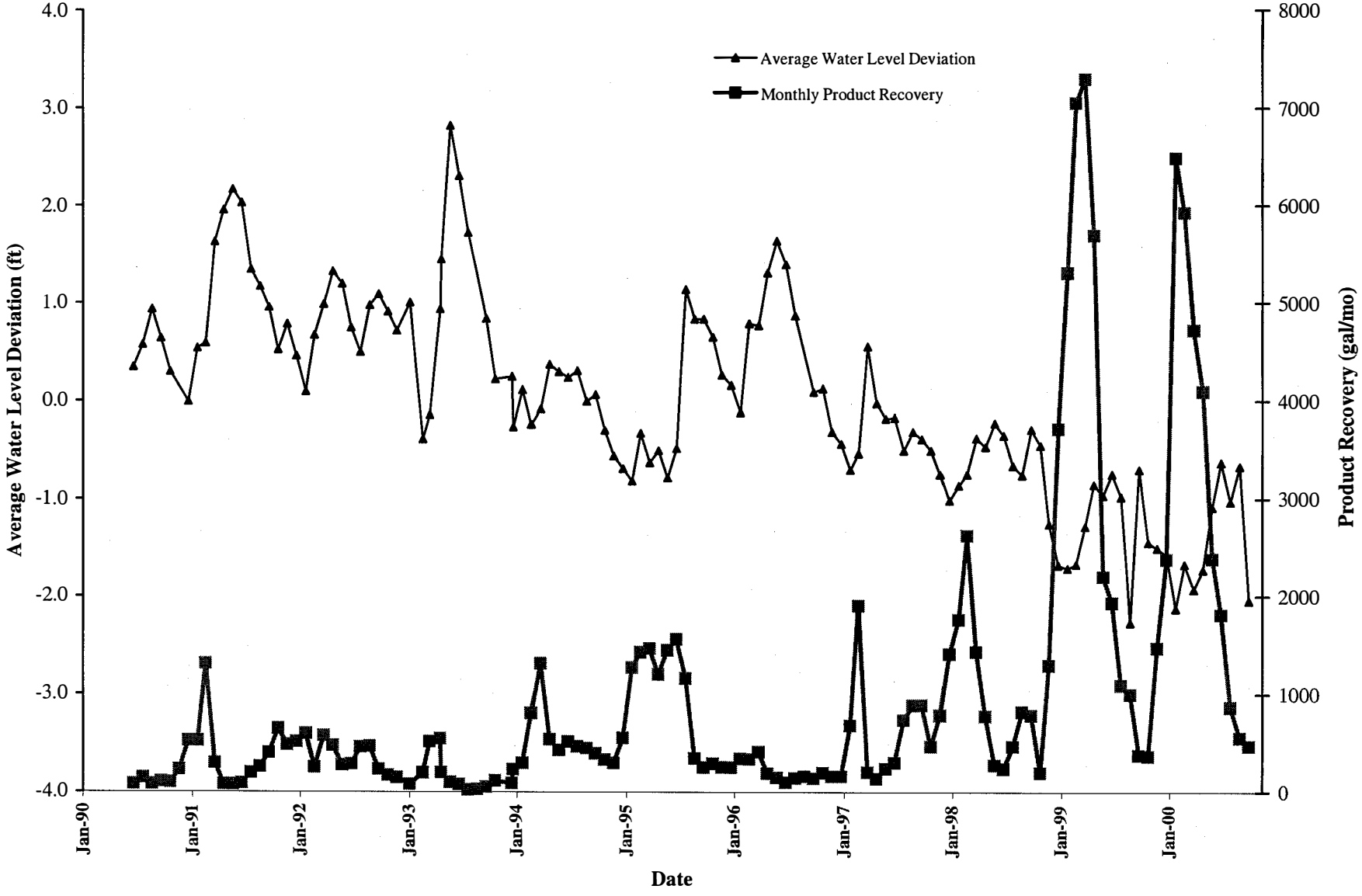


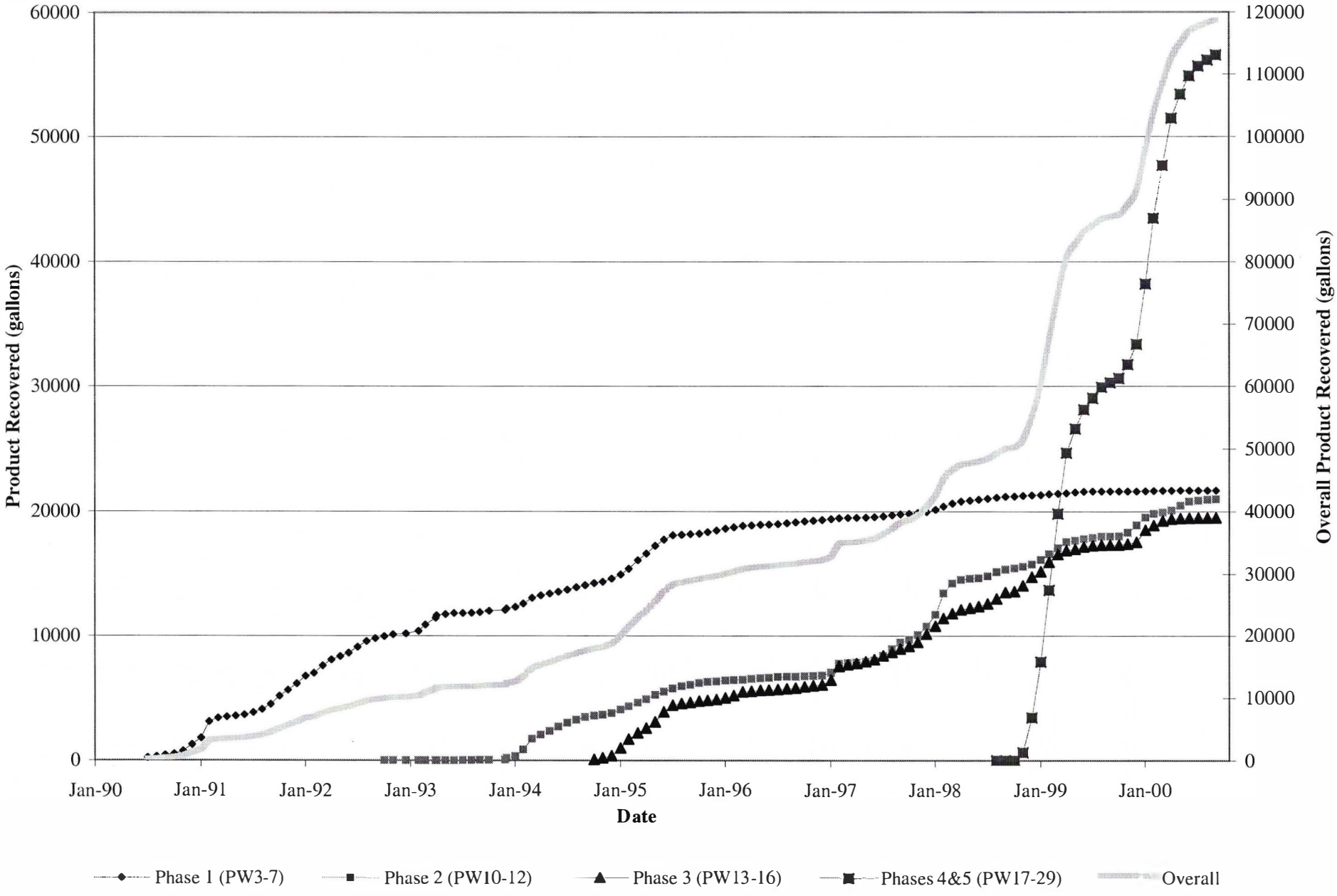
FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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11/9/00

FIGURE 3
Cumulative Product Recovery by Phase and Overall



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11/9/00

ATTACHMENT A

NOTIFICATION OF ACCIDENTAL DISCHARGE

MONTGOMERY WATSON

November 6, 2000

VIA FAX
(715) 261-4133

Mr. Jim Riege
Wausau Water Works
407 Grant Street
Wausau, WI 54403-4783

Re: Written Notification of Accidental Discharge
Wauleco Remediation Site, 125 Rosecrans Street, Wausau
Permit No. W-060

Dear Mr. Riege:

In accordance with Part III, Item 1 of Wauleco's industrial discharge permit, Montgomery Watson is providing written notification of an accidental release into the sanitary sewer of approximately 400 lbs. of granular activated carbon (GAC) from a polishing treatment vessel. The release of GAC appears to have occurred primarily over the period of October 30th to November 1st, and was discovered on the morning of November 2, 2000. Montgomery Watson notified your office by telephone on the morning of November 2nd, shortly after the release was discovered. The following narrative describes the circumstances leading to the release and the steps taken to remedy the situation.

Between Friday, October 20th and Monday, October 25th, the Wauleco treatment system operator noticed increasing back-pressure at the discharge end of the system. The back-pressure had increased to the point that the flow rate from several extraction wells was decreased. Having narrowed the source of the increasing pressure to either the discharge meter or the GAC polishing vessels, the operator disassembled the discharge meter on October 26th and discovered that the inlet screen to the meter was clogged with GAC particles. The clogging did not appear severe, and the operator believed that the buildup of GAC was due to incidental carryover from a recent GAC change-out in the upstream reactor vessel. The operator observed that the interior of the meter was scoured from the GAC and would require servicing. He reassembled the meter and put it back on line, leaving out the screen until the meter could be serviced. The back-pressure returned to normal, indicating that the meter had indeed been the source of the problem.

The operator informed Montgomery Watson's project manager of his observations. We discussed the possibility that a breach within the GAC polishing unit had led to the carryover of carbon, but we both agreed that the situation did not warrant more than 'watch' status, for the time being.

However, an observed increase in the effluent pentachlorophenol (PCP) concentration between October 26th and November 1st led to further examination of the possibility of a breach in one of the GAC polishing vessels. The observed effluent PCP concentrations over that time frame, as measured by the onsite gas chromatograph (GC), were as follows:

One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

Date	Effluent PCP Concentration (ug/L)
October 26	3
October 27	9
October 28-30	35
October 31	65
November 1, AM	253

Upon observing the high November 1st effluent concentration, the operator further diagnosed the situation by individually isolating each of the six polishing vessels. When GAC polishing vessel #3 was removed from the system, the back-pressure immediately increased, indicating that flow had been short-circuiting through vessel #3. Vessel #3 was left off-line and the system effluent was resampled and reanalyzed on the afternoon of November 1st. With vessel #3 off-line, the effluent concentration had decreased to 14 ug/L from 253 ug/L, recorded earlier that day.

On the morning of November 2, 2000, vessel #3 was opened and was observed to have lost approximately 1/4 to 1/3 of its 1,500-lb. GAC capacity. Furthermore, a 'rathole' was observed to have developed through the carbon, providing a preferential flow path that had short-circuited contact with the GAC. The most likely location of a breach is a PVC screen located at the base of the vessel.

The operator contacted the project manager regarding the situation. He, in turn, contacted the client and the Wausau Water Works.

Polishing vessel #3 remains off-line until the remaining GAC can be removed and the breach repaired. The vessel is expected to be placed back into service later in November. The effluent flow meter is behaving erratically from damage sustained by GAC scouring and will need to be replaced. In the meantime, influent flow measurements will continue to be recorded to provide an indication of discharge flow.

Wauleco and Montgomery Watson remain committed to exemplary performance in the operation of the Wauleco Remediation Site treatment system. Although this incident was unfortunate, we believe that our response was rapid and effective, and that the Wausau sewer system and treatment plant have not been endangered by this release. Please call if you have any questions regarding this notification.

Sincerely,

MONTGOMERY WATSON

Douglas J. Bach, P.E.
Project Manager

cc: R. Brandt - Wauleco
P. Peshek - DeWitt, Ross & Stevens

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MONTGOMERY WATSON

October 24, 2000

RECEIVED
OCT 25 2000
WAUSAU DNR

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: September Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the September Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

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

Sincerely,

MONTGOMERY WATSON

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek – MW Wauleco (1)

PHL/phl/ndj/DJB
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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
SEPTEMBER 2000

SUMMARY OF SEPTEMBER 2000 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 2 ug/L for the month of September, with a maximum single day concentration of 8 ug/L. The laboratory result for PCP in the system effluent was <3 ug/L on September 20, 2000. The on-site result for the same day was 1 ug/L. All results indicate that the effluent PCP concentrations were well below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on September 20 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was 0.17 ug/L.

PCP influent concentrations ranged from 5888 ug/L to 13,506 ug/L during September (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR effluent declined sharply in late August and remained low in September, following the replacement of carbon in the FBR. The average PCP removal efficiency for the FBR during September was 96% compared to an average of 70% during the previous year. The greatly increased removal efficiency can be attributed to the new carbon.

Daily groundwater flow through the treatment system (Table 2) averaged 53 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since September 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site increased again in September, following a decrease in August. Product recovery for September was 557 gallons, down from 871 gallons in August.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

Groundwater elevation and product thickness data for July, August, and September are summarized in Table 4.

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TABLES

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Biological Oxygen Demand	mg/L	09/20/00	12	<				<	
Chemical Oxygen Demand	mg/L	09/20/00	34	<				<	
Chloride	mg/L	09/20/00	202	203				196	
Dissolved Oxygen	mg/L	09/07/00	7.6	1.1	3.6				
	mg/L	09/14/00	7.8	4	4.4				
	mg/L	09/21/00	6.5	1.8	3.4				
	mg/L	09/28/00	7.7	4.1	5.3				
Nitrogen, Ammonia	mg/L	09/07/00	2.5	1.5	1.5				
	mg/L	09/14/00	2.5	1.5	1.5				
	mg/L	09/21/00	2	0.1	0.1				
	mg/L	09/28/00	2.5	0.6	0.6				
Nitrogen, Nitrate	mg/L	09/07/00	<	<	<				
	mg/L	09/14/00	0.1	<	<				
	mg/L	09/21/00	<	<	<				
	mg/L	09/28/00	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	09/20/00	0.43	0.51				0.09	
Nitrogen, Total Kjeldahl	mg/L	09/20/00	1.42	0.97				0.71	
Pentachlorophenol-Screen	µg/L	09/01/00						8	
	µg/L	09/02/00						2	
	µg/L	09/03/00						2	
	µg/L	09/04/00						2	
	µg/L	09/05/00						2	
	µg/L	09/06/00						2	
	µg/L	09/07/00	9678	24	36			2	
	µg/L	09/08/00						1	
	µg/L	09/09/00						1	
	µg/L	09/10/00						1	
	µg/L	09/11/00						1	
	µg/L	09/12/00						1	
	µg/L	09/13/00						1	
	µg/L	09/14/00	5888	330	358			1	
	µg/L	09/15/00						2	
	µg/L	09/16/00						2	
	µg/L	09/17/00						2	
	µg/L	09/18/00						2	
	µg/L	09/19/00						2	
	µg/L	09/20/00	11352	505	341			1	
	µg/L	09/21/00						3	

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Pentachlorophenol-Screen	µg/L	09/22/00						3	
	µg/L	09/23/00						3	
	µg/L	09/24/00						3	
	µg/L	09/25/00						4	
	µg/L	09/26/00						2	
	µg/L	09/27/00						1	
	µg/L	09/28/00	13506	535	557			2	
	µg/L	09/29/00						2	
	µg/L	09/30/00						2	
pH	S.U.	09/07/00	6.3	6.3	6.5				
	S.U.	09/14/00	6.2	6.4	6.5				
	S.U.	09/21/00	6.2	6.2	6.4				
	S.U.	09/28/00	6.3	6.4	6.6				
Phosphorus, Ortho	mg/L	09/20/00	0.22	0.1				0.14	
Phosphorus, Phosphate	mg/L	09/07/00	1	0.2	0.2				
	mg/L	09/14/00	1	0.4	0.4				
	mg/L	09/21/00	0.6	0.2	0.2				
	mg/L	09/28/00	0.8	0.6	0.6				
Solids, Total Suspended	mg/L	09/20/00	6	12		4	5	4	
Mercury	µg/L	09/20/00	0.5	0.34				0.17	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	09/20/00	<	<	<	<	<	<	<
2,4,5-Trichlorophenol	µg/L	09/20/00	<	<	<	<	<	<	<
2,4,6-Trichlorophenol	µg/L	09/20/00	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	09/20/00	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	09/20/00	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	09/20/00	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	09/20/00	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	09/20/00	<	<	<	<	<	<	<
2-Methylphenol	µg/L	09/20/00	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	09/20/00	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	09/20/00	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	09/20/00	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	09/20/00	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	09/20/00	1600	620	31	31	32	3.5	3.4
Pentachlorophenol	µg/L	09/20/00	8600	680	300	350	300	<	<
Phenol	µg/L	09/20/00	<	<	<	<	<	<	<

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate [1] (gpm)	POTW Discharge Flow Rate [1] (gpm)	POTW Totalized Discharge (gal)
09/01/00	41.49	37.28	34,952,370
09/02/00	51.31	45.77	35,018,280
09/03/00	51.77	46.40	35,085,101
09/04/00	51.69	45.92	35,151,231
09/05/00	51.23	45.60	35,216,897
09/06/00	53.24	47.75	35,285,658
09/07/00	53.15	47.19	35,353,618
09/08/00	53.23	47.06	35,421,381
09/09/00	53.45	47.33	35,489,543
09/10/00	53.07	47.07	35,557,318
09/11/00	52.78	46.91	35,624,866
09/12/00	53.75	48.81	35,695,154
09/13/00	54.17	48.02	35,764,304
09/14/00	54.14	47.50	35,832,700
09/15/00	54.06	46.95	35,900,304
09/16/00	54.04	46.62	35,967,442
09/17/00	53.78	45.78	36,033,359
09/18/00	52.97	45.55	36,098,957
09/19/00	53.02	46.10	36,165,347
09/20/00	59.45	47.01	36,233,043
09/21/00	52.73	60.86	36,320,683
09/22/00	49.39	33.35	36,368,702
09/23/00	53.67	45.81	36,434,671
09/24/00	48.70	41.36	36,494,236
09/25/00	52.12	44.20	36,557,886
09/26/00	70.82	46.35	36,624,635
09/27/00	38.77	45.89	36,690,713
09/28/00	51.64	45.89	36,756,791
09/29/00	48.71	45.89	36,822,869
09/30/00	52.98	44.59	36,887,085
Average	52.51	46.03	
Total [2]:			1,988,399

Footnotes:

(1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.

(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
9/1/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	5.2	3.4	0.0	0.0	0.0	15.5
9/2/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	8.6	5.2	1.7	0.0	0.0	0.0	17.2
9/3/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	6.9	3.4	1.7	0.0	0.0	0.0	13.7
9/4/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	8.6	3.4	0.0	0.0	0.0	0.0	17.1
9/5/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.2	5.2	1.7	0.0	0.0	0.0	17.2
9/6/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	3.4	5.2	0.0	0.0	0.0	0.0	15.4
9/7/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	5.2	1.7	0.0	0.0	0.0	12.0
9/8/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4	1.7	0.0	0.0	13.6
9/9/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	1.7	0.0	0.0	0.0	10.3
9/10/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	1.7	1.7	0.0	0.0	10.2
9/11/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	5.2	1.7	1.7	0.0	0.0	13.7
9/12/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	1.7	1.7	0.0	0.0	8.5
9/13/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	1.7	0.0	0.0	0.0	10.2
9/14/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	6.8
9/15/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	3.4	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4	0.0	0.0	0.0	15.3
9/16/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	3.4	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.4	0.0	0.0	0.0	13.6
9/17/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	5.2	0.0	0.0	0.0	0.0	0.0	1.7	3.4	1.7	0.0	0.0	0.0	15.4
9/18/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	3.4	1.7	1.7	0.0	0.0	0.0	13.7
9/19/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	10.3	1.7	1.7	1.7	0.0	0.0	27.4
9/20/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	13.8	1.7	1.7	0.0	0.0	0.0	31.0
9/21/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	12.0	1.7	1.7	1.7	0.0	0.0	30.9
9/22/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	8.6	3.4	0.0	0.0	0.0	0.0	20.6
9/23/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	5.2	3.4	0.0	0.0	0.0	0.0	17.2
9/24/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	5.2	5.2	1.7	0.0	0.0	0.0	20.7
9/25/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	8.6	5.2	0.0	0.0	0.0	0.0	24.1
9/26/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	0.0	0.0	12.0	5.2	1.7	0.0	0.0	0.0	32.6
9/27/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	6.9	3.4	0.0	1.7	0.0	0.0	25.7
9/28/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	6.9	3.4	1.7	0.0	0.0	0.0	25.7
9/29/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	6.9	8.6	1.7	0.0	0.0	0.0	30.9
9/30/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	6.9	8.6	1.7	1.7	0.0	0.0	30.9
Well Total	0.0	0.0	0.0	0.0	0.0	61.4	0.0	6.8	0.0	0.0	6.8	127.2	0.0	10.2	1.7	0.0	0.0	161.6	120.2	47.6	13.6	0.0	0.0	557.1

Note:
The following wells' product pumps were not operated this month due to insufficient product thickness: PW04, PW05, PW07, PW09, PW10, PW12, PW15, PW16, PW19, PW22, PW23, PW28, and PW29.

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	July 17 2000		August 14 2000		September 13 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	-----	1162.45	-----	1162.15	-----	1162.46
PW02	-----	1162.46	-----	1162.15	-----	1162.45
PW03	-----	1162.47	-----	1162.18	-----	1162.58
PW3S	0.04	1159.73	-----	-----	-----	-----
PW04	0.02	1156.25	0.07	1160.42	-----	1159.40
PW05	0.23	1157.21	0.35	1156.71	-----	1158.01
PW06	0.43	1161.43	-----	-----	-----	-----
PW07	0.61	1157.50	0.60	1156.91	0.26	1157.29
PW08	0.36	1160.63	-----	-----	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1161.01	-----	1160.66	-----	1161.23
PW10	-----	1161.07	0.02	1160.75	-----	1160.82
PW11	0.86	1154.46	0.79	1154.44	0.60	1154.99
PW12	-----	1161.88	-----	1161.58	-----	1162.40
PW13	0.61	1157.98	0.56	1157.81	0.63	1158.53
PW14	0.14	1160.73	-----	-----	-----	-----
PW15	0.44	1160.21	0.45	1159.60	0.37	1160.17
PW16	-----	1160.59	-----	1160.24	-----	1159.60
PW17	0.37	1157.12	0.21	1157.42	1.05	1158.64
PW18	0.05	1159.47	0.49	1158.77	0.43	1159.06
PW19	0.61	1158.63	0.29	1158.52	0.38	1158.72
PW20	0.47	1159.17	0.81	1158.60	0.41	1158.98
PW21	0.07	1159.57	0.40	1158.89	0.58	1158.88
PW22	-----	1161.12	-----	1160.78	-----	1161.01
PW23	0.43	1157.54	0.45	1157.77	0.06	1157.77
PW24	0.11	1158.34	1.10	1157.08	0.46	1158.12
PW25	0.92	1157.33	0.20	1157.44	1.16	1157.19
PW26	-0.27	1157.67	0.54	1156.20	0.24	1157.38
PW27	1.08	1156.43	0.65	1156.42	0.38	1158.98
PW28	0.13	-----	0.26	-----	0.13	-----
PW29	0.61	-----	0.31	-----	0.59	-----
P01	0.22	1160.48	0.16	1160.25	0.22	1160.31
OW01	-----	1162.93	-----	-----	-----	-----
W01A	-----	1163.06	-----	-----	-----	-----
W01B	-----	1163.03	-----	-----	-----	-----
W02	0.49	1161.94	0.48	1161.65	0.45	1162.22
W03A	0.61	1160.07	0.59	1159.46	0.55	1160.12
W03B	-----	1161.32	-----	1160.95	-----	1161.59
W04A	0.12	1161.71	0.24	1161.25	0.19	1161.60
W04B	0.07	1161.71	-----	-----	-----	-----
W05	0.32	1160.42	0.37	1160.08	0.30	1160.26
W06R	0.16	1162.75	0.13	1162.48	0.14	1162.84
W07	-----	1162.58	-----	-----	-----	-----
W08	-----	1174.61	-----	-----	-----	-----
W09	-----	1162.15	-----	-----	-----	-----
W10A	-----	1160.99	-----	-----	-----	-----
W10B	-----	1161.02	-----	-----	-----	-----
W11	-----	1160.92	-----	-----	-----	-----

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	July 17 2000		August 14 2000		September 13 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	1160.56	-----	-----	-----	-----
W13	-----	1161.47	-----	-----	-----	-----
W14	-----	1159.71	-----	-----	-----	-----
W16	-----	1161.69	-----	-----	-----	-----
W17	0.28	1160.55	-----	-----	-----	-----
W18	-----	1160.97	-----	-----	-----	-----
W19	-----	1162.32	-----	-----	-----	-----
W21	-----	1160.78	-----	-----	-----	-----
W22	0.17	1160.70	0.20	1160.14	0.06	1161.09
W23	-----	1160.87	-----	-----	-----	-----
W24A	-----	1160.85	-----	-----	-----	-----
W25	-----	1163.06	-----	-----	-----	-----
W26	-----	1160.96	-----	-----	-----	-----
W27	-----	1161.43	-----	-----	-----	-----
W28	-----	1160.97	-----	-----	-----	-----
W29	-----	1160.85	-----	-----	-----	-----
W30	0.22	1160.40	0.31	1160.04	0.22	1160.24
W31	-----	1160.81	-----	-----	-----	-----
W32	-----	1160.81	-----	-----	-----	-----
W33	0.11	1161.38	-----	-----	-----	-----
W34	0.10	1157.96	0.15	1157.57	0.14	1157.68
W35	0.46	1160.45	0.29	1160.29	0.20	1160.52
W36	-----	1161.64	-----	1161.11	-----	1161.35
W39	-----	1161.53	-----	-----	-----	-----
W40	0.72	1160.47	-----	-----	-----	-----
W41	-----	1162.48	-----	-----	-----	-----
W42	0.17	1162.11	-----	-----	-----	-----
W44	0.15	1160.80	0.23	1160.43	0.21	1160.62
W45	0.11	1161.19	0.08	1160.72	0.11	1161.86
W46	0.60	1159.97	0.65	1159.64	0.53	1159.84
W47	1.48	1154.97	1.12	1154.75	0.23	1156.26
W48	-----	1156.68	0.05	1156.10	-----	1156.65
W49	0.16	1157.22	0.25	1156.61	0.10	1157.19
W66	-----	1162.79	-----	1162.50	-----	1162.93
W67	-----	1162.75	-----	1162.46	-----	1162.91
W68A	0.28	1162.55	-----	-----	-----	-----
W68B	-----	1162.71	-----	-----	-----	-----
W69	0.66	1160.87	0.98	1160.27	0.95	1160.55
W70B	-----	1162.57	-----	-----	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:
ft msl = feet mean sea level

FIGURES

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

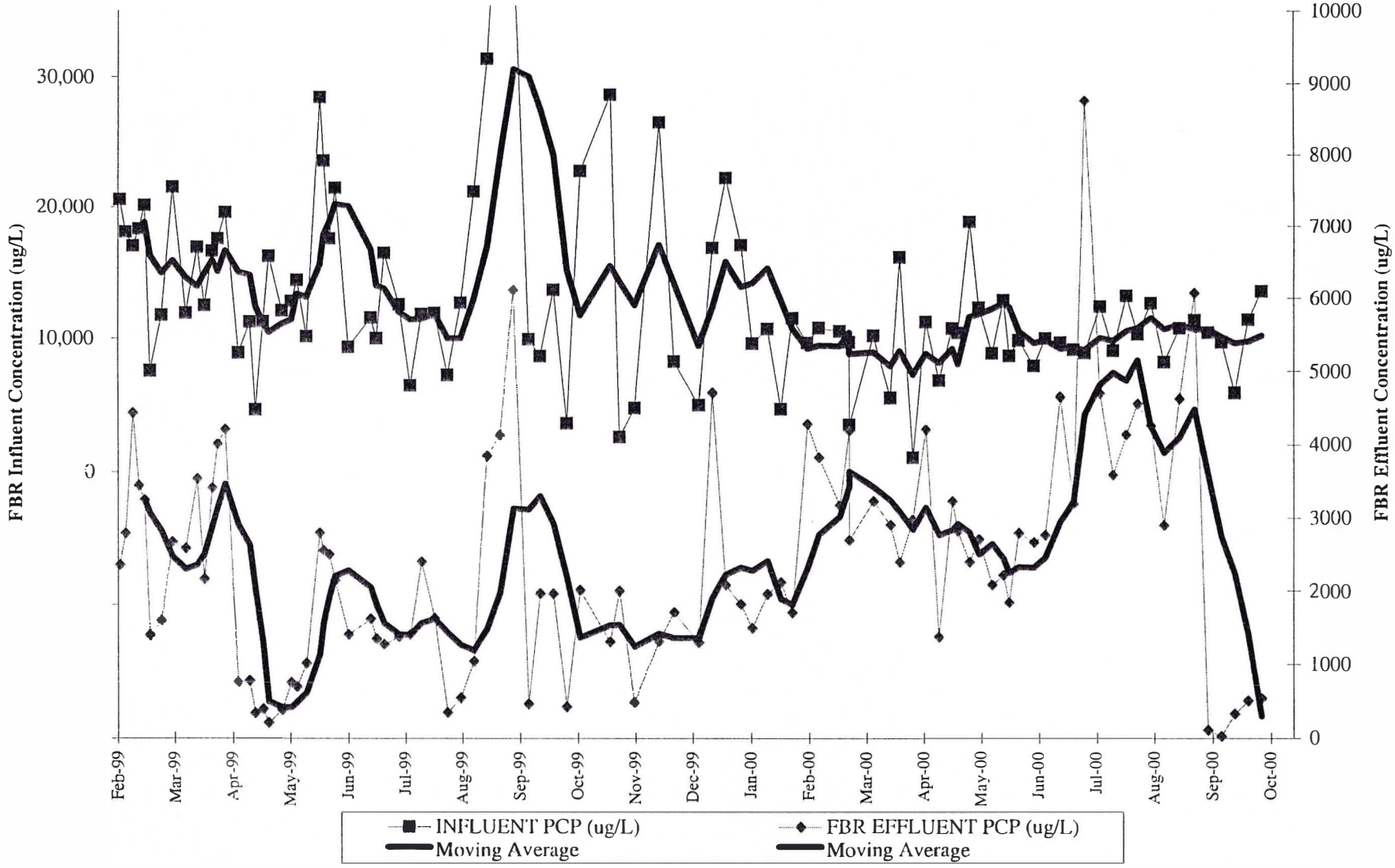
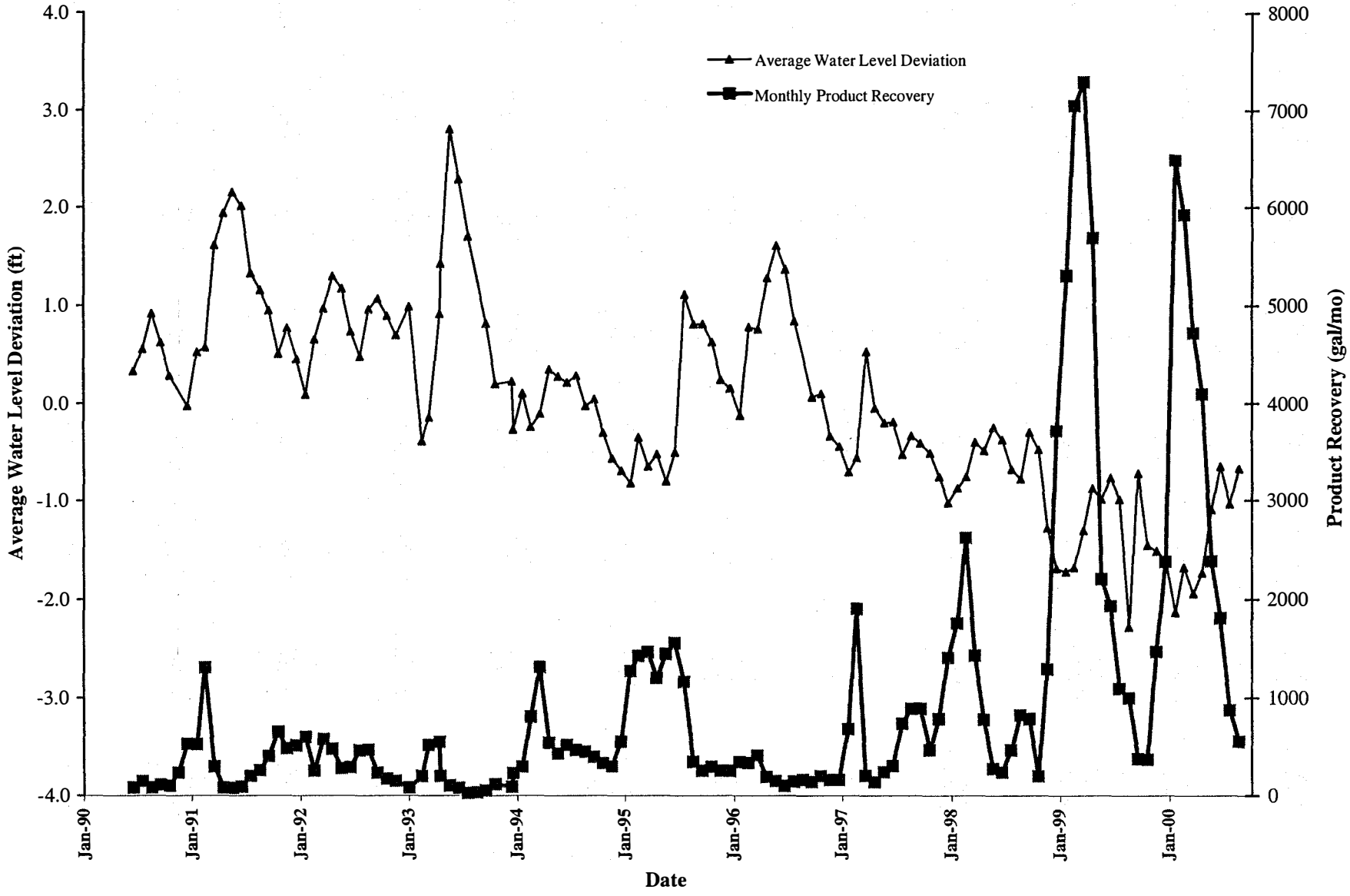


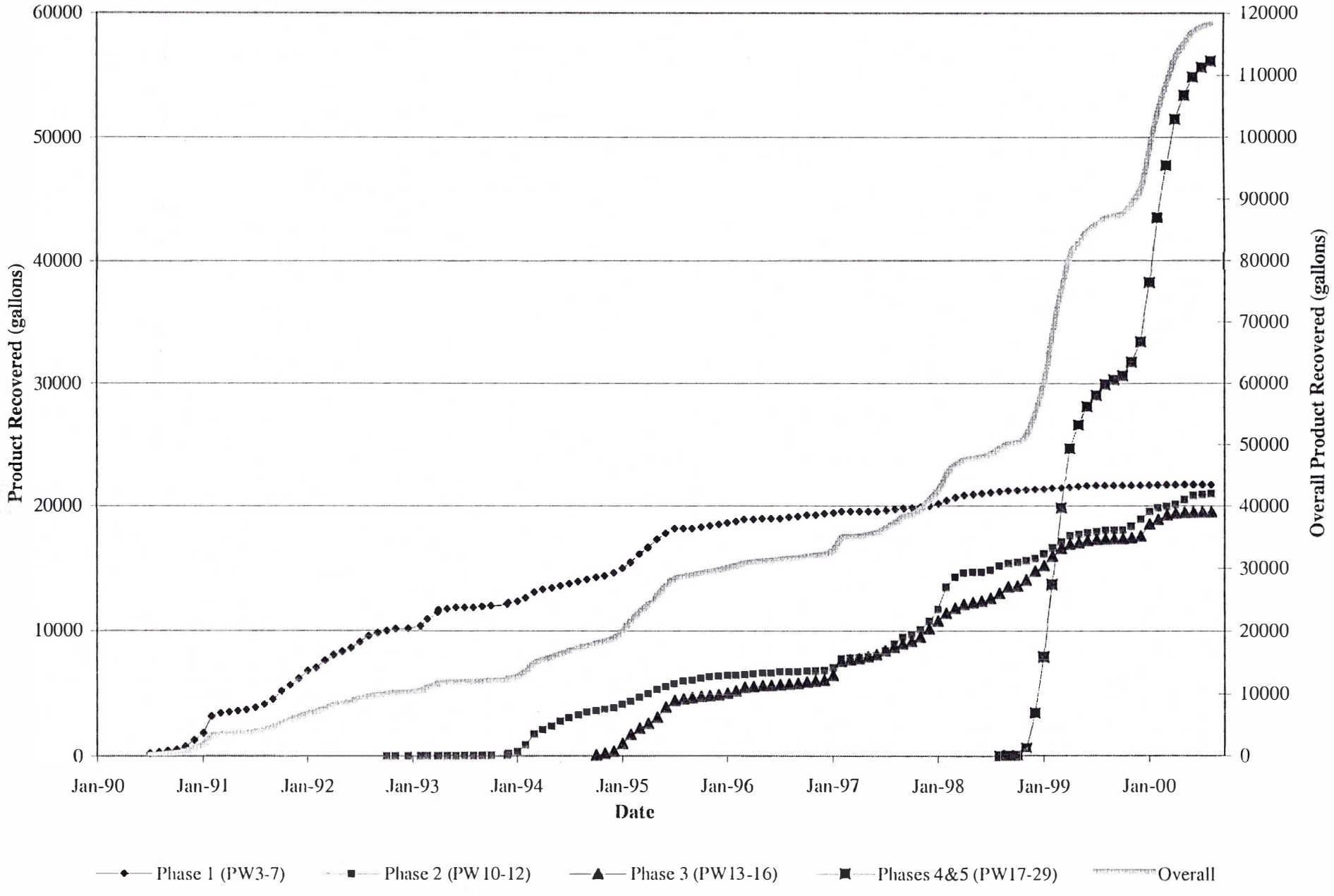
FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



M:\jobs\Wauleco\onm1999\monthly kjq.xls(FIG2wtlvl)

10/19/00

FIGURE 3
Cumulative Product Recovery by Phase and Overall



M:\jobs\Wauleco\onm1999\monthly kjq.xls(FIG3Prod Waves)

10/19/00

MONTGOMERY WATSON

RECEIVED
SEP 18 2000
WAUSAU

September 15, 2000

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: August Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the August Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

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

Sincerely,

MONTGOMERY WATSON

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek – MW Wauleco (1)

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Serving the World's Environmental Needs

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
AUGUST 2000

SUMMARY OF AUGUST 2000 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 11 ug/L for the month of August, with a maximum single day concentration of 66 ug/L. The laboratory result for PCP in the system effluent was 26 ug/L on August 16, 2000. The on-site result for the same day was 22 ug/L. All results indicate that the effluent PCP concentrations were well below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on August 16 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was 0.69 ug/L.

PCP influent concentrations ranged from 8170 ug/L to 12,628 ug/L during August (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR effluent declined sharply in late August, following the replacement of carbon in the FBR. The average PCP removal efficiency for the FBR during August was 67% compared to an average of 69% during the previous year.

Declining removal efficiencies, combined with decreased product recovery during recent months prompted the scheduled replacement of carbon in the FBR vessel during August. To prevent any interruption in system operation, a rental carbon vessel was brought online from August 27 through August 31 to replace the FBR. PCP effluent levels remained low during that period, indicating the replacement vessel was achieving acceptable levels of PCP removal. Carbon replacement in the FBR involved the following major steps:

1. The FBR was taken offline and drained, beginning August 27
2. The carbon was vacuumed from the FBR and it was refilled with new carbon on August 29
3. The FBR was put back online gradually, beginning on August 31

Daily groundwater flow through the treatment system (Table 2) ranged from 31 to 52 gallons per minute (gpm) during August. The treatment system flowrate averaged 48 gpm. Lower flowrates were necessary during carbon replacement in the FBR to prevent overloading the replacement vessel and to allow for redevelopment of selected extraction wells. Total

treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

During this downtime, several extraction wells were redeveloped. These wells were PW4, PW5, PW10, PW11, PW12, PW13, PW17, PW18, PW23, PW27, and PW29. These wells were selected because they are good product producers and it is desirable to maintain this production. The wells' specific capacity and/or product removal has fallen, and aggressive redevelopment was used to attempt to restore their production levels (e.g. PW4).

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since August 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site began to decrease in August, following increases since April due to high precipitation and subsequent infiltration. Product recovery for August was 871 gallons, down from 1,812 gallons in July.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

Groundwater elevation and product thickness data for June, July, and August are summarized in Table 4.

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TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Biological Oxygen Demand	mg/L	08/16/00	15	8				2	
Chemical Oxygen Demand	mg/L	08/16/00	44	32				<	
Chloride	mg/L	08/16/00	193	193				197	
Dissolved Oxygen	mg/L	08/01/00	6.2	2.8	3.4				
	mg/L	08/08/00	6.7	2.8	3.8				
	mg/L	08/16/00	6.8	5	3.8				
	mg/L	08/24/00	6.1	2.9	4				
	mg/L	08/31/00	7.4	1.6	1.8				
Nitrogen, Ammonia	mg/L	08/01/00	2.5	1	1				
	mg/L	08/08/00	2.5	1	1				
	mg/L	08/16/00	2.5	1	1				
	mg/L	08/24/00	2.5	1	1				
	mg/L	08/31/00	2.5	1.5	1.5				
Nitrogen, Nitrate	mg/L	08/01/00	<	<	0.1				
	mg/L	08/08/00	<	<	<				
	mg/L	08/16/00	0.2	0.1	<				
	mg/L	08/24/00	<	0.2	<				
	mg/L	08/31/00	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	08/16/00	6.34	0.37				0.12	
Nitrogen, Total Kjeldahl	mg/L	08/16/00	1.99	1.48				1.08	
Pentachlorophenol-Screen	µg/L	08/01/00	12628	4260	6011			3	
	µg/L	08/02/00						2	
	µg/L	08/03/00						3	
	µg/L	08/04/00						3	
	µg/L	08/05/00						1	
	µg/L	08/06/00						1	
	µg/L	08/07/00						1	
	µg/L	08/08/00	8170	2901	3467			2	
	µg/L	08/09/00						1	
	µg/L	08/10/00						1	
	µg/L	08/11/00						1	
	µg/L	08/12/00						2	
	µg/L	08/13/00						2	
	µg/L	08/14/00						2	
	µg/L	08/15/00						2	
	µg/L	08/16/00	10710	4622	3504			22	
	µg/L	08/17/00						10	
	µg/L	08/18/00						43	
	µg/L	08/19/00						2	
	µg/L	08/20/00						2	
	µg/L	08/21/00						2	
	µg/L	08/22/00						3	
	µg/L	08/23/00						20	

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Pentachlorophenol-Screen	µg/L	08/24/00	11322	6068	4659			65	
	µg/L	08/25/00						66	
	µg/L	08/26/00						24	
	µg/L	08/27/00						24	
	µg/L	08/28/00						24	
	µg/L	08/29/00						2	
	µg/L	08/30/00						3	
	µg/L	08/31/00	10382	109	271			3	
pH	S.U.	08/01/00	6.3	6.4	6.4				
	S.U.	08/08/00	6.2	6.3	6.3				
	S.U.	08/16/00	6.3	6.4	6.4				
	S.U.	08/24/00	6.2	6.3	6.3				
	S.U.	08/31/00	6.2	6.2	6.2				
Phosphorus, Ortho	mg/L	08/16/00	0.45	0.3				0.46	
Phosphorus, Phosphate	mg/L	08/01/00	2.5	2.5	2.5				
	mg/L	08/08/00	1.5	1.5	1.5				
	mg/L	08/16/00	1.5	1	1				
	mg/L	08/24/00	1.5	1	1				
	mg/L	08/31/00	2	1.5	1.5				
Solids, Total Suspended	mg/L	08/16/00	10	15		10	9	12	
Mercury	µg/L	08/16/00	0.95	0.87				0.69	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	08/16/00	<	<	<	<	<	<	4.8
2,4,5-Trichlorophenol	µg/L	08/16/00	<	<	<	<	<	<	<
2,4,6-Trichlorophenol	µg/L	08/16/00	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	08/16/00	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	08/16/00	<	<	<	<	<	<	7.3
2,4-Dinitrophenol	µg/L	08/16/00	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	08/16/00	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	08/16/00	<	<	<	<	<	<	<
2-Methylphenol	µg/L	08/16/00	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	08/16/00	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	08/16/00	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	08/16/00	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	08/16/00	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	08/16/00	<	630	<	<	<	3.6	4.9
Pentachlorophenol	µg/L	08/16/00	12000	3900	3900	3500	3200	26	29
Phenol	µg/L	08/16/00	<	<	<	<	<	<	<

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate [1] (gpm)	POTW Discharge Flow Rate [1] (gpm)	POTW Totalized Discharge (gal)
08/01/00	51.88	45.14	33,100,155
08/02/00	51.80	45.19	33,165,232
08/03/00	51.21	44.47	33,229,270
08/04/00	51.08	44.19	33,292,906
08/05/00	50.70	44.32	33,356,720
08/06/00	50.52	44.15	33,420,291
08/07/00	50.48	44.08	33,483,769
08/08/00	50.43	43.86	33,546,924
08/09/00	50.39	43.35	33,609,343
08/10/00	50.22	43.55	33,672,062
08/11/00	50.12	42.72	33,733,580
08/12/00	50.06	44.04	33,797,003
08/13/00	49.81	43.02	33,858,953
08/14/00	49.75	43.10	33,921,022
08/15/00	49.57	42.98	33,982,916
08/16/00	49.45	42.80	34,044,544
08/17/00	49.89	43.44	34,107,094
08/18/00	48.73	42.38	34,168,126
08/19/00	48.15	42.51	34,229,346
08/20/00	48.02	42.21	34,290,131
08/21/00	47.84	41.99	34,350,593
08/22/00	49.91	43.73	34,413,563
08/23/00	50.27	42.69	34,475,030
08/24/00	50.11	44.82	34,539,568
08/25/00	49.86	43.35	34,601,992
08/26/00	50.16	43.80	34,665,062
08/27/00	49.69	43.12	34,727,157
08/28/00	38.34	34.53	34,776,874
08/29/00	31.36	29.58	34,819,462
08/30/00	31.43	25.91	34,856,768
08/31/00	32.77	29.11	34,898,686
Average	47.87	41.75	
Total [2]:			1,863,539

Footnotes:

(1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.

(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
08/01/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	0.0	0.0	0.0	20.5
08/02/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	3.4	5.2	3.4	0.0	0.0	0.0	22.3
08/03/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	8.6	0.0	1.7	0.0	0.0	0.0	5.2	3.4	3.4	1.7	0.0	0.0	27.4
08/04/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4	0.0	0.0	0.0	20.5
08/05/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	1.7	8.6	0.0	1.7	0.0	0.0	0.0	1.7	3.4	3.4	1.7	0.0	0.0	25.6
08/06/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4	0.0	0.0	0.0	20.5
08/07/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	1.7	8.6	0.0	1.7	0.0	0.0	0.0	1.7	3.4	5.2	1.7	0.0	0.0	27.4
08/08/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4	0.0	0.0	1.7	22.2
08/09/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	8.6	0.0	1.7	0.0	0.0	0.0	1.7	5.2	5.2	0.0	0.0	0.0	25.8
08/10/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	1.7	5.2	0.0	0.0	0.0	0.0	0.0	3.4	3.4	5.2	0.0	0.0	1.7	25.7
08/11/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	1.7	5.2	5.2	0.0	0.0	0.0	22.4
08/12/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	5.2	0.0	1.7	0.0	0.0	0.0	0.0	5.2	3.4	0.0	0.0	0.0	18.9
08/13/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	0.0	6.9	8.6	0.0	0.0	0.0	24.1
08/14/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	6.9	0.0	1.7	0.0	0.0	0.0	1.7	8.6	6.9	0.0	0.0	0.0	27.5
08/15/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	6.9	0.0	1.7	0.0	0.0	0.0	1.7	3.4	1.7	0.0	0.0	1.7	20.5
08/16/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	8.6	0.0	1.7	0.0	0.0	0.0	1.7	5.2	1.7	1.7	0.0	0.0	22.3
08/17/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	8.6	0.0	3.4	0.0	0.0	0.0	1.7	5.2	1.7	0.0	0.0	1.7	25.7
08/18/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	1.7	10.3	0.0	3.4	0.0	0.0	0.0	1.7	6.9	1.7	0.0	0.0	0.0	30.8
08/19/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	1.7	6.9	3.4	0.0	0.0	1.7	30.8
08/20/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	1.7	13.8	0.0	1.7	0.0	0.0	0.0	1.7	8.6	1.7	0.0	0.0	0.0	34.3
08/21/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	15.5	0.0	0.0	0.0	0.0	0.0	1.7	8.6	3.4	0.0	0.0	0.0	32.6
08/22/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	15.5	0.0	1.7	0.0	0.0	0.0	1.7	5.2	1.7	0.0	0.0	0.0	31.0
08/23/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	1.7	5.2	0.0	1.7	0.0	1.7	30.9
08/24/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	18.9	0.0	1.7	0.0	0.0	0.0	3.4	5.2	1.7	0.0	0.0	1.7	37.8
08/25/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	3.4	5.2	0.0	0.0	0.0	0.0	32.7
08/26/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	1.7	17.2	0.0	1.7	0.0	0.0	0.0	3.4	5.2	0.0	1.7	0.0	1.7	36.0
08/27/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	5.2	5.2	0.0	0.0	0.0	0.0	32.7
08/28/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	0.0	1.7	0.0	0.0	0.0	3.4	6.9	3.4	0.0	0.0	0.0	41.2
08/29/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	0.0	1.7	0.0	0.0	0.0	5.2	5.2	3.4	0.0	0.0	0.0	41.3
08/30/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	0.0	0.0	0.0	0.0	0.0	6.9	3.4	1.7	0.0	0.0	0.0	27.3
08/31/00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	0.0	1.7	0.0	0.0	0.0	8.6	4.4	1.7	0.0	0.0	0.0	32.7
Well Total	0.0	0.0	0.0	0.0	0.0	87.0	0.0	8.5	0.0	0.0	11.9	365.5	0.0	39.1	0.0	0.0	0.0	83.8	159.4	92.4	10.2	0.0	13.6	871.4

Note:
The following wells' product pumps were not operated this month due to insufficient product thickness: PW04, PW05, PW07, PW09, PW10, PW12, PW15, PW16, PW19, PW 21, PW22, PW23, and PW28.

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	June 13 2000		July 17 2000		August 14 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	0.04	1161.69	-----	1162.45	-----	1162.15
PW02	-----	1161.75	-----	1162.46	-----	1162.15
PW03	-----	1161.84	-----	1162.47	-----	1162.18
PW3S	-----	-----	0.04	1159.73	-----	-----
PW04	0.56	1156.04	0.02	1156.25	0.07	1160.42
PW05	0.50	1154.93	0.23	1157.21	0.35	1156.71
PW06	-----	-----	0.43	1161.43	-----	-----
PW07	1.01	1157.28	0.61	1157.50	0.60	1156.91
PW08	-----	-----	0.36	1160.63	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1160.69	-----	1161.01	-----	1160.66
PW10	-----	1160.81	-----	1161.07	0.02	1160.75
PW11	2.00	1153.95	0.86	1154.46	0.79	1154.44
PW12	-----	1161.10	-----	1161.88	-----	1161.58
PW13	0.52	1157.95	0.61	1157.98	0.56	1157.81
PW14	-----	-----	0.14	1160.73	-----	-----
PW15	0.08	1160.38	0.44	1160.21	0.45	1159.60
PW16	-----	1160.15	-----	1160.59	-----	1160.24
PW17	0.18	1157.56	0.37	1157.12	0.21	1157.42
PW18	0.63	1158.43	0.05	1159.47	0.49	1158.77
PW19	0.28	1158.31	0.61	1158.63	0.29	1158.52
PW20	1.94	1157.47	0.47	1159.17	0.81	1158.60
PW21	0.43	1158.13	0.07	1159.57	0.40	1158.89
PW22	-----	1160.74	-----	1161.12	-----	1160.78
PW23	0.48	1157.80	0.43	1157.54	0.45	1157.77
PW24	1.20	1157.48	0.11	1158.34	1.10	1157.08
PW25	0.23	1158.09	0.92	1157.33	0.20	1157.44
PW26	0.39	1157.22	-0.27	1157.67	0.54	1156.20
PW27	0.76	1156.88	1.08	1156.43	0.65	1156.42
PW28	0.28	-----	0.13	-----	0.26	-----
PW29	0.20	-----	0.61	-----	0.31	-----
P01	0.23	1160.03	0.22	1160.48	0.16	1160.25
OW01	-----	-----	-----	1162.93	-----	-----
W01A	-----	-----	-----	1163.06	-----	-----
W01B	-----	-----	-----	1163.03	-----	-----
W02	0.51	1161.23	0.49	1161.94	0.48	1161.65
W03A	0.62	1160.05	0.61	1160.07	0.59	1159.46
W03B	-----	1161.13	-----	1161.32	-----	1160.95
W04A	0.26	1161.16	0.12	1161.71	0.24	1161.25
W04B	-----	-----	0.07	1161.71	-----	-----
W05	0.36	1159.92	0.32	1160.42	0.37	1160.08
W06R	0.14	1161.95	0.16	1162.75	0.13	1162.48
W07	-----	-----	-----	1162.58	-----	-----
W08	-----	-----	-----	1174.61	-----	-----
W09	-----	-----	-----	1162.15	-----	-----
W10A	-----	-----	-----	1160.99	-----	-----
W10B	-----	-----	-----	1161.02	-----	-----
W11	-----	-----	-----	1160.92	-----	-----

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	June 13 2000		July 17 2000		August 14 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	-----	-----	1160.56	-----	-----
W13	-----	-----	-----	1161.47	-----	-----
W14	-----	-----	-----	1159.71	-----	-----
W16	-----	-----	-----	1161.69	-----	-----
W17	-----	-----	0.28	1160.55	-----	-----
W18	-----	-----	-----	1160.97	-----	-----
W19	-----	-----	-----	1162.32	-----	-----
W21	-----	-----	-----	1160.78	-----	-----
W22	0.16	1160.88	0.17	1160.70	0.20	1160.14
W23	-----	-----	-----	1160.87	-----	-----
W24A	-----	-----	-----	1160.85	-----	-----
W25	-----	-----	-----	1163.06	-----	-----
W26	-----	-----	-----	1160.96	-----	-----
W27	-----	-----	-----	1161.43	-----	-----
W28	-----	-----	-----	1160.97	-----	-----
W29	-----	-----	-----	1160.85	-----	-----
W30	0.43	1159.78	0.22	1160.40	0.31	1160.04
W31	-----	-----	-----	1160.81	-----	-----
W32	-----	-----	-----	1160.81	-----	-----
W33	-----	-----	0.11	1161.38	-----	-----
W34	0.18	1157.51	0.10	1157.96	0.15	1157.57
W35	0.38	1160.02	0.46	1160.45	0.29	1160.29
W36	-----	1161.03	-----	1161.64	-----	1161.11
W39	-----	-----	-----	1161.53	-----	-----
W40	-----	-----	0.72	1160.47	-----	-----
W41	-----	-----	-----	1162.48	-----	-----
W42	-----	-----	0.17	1162.11	-----	-----
W44	0.35	1160.22	0.15	1160.80	0.23	1160.43
W45	0.05	1161.16	0.11	1161.19	0.08	1160.72
W46	0.63	1159.47	0.60	1159.97	0.65	1159.64
W47	0.49	1155.88	1.48	1154.97	1.12	1154.75
W48	-----	1156.65	-----	1156.68	0.05	1156.10
W49	0.12	1157.17	0.16	1157.22	0.25	1156.61
W66	-----	1162.03	-----	1162.79	-----	1162.50
W67	-----	1161.99	-----	1162.75	-----	1162.46
W68A	-----	-----	0.28	1162.55	-----	-----
W68B	-----	-----	-----	1162.71	-----	-----
W69	0.45	1160.60	0.66	1160.87	0.98	1160.27
W70B	-----	-----	-----	1162.57	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:
ft msl = feet mean sea level

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

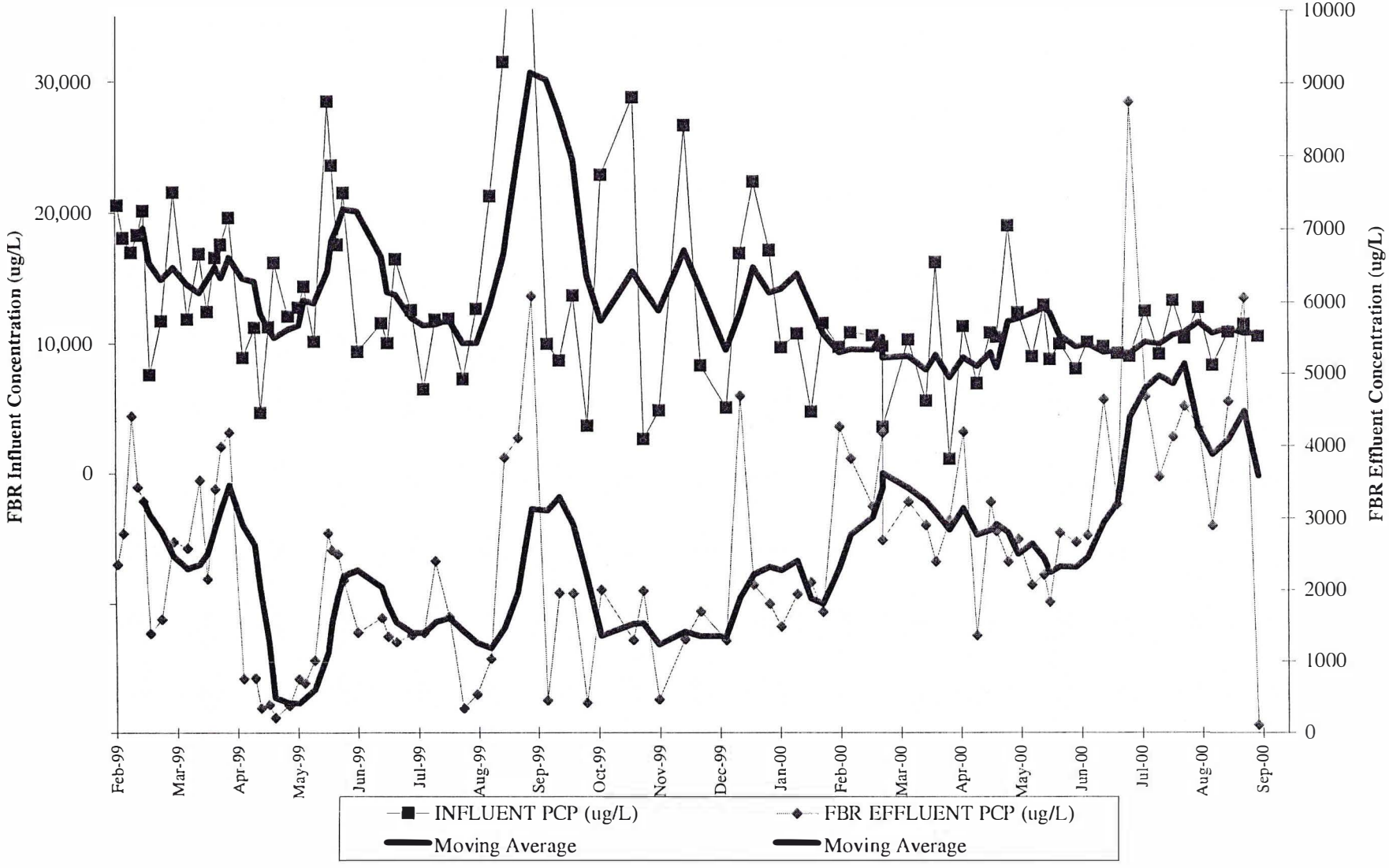
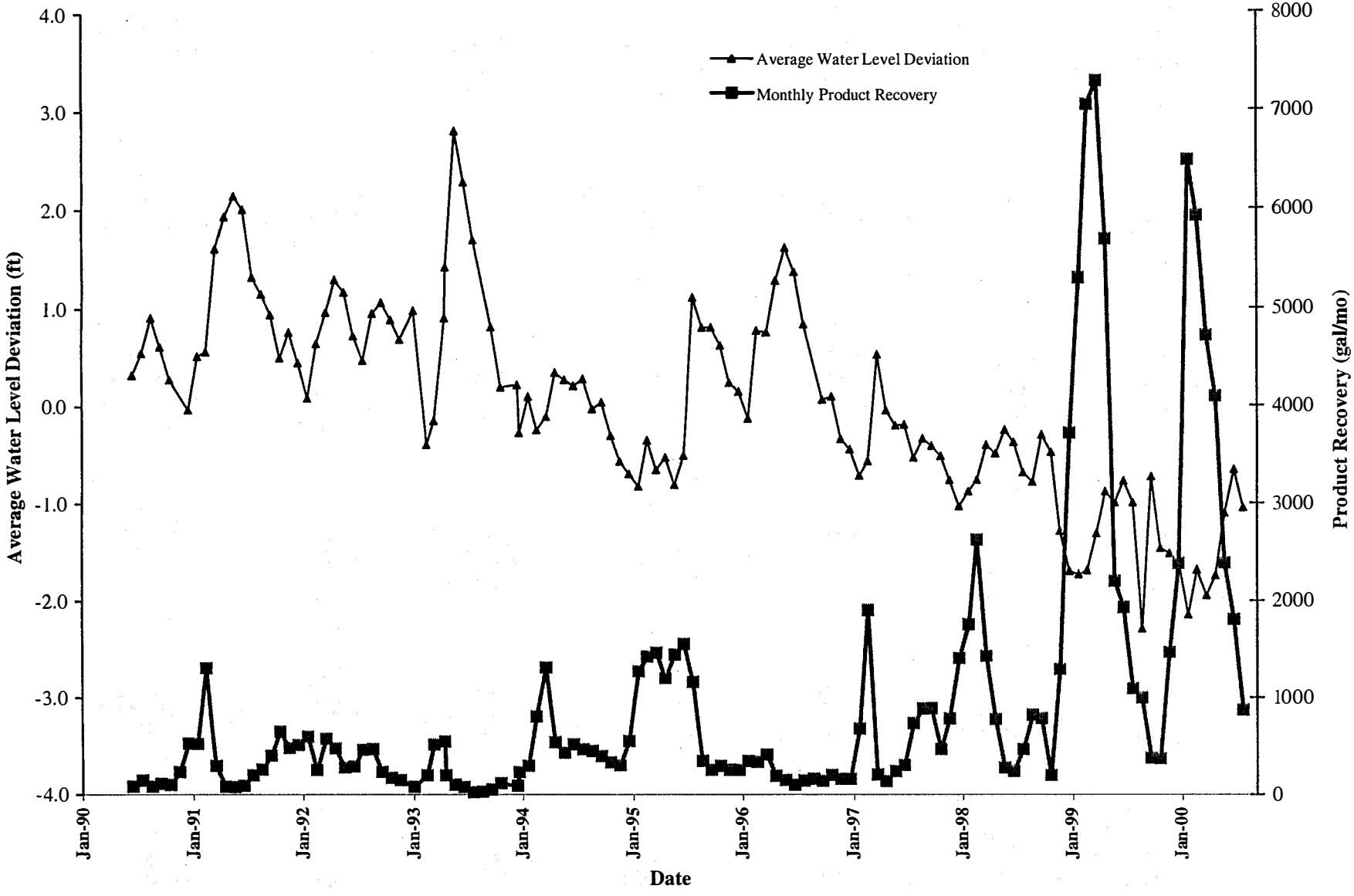


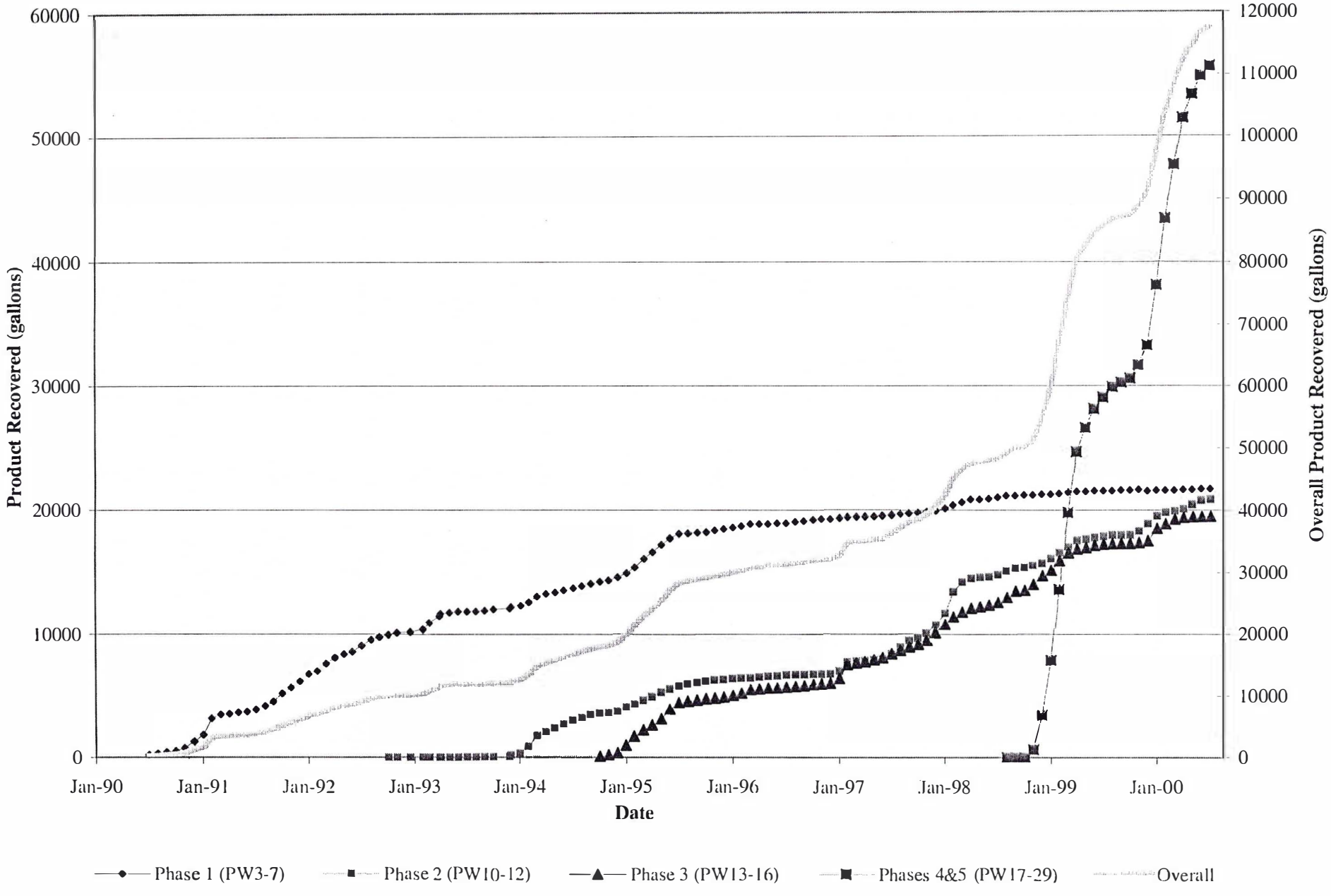
FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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9/8/00

FIGURE 3
Cumulative Product Recovery by Phase and Overall



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9/8/00

MONTGOMERY WATSON

RECEIVED
AUG 2 8 2000
WAUSAU DNR

August 23, 2000

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: July Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the July Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

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

Sincerely,

MONTGOMERY WATSON

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek – MW Wauleco (1)

PHL/phl/ndj/DJB
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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
JULY 2000

SUMMARY OF JULY 2000 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 2.8 ug/L for the month of July, with a maximum single day concentration of 5 ug/L. The laboratory result for PCP in the system effluent was 3.6 ug/L on July 19, 2000. The on-site result for the same day was 3 ug/L. The laboratory result indicates that the effluent PCP concentrations were well below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on July 19 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was 0.36 ug/L.

PCP influent concentrations ranged from 9,044 ug/L to 13,185 ug/L during July (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR effluent increased slightly during July. The average PCP removal efficiency for the FBR during July was 62% compared to an average of 71% during the previous year. These trends of gradually increasing effluent concentrations and decreasing FBR removal efficiencies are likely to continue until the carbon changeout in the FBR (scheduled for early September) occurs.

Daily groundwater flow through the treatment system (Table 2) ranged from 51 to 56 gallons per minute (gpm) during July. The treatment system flowrate averaged 53 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site have been increasing since April due to high precipitation and subsequent infiltration. Product recovery for July was 1,812 gallons, down from 2,383 gallons in June.

As discussed in the June monthly report, extraction wells PW-9 and PW-10 were shut down due to historically low product recovery at these locations. This will allow additional water to be drawn from wells that have provided higher product recovery rates. Product thicknesses at

these locations will be monitored to determine if these wells may provide more effective product recovery in the future.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

Groundwater elevation and product thickness data for May, June, and July are summarized in Table 4.

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TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Biological Oxygen Demand	mg/L	07/19/00	7	30				<	
Chemical Oxygen Demand	mg/L	07/19/00	<	45				<	
Chloride	mg/L	07/19/00	205	194				198	
Dissolved Oxygen	mg/L	07/05/00	6.4	3.8	3.2				
	mg/L	07/12/00	6.7	2.6	3.8				
	mg/L	07/19/00	5.7	5.5	4				
	mg/L	07/25/00	6.9	2.4	3.4				
Nitrogen, Ammonia	mg/L	07/05/00	3	1	1				
	mg/L	07/12/00	3	1	1				
	mg/L	07/19/00	3	1	1				
	mg/L	07/25/00	2.5	1	1				
Nitrogen, Nitrate	mg/L	07/05/00	<	<	<				
	mg/L	07/12/00	<	<	<				
	mg/L	07/19/00	<	<	<				
	mg/L	07/25/00	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	07/19/00	0.500	0.370				0.100	
Nitrogen, Total Kjeldahl	mg/L	07/19/00	1.64	2.19				1.36	
Pentachlorophenol-Screen	µg/L	07/01/00						3	
	µg/L	07/02/00						3	
	µg/L	07/03/00						3	
	µg/L	07/04/00						5	
	µg/L	07/05/00	12375	4700	3587			5	
	µg/L	07/06/00						2	
	µg/L	07/07/00						4	
	µg/L	07/08/00						2	
	µg/L	07/09/00						2	
	µg/L	07/10/00						2	
	µg/L	07/11/00						4	
	µg/L	07/12/00	9044	3585	3542			5	
	µg/L	07/13/00						2	
	µg/L	07/14/00						4	
	µg/L	07/15/00						2	
	µg/L	07/16/00						2	
	µg/L	07/17/00						2	
	µg/L	07/18/00						4	
	µg/L	07/19/00	13185	4135	3421			3	
	µg/L	07/20/00						3	
	µg/L	07/21/00						3	
	µg/L	07/22/00						2	
	µg/L	07/23/00						2	

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Pentachlorophenol-Screen	µg/L	07/24/00						2	
	µg/L	07/25/00	10269	4560	5210			4	
	µg/L	07/26/00						2	
	µg/L	07/27/00						2	
	µg/L	07/28/00						3	
	µg/L	07/29/00						2	
	µg/L	07/30/00						2	
	µg/L	07/31/00						2	
pH	S.U.	07/05/00	6.3	6.3	6.4				
	S.U.	07/12/00	6.4	6.3	6.4				
	S.U.	07/19/00	6.4	6.4	6.5				
	S.U.	07/25/00	6.4	6.4	6.4				
Phosphorus, Ortho	mg/L	07/19/00	0.190	0.290				0.210	
Phosphorus, Phosphate	mg/L	07/05/00	1	0.6	0.6				
	mg/L	07/12/00	2	2	2				
	mg/L	07/19/00	1	0.4	0.4				
	mg/L	07/25/00	1.5	1	1				
Solids, Total Suspended	mg/L	07/19/00	17	4		7	7	<	
Mercury	µg/L	07/19/00	0.53	0.60				0.36	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	07/19/00	<	1300	260	<	240	<	<
2,4,5-Trichlorophenol	µg/L	07/19/00	<	<	<	<	<	<	<
2,4,6-Trichlorophenol	µg/L	07/19/00	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	07/19/00	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	07/19/00	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	07/19/00	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	07/19/00	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	07/19/00	<	<	<	<	<	<	<
2-Methylphenol	µg/L	07/19/00	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	07/19/00	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	07/19/00	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	07/19/00	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	07/19/00	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	07/19/00	1600	170	160	330	<	3.6	3.6
Pentachlorophenol	µg/L	07/19/00	6700	12000	4600	5100	3100	<	<
Phenol	µg/L	07/19/00	<	770	<	<	<	<	<

Notes:
"<" = not detected

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate [1] (gpm)	POTW Discharge Flow Rate [1] (gpm)	POTW Totalized Discharge (gal)
07/01/00	55.84	49.89	31,015,965
07/02/00	55.42	48.92	31,086,416
07/03/00	55.32	47.35	31,154,605
07/04/00	55.19	50.00	31,226,598
07/05/00	54.00	46.29	31,293,260
07/06/00	53.94	48.86	31,363,625
07/07/00	52.65	46.99	31,431,290
07/08/00	53.76	46.82	31,498,713
07/09/00	53.35	47.15	31,566,603
07/10/00	53.16	45.69	31,632,391
07/11/00	53.11	48.18	31,701,777
07/12/00	53.28	47.58	31,770,292
07/13/00	52.94	46.63	31,837,446
07/14/00	53.77	47.28	31,905,524
07/15/00	53.84	47.12	31,973,374
07/16/00	53.50	46.86	32,040,852
07/17/00	53.29	46.49	32,107,796
07/18/00	53.40	47.02	32,175,508
07/19/00	53.58	47.31	32,243,639
07/20/00	53.58	47.12	32,311,493
07/21/00	53.10	46.03	32,377,769
07/22/00	53.02	46.20	32,444,298
07/23/00	52.72	46.04	32,510,595
07/24/00	52.93	46.36	32,577,353
07/25/00	52.96	46.56	32,644,394
07/26/00	52.59	45.72	32,710,229
07/27/00	52.01	43.77	32,773,262
07/28/00	53.54	44.96	32,838,000
07/29/00	50.50	47.35	32,906,189
07/30/00	52.74	44.97	32,970,952
07/31/00	51.30	44.58	33,035,147
Average	53.37	46.84	
Total [2]:			2,091,023

Footnotes:

(1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.

(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
07/01/00	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	41.3	0.0	5.2	0.0	0.0	0.0	20.4	10.3	1.7	1.7	0.0	0.0	97.8
07/02/00	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	1.7	41.3	0.0	3.4	0.0	0.0	0.0	17.2	10.3	3.4	1.7	0.0	0.0	96.2
07/03/00	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	41.3	0.0	3.4	0.0	0.0	0.0	13.8	6.9	1.7	1.7	0.0	1.7	89.4
07/04/00	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	41.3	0.0	3.4	0.0	0.0	0.0	12.0	5.2	1.7	1.7	0.0	0.0	84.2
07/05/00	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	41.3	0.0	3.4	1.7	0.0	0.0	10.3	3.4	1.7	1.7	0.0	1.7	84.1
07/06/00	1.7	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	41.3	0.0	3.4	0.0	0.0	0.0	8.6	3.4	1.7	1.7	0.0	0.0	80.7
07/07/00	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	41.3	1.7	1.7	3.4	0.0	0.0	6.9	3.4	3.4	0.0	0.0	1.7	80.7
07/08/00	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	41.3	0.0	1.7	3.4	0.0	0.0	8.6	3.4	3.4	1.7	0.0	0.0	80.7
07/09/00	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	41.3	0.0	0.0	3.4	0.0	0.0	8.6	5.2	3.4	1.7	0.0	1.7	82.5
07/10/00	0.0	0.0	0.0	0.0	0.0	13.8	0.0	1.7	0.0	0.0	0.0	41.3	0.0	1.7	1.7	0.0	0.0	6.9	5.2	3.4	1.7	0.0	0.0	77.4
07/11/00	0.0	0.0	0.0	0.0	0.0	10.3	0.0	1.7	0.0	0.0	0.0	34.4	0.0	3.4	0.0	0.0	0.0	5.2	5.2	3.4	1.7	0.0	0.0	65.3
07/12/00	0.0	0.0	0.0	0.0	0.0	10.3	0.0	1.7	0.0	0.0	0.0	34.4	0.0	3.4	1.7	0.0	0.0	5.2	5.2	3.4	1.7	0.0	0.0	67.0
07/13/00	0.0	0.0	0.0	0.0	0.0	10.3	0.0	1.7	0.0	0.0	0.0	34.4	0.0	3.4	1.7	0.0	0.0	3.4	5.2	3.4	1.7	0.0	0.0	65.2
07/14/00	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	1.7	25.8	0.0	3.4	0.0	0.0	0.0	3.4	5.2	3.4	3.4	0.0	1.7	58.3
07/15/00	0.0	0.0	0.0	0.0	0.0	10.3	0.0	1.7	0.0	0.0	0.0	25.8	0.0	1.7	1.7	0.0	0.0	3.4	5.2	3.4	3.4	0.0	1.7	58.3
07/16/00	0.0	0.0	0.0	0.0	0.0	10.3	0.0	1.7	0.0	0.0	1.7	25.8	0.0	1.7	0.0	0.0	0.0	3.4	6.9	5.2	3.4	0.0	1.7	61.8
07/17/00	0.0	0.0	0.0	0.0	0.0	10.3	0.0	1.7	0.0	0.0	0.0	25.8	0.0	1.7	1.7	0.0	0.0	3.4	6.9	3.4	1.7	0.0	0.0	56.6
07/18/00	0.0	0.0	0.0	0.0	0.0	8.6	0.0	1.7	0.0	0.0	0.0	25.8	0.0	1.7	0.0	0.0	0.0	5.2	6.9	3.4	1.7	0.0	0.0	55.0
07/19/00	0.0	0.0	0.0	0.0	0.0	8.6	0.0	1.7	0.0	0.0	0.0	25.8	1.7	1.7	0.0	0.0	0.0	5.2	5.2	3.4	1.7	0.0	0.0	55.0
07/20/00	0.0	0.0	0.0	0.0	0.0	8.6	0.0	1.7	0.0	0.0	0.0	20.4	0.0	1.7	0.0	0.0	0.0	5.2	6.9	3.4	1.7	0.0	0.0	49.6
07/21/00	0.0	0.0	0.0	0.0	0.0	6.9	0.0	1.7	0.0	0.0	0.0	20.4	0.0	3.4	0.0	0.0	0.0	3.4	5.2	3.4	0.0	0.0	1.7	46.1
07/22/00	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	20.4	0.0	5.2	0.0	0.0	0.0	3.4	3.4	3.4	1.7	0.0	0.0	44.4
07/23/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	20.4	0.0	5.2	0.0	0.0	0.0	3.4	3.4	3.4	0.0	0.0	1.7	44.4
07/24/00	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	20.4	0.0	1.7	0.0	0.0	0.0	1.7	3.4	3.4	1.7	0.0	0.0	39.2
07/25/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	1.7	5.2	3.4	0.0	0.0	1.7	34.4
07/26/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	3.4	5.2	0.0	0.0	0.0	29.3
07/27/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4	1.7	0.0	0.0	23.9
07/28/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	1.7	0.0	0.0	1.7	3.4	1.7	1.7	0.0	0.0	23.9
07/29/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.7	0.0	0.0	0.0	10.3	0.0	1.7	3.4	0.0	0.0	3.4	5.2	1.7	1.7	0.0	0.0	32.5
07/30/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	1.7	8.6	0.0	0.0	1.7	0.0	1.7	1.7	3.4	1.7	1.7	0.0	0.0	25.6
07/31/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.7	0.0	0.0	1.7	3.4	1.7	1.7	0.0	0.0	22.2
Well Total	1.7	0.0	0.0	0.0	0.0	319.8	0.0	30.6	0.0	0.0	6.8	852.1	3.4	68.3	28.9	0.0	1.7	180.1	158.3	93.7	49.3	0.0	17.0	1,811.7

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	May 17 2000		June 13 2000		July 17 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	0.09	1161.10	0.04	1161.69	-----	1162.45
PW02	-----	1161.18	-----	1161.75	-----	1162.46
PW03	-----	1161.31	-----	1161.84	-----	1162.47
PW3S	-----	-----	-----	-----	0.04	1159.73
PW04	0.63	1155.18	0.56	1156.04	0.02	1156.25
PW05	0.93	1154.00	0.50	1154.93	0.23	1157.21
PW06	-----	-----	-----	-----	0.43	1161.43
PW07	0.38	1155.88	1.01	1157.28	0.61	1157.50
PW08	-----	-----	-----	-----	0.36	1160.63
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1160.93	-----	1160.69	-----	1161.01
PW10	-----	1155.22	-----	1160.81	-----	1161.07
PW11	0.77	1155.12	2.00	1153.95	0.86	1154.46
PW12	-----	1160.56	-----	1161.10	-----	1161.88
PW13	0.73	1157.00	0.52	1157.95	0.61	1157.98
PW14	-----	-----	-----	-----	0.14	1160.73
PW15	0.10	1159.59	0.08	1160.38	0.44	1160.21
PW16	-----	1160.26	-----	1160.15	-----	1160.59
PW17	0.18	1157.09	0.18	1157.56	0.37	1157.12
PW18	0.37	1158.65	0.63	1158.43	0.05	1159.47
PW19	0.08	1158.49	0.28	1158.31	0.61	1158.63
PW20	0.52	1158.14	1.94	1157.47	0.47	1159.17
PW21	0.57	1157.95	0.43	1158.13	0.07	1159.57
PW22	-----	1160.22	-----	1160.74	-----	1161.12
PW23	0.38	1157.81	0.48	1157.80	0.43	1157.54
PW24	0.93	1157.10	1.20	1157.48	0.11	1158.34
PW25	0.73	1157.19	0.23	1158.09	0.92	1157.33
PW26	0.48	1156.67	0.39	1157.22	-0.27	1157.67
PW27	0.94	1156.60	0.76	1156.88	1.08	1156.43
PW28	0.56	-----	0.28	-----	0.13	-----
PW29	0.03	-----	0.20	-----	0.61	-----
P01	0.25	1159.54	0.23	1160.03	0.22	1160.48
OW01	-----	-----	-----	-----	-----	1162.93
W01A	-----	-----	-----	-----	-----	1163.06
W01B	-----	-----	-----	-----	-----	1163.03
W02	0.71	1160.46	0.51	1161.23	0.49	1161.94
W03A	0.66	1159.26	0.62	1160.05	0.61	1160.07
W03B	-----	1160.73	-----	1161.13	-----	1161.32
W04A	0.52	1160.37	0.26	1161.16	0.12	1161.71
W04B	-----	-----	-----	-----	0.07	1161.71
W05	0.33	1159.44	0.36	1159.92	0.32	1160.42
W06R	0.22	1161.37	0.14	1161.95	0.16	1162.75
W07	-----	-----	-----	-----	-----	1162.58
W08	-----	-----	-----	-----	-----	1174.61
W09	-----	-----	-----	-----	-----	1162.15
W10A	-----	-----	-----	-----	-----	1160.99
W10B	-----	-----	-----	-----	-----	1161.02
W11	-----	-----	-----	-----	-----	1160.92

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	May 17 2000		June 13 2000		July 17 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	-----	-----	-----	-----	1160.56
W13	-----	-----	-----	-----	-----	1161.47
W14	-----	-----	-----	-----	-----	1159.71
W16	-----	-----	-----	-----	-----	1161.69
W17	-----	-----	-----	-----	0.28	1160.55
W18	-----	-----	-----	-----	-----	1160.97
W19	-----	-----	-----	-----	-----	1162.32
W21	-----	-----	-----	-----	-----	1160.78
W22	0.14	1160.03	0.16	1160.88	0.17	1160.70
W23	-----	-----	-----	-----	-----	1160.87
W24A	-----	-----	-----	-----	-----	1160.85
W25	-----	-----	-----	-----	-----	1163.06
W26	-----	-----	-----	-----	-----	1160.96
W27	-----	-----	-----	-----	-----	1161.43
W28	-----	-----	-----	-----	-----	1160.97
W29	-----	-----	-----	-----	-----	1160.85
W30	0.56	1159.17	0.43	1159.78	0.22	1160.40
W31	-----	-----	-----	-----	-----	1160.81
W32	-----	-----	-----	-----	-----	1160.81
W33	-----	-----	-----	-----	0.11	1161.38
W34	0.17	1157.01	0.18	1157.51	0.10	1157.96
W35	0.32	1159.45	0.38	1160.02	0.46	1160.45
W36	-----	1160.39	-----	1161.03	-----	1161.64
W39	-----	-----	-----	-----	-----	1161.53
W40	-----	-----	-----	-----	0.72	1160.47
W41	-----	-----	-----	-----	-----	1162.48
W42	-----	-----	-----	-----	0.17	1162.11
W44	0.19	1159.70	0.35	1160.22	0.15	1160.80
W45	0.02	1160.21	0.05	1161.16	0.11	1161.19
W46	0.58	1159.01	0.63	1159.47	0.60	1159.97
W47	1.17	1154.78	0.49	1155.88	1.48	1154.97
W48	0.05	1155.87	-----	1156.65	-----	1156.68
W49	0.21	1156.34	0.12	1157.17	0.16	1157.22
W66	-----	1161.51	-----	1162.03	-----	1162.79
W67	-----	1161.47	-----	1161.99	-----	1162.75
W68A	-----	-----	-----	-----	0.28	1162.55
W68B	-----	-----	-----	-----	-----	1162.71
W69	0.59	1159.90	0.45	1160.60	0.66	1160.87
W70B	-----	-----	-----	-----	-----	1162.57
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:
ft msl = feet mean sea level

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

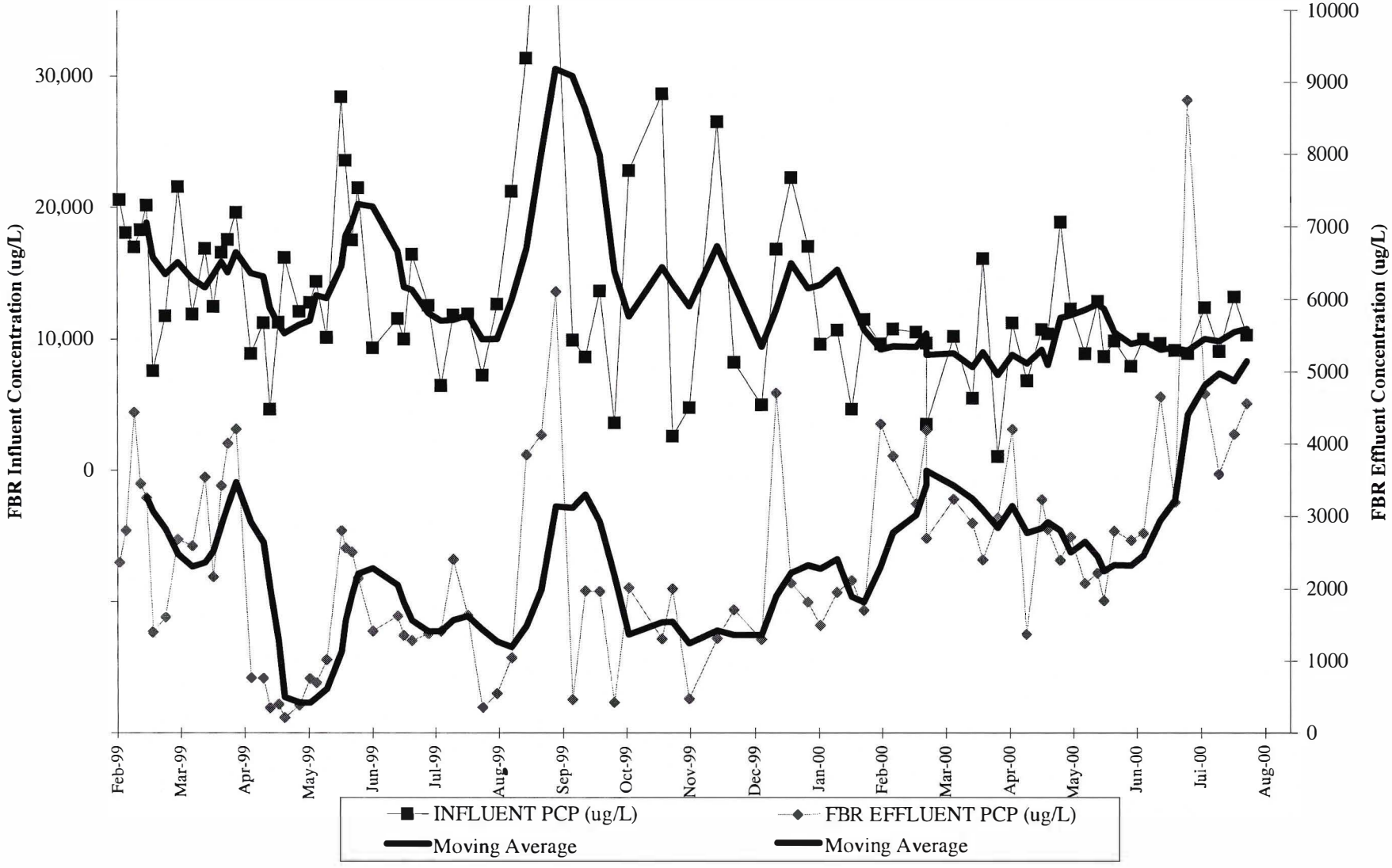
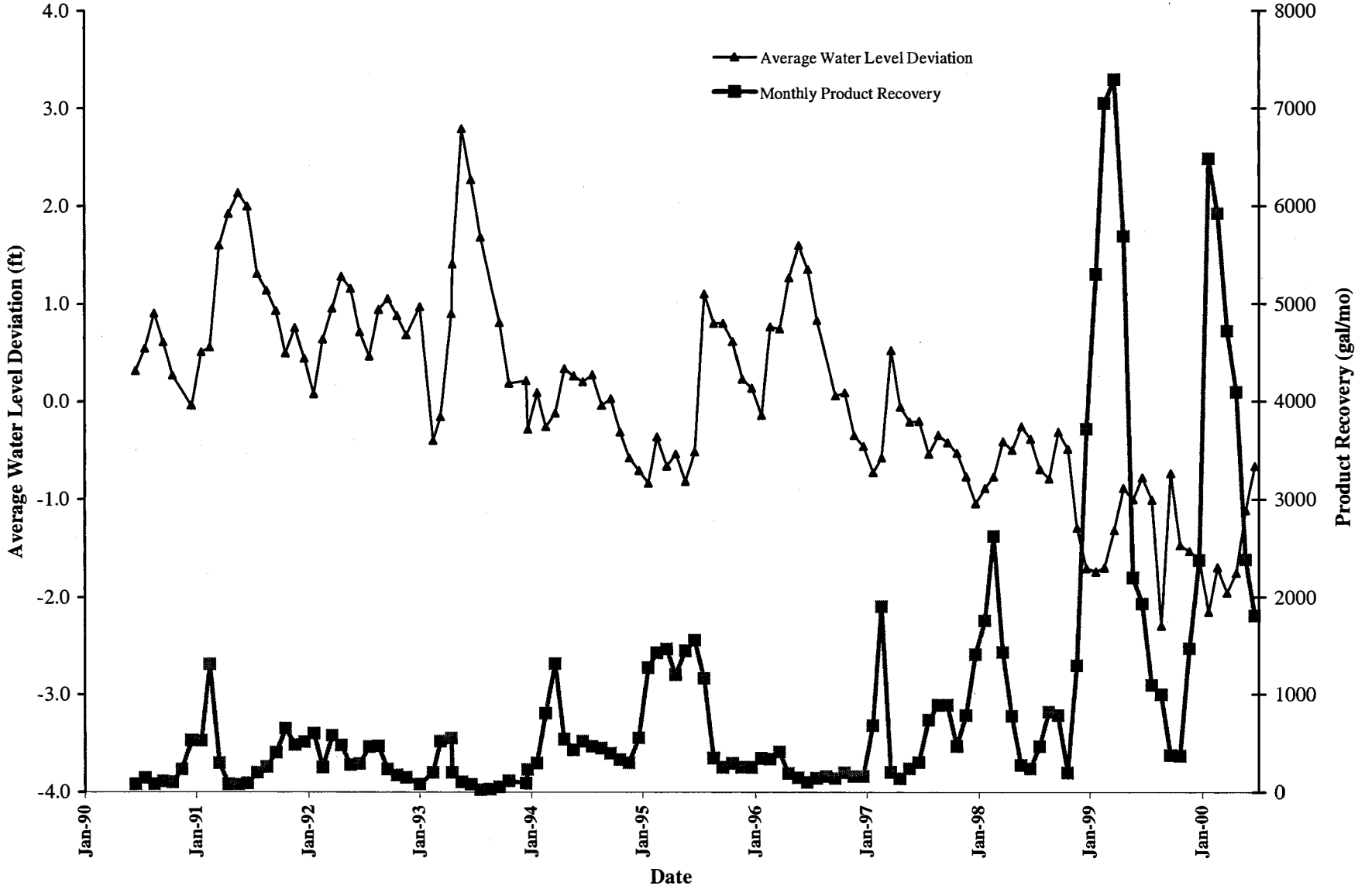


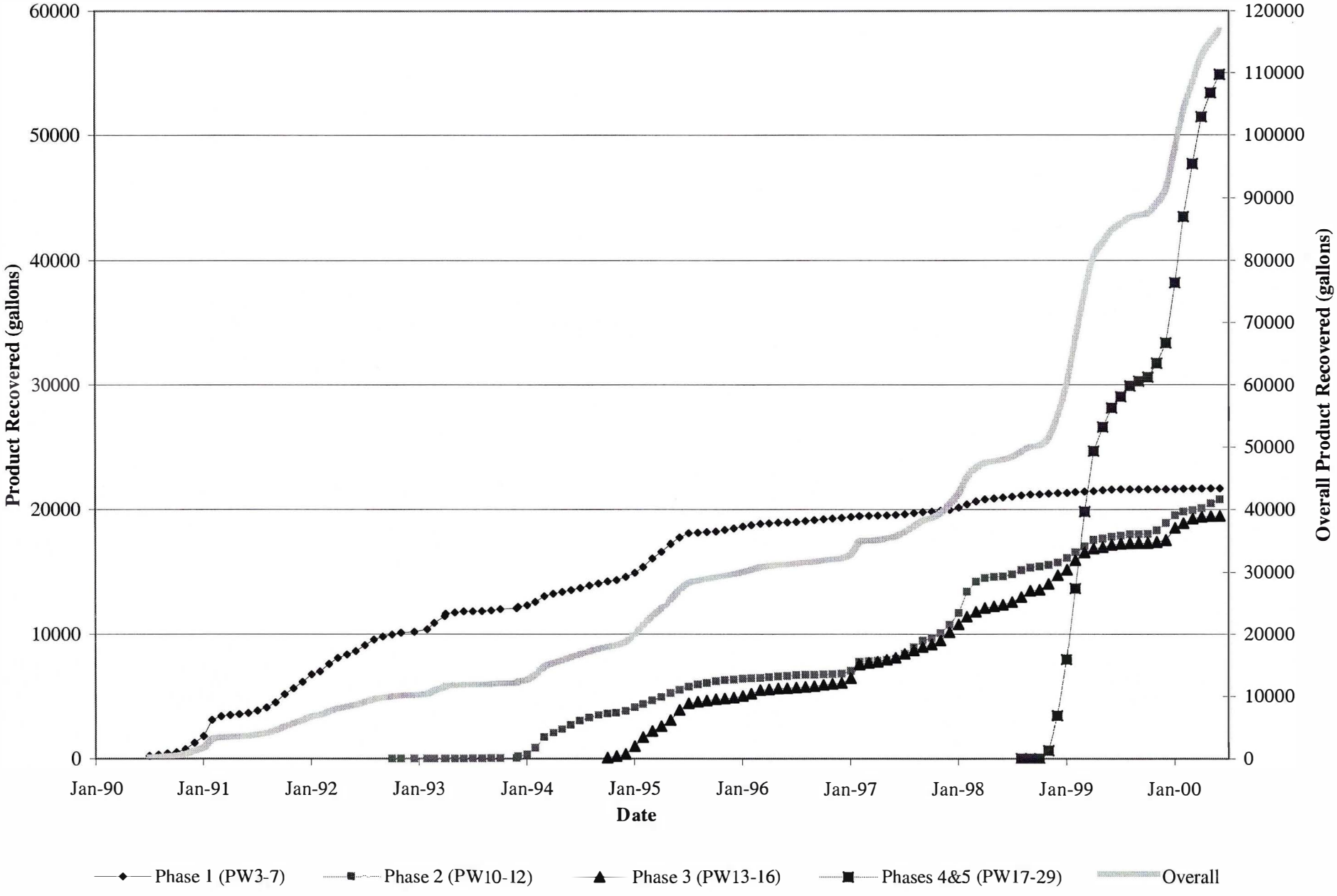
FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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FIGURE 3
Cumulative Product Recovery by Phase and Overall



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8/18/00

MONTGOMERY WATSON

RECEIVED
JUL 2 8 2000
WAUSAU DNR

July 26, 2000

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: June Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the June Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

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

Sincerely,

MONTGOMERY WATSON

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek – MW Wauleco (1)

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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
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Serving the World's Environmental Needs

WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
JUNE 2000

SUMMARY OF JUNE 2000 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 3 ug/L for the month of June, with a maximum single day concentration of 5 ug/L. The laboratory result for PCP in the system effluent was <3 ug/L on June 14, 2000. The on-site result for the same day was 4 ug/L. The laboratory result indicates that the effluent PCP concentrations were well below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on June 14 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was 0.2 ug/L.

PCP influent concentrations ranged from 8,880 ug/L to 9,966 ug/L during June (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1 and Table 1, PCP concentrations in the FBR effluent spiked on June 27th following the intake of product from PW-11 on June 25th. This situation was rapidly rectified, preventing fouling of the finishing filters, as evidenced by continuing low system effluent concentrations the remainder of the month. Due to this situation, the average PCP removal efficiency for the FBR decreased during June to 48% compared to an average of 73% during the previous year.

Daily groundwater flow through the treatment system (Table 2) ranged from 47 to 57 gallons per minute (gpm) during June. The treatment system flowrate averaged 50 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site increased during May and June due to unusually high precipitation and subsequent infiltration. Product recovery decreased to 2,383 gallons.

Extraction wells PW-9 and PW-10 were shut down in June due to historically low product recovery at these locations. This will allow additional water to be drawn from wells that have provided higher product recovery rates. Product thicknesses at these locations will be

monitored to determine if these wells may provide more effective product recovery in the future.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

Groundwater elevation and product thickness data for April, May, and June are summarized in Table 4.

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TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Biological Oxygen Demand	mg/L	06/14/00	12	9				2	
Chemical Oxygen Demand	mg/L	06/14/00	68	62				36	
Chloride	mg/L	06/14/00	178	188				188	
Dissolved Oxygen	mg/L	06/06/00	6.3	2.7	3.9				
	mg/L	06/14/00	8.2	3.3	4.2				
	mg/L	06/21/00	7	2.6	3.7				
	mg/L	06/27/00	7.1	3.8	4				
Nitrogen, Ammonia	mg/L	06/06/00	3	1	1				
	mg/L	06/14/00	2.5	1	1				
	mg/L	06/21/00	3	1	1				
	mg/L	06/27/00	3	1	1				
Nitrogen, Nitrate	mg/L	06/06/00	<	0.3	<				
	mg/L	06/14/00	<	<	<				
	mg/L	06/21/00	<	<	<				
	mg/L	06/27/00	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	06/14/00	0.42	0.96				<	
Nitrogen, Total Kjeldahl	mg/L	06/14/00	2.31	1.39				0.87	
Pentachlorophenol-Screen	µg/L	06/01/00						1	
	µg/L	06/02/00						1	
	µg/L	06/03/00						2	
	µg/L	06/04/00						2	
	µg/L	06/05/00						2	
	µg/L	06/06/00	9966	2767	2164			2	
	µg/L	06/07/00						3	
	µg/L	06/08/00						2	
	µg/L	06/09/00						2	
	µg/L	06/10/00						3	
	µg/L	06/11/00						3	
	µg/L	06/12/00						3	
	µg/L	06/13/00						4	
	µg/L	06/14/00	9643	4656	2879			4	
	µg/L	06/15/00						4	
	µg/L	06/16/00						2	
	µg/L	06/17/00						4	
	µg/L	06/18/00						4	
	µg/L	06/19/00						4	
	µg/L	06/20/00						4	
	µg/L	06/21/00	9125	3197	4154			4	

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Pentachlorophenol-Screen	µg/L	06/22/00						3	
	µg/L	06/23/00						5	
	µg/L	06/24/00						2	
	µg/L	06/25/00						2	
	µg/L	06/26/00						2	
	µg/L	06/27/00	8880	8755	2506			4	
	µg/L	06/28/00						2	
	µg/L	06/29/00		3136				2	
	µg/L	06/30/00		3248				5	
pH	S.U.	06/06/00	6.3	6.3	6.4				
	S.U.	06/14/00	6.3	6.3	6.4				
	S.U.	06/21/00	6.3	6.3	6.4				
	S.U.	06/27/00	6.4	6.4	6.5				
Phosphorus, Ortho	mg/L	06/14/00	0.26	0.14				0.25	
Phosphorus, Phosphate	mg/L	06/06/00	1	1	1				
	mg/L	06/14/00	1	1	1				
	mg/L	06/21/00	1	1	1				
	mg/L	06/27/00	1	0.6	0.6				
Solids, Total Suspended	mg/L	06/14/00	<	12		5	<	<	
Mercury	µg/L	06/14/00	0.49	0.54				0.2	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	06/14/00	<	<	<	<	8.3	<	<
2,4,5-Trichlorophenol	µg/L	06/14/00	<	<	<	<	<	<	<
2,4,6-Trichlorophenol	µg/L	06/14/00	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	06/14/00	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	06/14/00	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	06/14/00	1200	250	250	<	5.2	5.3	4.8
2,6-Dichlorophenol	µg/L	06/14/00	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	06/14/00	<	<	<	<	<	<	<
2-Methylphenol	µg/L	06/14/00	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	06/14/00	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	06/14/00	1100	210	<	<	4.5	<	<
4,6-Dinitro-2-Methylphenol	µg/L	06/14/00	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	06/14/00	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	06/14/00	<	<	<	<	5	<	<
Pentachlorophenol	µg/L	06/14/00	15000	3600	2900	470	180	<	<
Phenol	µg/L	06/14/00	<	<	<	<	<	<	<

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate [1] (gpm)	POTW Discharge Flow Rate [1] (gpm)	POTW Totalized Discharge (gal)
06/01/00	46.64	39.35	29,077,769
06/02/00	46.81	39.86	29,135,161
06/03/00	46.89	40.30	29,193,196
06/04/00	46.67	39.64	29,250,283
06/05/00	46.63	39.39	29,306,998
06/06/00	48.16	40.87	29,365,847
06/07/00	48.57	41.18	29,425,153
06/08/00	48.72	42.35	29,486,142
06/09/00	49.63	42.92	29,547,943
06/10/00	49.28	42.71	29,609,443
06/11/00	48.16	41.95	29,669,852
06/12/00	47.41	41.17	29,729,133
06/13/00	50.34	44.12	29,792,663
06/14/00	50.48	44.52	29,856,771
06/15/00	50.32	44.16	29,920,361
06/16/00	50.58	44.80	29,984,880
06/17/00	50.66	45.44	30,050,311
06/18/00	50.00	44.74	30,114,733
06/19/00	49.62	44.34	30,178,582
06/20/00	50.65	45.33	30,243,856
06/21/00	51.25	45.93	30,309,996
06/22/00	52.79	47.44	30,378,312
06/23/00	55.36	47.91	30,447,304
06/24/00	55.63	49.37	30,518,400
06/25/00	55.35	48.59	30,588,369
06/26/00	54.94	46.84	30,655,823
06/27/00	55.56	50.22	30,728,133
06/28/00	56.51	50.32	30,800,600
06/29/00	56.29	50.41	30,873,193
06/30/00	55.84	49.26	30,944,124
Average	50.86	44.51	
Total [2]:			1,923,023

Footnotes:

(1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.

(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
06/01/00	1.7	0.0	0.0	0.0	0.0	10.3	0.0	1.7	0.0	0.0	1.7	34.4	0.0	5.2	1.7	0.0	0.0	10.3	17.2	6.9	1.7	0.0	1.7	94.5
06/02/00	0.0	0.0	1.7	0.0	0.0	10.3	0.0	1.7	0.0	0.0	3.4	34.4	0.0	3.4	1.7	0.0	0.0	10.3	13.8	6.9	1.7	0.0	0.0	89.3
06/03/00	1.7	0.0	0.0	0.0	0.0	10.3	0.0	1.7	0.0	0.0	1.7	34.4	0.0	3.4	1.7	0.0	1.7	12.0	6.9	5.2	1.7	0.0	1.7	84.1
06/04/00	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	1.7	34.4	0.0	3.4	1.7	0.0	0.0	6.9	3.4	6.9	1.7	0.0	0.0	70.4
06/05/00	1.7	0.0	1.7	0.0	0.0	10.3	0.0	0.0	0.0	0.0	1.7	34.4	0.0	3.4	1.7	0.0	0.0	8.6	3.4	3.4	0.0	0.0	0.0	70.3
06/06/00	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	1.7	34.4	0.0	6.9	3.4	0.0	0.0	8.6	6.9	6.9	0.0	0.0	0.0	77.4
06/07/00	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	1.7	34.4	0.0	5.2	1.7	0.0	0.0	10.3	8.6	3.4	0.0	0.0	0.0	73.9
06/08/00	1.7	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	1.7	34.4	0.0	5.2	1.7	0.0	1.7	12.0	8.6	5.2	0.0	0.0	0.0	80.8
06/09/00	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	34.4	0.0	5.2	1.7	0.0	0.0	12.0	6.9	3.4	0.0	0.0	0.0	75.6
06/10/00	0.0	0.0	0.0	0.0	0.0	13.8	0.0	1.7	0.0	0.0	1.7	34.4	0.0	5.2	0.0	0.0	1.7	12.0	8.6	1.7	0.0	0.0	0.0	80.8
06/11/00	1.7	0.0	0.0	0.0	0.0	10.3	0.0	1.7	0.0	0.0	1.7	25.8	0.0	6.9	0.0	0.0	0.0	12.0	8.6	1.7	0.0	0.0	1.7	72.1
06/12/00	0.0	0.0	0.0	0.0	0.0	12.0	0.0	1.7	0.0	0.0	1.7	25.8	0.0	8.6	0.0	0.0	0.0	17.2	5.2	1.7	1.7	0.0	0.0	75.6
06/13/00	0.0	0.0	0.0	0.0	0.0	13.8	0.0	1.7	0.0	0.0	0.0	25.8	0.0	8.6	0.0	0.0	0.0	10.3	3.4	1.7	1.7	0.0	0.0	67.0
06/14/00	0.0	0.0	0.0	0.0	0.0	15.5	0.0	1.7	0.0	0.0	1.7	25.8	0.0	8.6	0.0	0.0	0.0	10.3	3.4	3.4	1.7	0.0	0.0	72.1
06/15/00	0.0	0.0	0.0	0.0	0.0	13.8	0.0	1.7	0.0	0.0	0.0	25.8	0.0	8.6	0.0	0.0	0.0	10.3	1.7	1.7	1.7	0.0	1.7	67.0
06/16/00	0.0	0.0	0.0	0.0	0.0	12.0	0.0	1.7	0.0	0.0	0.0	25.8	0.0	3.4	1.7	0.0	0.0	10.3	3.4	0.0	0.0	0.0	0.0	58.3
06/17/00	0.0	0.0	0.0	0.0	0.0	12.0	0.0	1.7	0.0	0.0	0.0	34.4	0.0	3.4	0.0	0.0	0.0	10.3	5.2	1.7	1.7	0.0	1.7	72.1
06/18/00	0.0	0.0	0.0	0.0	0.0	13.8	0.0	1.7	0.0	0.0	0.0	34.4	0.0	3.4	1.7	0.0	0.0	10.3	5.2	1.7	0.0	0.0	0.0	72.2
06/19/00	0.0	0.0	0.0	0.0	0.0	12.0	0.0	1.7	0.0	0.0	1.7	34.4	1.7	8.6	1.7	0.0	0.0	5.2	5.2	1.7	1.7	0.0	0.0	75.6
06/20/00	0.0	0.0	0.0	0.0	0.0	13.8	0.0	1.7	0.0	0.0	0.0	34.4	0.0	15.5	1.7	0.0	0.0	8.6	5.2	1.7	0.0	0.0	0.0	82.6
06/21/00	0.0	0.0	0.0	0.0	0.0	13.8	0.0	1.7	0.0	0.0	0.0	34.4	0.0	15.5	0.0	0.0	0.0	8.6	5.2	1.7	1.7	0.0	0.0	82.6
06/22/00	0.0	0.0	0.0	0.0	0.0	12.0	0.0	1.7	0.0	0.0	1.7	34.4	1.7	12.0	1.7	0.0	0.0	8.6	6.9	1.7	0.0	0.0	1.7	84.1
06/23/00	0.0	0.0	0.0	0.0	0.0	13.8	0.0	1.7	0.0	0.0	0.0	34.4	0.0	8.6	1.7	0.0	0.0	8.6	3.4	1.7	1.7	0.0	0.0	75.6
06/24/00	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	1.7	34.4	1.7	8.6	0.0	0.0	0.0	12.0	3.4	1.7	0.0	0.0	0.0	82.4
06/25/00	0.0	0.0	0.0	0.0	0.0	20.6	0.0	0.0	0.0	0.0	0.0	43.0	0.0	8.6	0.0	0.0	0.0	12.0	1.7	1.7	1.7	0.0	1.7	91.0
06/26/00	0.0	0.0	0.0	0.0	0.0	17.2	0.0	1.7	0.0	0.0	0.0	43.0	0.0	8.6	1.7	0.0	0.0	13.8	3.4	1.7	0.0	0.0	0.0	91.1
06/27/00	0.0	0.0	0.0	0.0	0.0	17.2	0.0	3.4	0.0	0.0	0.0	39.6	0.0	8.6	0.0	0.0	0.0	12.0	3.4	3.4	1.7	0.0	0.0	89.3
06/28/00	0.0	0.0	0.0	0.0	0.0	17.2	0.0	3.4	0.0	0.0	0.0	39.6	0.0	8.6	1.7	0.0	0.0	13.8	3.4	3.4	0.0	0.0	0.0	91.1
06/29/00	0.0	0.0	0.0	0.0	0.0	17.2	0.0	3.4	0.0	0.0	0.0	37.9	0.0	5.2	0.0	0.0	0.0	15.3	3.4	3.4	1.7	0.0	0.0	87.5
06/30/00	1.7	0.0	0.0	0.0	0.0	17.2	0.0	3.4	0.0	0.0	0.0	37.9	0.0	5.2	0.0	0.0	0.0	15.5	6.9	5.2	1.7	0.0	1.7	96.4
Well Total	10.2	0.0	3.4	0.0	0.0	395.5	0.0	45.9	0.0	0.0	27.2	1,015.0	5.1	211.6	30.6	0.0	5.1	328.0	171.9	92.5	27.2	0.0	13.6	2,382.8

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	April 19 2000		May 17 2000		June 13 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	0.08	1161.10	0.09	1161.10	0.04	1161.69
PW02	-----	1161.17	-----	1161.18	-----	1161.75
PW03	-----	1161.33	-----	1161.31	-----	1161.84
PW3S	0.36	1158.32	-----	-----	-----	-----
PW04	0.24	1155.26	0.63	1155.18	0.56	1156.04
PW05	0.34	1154.33	0.93	1154.00	0.50	1154.93
PW06	0.54	1160.27	-----	-----	-----	-----
PW07	-----	1155.97	0.38	1155.88	1.01	1157.28
PW08	0.36	1159.45	-----	-----	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1161.14	-----	1160.93	-----	1160.69
PW10	-----	1153.30	-----	1155.22	-----	1160.81
PW11	1.24	1154.10	0.77	1155.12	2.00	1153.95
PW12	-----	1160.67	-----	1160.56	-----	1161.10
PW13	0.68	1157.58	0.73	1157.00	0.52	1157.95
PW14	0.10	1159.68	-----	-----	-----	-----
PW15	0.10	1159.34	0.10	1159.59	0.08	1160.38
PW16	-----	1158.93	-----	1160.26	-----	1160.15
PW17	1.12	1154.64	0.18	1157.09	0.18	1157.56
PW18	0.40	1158.30	0.37	1158.65	0.63	1158.43
PW19	0.02	1158.41	0.08	1158.49	0.28	1158.31
PW20	0.28	1158.04	0.52	1158.14	1.94	1157.47
PW21	0.21	1158.32	0.57	1157.95	0.43	1158.13
PW22	-----	1160.02	-----	1160.22	-----	1160.74
PW23	0.45	1157.63	0.38	1157.81	0.48	1157.80
PW24	1.00	1156.78	0.93	1157.10	1.20	1157.48
PW25	0.15	1157.42	0.73	1157.19	0.23	1158.09
PW26	0.66	1156.26	0.48	1156.67	0.39	1157.22
PW27	0.59	1156.55	0.94	1156.60	0.76	1156.88
PW28	0.34	-----	0.56	-----	0.28	-----
PW29	0.23	-----	0.03	-----	0.20	-----
P01	0.32	1159.30	0.25	1159.54	0.23	1160.03
OW01	-----	1161.64	-----	-----	-----	-----
W01A	-----	1161.62	-----	-----	-----	-----
W01B	-----	1161.71	-----	-----	-----	-----
W02	0.53	1160.73	0.71	1160.46	0.51	1161.23
W03A	0.44	1159.22	0.66	1159.26	0.62	1160.05
W03B	-----	1160.65	-----	1160.73	-----	1161.13
W04A	0.60	1160.21	0.52	1160.37	0.26	1161.16
W04B	0.26	1160.48	-----	-----	-----	-----
W05	0.59	1159.06	0.33	1159.44	0.36	1159.92
W06R	0.34	1161.30	0.22	1161.37	0.14	1161.95
W07	0.18	1161.10	-----	-----	-----	-----
W08	-----	1168.08	-----	-----	-----	-----
W09	-----	1161.28	-----	-----	-----	-----
W10A	-----	1160.64	-----	-----	-----	-----
W10B	-----	1160.68	-----	-----	-----	-----
W11	-----	1160.61	-----	-----	-----	-----

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	April 19 2000		May 17 2000		June 13 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	1160.37	-----	-----	-----	-----
W13	-----	1160.78	-----	-----	-----	-----
W14	-----	1159.47	-----	-----	-----	-----
W16	-----	1161.06	-----	-----	-----	-----
W17	0.41	1159.35	-----	-----	-----	-----
W18	-----	1160.65	-----	-----	-----	-----
W19	-----	1162.70	-----	-----	-----	-----
W21	-----	1160.62	-----	-----	-----	-----
W22	0.18	1159.78	0.14	1160.03	0.16	1160.88
W23	-----	1160.62	-----	-----	-----	-----
W24A	-----	1160.59	-----	-----	-----	-----
W25	-----	1161.72	-----	-----	-----	-----
W26	-----	1160.61	-----	-----	-----	-----
W27	-----	1160.82	-----	-----	-----	-----
W28	-----	1160.72	-----	-----	-----	-----
W29	-----	1160.64	-----	-----	-----	-----
W30	0.63	1158.94	0.56	1159.17	0.43	1159.78
W31	-----	1160.65	-----	-----	-----	-----
W32	-----	1160.69	-----	-----	-----	-----
W33	0.12	1160.32	-----	-----	-----	-----
W34	0.22	1156.82	0.17	1157.01	0.18	1157.51
W35	0.51	1159.23	0.32	1159.45	0.38	1160.02
W36	-----	1160.33	-----	1160.39	-----	1161.03
W39	0.02	1160.57	-----	-----	-----	-----
W40	0.64	1149.72	-----	-----	-----	-----
W41	-----	1160.96	-----	-----	-----	-----
W42	0.29	1160.85	-----	-----	-----	-----
W44	0.47	1159.43	0.19	1159.70	0.35	1160.22
W45	-----	1159.89	0.02	1160.21	0.05	1161.16
W46	0.68	1158.82	0.58	1159.01	0.63	1159.47
W47	1.06	1154.59	1.17	1154.78	0.49	1155.88
W48	0.13	1155.58	0.05	1155.87	-----	1156.65
W49	0.38	1155.94	0.21	1156.34	0.12	1157.17
W66	-----	1161.59	-----	1161.51	-----	1162.03
W67	-----	1161.55	-----	1161.47	-----	1161.99
W68A	0.52	1161.17	-----	-----	-----	-----
W68B	-----	1161.56	-----	-----	-----	-----
W69	0.67	1159.73	0.59	1159.90	0.45	1160.60
W70B	-----	1161.28	-----	-----	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:
ft msl = feet mean sea level

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

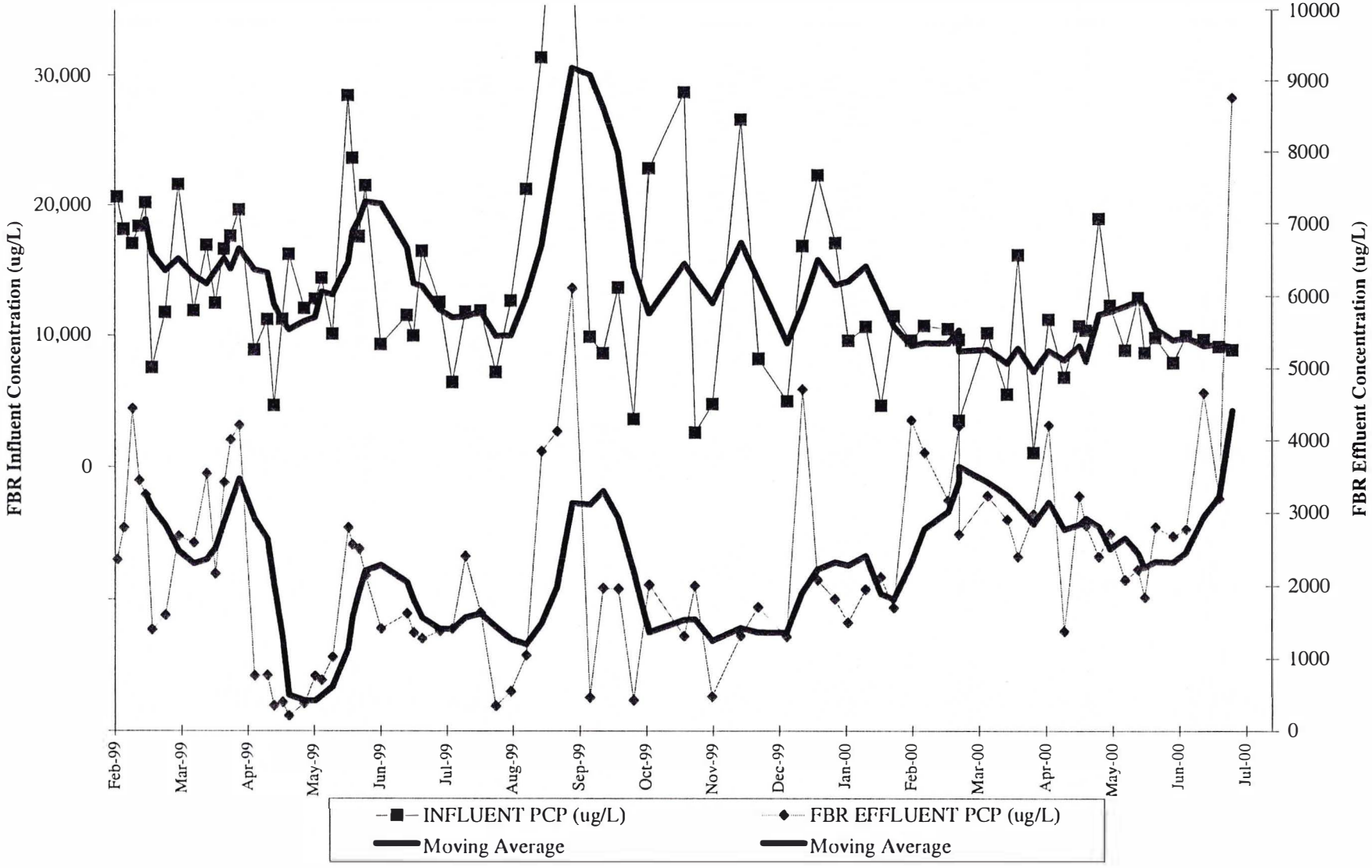
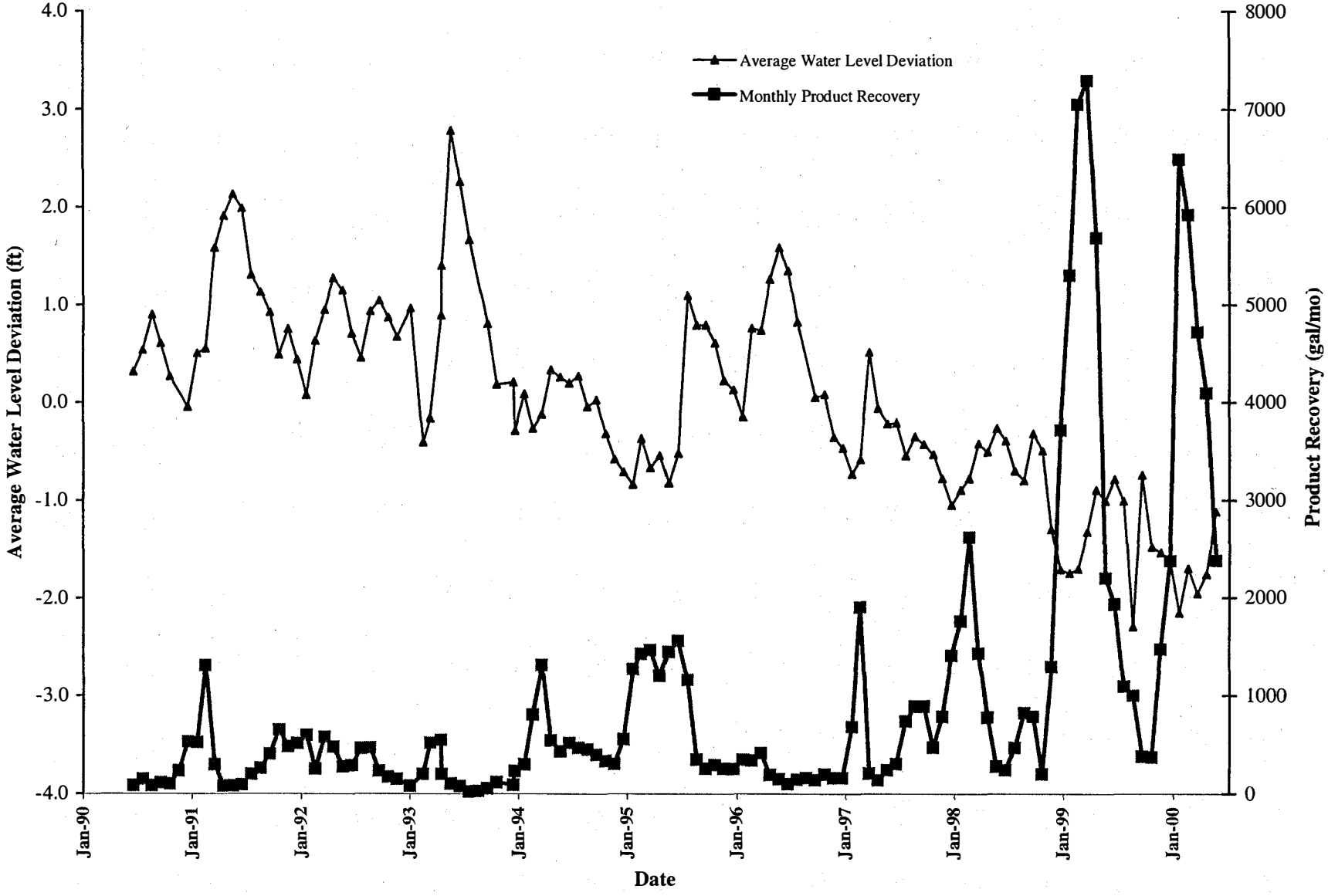


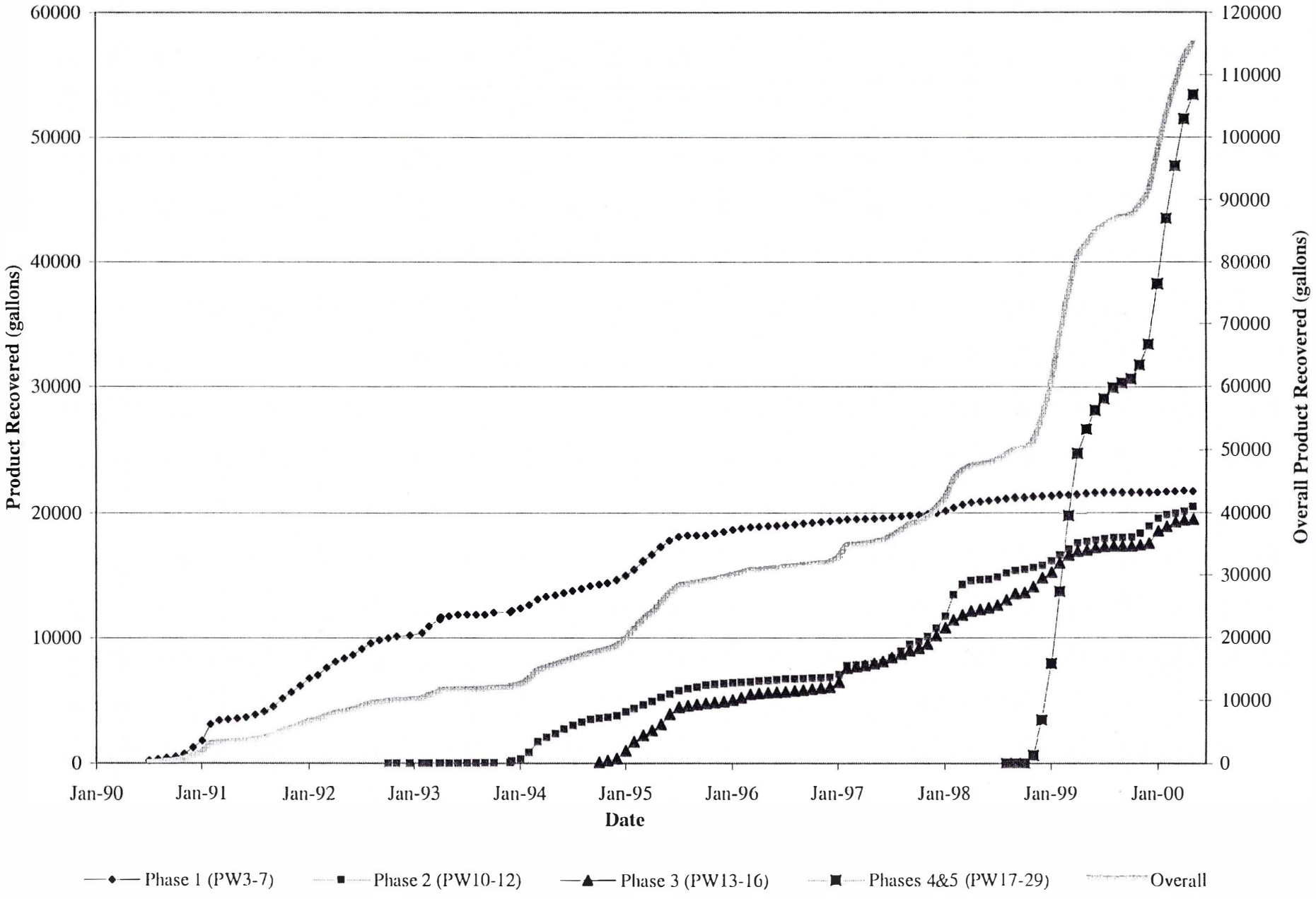
FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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7/20/00

FIGURE 3
Cumulative Product Recovery by Phase and Overall



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7/20/00

MONTGOMERY WATSON

June 26, 2000

RECEIVED
JUN 27 2000
WAUSAU DNR

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: May Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the May Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

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

Sincerely,

MONTGOMERY WATSON

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek – MW Wauleco (1)

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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
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WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
MAY 2000

SUMMARY OF MAY 2000 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 3 ug/L for the month of May, with a maximum single day concentration of 13 ug/L. The laboratory result for PCP in the system effluent was <3 ug/L on May 18, 2000. The on-site result for the same day was 2 ug/L. The laboratory result indicates that the effluent PCP concentrations were well below the monthly average permit level of 150 ug/L and the daily maximum concentration of 300 ug/L.

Following the increased PCP effluent levels observed in March and early April, carbon in the polishing filters was replaced on April 20 and May 25. This activity, combined with other operational refinements, greatly improved treatment and resulted in the low PCP effluent levels observed in May.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on May 18 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was <0.16 ug/L.

PCP influent concentrations ranged from 7,913 ug/L to 12,856 ug/L during May (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1, influent and effluent PCP concentrations declined slightly during May. The average PCP removal efficiency for the FBR during May was 76% compared to an average of 77% during the previous year.

Daily groundwater flow through the treatment system (Table 2) ranged from 46 to 50 gallons per minute (gpm) during May. The treatment system flowrate averaged 47 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site increased during May following a decrease in April, probably due to increased precipitation and subsequent infiltration. Product recovery decreased slightly to 4,094 gallons.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

Groundwater elevation and product thickness data for March, April, and May are summarized in Table 4. Semi-annual groundwater sampling is scheduled for June.

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TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Biological Oxygen Demand	mg/L	05/18/00	14	13				2	
Chemical Oxygen Demand	mg/L	05/18/00	41	36				<	
Chloride	mg/L	05/18/00	182	163				179	
Dissolved Oxygen	mg/L	05/02/00	6.7	3.2	3.9				
Dissolved Oxygen	mg/L	05/09/00	6.4	3.3	3.8				
Dissolved Oxygen	mg/L	05/18/00	6.7	5.5	3.6				
Dissolved Oxygen	mg/L	05/23/00	6.5	3	3.8				
Dissolved Oxygen	mg/L	05/31/00	6.6	3.3	4.1				
Nitrogen, Ammonia	mg/L	05/02/00	2	0.8	0.8				
Nitrogen, Ammonia	mg/L	05/09/00	2	0.4	0.4				
Nitrogen, Ammonia	mg/L	05/18/00	2.5	0.8	0.8				
Nitrogen, Ammonia	mg/L	05/23/00	3	1	1				
Nitrogen, Ammonia	mg/L	05/31/00	3	1	1				
Nitrogen, Nitrate	mg/L	05/02/00	<	<	<				
Nitrogen, Nitrate	mg/L	05/09/00	<	0.1	<				
Nitrogen, Nitrate	mg/L	05/18/00	<	<	0.6				
Nitrogen, Nitrate	mg/L	05/23/00	0.1	<	<				
Nitrogen, Nitrate	mg/L	05/31/00	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	05/18/00	0.55	1.01				0.38	
Nitrogen, Total Kjeldahl	mg/L	05/18/00	2.25	0.98				0.56	
Pentachlorophenol-Screen	ug/L	05/01/00						13	
Pentachlorophenol-Screen	ug/L	05/02/00	12285	2713	2292			8	
Pentachlorophenol-Screen	ug/L	05/03/00						10	
Pentachlorophenol-Screen	ug/L	05/04/00						5	
Pentachlorophenol-Screen	ug/L	05/05/00						4	
Pentachlorophenol-Screen	ug/L	05/06/00						1	
Pentachlorophenol-Screen	ug/L	05/07/00						1	
Pentachlorophenol-Screen	ug/L	05/08/00						1	
Pentachlorophenol-Screen	ug/L	05/09/00	8858	2081	2541			1	
Pentachlorophenol-Screen	ug/L	05/10/00						2	
Pentachlorophenol-Screen	ug/L	05/11/00						1	
Pentachlorophenol-Screen	ug/L	05/12/00						1	
Pentachlorophenol-Screen	ug/L	05/13/00						3	
Pentachlorophenol-Screen	ug/L	05/14/00						3	
Pentachlorophenol-Screen	ug/L	05/15/00	12856	2217	2727			3	
Pentachlorophenol-Screen	ug/L	05/16/00						3	
Pentachlorophenol-Screen	ug/L	05/17/00						3	
Pentachlorophenol-Screen	ug/L	05/18/00	8660	1841	1811			2	

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Pentachlorophenol-Screen	ug/L	05/19/00						1	
Pentachlorophenol-Screen	ug/L	05/20/00						1	
Pentachlorophenol-Screen	ug/L	05/21/00						1	
Pentachlorophenol-Screen	ug/L	05/22/00						1	
Pentachlorophenol-Screen	ug/L	05/23/00	9833	2799	2146			2	
Pentachlorophenol-Screen	ug/L	05/24/00						2	
Pentachlorophenol-Screen	ug/L	05/25/00						2	
Pentachlorophenol-Screen	ug/L	05/26/00						2	
Pentachlorophenol-Screen	ug/L	05/27/00						2	
Pentachlorophenol-Screen	ug/L	05/28/00						2	
Pentachlorophenol-Screen	ug/L	05/29/00						2	
Pentachlorophenol-Screen	ug/L	05/30/00						2	
Pentachlorophenol-Screen	ug/L	05/31/00	7913	2672	1855			2	
pH	S.U.	05/02/00	6.2	6.3	6.4				
pH	S.U.	05/09/00	6.3	6.3	6.4				
pH	S.U.	05/18/00	6.3	6.3	6.4				
pH	S.U.	05/23/00	6.3	6.3	6.4				
pH	S.U.	05/31/00	6.4	6.4	6.5				
Phosphorus, Ortho	mg/L	05/18/00	0.76	0.6				0.62	
Phosphorus, Phosphate	mg/L	05/02/00	2	2	2				
Phosphorus, Phosphate	mg/L	05/09/00	2	1.5	1.5				
Phosphorus, Phosphate	mg/L	05/18/00	2	2	2				
Phosphorus, Phosphate	mg/L	05/23/00	3	3	3				
Phosphorus, Phosphate	mg/L	05/31/00	2	2	2				
Solids, Total Suspended	mg/L	05/18/00	7	9		4	<	<	
Mercury	ug/L	05/18/00	0.43	0.28				<	
Phenols									
2,3,4,6-Tetrachlorophenol	ug/L	05/18/00	1100	350	190	310	<	<	<
2,4,5-Trichlorophenol	ug/L	05/18/00	<	<	<	<	<	<	<
2,4,6-Trichlorophenol	ug/L	05/18/00	<	<	<	<	<	<	<
2,4-Dichlorophenol	ug/L	05/18/00	<	<	<	<	<	<	<
2,4-Dimethylphenol	ug/L	05/18/00	<	<	<	<	<	<	<
2,4-Dinitrophenol	ug/L	05/18/00	1200	470	230	470	4.8	5	5.1
2,6-Dichlorophenol	ug/L	05/18/00	<	<	<	<	<	3.2	3.2
2-Chlorophenol	ug/L	05/18/00	<	<	<	<	<	<	<
2-Methylphenol	ug/L	05/18/00	<	<	<	<	<	<	<
2-Nitrophenol	ug/L	05/18/00	<	<	<	<	<	<	<
3&4-Methylphenol	ug/L	05/18/00	1100	410	210	410	4.3	<	4.2
4,6-Dinitro-2-Methylphenol	ug/L	05/18/00	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	ug/L	05/18/00	<	<	<	<	<	<	<

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
4-Nitrophenol	ug/L	05/18/00	<	<	<	<	<	<	<
Pentachlorophenol	ug/L	05/18/00	11000	3300	2100	2200	13	<	<
Phenol	ug/L	05/18/00	<	<	<	<	<	<	<

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate [1] (gpm)	POTW Discharge Flow Rate [1] (gpm)	POTW Totalized Discharge (gal)
05/01/00	47.28	40.55	27,301,278
05/02/00	47.15	40.07	27,358,985
05/03/00	47.10	40.52	27,417,336
05/04/00	46.99	40.00	27,474,932
05/05/00	46.96	40.27	27,532,925
05/06/00	47.29	40.76	27,591,613
05/07/00	47.48	40.67	27,650,175
05/08/00	47.26	40.45	27,708,417
05/09/00	47.48	40.47	27,766,691
05/10/00	47.28	40.14	27,824,486
05/11/00	47.98	40.95	27,883,450
05/12/00	46.22	39.00	27,939,610
05/13/00	50.46	39.00	27,995,770
05/14/00	45.85	39.00	28,051,930
05/15/00	45.71	39.38	28,108,639
05/16/00	46.58	39.05	28,164,876
05/17/00	46.26	39.05	28,221,110
05/18/00	46.23	39.05	28,277,337
05/19/00	46.49	38.86	28,333,290
05/20/00	46.49	40.17	28,391,136
05/21/00	46.44	39.37	28,447,822
05/22/00	46.24	39.46	28,504,648
05/23/00	46.54	39.78	28,561,938
05/24/00	46.29	39.82	28,619,281
05/25/00	46.23	39.81	28,676,607
05/26/00	46.64	39.72	28,733,798
05/27/00	47.18	40.58	28,792,237
05/28/00	46.79	40.01	28,849,845
05/29/00	46.68	40.21	28,907,746
05/30/00	47.51	39.78	28,965,033
05/31/00	45.55	38.94	29,021,101
Average	46.86	39.83	
Total [2]:			1,778,209

Footnotes:

(1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.

(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
05/01/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	13.8	0.0	0.0	3.4	68.8	0.0	17.2	0.0	0.0	0.0	12.0	8.6	8.6	1.7	0.0	0.0	137.5
05/02/00	1.7	0.0	0.0	0.0	0.0	5.2	0.0	5.2	0.0	0.0	3.4	68.8	0.0	17.2	0.0	0.0	0.0	12.0	8.6	8.6	1.7	0.0	0.0	132.4
05/03/00	0.0	0.0	0.0	0.0	0.0	6.9	0.0	5.2	0.0	0.0	3.4	68.8	0.0	17.2	3.4	0.0	1.7	17.2	25.8	12.0	1.7	0.0	0.0	163.3
05/04/00	0.0	0.0	0.0	0.0	0.0	6.9	0.0	5.2	0.0	0.0	1.7	68.8	0.0	12.0	1.7	0.0	0.0	17.2	25.8	13.8	1.7	0.0	0.0	154.8
05/05/00	0.0	0.0	0.0	0.0	0.0	6.9	0.0	5.2	0.0	0.0	5.2	68.8	0.0	10.3	1.7	0.0	0.0	17.2	25.8	13.8	1.7	0.0	0.0	156.6
05/06/00	0.0	0.0	0.0	0.0	0.0	6.9	0.0	3.4	0.0	0.0	1.7	68.8	0.0	10.3	1.7	0.0	1.7	17.2	25.8	12.0	1.7	0.0	0.0	151.2
05/07/00	0.0	0.0	0.0	0.0	0.0	6.9	0.0	3.4	0.0	0.0	3.4	60.2	0.0	10.3	1.7	0.0	0.0	17.2	25.8	13.8	1.7	0.0	0.0	144.4
05/08/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	6.9	0.0	0.0	1.7	60.2	0.0	8.6	10.3	0.0	0.0	17.2	25.8	12.0	1.7	0.0	0.0	147.8
05/09/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	5.2	0.0	0.0	1.7	60.2	0.0	10.3	3.4	0.0	0.0	13.8	25.8	13.8	0.0	0.0	0.0	135.9
05/10/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	6.9	0.0	0.0	1.7	60.2	0.0	10.3	3.4	0.0	1.7	13.8	25.8	12.0	1.7	0.0	0.0	140.9
05/11/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	5.2	0.0	0.0	1.7	60.2	0.0	10.3	3.4	0.0	0.0	12.0	25.8	13.8	0.0	0.0	0.0	135.8
05/12/00	0.0	0.0	0.0	0.0	0.0	6.9	0.0	5.2	0.0	0.0	3.4	60.2	0.0	10.3	3.4	0.0	0.0	12.0	25.8	12.0	1.7	0.0	0.0	140.9
05/13/00	0.0	0.0	0.0	0.0	0.0	6.9	0.0	3.4	0.0	0.0	3.4	60.2	0.0	10.3	3.4	0.0	1.7	17.2	28.5	13.8	0.0	0.0	0.0	148.8
05/14/00	1.7	0.0	0.0	0.0	0.0	6.9	0.0	3.4	0.0	0.0	1.7	60.2	0.0	13.8	5.2	0.0	0.0	17.2	25.8	12.0	1.7	0.0	0.0	149.6
05/15/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	5.2	0.0	0.0	3.4	60.2	0.0	12.0	5.2	0.0	1.7	15.5	25.8	17.2	3.4	0.0	0.0	154.8
05/16/00	1.7	0.0	0.0	0.0	0.0	5.2	0.0	5.2	0.0	0.0	3.4	60.2	0.0	13.8	5.2	0.0	1.7	17.2	25.8	17.2	1.7	0.0	0.0	158.3
05/17/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	5.2	0.0	0.0	3.4	60.2	0.0	12.0	3.4	0.0	0.0	17.2	25.8	17.2	3.4	0.0	0.0	153.0
05/18/00	1.7	0.0	0.0	0.0	0.0	5.2	0.0	5.2	0.0	0.0	3.4	60.2	0.0	13.8	3.4	0.0	1.7	17.2	25.8	15.3	3.4	0.0	0.0	156.3
05/19/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	5.2	0.0	0.0	3.4	60.2	0.0	12.0	3.4	0.0	0.0	13.8	17.2	13.8	3.4	0.0	0.0	135.8
05/20/00	1.7	0.0	0.0	0.0	0.0	3.4	0.0	6.9	0.0	0.0	3.4	51.6	0.0	13.8	3.4	0.0	1.7	12.0	17.2	12.0	1.7	0.0	0.0	128.8
05/21/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	6.9	0.0	0.0	3.4	51.6	0.0	12.0	3.4	0.0	0.0	12.0	17.2	10.3	3.4	0.0	0.0	123.6
05/22/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	5.2	0.0	0.0	1.7	51.6	0.0	8.6	1.7	0.0	1.7	13.8	17.2	13.8	1.7	0.0	0.0	120.4
05/23/00	1.7	0.0	0.0	0.0	0.0	5.2	0.0	6.9	0.0	0.0	1.7	51.6	0.0	8.6	1.7	0.0	0.0	13.8	12.0	12.0	1.7	0.0	0.0	116.9
05/24/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	6.9	0.0	0.0	3.4	51.6	0.0	5.2	1.7	0.0	0.0	12.0	12.0	13.8	0.0	0.0	0.0	111.8
05/25/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	3.4	0.0	0.0	1.7	51.6	0.0	3.4	3.4	0.0	1.7	12.0	10.3	12.0	1.7	0.0	0.0	106.4
05/26/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	3.4	0.0	0.0	3.4	51.6	0.0	5.2	1.7	0.0	0.0	13.8	12.0	12.0	0.0	0.0	0.0	108.3
05/27/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	3.4	43.0	0.0	5.2	0.0	0.0	1.7	13.8	13.8	13.8	0.0	0.0	0.0	99.9
05/28/00	1.7	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	1.7	34.4	0.0	5.2	1.7	0.0	0.0	12.0	12.0	12.0	0.0	0.0	0.0	85.9
05/29/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	1.7	0.0	0.0	1.7	34.4	0.0	5.2	1.7	0.0	0.0	12.0	13.8	13.8	1.7	0.0	0.0	91.2
05/30/00	0.0	0.0	1.7	0.0	0.0	6.9	0.0	1.7	0.0	0.0	3.4	34.4	0.0	5.2	1.7	0.0	0.0	13.8	22.1	13.8	1.7	0.0	0.0	106.4
05/31/00	0.0	0.0	1.7	0.0	0.0	5.2	0.0	1.7	0.0	0.0	3.4	34.4	0.0	5.2	1.7	0.0	0.0	12.0	17.2	12.0	1.7	0.0	0.0	96.2
Well Total	11.9	0.0	3.4	0.0	0.0	158.6	0.0	148.3	0.0	0.0	86.8	1737.2	0.0	314.8	87.1	0.0	18.7	447.1	626.7	404.0	49.3	0.0	0.0	4093.9

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	March 16 2000		April 19 2000		May 17 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	0.08	1161.23	0.08	1161.10	0.09	1161.10
PW02	-----	1161.30	-----	1161.17	-----	1161.18
PW03	-----	1161.61	-----	1161.33	-----	1161.31
PW3S	-----	-----	0.36	1158.32	-----	-----
PW04	0.84	1155.47	0.24	1155.26	0.63	1155.18
PW05	0.23	1153.98	0.34	1154.33	0.93	1154.00
PW06	-----	-----	0.54	1160.27	-----	-----
PW07	0.20	1155.65	-----	1155.97	0.38	1155.88
PW08	-----	-----	0.36	1159.45	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1160.02	-----	1161.14	-----	1160.93
PW10	0.03	1153.30	-----	1153.30	-----	1155.22
PW11	0.78	1154.69	1.24	1154.10	0.77	1155.12
PW12	-----	1160.66	-----	1160.67	-----	1160.56
PW13	0.85	1158.46	0.68	1157.58	0.73	1157.00
PW14	-----	-----	0.10	1159.68	-----	-----
PW15	0.07	1159.60	0.10	1159.34	0.10	1159.59
PW16	-----	1158.16	-----	1158.93	-----	1160.26
PW17	1.12	1155.79	1.12	1154.64	0.18	1157.09
PW18	0.18	1158.61	0.40	1158.30	0.37	1158.65
PW19	0.03	1158.74	0.02	1158.41	0.08	1158.49
PW20	1.04	1157.58	0.28	1158.04	0.52	1158.14
PW21	0.08	1158.71	0.21	1158.32	0.57	1157.95
PW22	-----	1160.17	-----	1160.02	-----	1160.22
PW23	0.43	1157.72	0.45	1157.63	0.38	1157.81
PW24	0.73	1157.44	1.00	1156.78	0.93	1157.10
PW25	0.55	1157.40	0.15	1157.42	0.73	1157.19
PW26	0.71	1156.49	0.66	1156.26	0.48	1156.67
PW27	0.34	1157.42	0.59	1156.55	0.94	1156.60
PW28	0.38	-----	0.34	-----	0.56	-----
PW29	0.39	-----	0.23	-----	0.03	-----
P01	0.30	1159.48	0.32	1159.30	0.25	1159.54
OW01	-----	-----	-----	1161.64	-----	-----
W01A	-----	-----	-----	1161.62	-----	-----
W01B	-----	-----	-----	1161.71	-----	-----
W02	0.48	1160.94	0.53	1160.73	0.71	1160.46
W03A	0.40	1159.47	0.44	1159.22	0.66	1159.26
W03B	-----	1160.76	-----	1160.65	-----	1160.73
W04A	0.37	1160.57	0.60	1160.21	0.52	1160.37
W04B	-----	-----	0.26	1160.48	-----	-----
W05	-----	-----	0.59	1159.06	0.33	1159.44
W06R	-----	1161.60	0.34	1161.30	0.22	1161.37
W07	-----	-----	0.18	1161.10	-----	-----
W08	-----	-----	-----	1168.08	-----	-----
W09	-----	-----	-----	1161.28	-----	-----
W10A	-----	-----	-----	1160.64	-----	-----
W10B	-----	-----	-----	1160.68	-----	-----
W11	-----	-----	-----	1160.61	-----	-----

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	March 16 2000		April 19 2000		May 17 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	-----	-----	1160.37	-----	-----
W13	-----	-----	-----	1160.78	-----	-----
W14	-----	-----	-----	1159.47	-----	-----
W16	-----	-----	-----	1161.06	-----	-----
W17	-----	-----	0.41	1159.35	-----	-----
W18	-----	-----	-----	1160.65	-----	-----
W19	-----	-----	-----	1162.70	-----	-----
W21	-----	-----	-----	1160.62	-----	-----
W22	0.13	1159.07	0.18	1159.78	0.14	1160.03
W23	-----	-----	-----	1160.62	-----	-----
W24A	-----	-----	-----	1160.59	-----	-----
W25	-----	-----	-----	1161.72	-----	-----
W26	-----	-----	-----	1160.61	-----	-----
W27	-----	-----	-----	1160.82	-----	-----
W28	-----	-----	-----	1160.72	-----	-----
W29	-----	-----	-----	1160.64	-----	-----
W30	0.67	1159.08	0.63	1158.94	0.56	1159.17
W31	-----	-----	-----	1160.65	-----	-----
W32	-----	-----	-----	1160.69	-----	-----
W33	-----	-----	0.12	1160.32	-----	-----
W34	0.13	1157.04	0.22	1156.82	0.17	1157.01
W35	0.53	1159.30	0.51	1159.23	0.32	1159.45
W36	-----	1160.42	-----	1160.33	-----	1160.39
W39	-----	-----	0.02	1160.57	-----	-----
W40	-----	-----	0.64	1149.72	-----	-----
W41	-----	-----	-----	1160.96	-----	-----
W42	-----	-----	0.29	1160.85	-----	-----
W44	0.33	1159.71	0.47	1159.43	0.19	1159.70
W45	0.06	1160.17	-----	1159.89	0.02	1160.21
W46	0.50	1159.04	0.68	1158.82	0.58	1159.01
W47	1.58	1154.38	1.06	1154.59	1.17	1154.78
W48	0.08	1155.81	0.13	1155.58	0.05	1155.87
W49	0.20	1156.33	0.38	1155.94	0.21	1156.34
W66	-----	1161.75	-----	1161.59	-----	1161.51
W67	-----	1161.70	-----	1161.55	-----	1161.47
W68A	-----	-----	0.52	1161.17	-----	-----
W68B	-----	-----	-----	1161.56	-----	-----
W69	0.88	1159.69	0.67	1159.73	0.59	1159.90
W70B	-----	-----	-----	1161.28	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:
ft msl = feet mean sea level

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

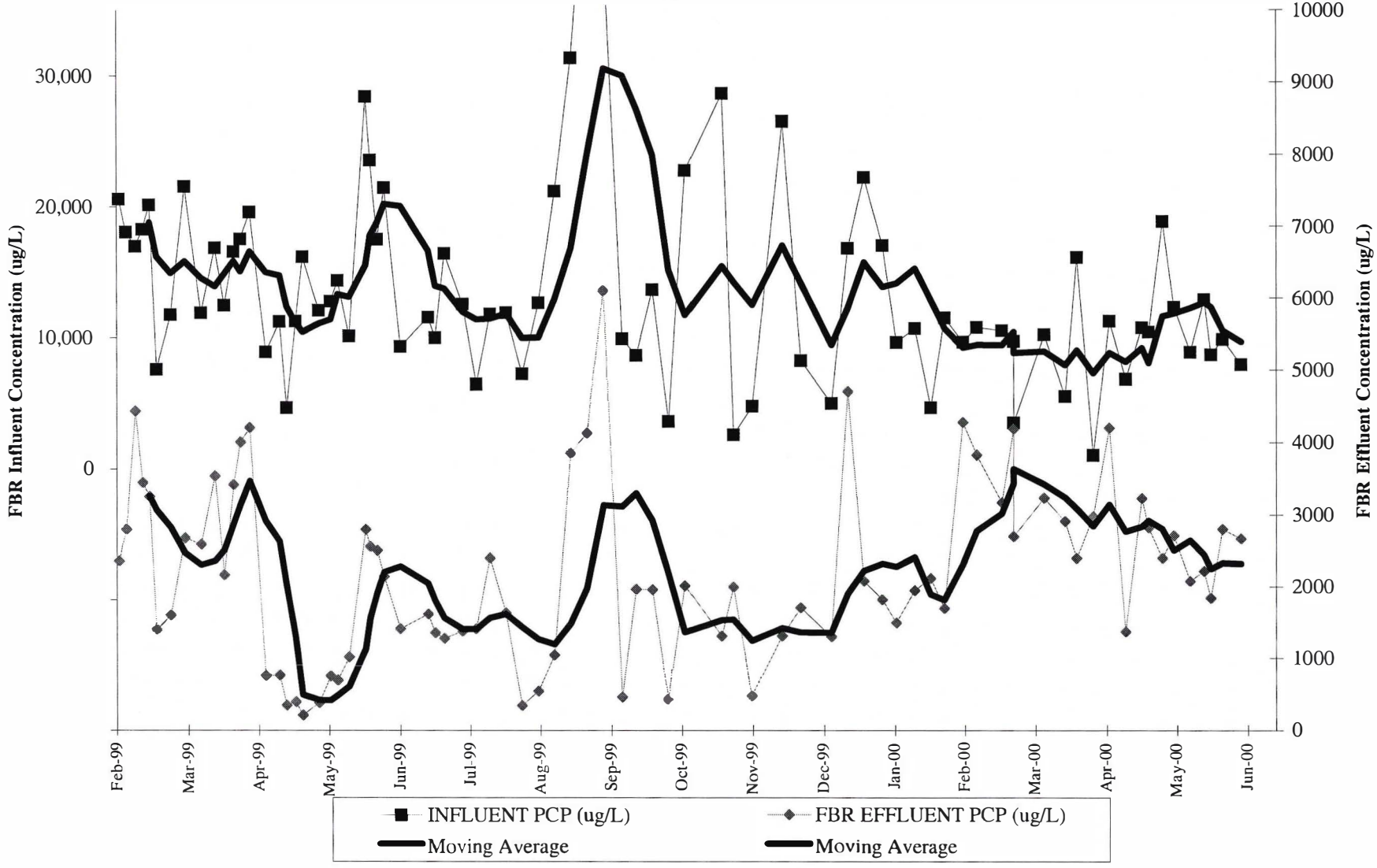
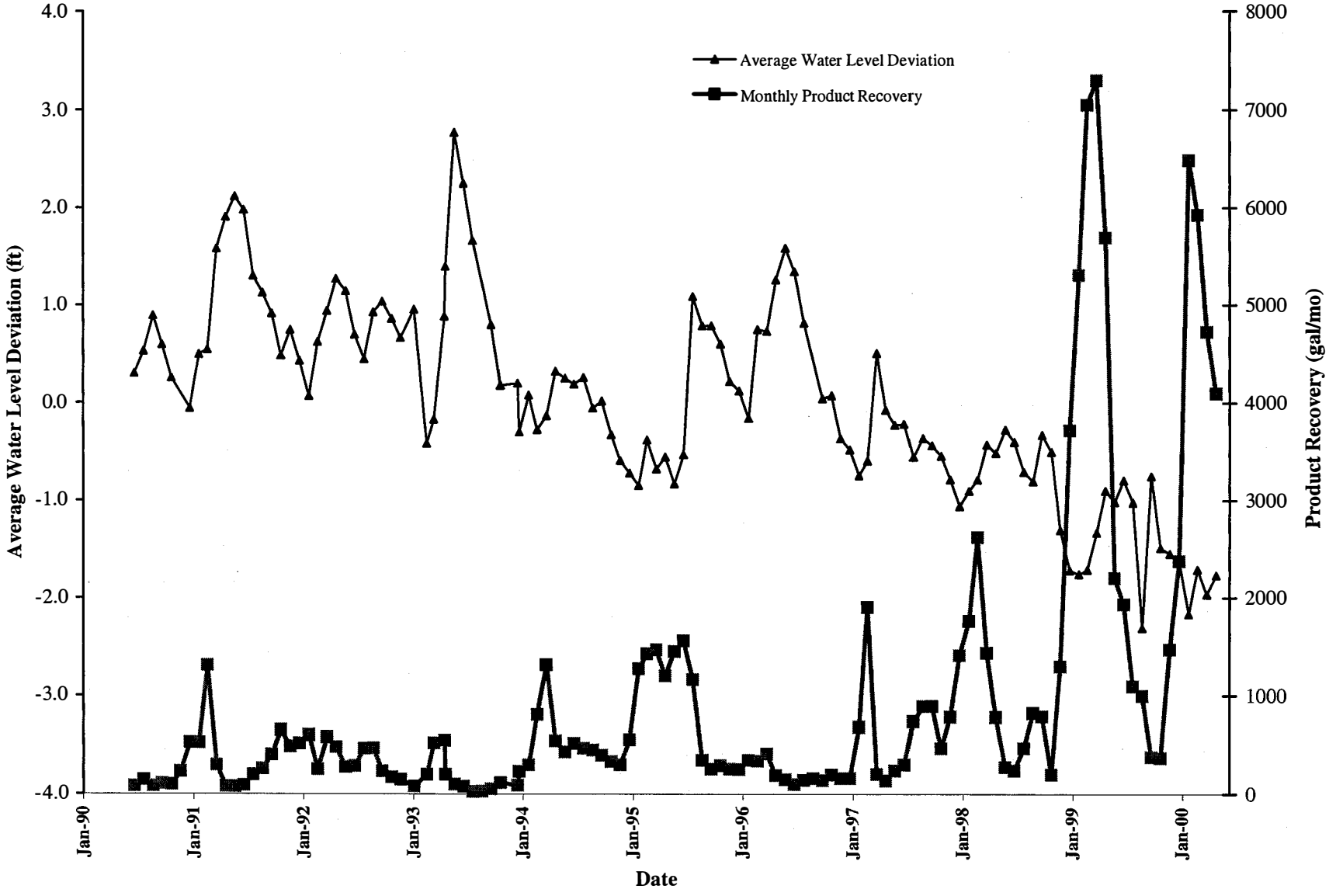


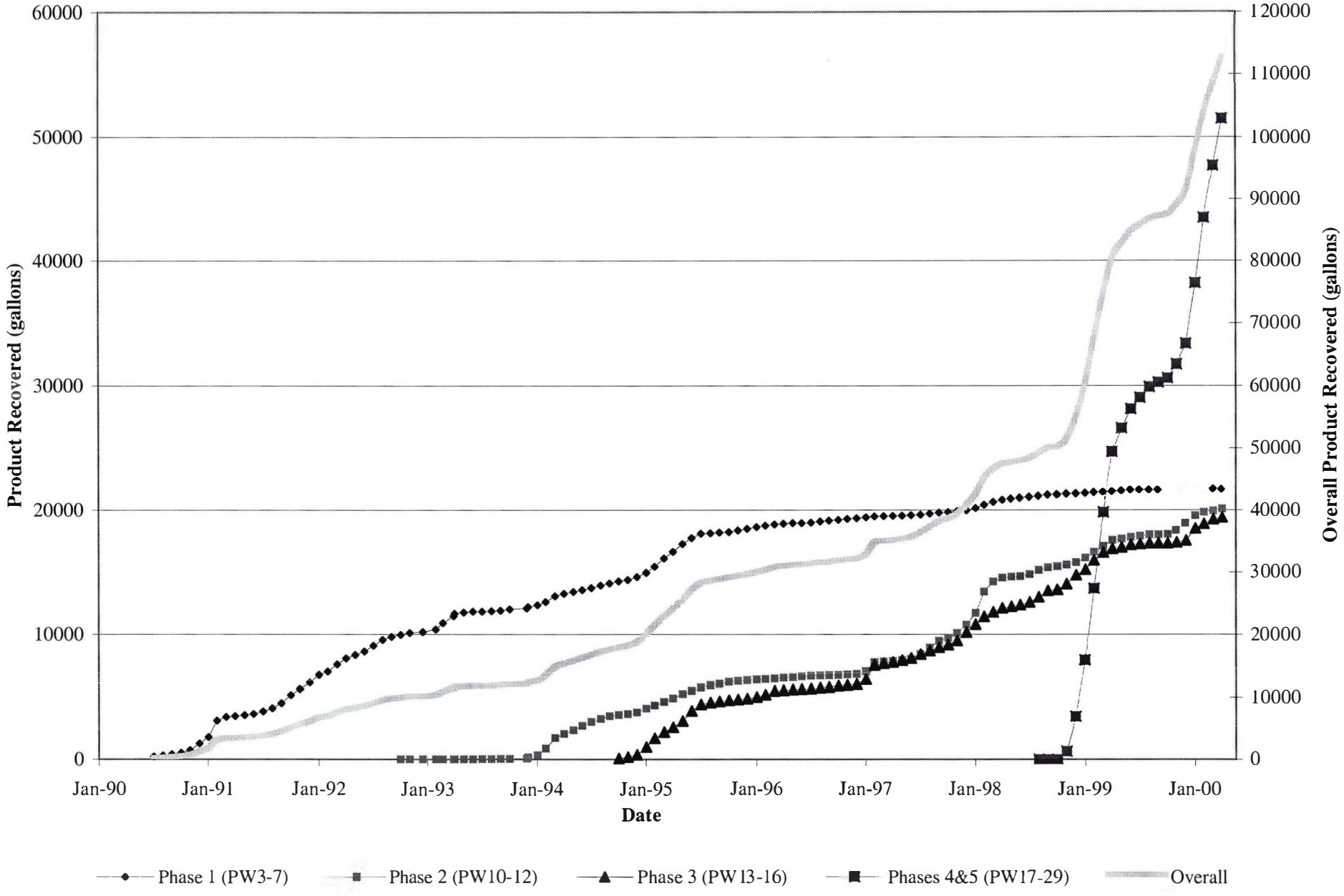
FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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6/15/00

FIGURE 3
Cumulative Product Recovery by Phase and Overall



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6/15/00

MONTGOMERY WATSON

May 31, 2000

RECEIVED
JUN 0 1 2000
WAUSAU DNR

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: April Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the April Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

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

Sincerely,

MONTGOMERY WATSON

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek – MW Wauleco (1)

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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
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WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
APRIL 2000

SUMMARY OF APRIL 2000 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 74 ug/L for the month of April, with a maximum single day concentration of 139 ug/L. The laboratory result for PCP in the system effluent was 220 ug/L on April 21, 2000. The on-site result for the same day was 139 ug/L. The laboratory result indicates that the effluent PCP concentration exceeded the monthly average permit level of 150 ug/L, but was below the daily maximum concentration of 300 ug/L.

As a result of the increased PCP effluent levels observed in March and April, carbon in the polishing filters was replaced on April 20 and April 25. Additional system samples were collected on April 27 to verify that the new carbon in the polishing filters was reducing PCP effluent concentrations. This result for PCP in the system effluent was 8.4 ug/L, with influent concentrations similar to those observed on April 21. The on-site effluent result for April 27 was 4 ug/L.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on April 21 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was <0.16 ug/L.

PCP influent concentrations ranged from 6,824 ug/L to 18,846 ug/L during April (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1, influent and effluent PCP concentrations stabilized during April. The average PCP removal efficiency for the FBR during April was 57% compared to an average of 77% during the previous year. In an effort to increase treatment efficiency, the recirculation rate of the FBR was increased temporarily several times during April. The increased recirculation rate is designed to flush out dead biomass and minimize regions of clogging within the reactor

Daily groundwater flow through the treatment system (Table 2) ranged from 47 to 53 gallons per minute (gpm) during April. The treatment system flowrate averaged 49 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site decreased during April following an increase in March, and product recovery decreased slightly to 4,720 gallons.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis.

Groundwater Monitoring

Groundwater elevation and product thickness data for February, March, and April are summarized in Table 4.

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TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Biological Oxygen Demand	mg/L	4/21/00	17	11				4	
Chemical Oxygen Demand	mg/L	4/21/00	50	92				29	
Chloride	mg/L	4/21/00	175	183				173	
Dissolved Oxygen	mg/L	4/4/00	7.4	3.4	3.8				
	mg/L	4/11/00	7	3.5	4.7				
	mg/L	4/18/00	5.7	2.5	3.2				
	mg/L	4/28/00	6.4	3.1	4				
Nitrogen, Ammonia	mg/L	4/4/00	4	1	1				
	mg/L	4/11/00	2	1	1				
	mg/L	4/18/00	2	1	1				
	mg/L	4/28/00	2.5	1	1				
Nitrogen, Nitrate	mg/L	4/4/00	0.2	<	<				
	mg/L	4/11/00	0.1	<	<				
	mg/L	4/18/00	0.1	<	<				
	mg/L	4/28/00	<	0.8	<				
Nitrogen, Nitrate + Nitrite	mg/L	4/21/00	0.782	1.11				0.156	
Nitrogen, Total Kjeldahl	mg/L	4/21/00	1.89	1.19				1.14	
Pentachlorophenol-Screen	ug/L	4/1/00						94	
	ug/L	4/2/00						94	
	ug/L	4/3/00						94	
	ug/L	4/4/00	11210	4205	3603			97	
	ug/L	4/5/00						125	
	ug/L	4/6/00						128	
	ug/L	4/7/00						139	
	ug/L	4/8/00						129	
	ug/L	4/9/00						129	
	ug/L	4/10/00						129	
	ug/L	4/11/00	6824	1372	1865			91	
	ug/L	4/12/00						104	
	ug/L	4/13/00						29	
	ug/L	4/14/00						45	
	ug/L	4/15/00						68	
	ug/L	4/16/00						68	
	ug/L	4/17/00						68	
	ug/L	4/18/00	10717	3233	2579			72	
	ug/L	4/19/00						66	
	ug/L	4/20/00						62	
	ug/L	4/21/00	10386	2823	2749			139	

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Pentachlorophenol-Screen	ug/L	4/22/00						51	
	ug/L	4/23/00						51	
	ug/L	4/24/00						51	
	ug/L	4/25/00						51	
	ug/L	4/26/00						13	
	ug/L	4/27/00	18846	2397	1983			4	
	ug/L	4/28/00						4	
	ug/L	4/29/00						11	
	ug/L	4/30/00						11	
pH	S.U.	4/4/00	6.3	6.4	6.5				
	S.U.	4/11/00	6.25	6.2	6.4				
	S.U.	4/18/00	6.2	6.2	6.4				
	S.U.	4/28/00	6.4	6.4	6.5				
Phosphorus, Ortho	mg/L	4/21/00	0.89	0.72				0.73	
Phosphorus, Phosphate	mg/L	4/4/00	2	2	2				
	mg/L	4/11/00	2	2	2				
	mg/L	4/18/00	2	2	2				
	mg/L	4/28/00	3	2	2				
Solids, Total Suspended	mg/L	4/21/00	8	28		18	<	5	
Mercury	ug/L	4/21/00	<	<				<	
Phenols									
2,3,4,6-Tetrachlorophenol	ug/L	4/21/00	<	200	220	330	160	<	13
2,4,5-Trichlorophenol	ug/L	4/21/00	<	<	<	<	<	<	<
2,4,6-Trichlorophenol	ug/L	4/21/00	<	<	<	<	<	<	<
2,4-Dichlorophenol	ug/L	4/21/00	<	<	<	<	<	<	<
2,4-Dimethylphenol	ug/L	4/21/00	<	<	<	<	<	<	<
2,4-Dinitrophenol	ug/L	4/21/00	<	<	<	<	<	5.5	6.3
2,6-Dichlorophenol	ug/L	4/21/00	<	<	<	<	<	<	3.1
2-Chlorophenol	ug/L	4/21/00	<	<	<	<	<	<	<
2-Methylphenol	ug/L	4/21/00	<	<	<	<	<	<	<
2-Nitrophenol	ug/L	4/21/00	<	<	<	<	<	<	<
3&4-Methylphenol	ug/L	4/21/00	230	210	220	440	220	4.7	5
4,6-Dinitro-2-Methylphenol	ug/L	4/21/00	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	ug/L	4/21/00	<	<	<	<	<	<	<
4-Nitrophenol	ug/L	4/21/00	2200	<	<	<	<	51	4.5
Pentachlorophenol	ug/L	4/21/00	9100	2400	2500	2400	1100	220	320
Phenol	ug/L	4/21/00	440	<	<	<	<	<	<

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate [1] (gpm)	POTW Discharge Flow Rate [1] (gpm)	POTW Totalized Discharge (gal)
4/1/00	49.28	43.36	25,486,395
4/2/00	47.51	41.76	25,546,524
4/3/00	50.20	42.78	25,608,122
4/4/00	48.34	42.66	25,669,551
4/5/00	47.53	42.01	25,730,043
4/6/00	48.84	42.83	25,791,722
4/7/00	49.03	42.86	25,853,442
4/8/00	48.88	42.81	25,915,083
4/9/00	48.97	42.65	25,976,497
4/10/00	48.83	42.55	26,037,774
4/11/00	48.87	40.93	26,096,718
4/12/00	53.30	43.89	26,159,914
4/13/00	48.55	42.13	26,220,574
4/14/00	47.88	41.57	26,280,437
4/15/00	47.51	41.18	26,339,741
4/16/00	47.30	41.10	26,398,922
4/17/00	46.89	40.80	26,457,670
4/18/00	48.31	42.54	26,518,932
4/19/00	48.27	42.43	26,580,024
4/20/00	48.21	41.58	26,639,904
4/21/00	48.29	41.57	26,699,759
4/22/00	47.93	42.55	26,761,035
4/23/00	48.76	43.17	26,823,200
4/24/00	50.03	43.96	26,886,500
4/25/00	48.40	41.89	26,946,823
4/26/00	48.52	42.56	27,008,113
4/27/00	48.34	41.17	27,067,392
4/28/00	47.45	40.64	27,125,919
4/29/00	47.15	40.44	27,184,150
4/30/00	47.54	40.79	27,242,892
Average	48.50	42.11	
Total [2]:			1,818,941

Footnotes:

(1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.

(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
04/01/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	8.6	0.0	0.0	12.0	51.6	0.0	13.8	3.4	0.0	0.0	20.4	34.4	5.2	3.4	0.0	1.7	156.2
04/02/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	8.6	0.0	0.0	3.4	51.6	0.0	18.9	3.4	0.0	1.7	20.4	34.4	8.6	3.4	0.0	0.0	157.8
04/03/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	6.9	0.0	0.0	1.7	51.6	0.0	18.9	1.7	0.0	0.0	15.5	37.8	10.3	3.4	0.0	1.7	152.9
04/04/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	5.2	0.0	0.0	1.7	51.6	0.0	12.0	3.4	0.0	0.0	15.5	39.5	8.6	3.4	0.0	0.0	146.1
04/05/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	6.9	0.0	0.0	3.4	51.6	0.0	12.0	1.7	0.0	0.0	23.8	39.5	8.6	3.4	0.0	1.7	156.0
04/06/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	5.2	0.0	0.0	1.7	51.6	0.0	13.8	3.4	0.0	0.0	27.5	37.8	8.6	3.4	0.0	0.0	158.2
04/07/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	8.6	0.0	0.0	3.4	51.6	0.0	6.9	5.2	0.0	0.0	17.2	34.4	13.8	1.7	0.0	0.0	148.0
04/08/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	8.6	0.0	0.0	3.4	51.6	0.0	6.9	3.4	0.0	0.0	17.2	34.4	12.0	0.0	0.0	0.0	142.7
04/09/00	1.7	0.0	0.0	0.0	0.0	5.2	0.0	8.6	0.0	0.0	3.4	51.6	0.0	10.3	5.2	0.0	0.0	17.2	34.4	10.3	1.7	0.0	0.0	149.6
04/10/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	8.6	0.0	0.0	3.4	51.6	0.0	10.3	3.4	0.0	0.0	17.2	34.4	10.3	3.4	0.0	0.0	147.8
04/11/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	8.6	0.0	0.0	3.4	51.6	0.0	10.3	3.4	0.0	0.0	17.2	34.4	8.6	3.4	0.0	0.0	146.1
04/12/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	8.6	0.0	0.0	3.4	51.6	0.0	10.3	5.2	0.0	0.0	17.2	34.4	8.6	3.4	0.0	0.0	146.1
04/13/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	8.6	0.0	0.0	3.4	51.6	0.0	10.3	5.2	0.0	0.0	17.2	34.4	6.9	3.4	0.0	0.0	144.4
04/14/00	0.0	0.0	0.0	0.0	0.0	1.7	0.0	8.6	0.0	0.0	3.4	51.6	0.0	12.0	3.4	0.0	0.0	17.2	34.4	6.9	3.4	0.0	0.0	142.6
04/15/00	1.7	0.0	0.0	0.0	0.0	1.7	0.0	8.6	0.0	0.0	5.2	51.6	0.0	13.8	3.4	0.0	0.0	17.2	34.4	8.6	3.4	0.0	0.0	149.6
04/16/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	8.6	0.0	0.0	3.4	51.6	0.0	12.0	3.4	0.0	0.0	17.2	34.4	8.6	3.4	0.0	0.0	146.0
04/17/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	12.0	0.0	0.0	1.7	51.6	0.0	13.8	3.4	0.0	0.0	17.2	43.0	8.6	3.4	0.0	0.0	158.1
04/18/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	13.8	0.0	0.0	1.7	51.6	0.0	12.0	1.7	0.0	0.0	17.2	43.0	8.6	3.4	0.0	0.0	156.4
04/19/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	12.0	0.0	0.0	1.7	51.6	0.0	13.8	3.4	0.0	0.0	17.2	43.0	8.6	1.7	0.0	0.0	156.4
04/20/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	13.8	0.0	0.0	1.7	60.2	0.0	12.0	1.7	0.0	0.0	17.2	43.0	8.6	1.7	0.0	0.0	165.1
04/21/00	0.0	0.0	0.0	0.0	0.0	5.2	0.0	25.8	0.0	0.0	1.7	60.2	0.0	13.8	1.7	0.0	0.0	17.2	43.0	12.0	1.7	0.0	0.0	182.3
04/22/00	1.7	0.0	0.0	0.0	0.0	5.2	0.0	25.8	0.0	0.0	3.4	60.2	0.0	13.8	3.4	0.0	0.0	13.8	34.4	13.8	1.7	0.0	0.0	177.2
04/23/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	25.8	0.0	0.0	3.4	60.2	0.0	12.0	3.4	0.0	0.0	12.0	34.4	12.0	3.4	0.0	0.0	170.0
04/24/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	25.8	0.0	0.0	3.4	60.2	0.0	12.0	3.4	0.0	0.0	13.8	34.4	13.8	3.4	0.0	0.0	173.6
04/25/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	17.2	0.0	0.0	5.2	60.2	0.0	13.8	5.2	0.0	0.0	12.0	34.4	13.8	3.4	0.0	0.0	168.6
04/26/00	1.7	0.0	0.0	0.0	0.0	3.4	0.0	17.2	0.0	0.0	5.2	60.2	0.0	12.0	3.4	0.0	0.0	15.3	34.4	12.0	3.4	0.0	0.0	168.2
04/27/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	17.2	0.0	0.0	3.4	60.2	0.0	13.8	5.2	0.0	0.0	17.2	34.4	12.0	1.7	0.0	0.0	168.5
04/28/00	1.7	0.0	0.0	0.0	0.0	3.4	0.0	13.8	0.0	0.0	3.4	60.2	0.0	10.3	5.2	0.0	0.0	18.9	34.4	13.8	3.4	0.0	0.0	168.5
04/29/00	0.0	0.0	0.0	0.0	0.0	3.4	0.0	13.8	0.0	0.0	3.4	60.2	0.0	8.6	5.2	0.0	0.0	13.8	34.4	13.8	3.4	0.0	0.0	160.0
04/30/00	1.7	0.0	0.0	0.0	0.0	5.2	0.0	10.3	0.0	0.0	3.4	60.2	0.0	6.9	5.2	0.0	0.0	13.8	34.4	12.0	3.4	0.0	0.0	156.5
Well Total	10.2	0.0	0.0	0.0	0.0	116.7	0.0	371.7	0.0	0.0	102.4	1642.6	0.0	361.1	109.7	0.0	1.7	511.7	1092.0	307.9	86.7	0.0	5.1	4719.5

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	February 17 2000		March 16 2000		April 19 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	0.05	1161.05	0.08	1161.23	0.08	1161.10
PW02	-----	1161.09	-----	1161.30	-----	1161.17
PW03	-----	1161.29	-----	1161.61	-----	1161.33
PW3S	-----	-----	-----	-----	0.36	1158.32
PW04	0.63	1157.21	0.84	1155.47	0.24	1155.26
PW05	0.02	1158.80	0.23	1153.98	0.34	1154.33
PW06	-----	-----	-----	-----	0.54	1160.27
PW07	0.25	1155.74	0.20	1155.65	-----	1155.97
PW08	-----	-----	-----	-----	0.36	1159.45
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1161.45	-----	1160.02	-----	1161.14
PW10	0.02	1153.32	0.03	1153.30	-----	1153.30
PW11	0.68	1154.66	0.78	1154.69	1.24	1154.10
PW12	-----	1161.27	-----	1160.66	-----	1160.67
PW13	0.23	1158.40	0.85	1158.46	0.68	1157.58
PW14	-----	-----	-----	-----	0.10	1159.68
PW15	0.02	1159.36	0.07	1159.60	0.10	1159.34
PW16	-----	1158.41	-----	1158.16	-----	1158.93
PW17	0.75	1156.95	1.12	1155.79	1.12	1154.64
PW18	0.53	1158.07	0.18	1158.61	0.40	1158.30
PW19	0.06	1158.69	0.03	1158.74	0.02	1158.41
PW20	0.80	1157.70	1.04	1157.58	0.28	1158.04
PW21	1.02	1158.07	0.08	1158.71	0.21	1158.32
PW22	-----	1159.86	-----	1160.17	-----	1160.02
PW23	0.89	1157.14	0.43	1157.72	0.45	1157.63
PW24	0.07	1157.58	0.73	1157.44	1.00	1156.78
PW25	0.75	1156.77	0.55	1157.40	0.15	1157.42
PW26	1.21	1155.39	0.71	1156.49	0.66	1156.26
PW27	0.46	1156.48	0.34	1157.42	0.59	1156.55
PW28	0.38	-----	0.38	-----	0.34	-----
PW29	0.14	-----	0.39	-----	0.23	-----
P01	0.38	1159.16	0.30	1159.48	0.32	1159.30
OW01	-----	-----	-----	-----	-----	1161.64
W01A	-----	-----	-----	-----	-----	1161.62
W01B	-----	-----	-----	-----	-----	1161.71
W02	0.46	1160.80	0.48	1160.94	0.53	1160.73
W03A	0.43	1159.06	0.40	1159.47	0.44	1159.22
W03B	-----	1160.59	-----	1160.76	-----	1160.65
W04A	0.61	1160.01	0.37	1160.57	0.60	1160.21
W04B	-----	-----	-----	-----	0.26	1160.48
W05	0.56	1158.95	-----	-----	0.59	1159.06
W06R	0.35	1161.29	-----	1161.60	0.34	1161.30
W07	-----	-----	-----	-----	0.18	1161.10
W08	-----	-----	-----	-----	-----	1168.08
W09	-----	-----	-----	-----	-----	1161.28
W10A	-----	-----	-----	-----	-----	1160.64
W10B	-----	-----	-----	-----	-----	1160.68
W11	-----	-----	-----	-----	-----	1160.61

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	February 17 2000		March 16 2000		April 19 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	-----	-----	-----	-----	1160.37
W13	-----	-----	-----	-----	-----	1160.78
W14	-----	-----	-----	-----	-----	1159.47
W16	-----	-----	-----	-----	-----	1161.06
W17	-----	-----	-----	-----	0.41	1159.35
W18	-----	-----	-----	-----	-----	1160.65
W19	-----	-----	-----	-----	-----	1162.70
W21	-----	-----	-----	-----	-----	1160.62
W22	0.38	1159.46	0.13	1159.07	0.18	1159.78
W23	-----	-----	-----	-----	-----	1160.62
W24A	-----	-----	-----	-----	-----	1160.59
W25	-----	-----	-----	-----	-----	1161.72
W26	-----	-----	-----	-----	-----	1160.61
W27	-----	-----	-----	-----	-----	1160.82
W28	-----	-----	-----	-----	-----	1160.72
W29	-----	-----	-----	-----	-----	1160.64
W30	0.73	1158.76	0.67	1159.08	0.63	1158.94
W31	-----	-----	-----	-----	-----	1160.65
W32	-----	-----	-----	-----	-----	1160.69
W33	-----	-----	-----	-----	0.12	1160.32
W34	0.23	1156.63	0.13	1157.04	0.22	1156.82
W35	0.64	1159.00	0.53	1159.30	0.51	1159.23
W36	-----	1160.17	-----	1160.42	-----	1160.33
W39	-----	-----	-----	-----	0.02	1160.57
W40	-----	-----	-----	-----	0.64	1149.72
W41	-----	-----	-----	-----	-----	1160.96
W42	-----	-----	-----	-----	0.29	1160.85
W44	0.24	1159.54	0.33	1159.71	0.47	1159.43
W45	0.06	1159.63	0.06	1160.17	-----	1159.89
W46	0.75	1158.66	0.50	1159.04	0.68	1158.82
W47	1.42	1154.06	1.58	1154.38	1.06	1154.59
W48	0.22	1155.28	0.08	1155.81	0.13	1155.58
W49	0.46	1155.68	0.20	1156.33	0.38	1155.94
W66	-----	1161.60	-----	1161.75	-----	1161.59
W67	-----	1161.57	-----	1161.70	-----	1161.55
W68A	-----	-----	-----	-----	0.52	1161.17
W68B	-----	-----	-----	-----	-----	1161.56
W69	0.78	1159.50	0.88	1159.69	0.67	1159.73
W70B	-----	-----	-----	-----	-----	1161.28
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:
ft msl = feet mean sea level

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

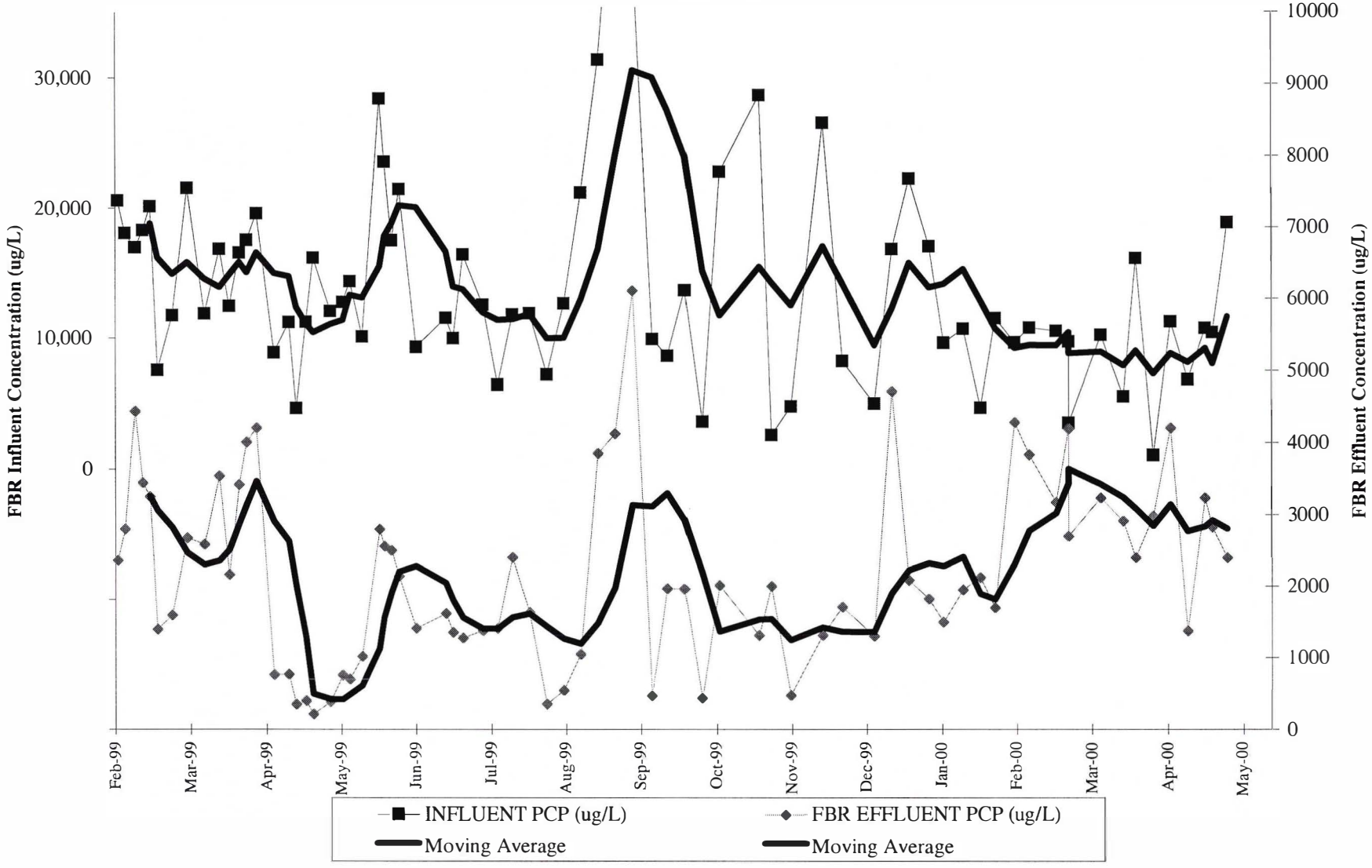
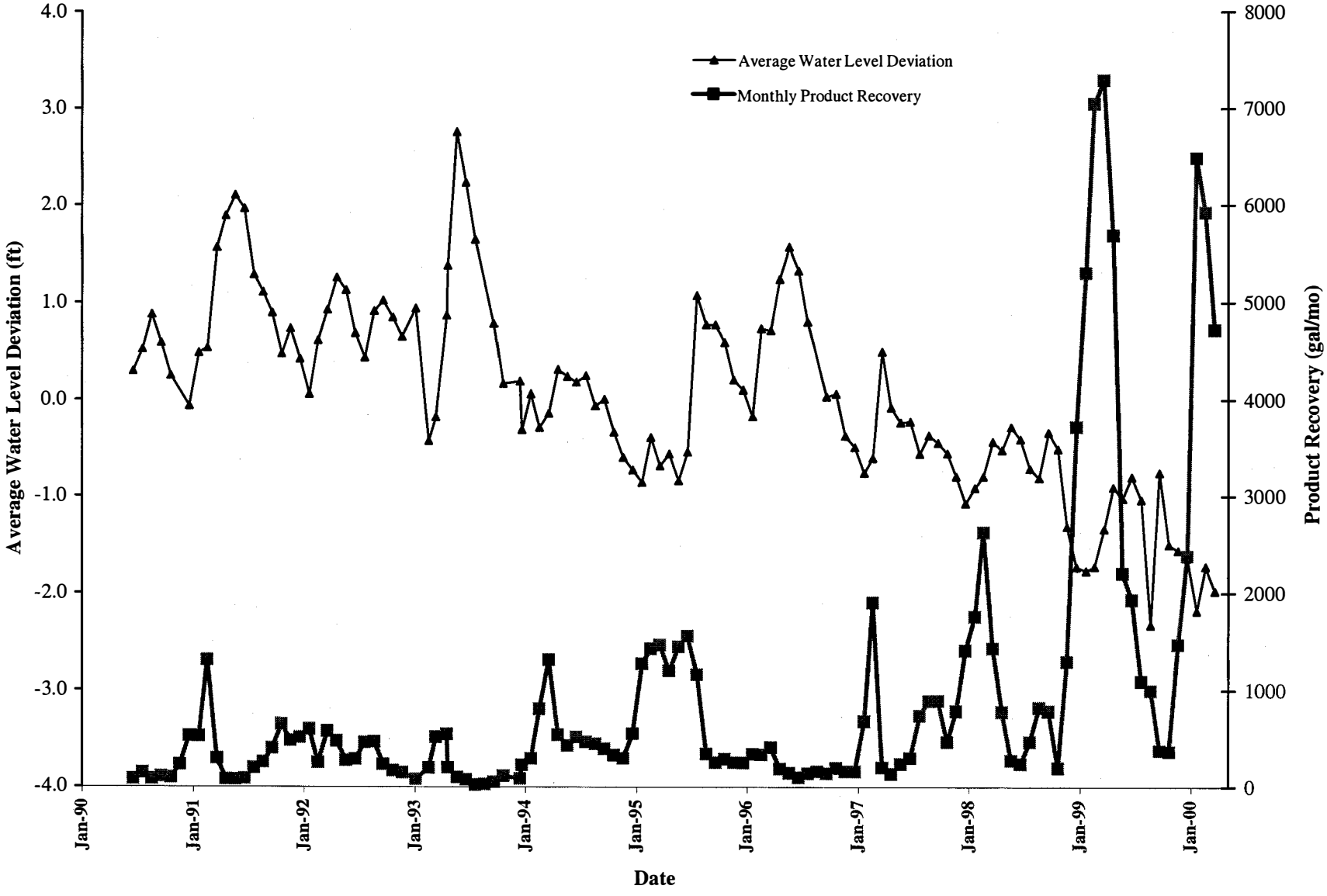


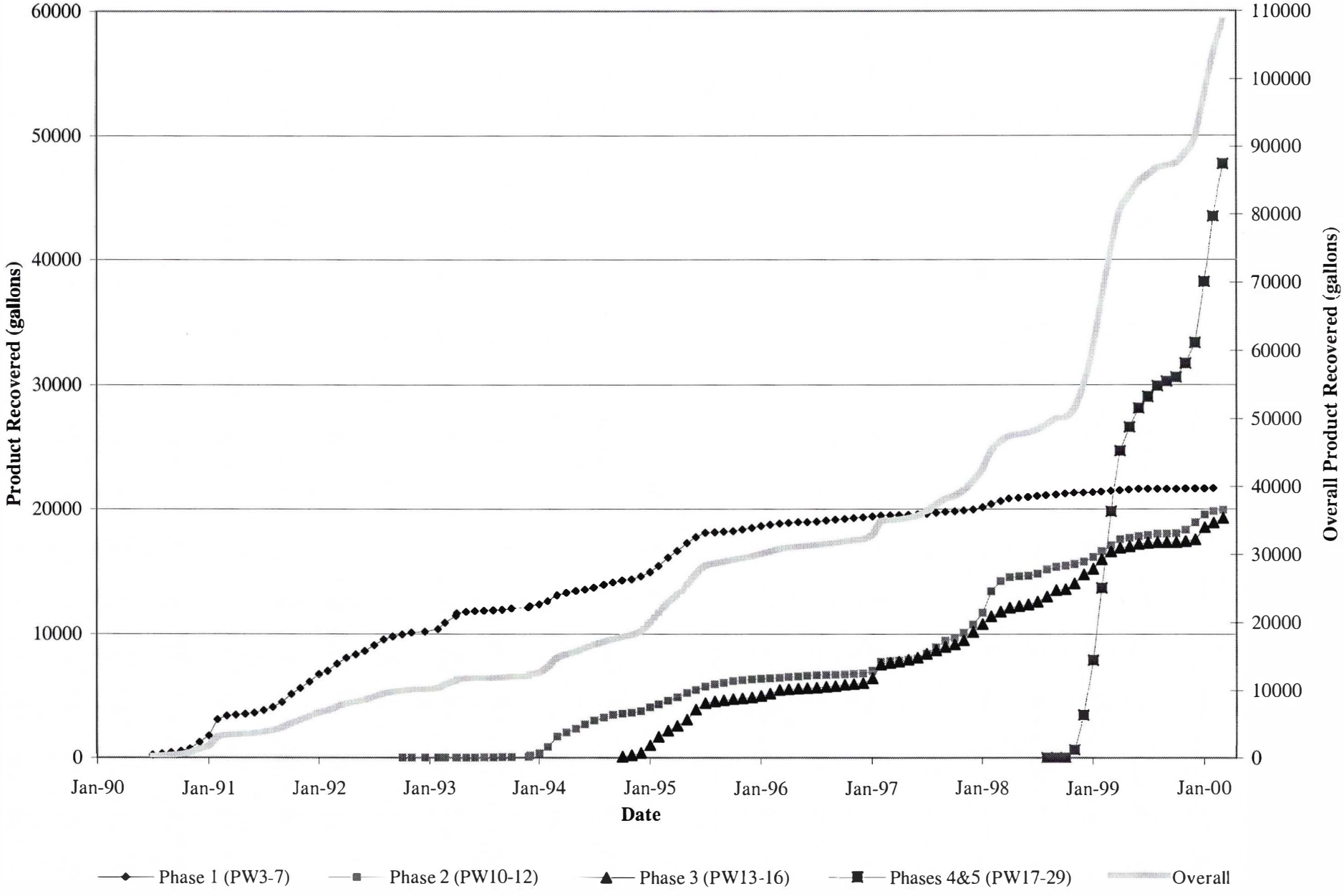
FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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FIGURE 3
Cumulative Product Recovery by Phase and Overall



MONTGOMERY WATSON

RECEIVED
MAY 02 2000
WAUSAU DNR

May 1, 2000

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: March Progress Report BRRTS# 02-37-000006
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the March Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

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

Sincerely,

MONTGOMERY WATSON

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek – MW Wauleco (1)

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WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
MARCH 2000

SUMMARY OF MARCH 2000 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 49 ug/L for the month of March, with a maximum single day concentration of 84 ug/L. The laboratory result for PCP in the system effluent was 180 ug/L on March 16, 2000. The on-site result for the same day was 42 ug/L. The laboratory result indicates effluent PCP concentrations exceeded the monthly average permit level of 150 ug/L, but were below the daily maximum concentration of 300 ug/L. During recent months, pumping rates in wells producing greater amounts of product have been increased. The increased pumping rate brings about decreased water levels, which allow for increased product recovery, but also increases the incidence of drawing product into the groundwater pump at the well. When this product enters the water treatment system, it is not amenable to treatment in the fluidized bed reactor (FBR), and leads to decreased treatment efficiency. This is the likely cause of increased PCP effluent levels observed during March.

The presence of product in the treatment stream is also likely to cause more variable effluent results. The methods used for on-site GC screening of PCP are less likely to measure product-phase PCP, while those used by the laboratory would be more likely to account for the product-phase, along with the solubilized, PCP. In the future, more frequent visual observation of the treatment system will be used to note the presence of product in the influent. If product is observed, the operators will collect additional effluent samples. In addition, carbon in the finishing filters will be replaced during April to provide additional treatment capacity and replace any "fouled" carbon in these units.

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on March 16 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was 0.29 ug/L.

PCP influent concentrations ranged from 1,045 ug/L to 16,118 ug/L during March (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as moving averages in Figure 1. As shown in Figure 1, influent PCP concentrations varied noticeably during March, with effluent PCP concentrations showing similar variability. This variability is likely the result of product in the water treatment system, as discussed previously. The average PCP removal efficiency for the FBR during March was 50% (assuming a 0% removal for the March 28 sampling) compared to an average of 81% during the previous year.

Daily groundwater flow through the treatment system (Table 2) ranged from 48 to 52 gallons per minute (gpm) during March. The treatment system flowrate averaged 50 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site increased slightly during March, following extremely low levels in February. Product recovery decreased slightly to 5,924 gallons in March. The increased water levels and slightly decreased product recovery are attributable to additional infiltration from spring snowmelt and precipitation during March.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis. An important milestone was reached with respect to product recovery during March 2000: total product recovery surpassed 100,000 gallons.

Groundwater Monitoring

Groundwater elevation and product thickness data for January, February, and March are summarized in Table 4.

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TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Biological Oxygen Demand	mg/L	03/16/00	20	8				10	
Chemical Oxygen Demand	mg/L	03/16/00	56	47				18	
Chloride	mg/L	03/16/00	189	192				422	
Dissolved Oxygen	mg/L	03/07/00	6.4	2.5	3				
	mg/L	03/16/00	7.6	4.2	4				
	mg/L	03/21/00	7.9	4.9	4.4				
	mg/L	03/28/00	7.2	3	2.6				
Nitrogen, Ammonia	mg/L	03/07/00	1.5	1	0.8				
	mg/L	03/16/00	2	0.8	0.8				
	mg/L	03/21/00	2	1	1				
	mg/L	03/28/00	3	2	2				
Nitrogen, Nitrate	mg/L	03/07/00	<	<	<				
	mg/L	03/16/00	<	<	0.1				
	mg/L	03/21/00	<	<	<				
	mg/L	03/28/00	<	<	0.3				
Nitrogen, Nitrate + Nitrite	mg/L	03/16/00	0.823	0.67				<	
Nitrogen, Total Kjeldahl	mg/L	03/16/00	1.47	0.93				0.94	
Pentachlorophenol-Screen	µg/L	03/01/00						48	
	µg/L	03/02/00						47	
	µg/L	03/03/00						44	
	µg/L	03/04/00						43	
	µg/L	03/05/00						43	
	µg/L	03/06/00						43	
	µg/L	03/07/00	10183	3237	2703			44	
	µg/L	03/08/00						41	
	µg/L	03/09/00						37	
	µg/L	03/10/00						47	
	µg/L	03/11/00						33	
	µg/L	03/12/00						33	
	µg/L	03/13/00						33	
	µg/L	03/14/00						39	
	µg/L	03/15/00						42	
	µg/L	03/16/00	5519	2909	2084			42	
	µg/L	03/17/00						25	
	µg/L	03/18/00						22	
	µg/L	03/19/00						22	
	µg/L	03/20/00						22	
	µg/L	03/21/00	16118	2399	1862			45	

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters 1+2 Effluent	System Effluent	System Eff Dup
Pentachlorophenol-Screen	µg/L	03/22/00						44	
	µg/L	03/23/00						56	
	µg/L	03/24/00						72	
	µg/L	03/25/00						82	
	µg/L	03/26/00						82	
	µg/L	03/27/00						82	
	µg/L	03/28/00	1045	2978	1967			84	
	µg/L	03/29/00						81	
	µg/L	03/30/00						69	
	µg/L	03/31/00						79	
pH	S.U.	03/07/00	6.36	6.3	6.4				
	S.U.	03/16/00	6.4	6.4	6.5				
	S.U.	03/21/00	6.5	6.6	6.6				
	S.U.	03/28/00	6.4	6.4	6.4				
Phosphorus, Ortho	mg/L	03/16/00	0.87	0.71				0.86	
Phosphorus, Phosphate	mg/L	03/07/00	2.5	2.5	2.5				
	mg/L	03/16/00	2	2	2				
	mg/L	03/21/00	2	1	1				
	mg/L	03/28/00	2	2	2				
Solids, Total Suspended	mg/L	03/16/00	6	17		6	<	<	
Mercury	µg/L	03/16/00	0.64	0.58				0.29	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	03/16/00	<		390		8.3	13	12
2,4,5-Trichlorophenol	µg/L	03/16/00	<		<		8.3	<	<
2,4,6-Trichlorophenol	µg/L	03/16/00	<		<		<	<	<
2,4-Dichlorophenol	µg/L	03/16/00	<		<		21	<	<
2,4-Dimethylphenol	µg/L	03/16/00	<		<		14	<	<
2,4-Dinitrophenol	µg/L	03/16/00	<		250		5.2	8	7.1
2,6-Dichlorophenol	µg/L	03/16/00	<		<		9.1	<	<
2-Chlorophenol	µg/L	03/16/00	<		<		80	<	<
2-Methylphenol	µg/L	03/16/00	<		<		43	<	<
2-Nitrophenol	µg/L	03/16/00	<		<		23	<	<
3&4-Methylphenol	µg/L	03/16/00	<		230		22	4.5	4.3
4,6-Dinitro-2-Methylphenol	µg/L	03/16/00	<		<		4	7.2	6.8
4-Chloro-3-Methylphenol	µg/L	03/16/00	<		<		4.5	<	<
4-Nitrophenol	µg/L	03/16/00	<		<		6.3	4.5	3.8
Pentachlorophenol	µg/L	03/16/00	17000		6000		2900	200	180
Phenol	µg/L	03/16/00	<		<		51	<	<

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate [1] (gpm)	POTW Discharge Flow Rate [1] (gpm)	POTW Totalized Discharge (gal)
03/01/00	48.73	41.79	23,563,650
03/02/00	48.47	40.92	23,622,581
03/03/00	48.30	41.09	23,681,756
03/04/00	48.49	41.19	23,741,067
03/05/00	48.66	40.93	23,800,012
03/06/00	48.55	40.80	23,858,770
03/07/00	48.92	41.13	23,917,998
03/08/00	48.56	41.10	23,977,175
03/09/00	50.65	42.98	24,039,063
03/10/00	50.37	43.16	24,101,215
03/11/00	52.05	44.48	24,165,264
03/12/00	51.86	43.65	24,228,126
03/13/00	51.75	44.90	24,292,788
03/14/00	51.66	44.04	24,356,199
03/15/00	50.52	43.90	24,419,416
03/16/00	49.60	43.16	24,481,567
03/17/00	50.62	43.68	24,544,460
03/18/00	51.27	43.83	24,607,568
03/19/00	51.46	43.71	24,670,515
03/20/00	50.63	41.27	24,729,950
03/21/00	50.38	44.42	24,793,908
03/22/00	50.94	44.17	24,857,510
03/23/00	50.85	44.17	24,921,112
03/24/00	50.61	44.00	24,984,478
03/25/00	50.79	44.66	25,048,787
03/26/00	50.68	43.68	25,111,682
03/27/00	50.64	43.56	25,174,412
03/28/00	50.54	43.20	25,236,623
03/29/00	50.30	43.42	25,299,145
03/30/00	49.22	43.09	25,361,190
03/31/00	49.42	43.58	25,423,951
Average	50.18	43.02	
Total [2]:			1,920,484

Footnotes:
(1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.
(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
03/01/00	0	0	0	0	0	7	0	26	0	0	9	69	0	17	5	0	2	26	52	17	12	0	2	243
03/02/00	0	0	0	0	0	17	0	26	0	0	7	60	0	17	5	0	3	15	52	17	12	0	0	232
03/03/00	0	0	2	0	0	17	0	26	0	0	0	69	0	17	3	0	2	19	43	16	7	0	2	222
03/04/00	0	0	0	0	0	10	0	14	0	0	0	69	0	17	5	0	3	17	34	9	7	0	2	188
03/05/00	2	0	0	0	0	10	0	14	0	0	3	69	0	17	3	0	3	17	26	9	2	0	0	175
03/06/00	3	0	0	0	0	10	0	12	0	0	3	69	0	17	3	0	2	17	52	9	2	0	2	201
03/07/00	3	0	0	0	0	10	0	12	0	0	3	77	0	17	3	0	0	17	52	9	3	0	2	210
03/08/00	2	0	0	0	0	10	0	12	0	0	3	77	0	17	5	0	2	17	52	7	3	0	0	208
03/09/00	0	0	0	0	0	10	0	14	0	0	9	77	0	17	5	0	0	17	52	10	0	0	2	213
03/10/00	2	0	0	0	0	10	0	14	0	0	3	77	0	17	3	0	2	17	52	7	2	0	2	208
03/11/00	0	0	0	0	0	10	0	12	0	0	3	77	0	17	3	0	0	17	52	7	2	0	2	203
03/12/00	0	0	0	0	0	10	0	12	0	0	3	77	0	17	5	0	2	17	52	7	2	0	2	206
03/13/00	2	0	0	0	0	10	0	2	0	0	3	77	0	10	3	0	0	17	40	7	2	0	2	175
03/14/00	0	0	0	0	0	10	0	12	0	0	2	77	0	7	3	0	2	17	40	7	2	0	0	179
03/15/00	2	0	0	0	0	10	0	12	0	0	3	69	0	10	3	0	2	17	38	9	2	0	2	179
03/16/00	2	0	0	0	0	10	0	7	0	0	3	69	0	12	3	0	2	17	38	9	3	0	0	175
03/17/00	2	0	0	0	0	10	0	7	0	0	3	69	0	12	3	0	2	15	52	9	2	0	2	187
03/18/00	0	0	0	0	0	10	0	9	0	0	3	52	0	17	3	0	0	17	26	10	3	0	0	151
03/19/00	0	0	0	0	0	10	0	9	0	0	3	52	0	14	3	0	0	19	26	10	2	0	0	148
03/20/00	0	0	0	0	0	10	0	9	0	0	5	52	0	12	3	0	0	17	26	10	3	0	0	148
03/21/00	0	0	0	0	0	9	0	7	0	0	5	52	0	14	3	0	0	17	26	12	3	0	2	150
03/22/00	0	0	0	0	0	7	0	7	0	0	5	52	0	12	3	0	2	17	52	12	2	0	0	170
03/23/00	0	0	0	0	0	9	0	7	0	0	3	52	0	14	3	0	0	26	52	12	3	0	2	182
03/24/00	0	0	0	0	0	7	0	5	0	0	7	52	0	12	5	0	0	26	34	14	3	0	0	165
03/25/00	3	0	0	0	0	7	0	12	0	0	7	69	0	14	5	0	2	52	34	14	3	0	0	222
03/26/00	0	0	0	0	0	7	0	14	0	0	7	69	0	12	3	0	0	52	34	14	3	0	2	217
03/27/00	2	0	0	0	0	5	0	14	0	0	5	69	0	7	3	0	2	52	52	12	3	0	0	225
03/28/00	0	0	0	0	0	7	0	12	0	0	0	52	0	9	2	0	2	52	52	14	3	0	2	205
03/29/00	0	0	0	0	0	3	0	7	0	0	0	52	0	10	3	0	2	52	52	12	2	0	2	196
03/30/00	0	0	0	0	0	3	0	7	0	0	2	52	0	10	5	0	0	34	34	14	0	0	2	163
03/31/00	0	0	0	0	0	2	0	14	0	0	3	52	0	16	3	0	2	34	34	14	3	0	2	179
Well Total	24	0	2	0	0	282	0	363	0	0	120	2004	0	430	120	0	37	765	1307	336	102	0	32	5924

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	January 10 2000		February 17 2000		March 16 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	0.05	1161.34	0.05	1161.05	0.08	1161.23
PW02	-----	1161.38	-----	1161.09	-----	1161.30
PW03	-----	1161.48	-----	1161.29	-----	1161.61
PW3S	0.34	1158.87	-----	-----	-----	-----
PW04	0.24	1154.06	0.63	1157.21	0.84	1155.47
PW05	0.49	1152.70	0.02	1158.80	0.23	1153.98
PW06	0.47	1160.50	-----	-----	-----	-----
PW07	-----	1157.02	0.25	1155.74	0.20	1155.65
PW08	0.36	1159.59	-----	-----	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1161.62	-----	1161.45	-----	1160.02
PW10	0.64	1156.87	0.02	1153.32	0.03	1153.30
PW11	0.52	1155.85	0.68	1154.66	0.78	1154.69
PW12	-----	1161.49	-----	1161.27	-----	1160.66
PW13	0.87	1157.44	0.23	1158.40	0.85	1158.46
PW14	0.12	1159.99	-----	-----	-----	-----
PW15	0.05	1159.93	0.02	1159.36	0.07	1159.60
PW16	0.24	1158.43	-----	1158.41	-----	1158.16
PW17	1.04	1155.94	0.75	1156.95	1.12	1155.79
PW18	0.93	1158.83	0.53	1158.07	0.18	1158.61
PW19	0.76	1159.31	0.06	1158.69	0.03	1158.74
PW20	0.62	1159.23	0.80	1157.70	1.04	1157.58
PW21	0.09	1159.81	1.02	1158.07	0.08	1158.71
PW22	-----	1160.40	-----	1159.86	-----	1160.17
PW23	0.35	1158.78	0.89	1157.14	0.43	1157.72
PW24	0.52	1158.65	0.07	1157.58	0.73	1157.44
PW25	0.53	1158.06	0.75	1156.77	0.55	1157.40
PW26	0.31	1158.00	1.21	1155.39	0.71	1156.49
PW27	0.31	1158.53	0.46	1156.48	0.34	1157.42
PW28	0.12	-----	0.38	-----	0.38	-----
PW29	0.35	-----	0.14	-----	0.39	-----
P01	0.40	1159.79	0.38	1159.16	0.30	1159.48
OW01	-----	1161.84	-----	-----	-----	-----
W01A	-----	1161.98	-----	-----	-----	-----
W01B	-----	1161.98	-----	-----	-----	-----
W02	0.03	1161.35	0.46	1160.80	0.48	1160.94
W03A	0.42	1159.53	0.43	1159.06	0.40	1159.47
W03B	-----	1160.78	-----	1160.59	-----	1160.76
W04A	0.39	1160.56	0.61	1160.01	0.37	1160.57
W04B	0.17	1160.73	-----	-----	-----	-----
W05	0.57	1159.62	0.56	1158.95	-----	-----
W06R	0.32	1161.55	0.35	1161.29	-----	1161.60
W07	-----	Frozen	-----	-----	-----	-----
W08	-----	1169.85	-----	-----	-----	-----
W09	-----	1161.30	-----	-----	-----	-----
W10A	-----	1160.66	-----	-----	-----	-----
W10B	-----	1160.68	-----	-----	-----	-----
W11	-----	1160.63	-----	-----	-----	-----

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	January 10 2000		February 17 2000		March 16 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	1160.32	-----	-----	-----	-----
W13	-----	1160.76	-----	-----	-----	-----
W14	-----	1159.37	-----	-----	-----	-----
W16	-----	1160.95	-----	-----	-----	-----
W17	0.39	1159.71	-----	-----	-----	-----
W18	-----	1160.66	-----	-----	-----	-----
W19	0.03	1161.24	-----	-----	-----	-----
W21	-----	1160.55	-----	-----	-----	-----
W22	0.25	1159.90	0.38	1159.46	0.13	1159.07
W23	-----	1160.50	-----	-----	-----	-----
W24A	-----	1160.49	-----	-----	-----	-----
W25	-----	1161.94	-----	-----	-----	-----
W26	-----	1160.59	-----	-----	-----	-----
W27	-----	1160.76	-----	-----	-----	-----
W28	-----	1160.74	-----	-----	-----	-----
W29	-----	1160.61	-----	-----	-----	-----
W30	0.76	1159.37	0.73	1158.76	0.67	1159.08
W31	-----	1160.68	-----	-----	-----	-----
W32	-----	1160.69	-----	-----	-----	-----
W33	0.27	1160.40	-----	-----	-----	-----
W34	0.26	1157.04	0.23	1156.63	0.13	1157.04
W35	0.51	1159.73	0.64	1159.00	0.53	1159.30
W36	-----	1160.88	-----	1160.17	-----	1160.42
W39	0.08	1160.60	-----	-----	-----	-----
W40	0.61	1159.83	-----	-----	-----	-----
W41	-----	1160.97	-----	-----	-----	-----
W42	0.19	1161.08	-----	-----	-----	-----
W44	0.49	1159.91	0.24	1159.54	0.33	1159.71
W45	0.03	1160.28	0.06	1159.63	0.06	1160.17
W46	0.82	1159.33	0.75	1158.66	0.50	1159.04
W47	1.94	1154.21	1.42	1154.06	1.58	1154.38
W48	0.14	1156.17	0.22	1155.28	0.08	1155.81
W49	0.57	1156.16	0.46	1155.68	0.20	1156.33
W66	-----	1161.82	-----	1161.60	-----	1161.75
W67	-----	1161.79	-----	1161.57	-----	1161.70
W68A	0.81	1161.11	-----	-----	-----	-----
W68B	-----	1161.78	-----	-----	-----	-----
W69	0.64	1160.10	0.78	1159.50	0.88	1159.69
W70B	-----	1161.52	-----	-----	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:
ft msl = feet mean sea level

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

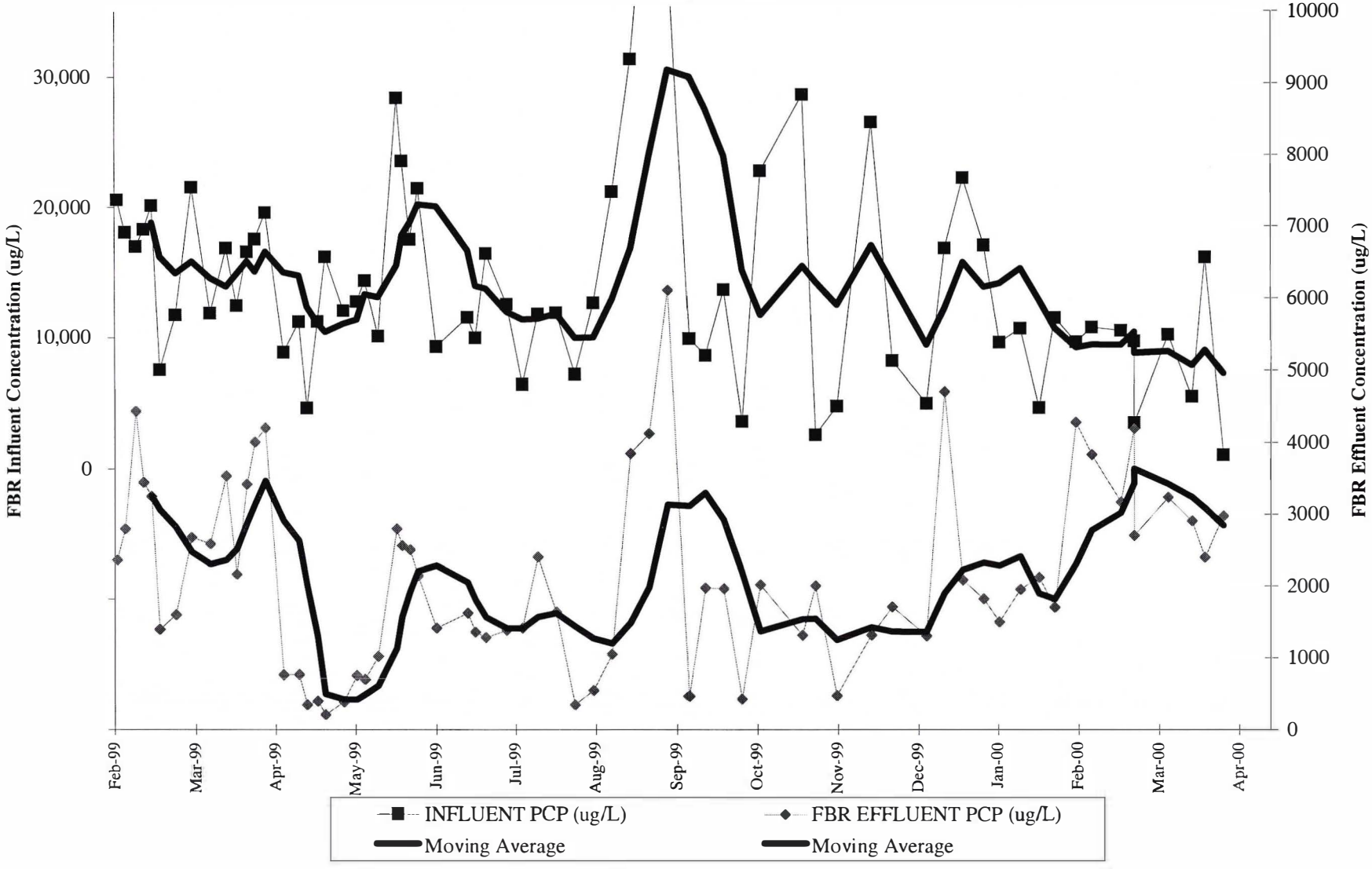
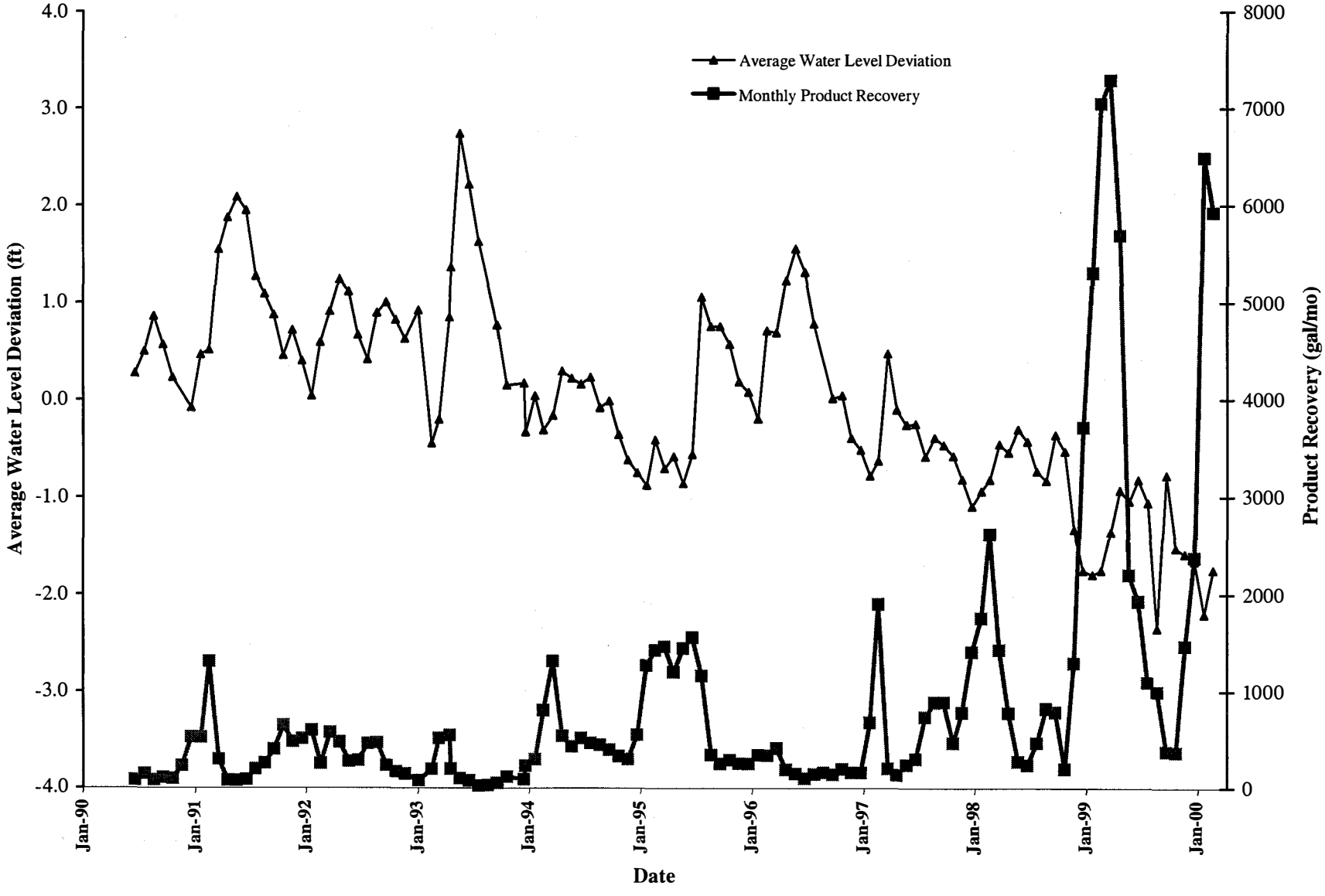


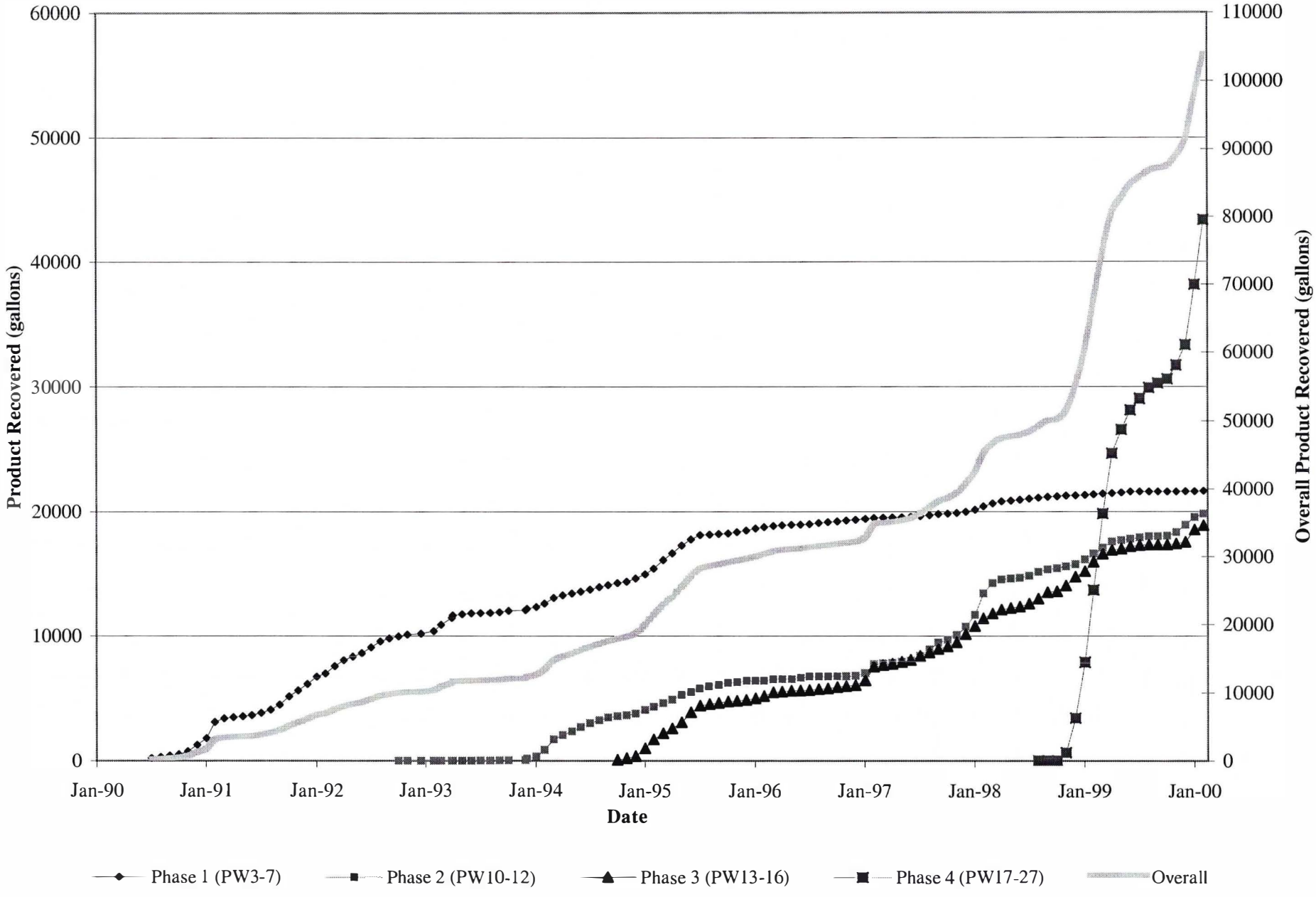
FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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4/14/00

FIGURE 3
Cumulative Product Recovery by Phase and Overall



MONTGOMERY WATSON

WAUSAU DNR
APR 07 2000
RECEIVED

April 5, 2000

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: February Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the February Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

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

Sincerely,

MONTGOMERY WATSON

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek – MW Wauleco (1)

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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
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WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
FEBRUARY 2000

SUMMARY OF FEBRUARY 2000 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 55 ug/L for the month of February, with a maximum single day concentration of 94 ug/L. The laboratory result for PCP in the system effluent was 78 ug/L on February 18, 2000. The on-site result for the same period ranged from 45 to 63 ug/L. Both these results indicate PCP concentrations were well below the permit levels of 150 ug/L (monthly average) and 300 ug/L (daily maximum).

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on February 18 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was 0.26 ug/L.

PCP influent concentrations ranged from 3,511 ug/L to 10,753 ug/L during February (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as a moving average in Figure 1. As shown in Figure 1, influent PCP concentrations decreased slightly during February, while effluent PCP concentrations increased. The average PCP removal efficiency for the FBR during February was 54% compared to an average of 83% during the previous year.

Daily groundwater flow through the treatment system (Table 2) ranged from 46 to 53 gallons per minute (gpm) during February. The treatment system flowrate averaged 48 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site decreased during February to a near-record low. Product recovery increased to 6,485 gallons in February. Increased product recovery is likely the result of lower water levels attained during recent months.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis. Extraction wells PW-28 and PW-29 are not included in this figure, as their cumulative product recovery totals are relatively low at this time (see Table 3).

Groundwater Monitoring

Groundwater elevation and product thickness data for December, January, and February are summarized in Table 4.

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TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Biological Oxygen Demand	mg/L	02/18/00	26	14				4	
Chemical Oxygen Demand	mg/L	02/18/00	44	43				38	
Chloride	mg/L	02/18/00	47.9	48.7				49.6	
Dissolved Oxygen	mg/L	02/01/00	5.2	1.9	2.3				
	mg/L	02/07/00	6	2.6	3.5				
	mg/L	02/18/00	7	3.1	3.2				
	mg/L	02/23/00	7	3.2	3.6				
	mg/L	02/29/00	7.5	5.4	3.8				
Nitrogen, Ammonia	mg/L	02/01/00	3	1	2				
	mg/L	02/07/00	3	1.5	1.5				
	mg/L	02/18/00	3	1	1				
	mg/L	02/23/00	2	0.8	0.8				
	mg/L	02/29/00	2	1	1				
Nitrogen, Nitrate	mg/L	02/01/00	<	<	<				
	mg/L	02/07/00	<	<	<				
	mg/L	02/18/00	<	<	<				
	mg/L	02/23/00	<	<	<				
	mg/L	02/29/00	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	02/18/00	0.627	0.323				0.15	
Nitrogen, Total Kjeldahl	mg/L	02/18/00	2.67	1.9				1.5	
Pentachlorophenol-Screen	µg/L	02/01/00	9624	4280	4456			88	
	µg/L	02/02/00						94	
	µg/L	02/03/00						79	
	µg/L	02/04/00						73	
	µg/L	02/05/00						66	
	µg/L	02/06/00						66	
	µg/L	02/07/00	10753	3831	5147			66	
	µg/L	02/08/00						37	
	µg/L	02/09/00						48	
	µg/L	02/10/00						52	
	µg/L	02/11/00						42	
	µg/L	02/12/00						38	
	µg/L	02/13/00						38	
	µg/L	02/14/00						38	
	µg/L	02/15/00						57	
	µg/L	02/16/00						47	
	µg/L	02/17/00						47	
	µg/L	02/18/00	10507	3172	2621			45	
	µg/L	02/19/00						63	
	µg/L	02/20/00						63	
	µg/L	02/21/00						63	
	µg/L	02/22/00						62	

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Pentachlorophenol-Screen	µg/L	02/23/00	9864	4195	4339			59	
	µg/L	02/24/00						35	
	µg/L	02/25/00						41	
	µg/L	02/26/00						46	
	µg/L	02/27/00						46	
	µg/L	02/28/00						46	
	µg/L	02/29/00	3511	2701	2412			40	
pH	S.U.	02/01/00	6.2	6.2	6.3				
	S.U.	02/07/00	6.4	6.4	6.5				
	S.U.	02/18/00	6.6	6.6	6.7				
	S.U.	02/23/00	6.3	6.4	6.4				
	S.U.	02/29/00	6.3	6.4	6.4				
Phosphorus, Ortho	mg/L	02/18/00	0.7	0.52				0.62	
Phosphorus, Phosphate	mg/L	02/01/00	2	2	2				
	mg/L	02/07/00	2	2	2				
	mg/L	02/18/00	2	2	2				
	mg/L	02/23/00	2	2	2				
	mg/L	02/29/00	2	1.5	1.5				
Solids, Total Suspended	mg/L	02/18/00	8	14		5	<	<	
Mercury	µg/L	02/18/00	0.73	0.74				0.26	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	02/18/00	<	<	<	<	<	<	<
2,4,5-Trichlorophenol	µg/L	02/18/00	<	<	<	<	<	<	<
2,4,6-Trichlorophenol	µg/L	02/18/00	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	02/18/00	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	02/18/00	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	02/18/00	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	02/18/00	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	02/18/00	<	<	<	<	<	<	<
2-Methylphenol	µg/L	02/18/00	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	02/18/00	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	02/18/00	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	02/18/00	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	02/18/00	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	02/18/00	<	<	<	<	<	<	<
Pentachlorophenol	µg/L	02/18/00	12000	2200	2600	4700	1300	78	89
Phenol	µg/L	02/18/00	<	<	<	<	<	<	<

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate [1] (gpm)	POTW Discharge Flow Rate [1] (gpm)	POTW Totalized Discharge (gal)
02/01/00	51.10	44.46	21,857,178
02/02/00	51.03	44.01	21,920,549
02/03/00	50.36	43.29	21,982,888
02/04/00	49.97	43.08	22,044,920
02/05/00	49.10	42.35	22,105,898
02/06/00	48.49	42.09	22,166,512
02/07/00	48.81	42.32	22,227,451
02/08/00	48.87	42.43	22,288,551
02/09/00	49.04	42.35	22,349,531
02/10/00	53.44	41.88	22,409,839
02/11/00	48.28	41.44	22,469,511
02/12/00	47.78	40.88	22,528,372
02/13/00	47.35	40.53	22,586,728
02/14/00	47.23	40.06	22,644,414
02/15/00	47.69	40.96	22,703,392
02/16/00	45.79	39.47	22,760,235
02/17/00	45.92	40.18	22,818,101
02/18/00	47.19	39.41	22,874,852
02/19/00	47.31	40.37	22,932,980
02/20/00	47.10	40.10	22,990,731
02/21/00	47.42	40.32	23,048,798
02/22/00	47.25	40.35	23,106,901
02/23/00	46.84	38.30	23,162,046
02/24/00	47.55	37.66	23,216,281
02/25/00	47.57	39.49	23,273,140
02/26/00	46.75	40.38	23,331,281
02/27/00	46.71	39.35	23,387,948
02/28/00	47.57	40.20	23,445,830
02/29/00	48.27	40.03	23,503,467
Average	48.20	40.96	
Total [2]:			1,710,305

Footnotes:

(1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.

(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
02/01/00	0	0	0	0	0	52	0	14	0	0	0	26	0	7	2	0	0	3	26	10	3	0	0	143
02/02/00	2	0	0	0	0	26	0	12	0	0	2	52	0	7	3	0	2	3	26	26	3	0	0	163
02/03/00	2	0	0	0	0	26	0	26	0	0	2	52	0	7	3	0	0	5	26	10	3	0	2	163
02/04/00	0	0	0	0	0	52	0	26	0	0	2	52	0	16	0	0	0	5	26	16	3	0	0	196
02/05/00	0	0	0	0	0	26	0	26	0	0	3	52	0	9	0	0	0	5	26	10	5	0	0	162
02/06/00	0	0	0	0	0	26	0	26	0	0	3	52	0	7	0	0	0	5	26	10	7	0	0	162
02/07/00	0	0	0	0	0	17	0	26	0	0	3	52	0	5	0	0	0	7	26	9	5	0	0	150
02/08/00	0	0	0	0	0	17	0	26	0	0	3	52	0	5	0	0	0	5	26	9	7	0	0	150
02/09/00	0	0	0	0	0	17	0	52	0	0	3	52	0	21	2	0	0	19	52	14	5	0	0	236
02/10/00	0	0	0	0	0	17	0	26	0	0	7	52	0	21	3	0	0	5	52	5	5	0	2	194
02/11/00	0	0	0	0	0	17	0	26	0	0	9	52	0	14	3	0	0	9	52	19	5	0	2	206
02/12/00	0	0	0	0	0	17	0	26	0	0	0	69	0	12	5	0	0	19	69	14	3	0	0	234
02/13/00	0	0	0	0	0	26	0	26	0	0	0	86	0	14	3	0	0	19	77	14	3	0	0	268
02/14/00	0	0	0	0	0	26	0	26	0	0	0	69	0	12	3	0	0	15	60	14	3	0	2	230
02/15/00	0	0	0	0	0	17	0	26	0	0	0	69	0	14	3	0	0	10	52	19	3	0	0	213
02/16/00	0	0	0	0	0	17	0	26	0	0	0	69	0	12	3	0	0	14	52	19	3	0	0	215
02/17/00	0	0	0	0	0	17	0	26	0	0	5	69	0	14	2	0	0	12	52	17	9	0	0	222
02/18/00	0	0	0	0	0	17	0	52	0	0	3	69	0	12	3	0	2	12	52	17	9	0	0	248
02/19/00	0	0	0	0	0	17	0	52	0	0	3	69	0	17	3	0	2	14	60	17	9	0	0	263
02/20/00	0	0	0	0	0	17	0	52	0	0	3	69	0	17	3	0	2	14	60	26	9	0	2	273
02/21/00	0	0	0	0	0	17	0	52	0	0	0	69	0	17	3	0	2	12	69	26	9	0	0	275
02/22/00	0	0	0	0	0	17	0	26	0	0	0	69	0	17	9	0	2	12	69	26	7	0	0	253
02/23/00	0	0	2	0	0	17	0	26	0	0	3	69	0	17	3	0	3	14	69	26	7	0	0	256
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02/25/00	0	0	2	0	0	17	0	52	0	0	3	69	0	17	2	0	2	12	69	17	7	0	0	268
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02/27/00	0	0	0	0	0	26	0	52	0	0	3	69	0	17	3	0	0	17	69	17	7	0	0	280
02/28/00	0	0	2	0	0	26	0	52	0	0	3	69	0	17	5	0	0	17	69	17	7	0	0	284
02/29/00	0	0	0	0	0	10	0	26	0	0	3	60	0	17	7	0	3	26	60	17	5	0	0	236
Well Total	3	0	5	0	0	630	0	980	0	0	77	1,789	0	396	87	0	22	342	1,505	475	165	0	9	6,485

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	December 13 1999		January 10 2000		February 17 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	0.07	1161.50	0.05	1161.34	0.05	1161.05
PW02	-----	1161.52	-----	1161.38	-----	1161.09
PW03	-----	1161.65	-----	1161.48	-----	1161.29
PW3S	-----	-----	0.34	1158.87	-----	-----
PW04	0.81	1154.65	0.24	1154.06	0.63	1157.21
PW05	-----	1147.20	0.49	1152.70	0.02	1158.80
PW06	-----	-----	0.47	1160.50	-----	-----
PW07	-----	1156.64	-----	1157.02	0.25	1155.74
PW08	-----	-----	0.36	1159.59	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1162.30	-----	1161.62	-----	1161.45
PW10	0.86	1157.21	0.64	1156.87	0.02	1153.32
PW11	0.86	1155.72	0.52	1155.85	0.68	1154.66
PW12	-----	1161.64	-----	1161.49	-----	1161.27
PW13	0.24	1158.26	0.87	1157.44	0.23	1158.40
PW14	-----	-----	0.12	1159.99	-----	-----
PW15	0.15	1159.83	0.05	1159.93	0.02	1159.36
PW16	0.25	1158.63	0.24	1158.43	-----	1158.41
PW17	0.58	1158.22	1.04	1155.94	0.75	1156.95
PW18	0.78	1158.98	0.93	1158.83	0.53	1158.07
PW19	0.69	1159.44	0.76	1159.31	0.06	1158.69
PW20	1.37	1158.42	0.62	1159.23	0.80	1157.70
PW21	0.48	1159.54	0.09	1159.81	1.02	1158.07
PW22	0.34	1157.60	-----	1160.40	-----	1159.86
PW23	0.32	1158.44	0.35	1158.78	0.89	1157.14
PW24	0.45	1158.70	0.52	1158.65	0.07	1157.58
PW25	2.21	1156.70	0.53	1158.06	0.75	1156.77
PW26	1.89	1156.77	0.31	1158.00	1.21	1155.39
PW27	0.35	1157.89	0.31	1158.53	0.46	1156.48
PW28	0.04	-----	0.12	-----	0.38	-----
PW29	0.36	-----	0.35	-----	0.14	-----
P01	0.40	1159.83	0.40	1159.79	0.38	1159.16
OW01	-----	-----	-----	1161.84	-----	-----
W01A	-----	-----	-----	1161.98	-----	-----
W01B	-----	-----	-----	1161.98	-----	-----
W02	0.12	1161.31	0.03	1161.35	0.46	1160.80
W03A	0.39	1159.56	0.42	1159.53	0.43	1159.06
W03B	-----	1160.74	-----	1160.78	-----	1160.59
W04A	0.29	1160.74	0.39	1160.56	0.61	1160.01
W04B	-----	-----	0.17	1160.73	-----	-----
W05	0.52	1159.71	0.57	1159.62	0.56	1158.95
W06R	0.22	1161.81	0.32	1161.55	0.35	1161.29
W07	-----	-----	-----	Frozen	-----	-----
W08	-----	-----	-----	1169.85	-----	-----
W09	-----	-----	-----	1161.30	-----	-----
W10A	-----	-----	-----	1160.66	-----	-----
W10B	-----	-----	-----	1160.68	-----	-----
W11	-----	-----	-----	1160.63	-----	-----

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	December 13 1999		January 10 2000		February 17 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	-----	-----	1160.32	-----	-----
W13	-----	-----	-----	1160.76	-----	-----
W14	-----	-----	-----	1159.37	-----	-----
W16	-----	-----	-----	1160.95	-----	-----
W17	-----	-----	0.39	1159.71	-----	-----
W18	-----	-----	-----	1160.66	-----	-----
W19	-----	-----	0.03	1161.24	-----	-----
W21	-----	-----	-----	1160.55	-----	-----
W22	0.10	1160.04	0.25	1159.90	0.38	1159.46
W23	-----	-----	-----	1160.50	-----	-----
W24A	-----	-----	-----	1160.49	-----	-----
W25	-----	-----	-----	1161.94	-----	-----
W26	-----	-----	-----	1160.59	-----	-----
W27	-----	-----	-----	1160.76	-----	-----
W28	-----	-----	-----	1160.74	-----	-----
W29	-----	-----	-----	1160.61	-----	-----
W30	0.83	1159.32	0.76	1159.37	0.73	1158.76
W31	-----	-----	-----	1160.68	-----	-----
W32	-----	-----	-----	1160.69	-----	-----
W33	-----	-----	0.27	1160.40	-----	-----
W34	0.21	1157.21	0.26	1157.04	0.23	1156.63
W35	0.41	1159.86	0.51	1159.73	0.64	1159.00
W36	-----	1160.90	-----	1160.88	-----	1160.17
W39	-----	-----	0.08	1160.60	-----	-----
W40	-----	-----	0.61	1159.83	-----	-----
W41	-----	-----	-----	1160.97	-----	-----
W42	-----	-----	0.19	1161.08	-----	-----
W44	0.49	1159.94	0.49	1159.91	0.24	1159.54
W45	0.06	1160.31	0.03	1160.28	0.06	1159.63
W46	0.72	1159.48	0.82	1159.33	0.75	1158.66
W47	1.52	1154.47	1.94	1154.21	1.42	1154.06
W48	0.11	1156.15	0.14	1156.17	0.22	1155.28
W49	0.56	1156.19	0.57	1156.16	0.46	1155.68
W66	-----	1161.96	-----	1161.82	-----	1161.60
W67	-----	1161.93	-----	1161.79	-----	1161.57
W68A	-----	-----	0.81	1161.11	-----	-----
W68B	-----	-----	-----	1161.78	-----	-----
W69	0.72	1160.10	0.64	1160.10	0.78	1159.50
W70B	-----	-----	-----	1161.52	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:
ft msl = feet mean sea level

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

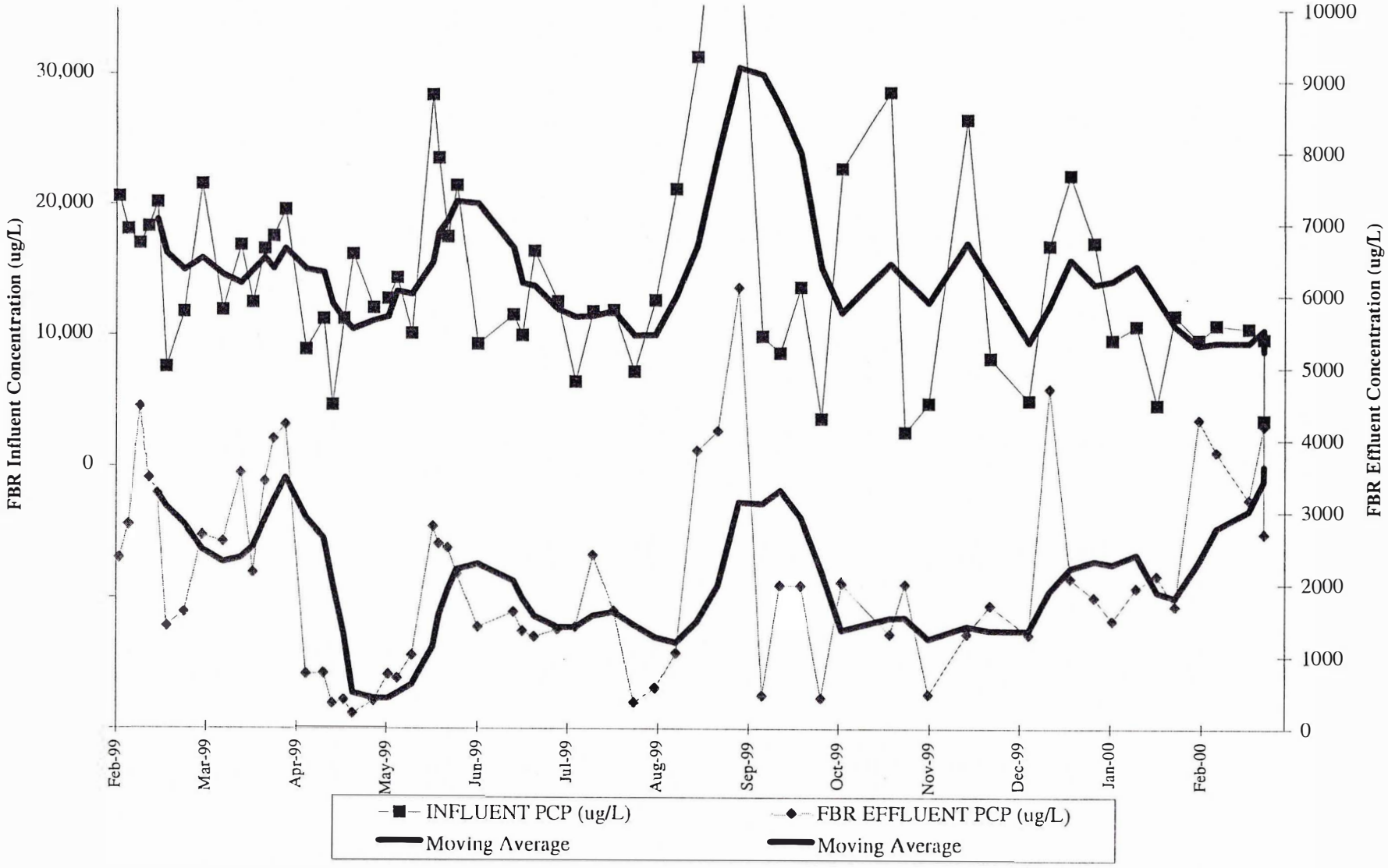
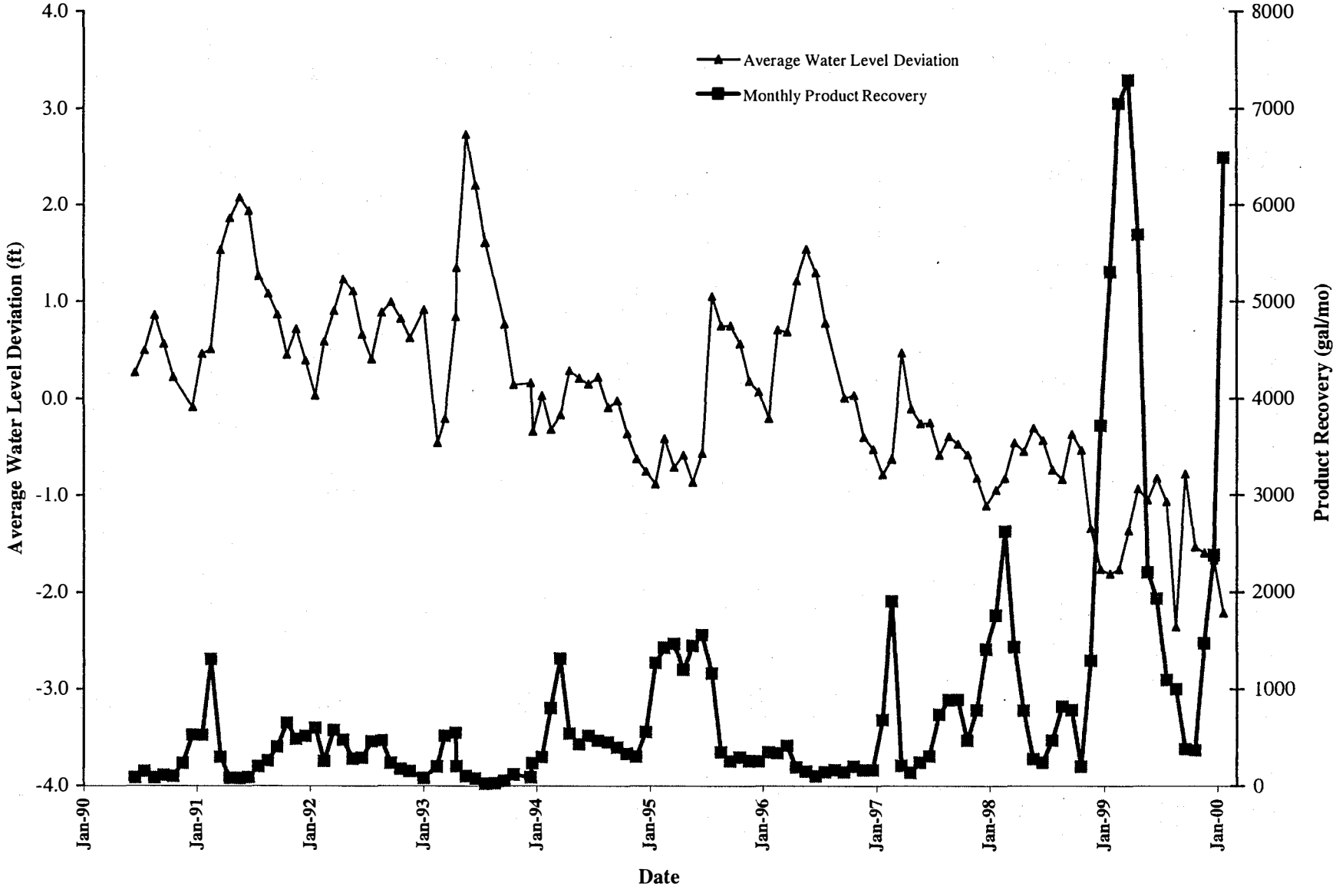


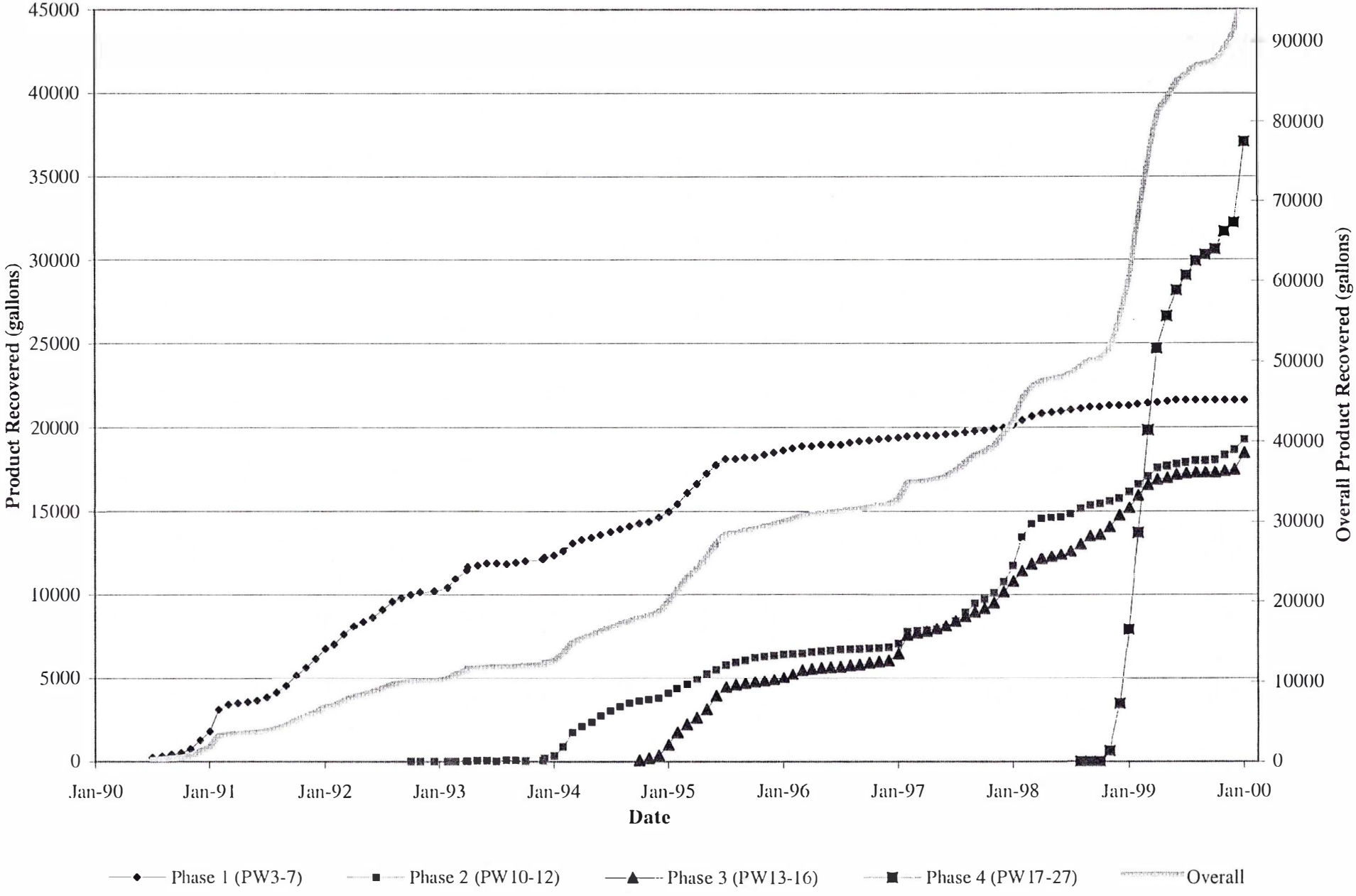
FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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3/28/00

FIGURE 3
Cumulative Product Recovery by Phase and Overall



MONTGOMERY WATSON

March 7, 2000

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: Transmittal of 1999 Annual Groundwater Monitoring Report
WAULECO, Inc.
Wausau, Wisconsin

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies of the 1999 Annual Groundwater Monitoring Report for the WAULECO, Inc. site in Wausau, Wisconsin.

If you have any questions or comments, please call me at (608) 231-4747.

Sincerely,

MONTGOMERY WATSON

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

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MAR - 9 2000
WAUSAU DNR

RECEIVED
MAR - 2000
WAUSAU DNR

Enclosures: As Stated

cc: R. Brandt (1)
P. Peshek (3)

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One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
Fax: 608 231 4777

1999 ANNUAL GROUNDWATER MONITORING REPORT

WAULECO, INC.
WAUSAU FACILITY
WAUSAU, WISCONSIN

RECEIVED
MAR - 2 2000
WAUSAU DNR

March 2000

Prepared For:
Wauleco, Inc.
Stevens Point, Wisconsin

•••

Prepared By:
Montgomery Watson
Madison, Wisconsin

RECEIVED
MAR - 9 2000
WAUSAU DNR

Project No. 1242057.0516.0101

MONTGOMERY WATSON

MONTGOMERY WATSON

March 7, 2000

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: Transmittal of 1999 Annual Groundwater Monitoring Report
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Wausau, Wisconsin

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Sincerely,

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Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: As Stated

cc: R. Brandt (1)
P. Peshek (3)

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1242057.0516.0101-MD

One Science Court
P.O. Box 5385
Madison, Wisconsin
53705-0385

Tel: 608 231 4747
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1999 ANNUAL GROUNDWATER MONITORING REPORT

WAULECO, INC.
WAUSAU FACILITY
WAUSAU, WISCONSIN

March 2000

The following individuals were responsible for the preparation of this report: Patrick H. Lytle, Kenneth J. Quinn, and Douglas J. Bach. The hydrogeologist listed below meets the requirements of NR 500.03(64), Wisconsin Administrative Code.

Prepared by: _____ 3/7/00

Patrick H. Lytle — Date
Environmental Engineer

Approved by: _____ 3/7/00

Kenneth J. Quinn, P.G. — Date
Principal Hydrogeologist

_____ 3/7/00

Douglas J. Bach, P.E. — Date
Supervising Engineer

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1999 ANNUAL GROUNDWATER MONITORING REPORT

WAULECO, INC. WAUSAU FACILITY

INTRODUCTION

The 1999 Annual Groundwater Monitoring Report presents a summary of the groundwater data collected from the Wauleco, Inc., facility in Wausau, Wisconsin. The focus of this report is on groundwater data collected during the first and second semi-annual rounds (winter and summer, respectively) for 1999. For comparison purposes, this report also includes historic groundwater data collected at the site starting in January 1987.

To support the presentation and interpretation of the groundwater monitoring data, this document contains the following information:

- Historic water level deviations in the vicinity of the site (Figure 1)
- Historic water level deviations and product recovery (Figure 2)
- Water table elevations and groundwater contour maps for January and June 1999 (Figures 3 through 6)
- Maps of apparent product thickness for January and June 1999 (Figures 7 and 8)
- Water table elevations and product thicknesses for January and June 1999 are also listed in Table 3
- Chemical isoconcentrations maps based on June 1999 analytical results for:
  - Pentachlorophenol (PCP) (Figure 9)
  - Benzene (Figure 10)
  - Xylenes (Figure 11)
  - Trichloroethylene (Figure 12)
  - Naphthalene (Figure 13)
  - Total Petroleum Hydrocarbons (TPH) (Figure 14)
  - Chloride (Figure 15)
- Data summary tables containing historical groundwater analytical results for each monitoring well (Appendix A)
- Time trend analysis depicting historical concentrations of PCP and chloride at each well on the monitoring program with four or more rounds of historical analytical results (Appendix B)

BACKGROUND

Periodic groundwater sampling has occurred at the Wauleco, Wausau facility since at least 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, a number of changes have occurred to the groundwater extraction and treatment system at the Wauleco property, including:

- Discontinuation of the infiltration gallery.
- Abandonment of monitoring wells W6, W20, W37, and W38.
- Loss of monitoring well W43 during utility work.
- Installation of new monitoring wells W6R, W68A, W68B, W69, and W70B.
- The addition of pumping wells PW9 through PW16.

Further modifications to the GMP have been made to accommodate the changes described above, and to streamline the monitoring effort. Beginning in 1997, groundwater sampling moved from a quarterly basis to a semi-annual basis (summer and winter). One special round of sampling for dioxin/furan analysis was completed during the June 1998 round.

The wells and parameters included in the semi-annual monitoring program are summarized in Table 1. The Groundwater Monitoring Report is submitted on an annual basis following completion of the summer round of sampling and analysis.

Eleven new extraction wells were installed in the fall of 1998, and further system modifications were completed in the fall of 1999. The 1999 modifications included:

- The addition of two extraction wells near the northern property line.
- Associated conveyance piping and controls.
- An upgraded controls system, with additional monitoring and controls capabilities.

SAMPLING EVENT SUMMARY

The 1999 Annual Groundwater Monitoring Report provides a presentation and interpretation of data collected at the Wauleco site beginning in 1987 and continuing through June 1999. Sampling activities since 1992 have been conducted in general accordance with the Wauleco Groundwater Monitoring Plan and WDNR conditional approvals. During each sampling event, water levels and product thickness measurements were first recorded, followed by purging of each well sampled. The wells sampled during the first and second semi-annual round in 1999 are shown on Table 2. Groundwater samples were not collected from wells that contained measurable product. Groundwater samples were submitted as appropriate for

laboratory analysis of chloride by Method 325.3, nitrite + nitrate by Method 353.2, ammonia by Method 350.3, volatile organic compounds (VOCs) including naphthalene by Method 8021, phenolic compounds by Method 8040, and total petroleum hydrocarbons (TPH) by Method ASTM D-3328-78,

PRESENTATION OF RESULTS

As discussed in previous Wauleco Groundwater Monitoring Reports, changes in groundwater level elevations at the Wauleco site influence dissolved contaminant concentrations and apparent product thickness. Generally, periods of high water levels at the site are followed by observed increases in groundwater contaminant concentrations. During periods of high water levels, groundwater comes into contact with soils above the average water table, which have been contaminated by earlier high water events. High groundwater levels also tend to reduce apparent product thickness and distribution, and reduce product recovery. Generally, as groundwater levels increase, apparent product thickness will decrease, and as water levels decline, apparent product thickness will increase. When water levels are high, the non-aqueous phase product is trapped in the aquifer soil pore spaces, as water levels decline, the product coalesces as free product on the water table.

As shown in Figure 1, average water levels at the site declined markedly following the startup of the eleven new extraction wells in the fall of 1998. Historically low water levels were achieved from December 1998 to April 1999. Increased infiltration due to spring precipitation caused water levels to rise again in May through August. Water levels declined to an historic low during September 1999. Figures 3 and 4 show water table elevations from each well for January and June 1999 respectively; Figures 5 and 6 show water table contours for the same periods. The 1,160 ft (MSL) contour lines on Figures 5 and 6 show the combined cone of depression around the extraction well area. As shown in these figures and Table 3, the area within the combined cone of depression decreased from January to June 1999, and upgradient groundwater elevations increased during the same period. These observations also indicate a period of increased groundwater recharge during mid-1999.

Apparent product thickness during January and June 1999 are shown on Figures 7 and 8 respectively. Apparent product thickness represents a measurable thickness of product which has moved into a monitoring well, but it does not necessarily reflect the actual thickness of free product above the water table. The extent of product appears larger in June 1999 (Figure 8) than in January 1999 (Figure 7), primarily due to measurable product at well W40 to the southeast, and wells W2 and W68A to the north. Similar shifts in product extent have been observed in previous years, and may be the result of seasonal changes in infiltration pathways. While small fluctuations occur along the perimeter area of the measurable free product, the general extent of apparent free product has remained stable since at least 1994.

The relationship between product recovery and groundwater levels at the site is depicted in Figure 2. Product recovery for 1999 totaled 37,500 gal compared to 12,091 gal during 1998, more than a three-fold increase. The majority of this increase may be attributed to the additional extraction wells, which contributed to historically low water levels in early 1999, and historically high product recovery during the same period. While product recovery

decreased after April 1999, water level readings from late 1999 indicate product recovery is likely to rebound during the winter months.

In addition, to product recovery, PCP is also removed through water treatment in the FBR system. During 1999, a total of 19,245,315 gal of water was treated through the FBR system. The average PCP concentration of the influent water was 15,883 ug/L which translates to 2,550 lb of PCP treated per year or, assuming 5% PCP in the original product formulation, an equivalent of 7,584 gal of product removal.

A summary of the analytical results for each monitoring well location is provided in Appendix A. Time trend graphs for PCP and chloride are provided in Appendix B. Isoconcentration maps for PCP, benzene, xylenes, trichloroethylene (TCE), naphthalene, total petroleum hydrocarbons (TPH), and chloride concentrations are provided in Figures 9 through 15.

With the exception of PCP and chloride, the results for the June 1999 samples generally indicate improving groundwater quality downgradient of the site. Isoconcentration maps, as depicted in Figures 9 through 15 and compared to previous monitoring events, indicate the extent of Wisconsin Administrative Code, Chapter NR 140 (NR 140) Enforcement Standard (ES) and Preventive Action Limit (PAL) exceedances have decreased during the past year. Following is a summary of changes/trends in specific contaminant concentrations since the 1998 Annual Report:

- **PCP** – Overall PCP concentrations in June 1999 were similar to June 1998, with increases noted in some wells and decreases in others. The majority of increases occurred in the downgradient southeasterly wells, near the edge of the plume. PCP concentrations at all wells were within historic levels, with the exception of well W01A, located just west of the site, and W12, located near the southeast edge of the plume (see PCP time trend graphs in Appendix B1).

- **Benzene** - The extent of benzene concentrations above the 0.5 ug/L contour (equal to the NR 140 PAL) decreased remarkably during the past year. Benzene was only detected in one monitoring well in June 1999, W26 at 4 ug/L (see Figure 10).

- **Total Xylenes** – The area within the total xylenes isoconcentrations contour of 124 ug/L (the NR 140 PAL) decreased during the past year. This decrease was most apparent to the northeast of the site (see Figure 11).

- **Trichloroethylene** - The areal extent for TCE concentrations above 5 ug/L (the NR 140 ES) during the June 1999 sampling is smaller than in previous sampling rounds. TCE did not exceed the ES in any wells except W25 and W26 (see Figure 12).

- **Naphthalene** – When compared to 1998, 1999 naphthalene concentrations decreased throughout the site, except at W11. The extent of the 100 ug/L naphthalene isoconcentration contour was limited to a small area near W10A in 1999 (see Figure 13).

- **TPH** - The areal extent of total petroleum hydrocarbon (TPH) concentrations above 1.0 mg/L decreased from 1998 to 1999 as well. The decrease was mostly due to decreased TPH concentrations at W10A and W26, downgradient of the site (see Figure 14).

- **Chloride** – As in previous years, chloride concentrations detected in groundwater appear to be influenced by other potential sources, such as road salt use in the area. The chloride isoconcentration contour is left open to the southwest of the site (see Figure 15).

SUMMARY AND CONCLUSIONS

The June 1999 sampling event represents the 24th round of groundwater sampling conducted under the Wauleco Groundwater Monitoring Plan (GMP). The first sampling event conducted under the GMP occurred in February 1992, although, routine groundwater sampling at selected wells had been ongoing since 1987. Based on the amount of data collected at this site, the groundwater sampling frequency was reduced from a quarterly program to a semi-annual program beginning in 1997.

As described in previous groundwater monitoring reports, changes in groundwater elevations at the site influence dissolved contaminant concentrations in groundwater samples, and the apparent product thickness observed in monitoring wells. The average water levels at the site reached several historic lows during the past year due to the effects of eleven additional extraction wells. This extended the radius of influence of the extraction system and increased product removal rates significantly.

Enhanced product removal rates, as well as decreased dissolved-phase concentrations in the source area are likely reducing the amount of contaminants traveling downgradient. Since the magnitude of the source has decreased, natural attenuation mechanisms are more likely to decrease contaminant concentrations downgradient, especially for compounds amenable to in-situ biological degradation, such as benzene, xylenes, naphthalene, and other petroleum compounds. Concentrations of these compounds have decreased in the downgradient portions of the plume during 1999, indicating natural attenuation is occurring.

PHL/phl/vlr/DJB
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1242057.05160101-MAD-1

TABLE 1

GROUNDWATER MONITORING PROGRAM
WAULECO, INC.
WAUSAU, WISCONSIN

Well Location	Semi-Annual	Annual
W1A	W	S
W2	W	S
W3A	W	S
W3B		S
W6R	W	S
W8	W	S
W9		S
W10A		S
W10B		S
W11		S
W12		S
W13	W	S
W14		S
W16		S
W17	W	S
W18		S
W19	W	S
W21		S
W22	W	S
W25	W	S
W26	W	S
W27		S
W28		S
W29		S
W32		S
W33	W	S
W36	W	S
W39	W	S
W40	W	S
W41	W	S
W69	W	S

Notes:
W = Designates well locations to be sampled during the winter sampling round and analyzed for:
phenolic compounds, mercury, chloride, nitrite + nitrate, ammonia, 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, volatile organic compounds plus naphthalene, chloride, nitrite + nitrate, ammonia, field pH, and field specific conductance.

TABLE 2

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

Well Location	January 1999	June 1999
W1A	X	X
W2	X	Product
W3A	Product	Product
W3B		X
W6R	Product	Product
W8	X	X
W9		X
W10A		X
W10B		X
W11		X
W12		X
W13	X	X
W14		X
W16		X
W17	Product	Product
W18		X
W19	Product	Product
W21		X
W22	X	Product
W25	X	X
W26	X	X
W27		X
W28		X
W29		X
W32		X
W33	Product	Product
W36	X	X
W39	Product	X
W40	Under Snow	Product
W41	X	X
W69	Product	Product

Notes:
January 1999 (Winter Sampling Round) samples collected on January 26 and 27, 1999.
June 1999 (Summer Sampling Round) samples collected on June 6, 7, 8, and 9, 1999.

TABLE 3

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	January 27 1999		June 08 1999	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	-----	Frozen	0.08	1162.16
PW02	-----	Frozen	-----	1162.23
PW03	-----	1161.52	-----	1162.32
PW3S	-----	1160.29	0.19	1159.56
PW04	2.20	1153.80	-----	1161.12
PW05	0.50	1155.93	0.50	1153.62
PW06	0.44	1161.30	0.45	1161.31
PW07	-----	1155.40	-----	1157.72
PW08	0.27	1160.05	0.40	1160.38
PW9I	-----	1160.96	-----	-----
PW9O	-----	1160.24	-----	1162.27
PW10	1.55	1157.66	-----	1160.87
PW11	0.21	1158.14	0.22	1160.55
PW12	0.30	1161.31	0.38	1162.23
PW13	0.70	1157.30	0.92	1160.10
PW14	0.21	1161.26	0.29	1160.41
PW15	0.04	1160.14	-----	1153.87
PW16	1.00	1158.28	0.82	1159.18
PW17	0.30	1157.84	0.14	1156.94
PW18	0.25	1158.94	0.31	1159.69
PW19	1.05	1158.57	0.82	1159.85
PW20	1.00	1158.92	0.83	1159.36
PW21	0.60	1159.39	0.68	1159.96
PW22	-----	1158.80	-----	1159.08
PW23	-----	1159.72	0.16	1158.64
PW24	1.00	1158.43	0.55	1158.88
PW25	2.10	1157.02	0.33	1158.60
PW26	1.00	1158.43	0.55	1158.88
PW27	2.10	1157.02	0.33	1158.60
P01	0.51	1159.65	1.09	1159.65
OW01	-----	Frozen	-----	1162.73
W01A	-----	1161.90	-----	1162.79
W01B	-----	1162.00	-----	1162.78
W02	-----	1161.35	0.49	1161.73
W03A	0.52	1159.75	0.48	1160.24
W03B	-----	1160.88	-----	1161.24
W04A	0.54	1160.47	0.19	1161.55
W04B	0.38	1160.61	0.17	1161.56
W05	0.61	1159.48	0.35	1160.35
W06R	0.13	1161.66	0.04	1162.70
W07	-----	Frozen	0.13	1162.22
W08	-----	1169.10	-----	1173.17
W09	-----	1161.38	-----	1162.34
W10A	-----	1160.74	-----	1160.87
W10B	-----	1160.77	-----	1160.90
W11	-----	1160.73	-----	1160.81
W12	-----	1160.41	-----	1160.48
W13	-----	1160.72	-----	1161.25

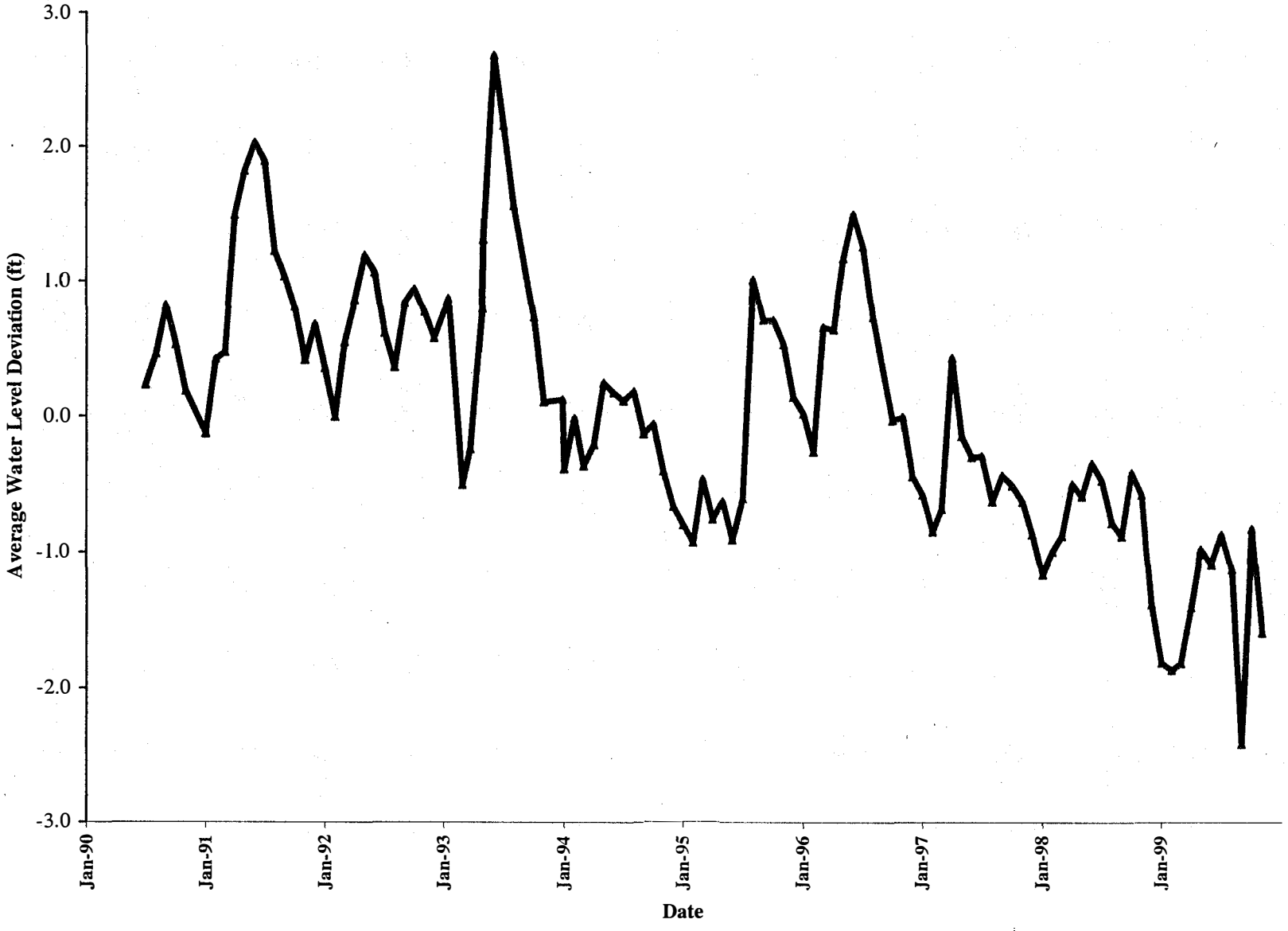
TABLE 3

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	January 27 1999		June 08 1999	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W14	-----	1159.46	-----	1159.64
W16	-----	1161.03	-----	1161.60
W17	0.64	1159.77	0.36	1160.34
W18	-----	1160.71	-----	1160.87
W19	0.14	1161.25	0.05	1162.14
W21	-----	1160.65	-----	1160.76
W22	-----	1160.37	0.47	1160.58
W23	-----	1160.57	-----	1160.80
W24A	-----	1160.57	-----	1160.78
W25	-----	1161.88	-----	1162.86
W26	-----	1160.74	-----	1160.82
W27	-----	Frozen	-----	1161.31
W28	-----	1160.74	-----	1160.87
W29	-----	1160.82	-----	1160.74
W30	0.99	1159.11	0.61	1160.01
W31	-----	1160.68	-----	1160.84
W32	-----	1160.68	-----	1160.84
W33	0.22	1160.47	0.14	1161.26
W34	0.45	1156.86	0.21	1157.78
W35	0.56	1159.59	0.66	1160.24
W36	-----	1160.60	-----	1161.53
W39	0.14	1160.61	-----	1161.53
W40	-----	Frozen	0.83	1160.41
W41	-----	1161.05	-----	1161.82
W42	0.25	1161.06	0.14	1161.99
W44	0.44	1159.93	0.37	1160.49
W45	0.12	1160.19	0.11	1160.82
W46	1.10	1158.92	1.11	1159.61
W47	1.41	1155.02	0.06	1157.33
W48	0.35	1156.31	0.07	1156.54
W49	0.87	1156.25	0.14	1157.08
W66	-----	1161.83	-----	1162.61
W67	-----	1161.81	-----	1162.67
W68A	-----	1161.30	0.25	1162.41
W68B	-----	1161.50	-----	1162.54
W69	0.86	1159.88	1.06	1160.40
W70B	-----	1161.47	-----	1162.21
River	-----	No Gage	-----	No Gage

Notes:
ft msl = feet mean sea level

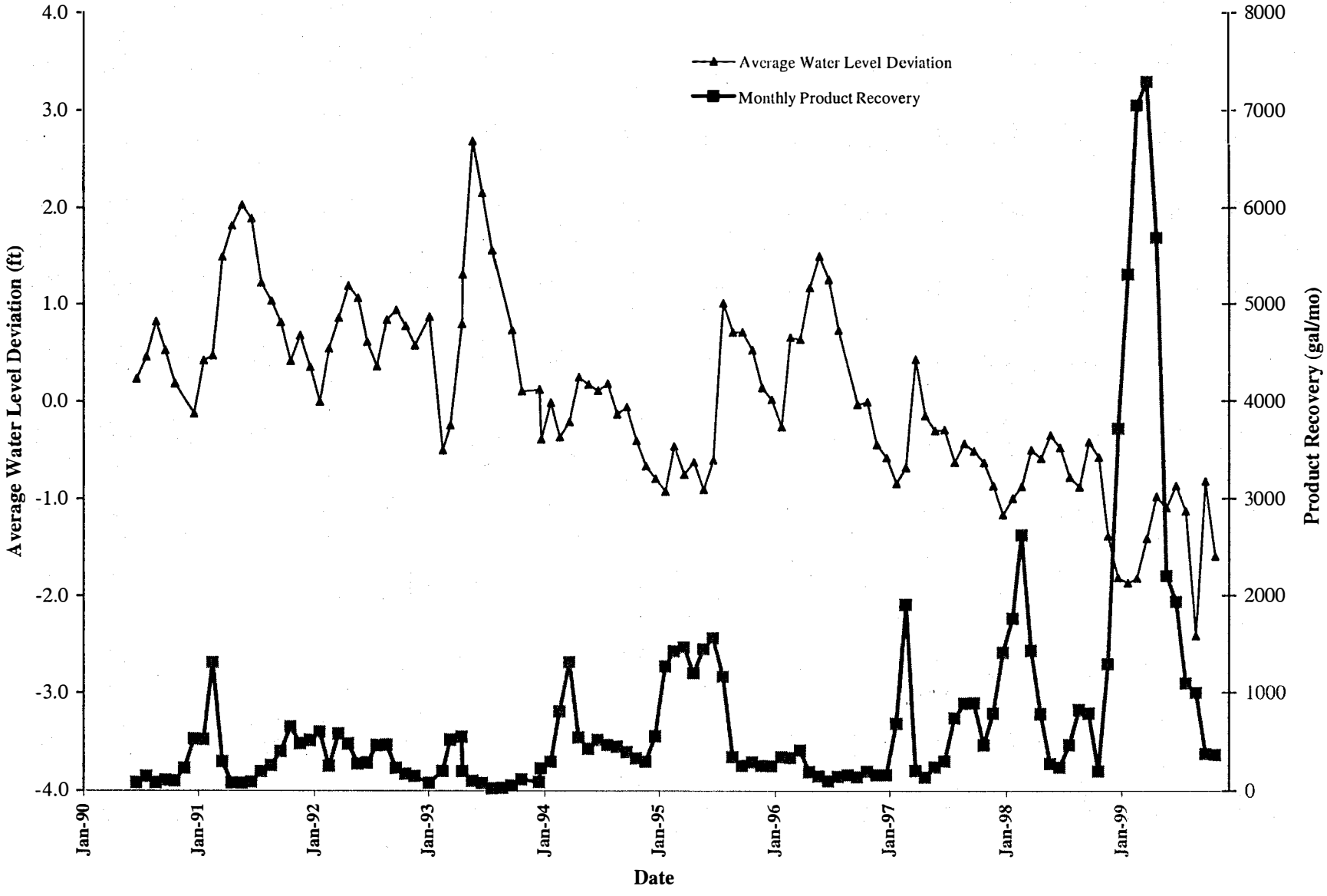
FIGURE 1
Average Water Level Deviation



M:\jobs\Wauleco\onm1999\monthly kjq(AnnualFig1)

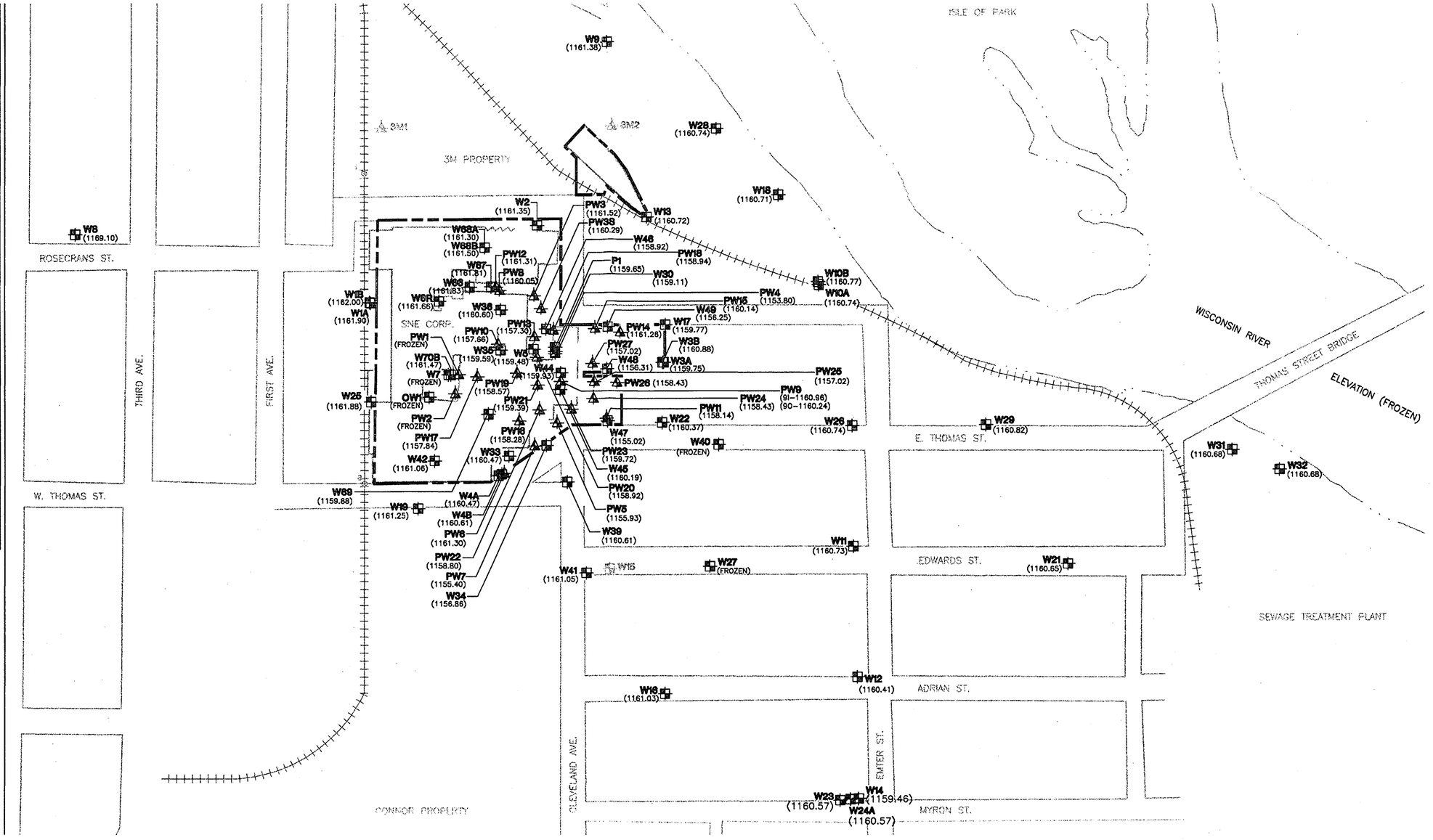
1/19/00

FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



M:\jobs\Wauleco\onm1999\monthly kjq(FIG2wtlvl)

1/19/00



LEGEND

- W9 (1161.38) — MONITORING WELL LOCATION, NUMBER, AND WATER TABLE ELEVATION
- PW8 (1155.93) — EXTRACTION WELL LOCATION, NUMBER, AND WATER TABLE ELEVATION
- APPROXIMATE PROPERTY LINE

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250–1 OF THE SEPTEMBER 1992 SEMI–ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. WATER TABLE ELEVATIONS OBTAINED BY MONTGOMERY WATSON ON JANUARY 27, 1999.

north

0 200 400

SCALE IN FEET

Figure 3

QUALITY CONTROL			
Graphic Standards	DJF	1–25–00	Technical Review
Lead Professional	PHL	1–25–00	PM Review
			Management Review
			Other

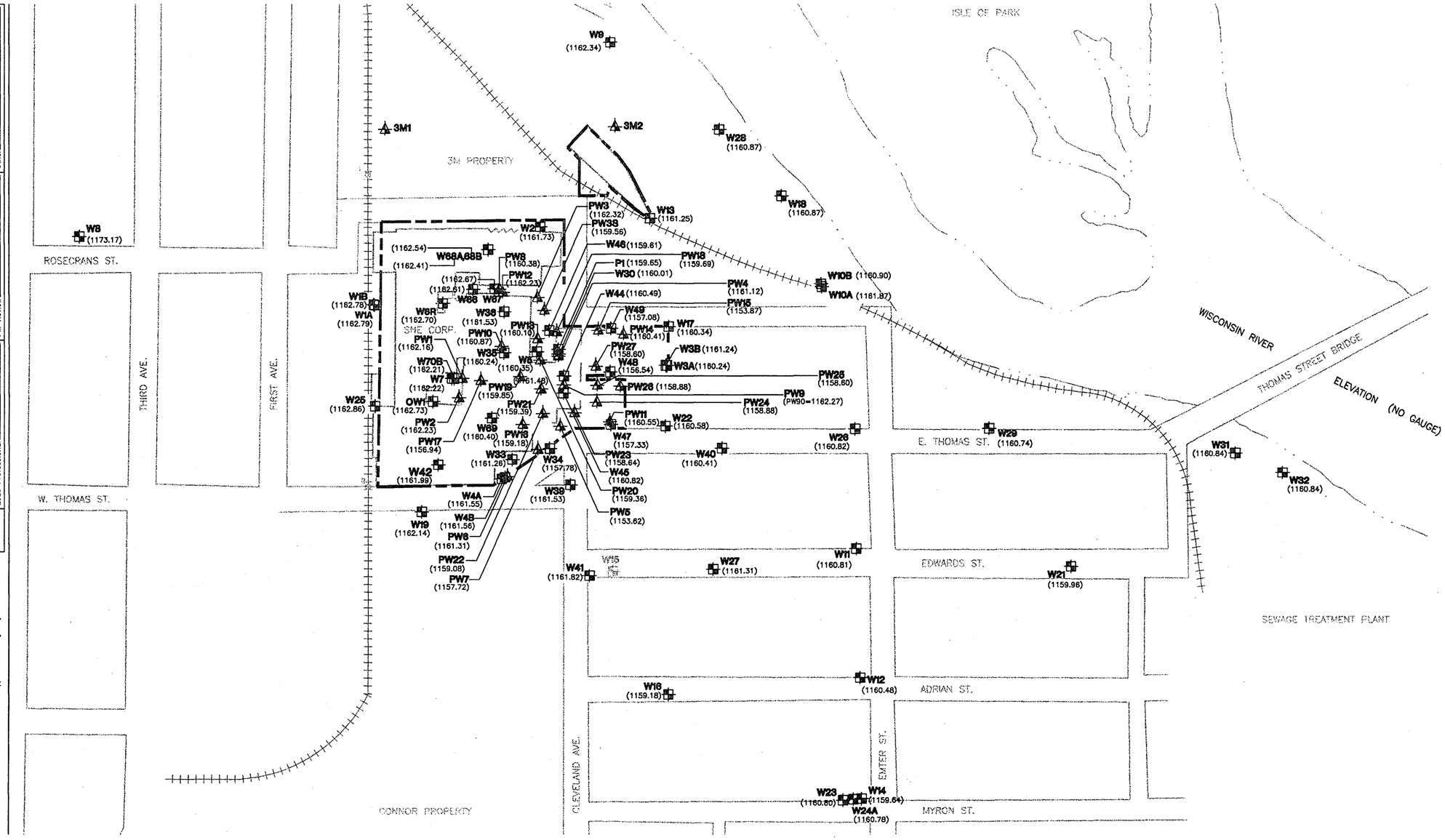
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Developed By PHL | Drawn By LCL
Approved By DJB | Date 2–21–00
Reference 1242057.04\160101–B27
Revisions

WATER TABLE ELEVATIONS (JANUARY 27, 1999)
ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
1242057
05160101 B1

MONTGOMERY WATSON



LEGEND

- W8 (1173.17) — MONITORING WELL LOCATION, NUMBER, AND WATER TABLE ELEVATION
- PW8 — EXTRACTION WELL LOCATION, NUMBER, AND WATER TABLE ELEVATION
- APPROXIMATE PROPERTY LINE

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. WATER TABLE ELEVATIONS OBTAINED BY MONTGOMERY WATSON ON JUNE 8, 1999.

north

0 200 400

SCALE IN FEET

Figure 4

QUALITY CONTROL	Graphic Standards	DLF	1-25-00
	Lead Professional	PHL	1-25-00
	Technical Review	DJB	1-25-00
	PM Review		
	Management Review		
	Other		

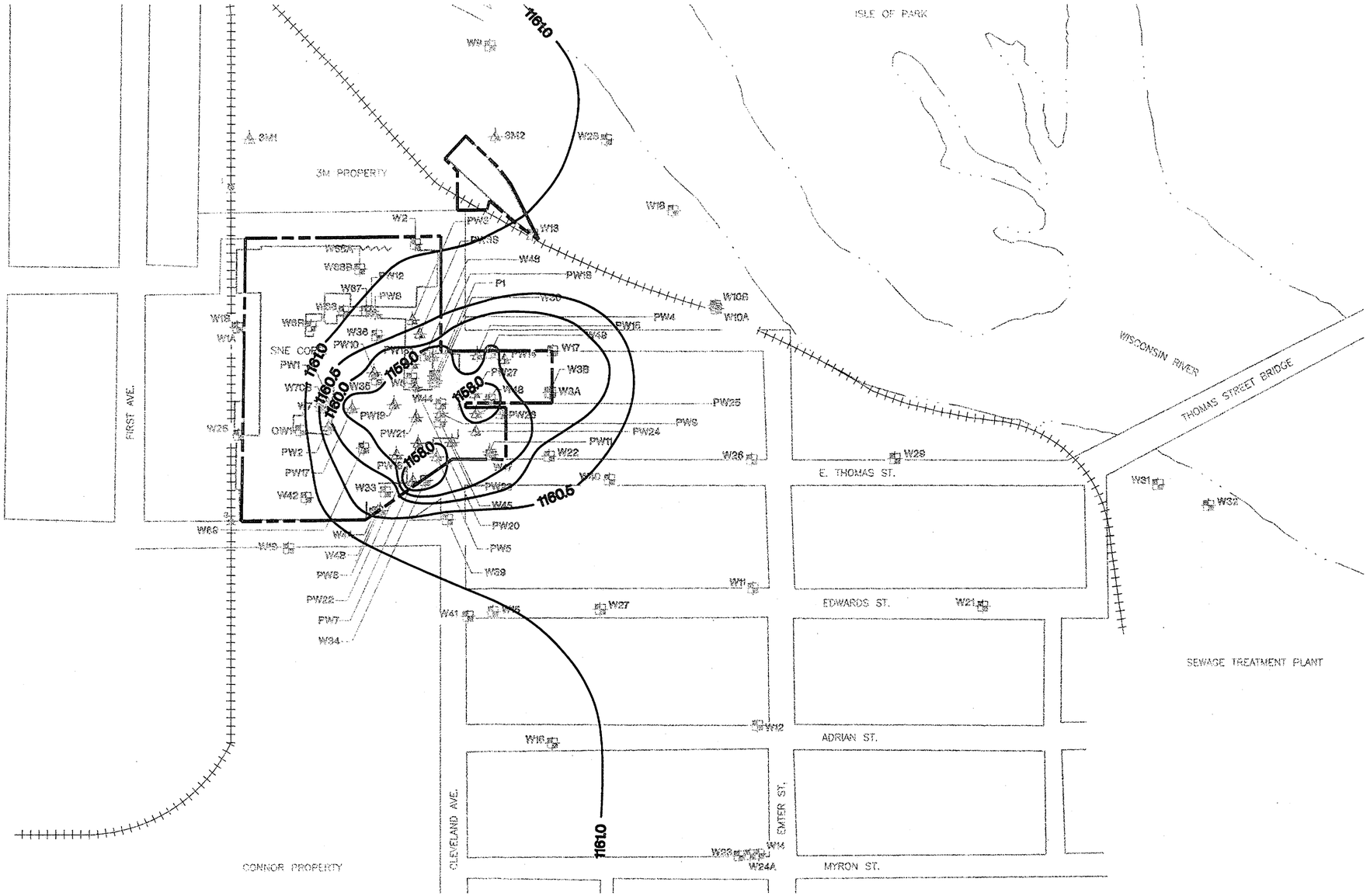
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Drawn By LCL
Approved By DJB
Date 2-21-00
Reference 1242057.04\160101-B13
Revisions

WATER TABLE ELEVATIONS (JUNE 8,1999)
ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
1242057
05160101 B2

MONTGOMERY WATSON



LEGEND

- W3 — MONITORING WELL LOCATION AND NUMBER
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 1160.5 — WATER TABLE ELEVATION CONTOUR

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. WATER TABLE ELEVATIONS OBTAINED BY MONTGOMERY WATSON ON JANUARY 27, 1999.

north

0 200 400

SCALE IN FEET

Figure 6

QUALITY CONTROL	Graphic Standards	DLF	1-25-00	Technical Review	DJB	1-25-00	Management Review	
	Lead Professional	PHL	1-25-00	PM Review			Other	

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Reference 1242057.04\160101-B14

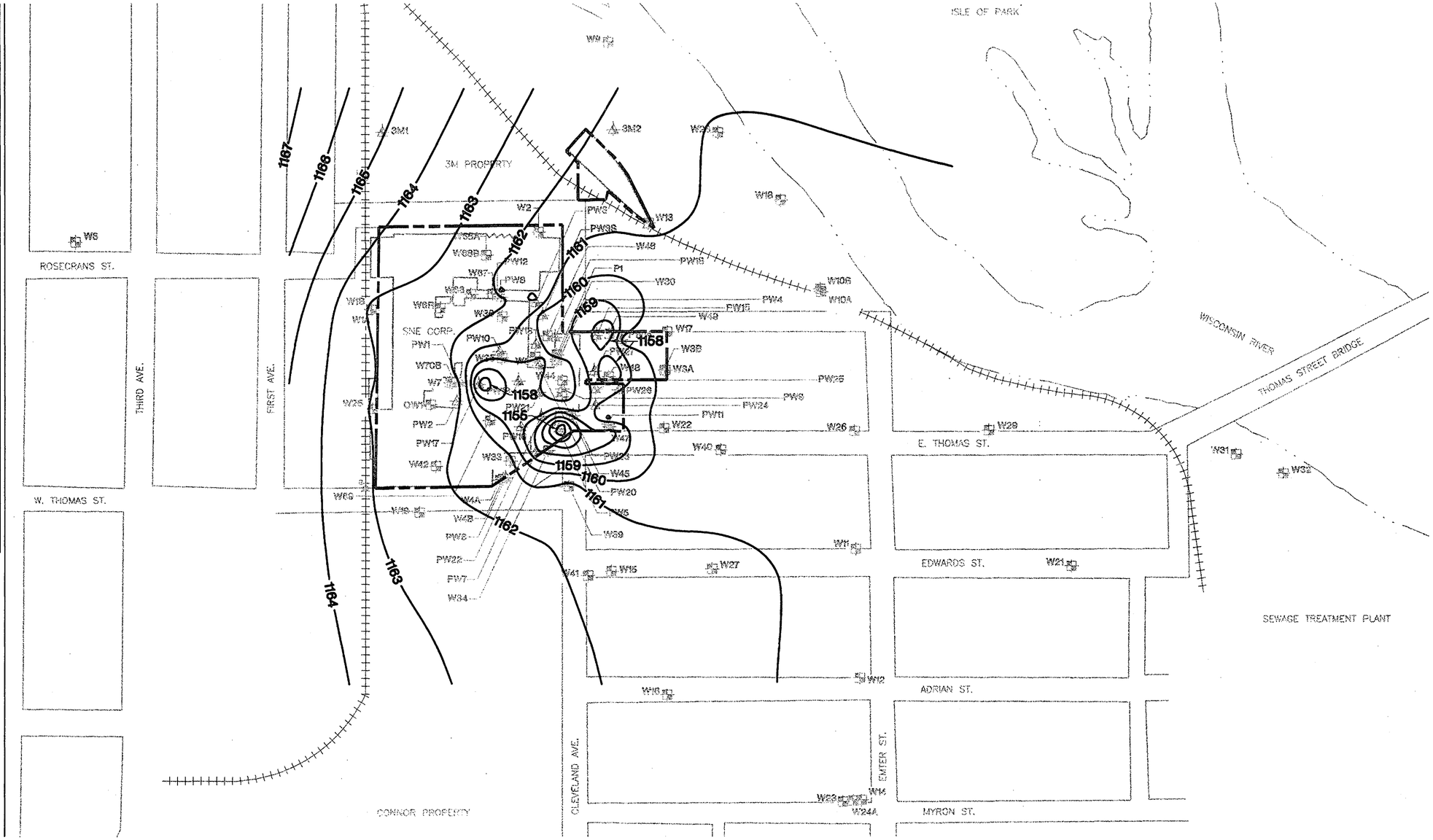
Revisions

WATER TABLE ELEVATIONS (JANUARY 27, 1999)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, 29N, R8E
WAUSAU, WISCONSIN

Drawing Number
1242057
05160101 B3

MONTGOMERY WATSON



LEGEND

- W3 — MONITORING WELL LOCATION AND NUMBER
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 1160 — WATER TABLE CONTOUR (CONTOUR INTERVAL: 1 FT)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. WATER TABLE ELEVATIONS OBTAINED BY MONTGOMERY WATSON ON JUNE 8, 1999.

north

0 200 400

SCALE IN FEET

Figure 6

WATER TABLE MAP (JUNE 8, 1999)
ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

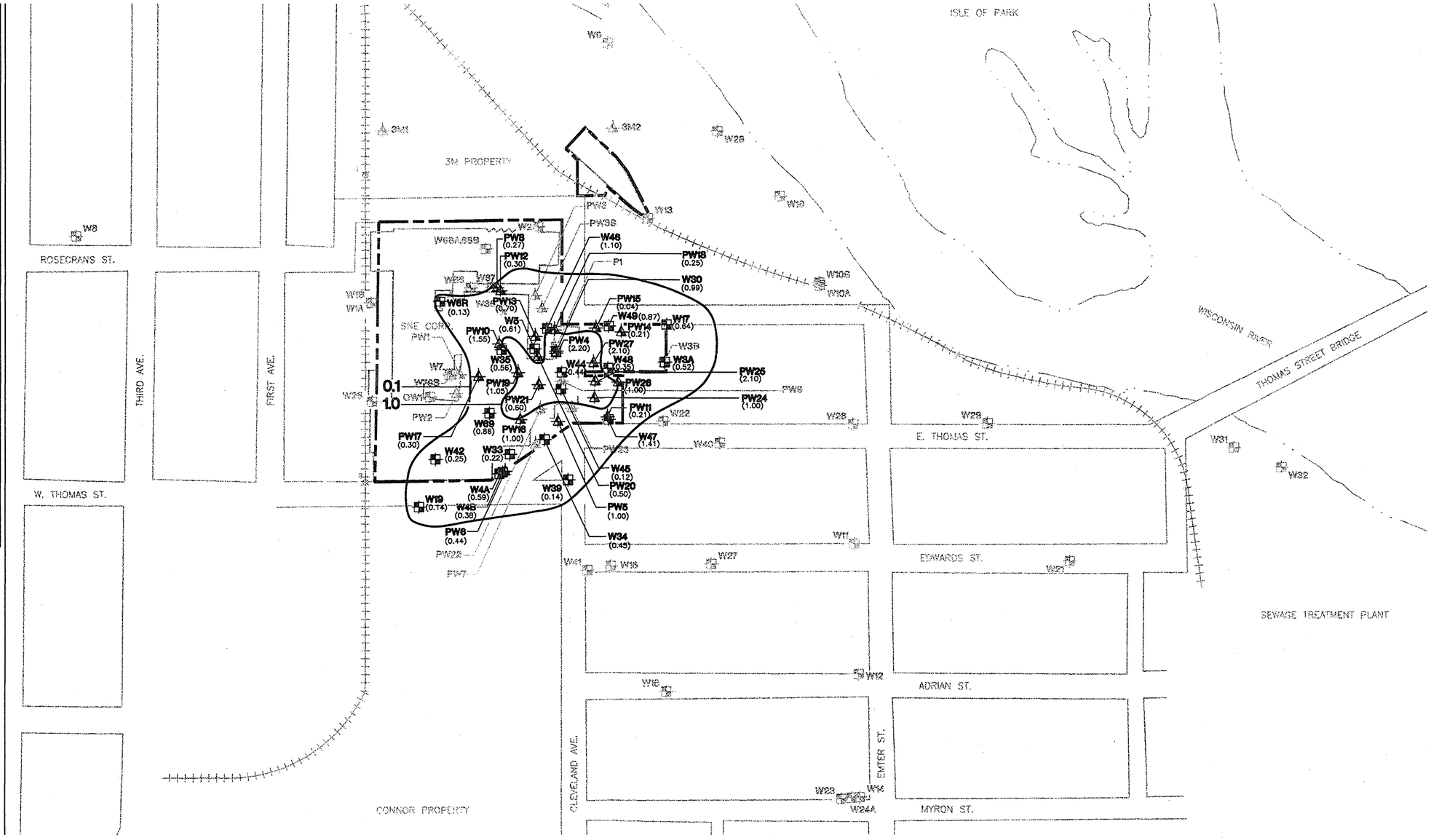
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Reference 1242057.04180101-B1
Revisions

Drawing Number
1242057
05160101 B4

MONTGOMERY WATSON

QUALITY CONTROL
Graphic Standards DLF 1-25-00
Lead Professional PHL 1-25-00
Technical Review DJB 1-25-00
PM Review
Management Review
Other

This document has been developed for a specific application and may not be used without the written approval of Montgomery Watson.



LEGEND

- W5 (0.40) — MONITORING WELL LOCATION, NUMBER AND PRODUCT THICKNESS
- PW6 (0.30) — EXTRACTION WELL LOCATION, NUMBER AND PRODUCT THICKNESS
- APPROXIMATE PROPERTY LINE
- 1.0 — APPARENT PRODUCT THICKNESS CONTOUR

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. PRODUCT THICKNESS ELEVATIONS OBTAINED BY MONTGOMERY WATSON ON JANUARY 27, 1999.

north

0 200 400

SCALE IN FEET

Figure 7

QUALITY CONTROL			
Graphic Standards	DLF	1-25-00	Management Review
Lead Professional	PHL	1-25-00	Other
Technical Review	DJB	1-25-00	
PM Review			

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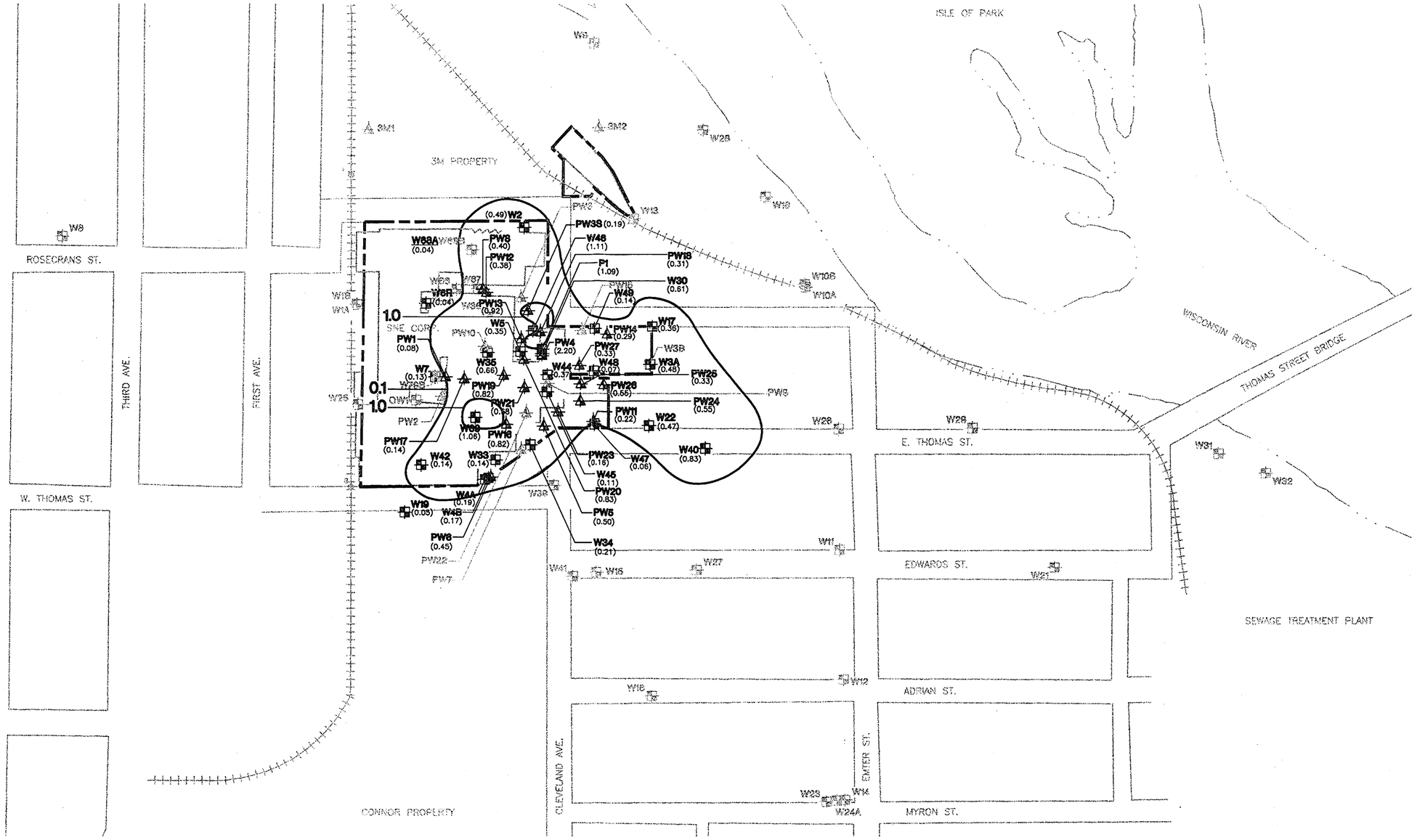
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PRODUCT THICKNESS MAP (JANUARY 27, 1999)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
1242057
05160101 B5

MONTGOMERY WATSON



LEGEND

- W5 (0.50) — MONITORING WELL LOCATION, NUMBER AND PRODUCT THICKNESS
- PW6 (0.45) — EXTRACTION WELL LOCATION, NUMBER AND PRODUCT THICKNESS
- APPROXIMATE PROPERTY LINE
- 1.0 — APPARENT PRODUCT THICKNESS CONTOUR

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. PRODUCT THICKNESS ELEVATIONS OBTAINED BY MONTGOMERY WATSON ON JUNE 8, 1999.

north

0 200 400

SCALE IN FEET

Figure 8

QUALITY CONTROL	Graphic Standards	DLF	1-25-00	Technical Review	DJB	1-25-00	Management Review	
	Lead Professional	PHL	1-25-00	PM Review			Other	

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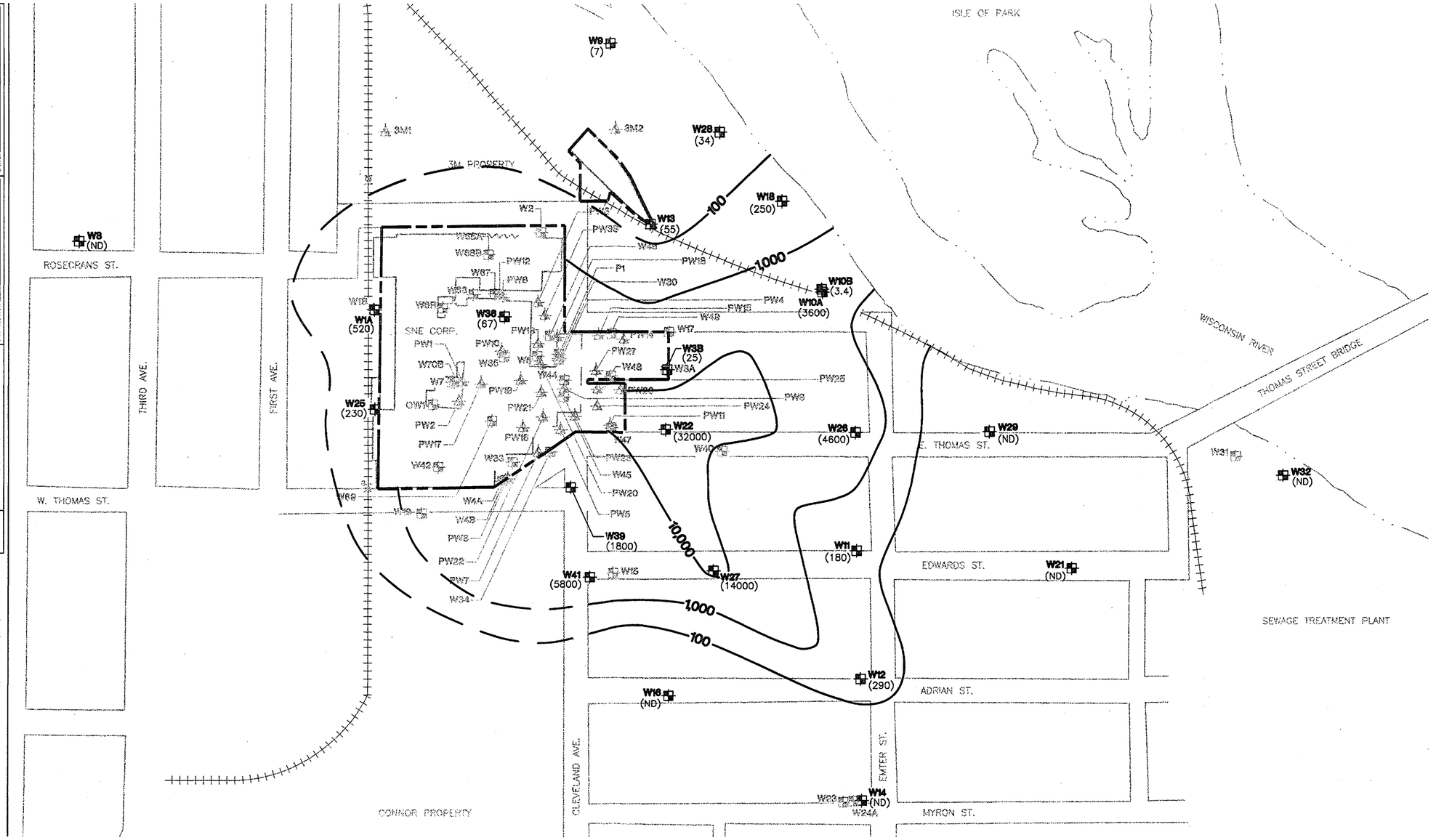
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Reference 1242057.04160101-B18
Revisions

PRODUCT THICKNESS MAP (JUNE 8, 1999)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, T29N, R8E
WAUSAU, WISCONSIN

Drawing Number
1242057
05160101 B6

MONTGOMERY WATSON



LEGEND

- W29 (ND) — MONITORING WELL LOCATION, NUMBER AND PCP CONCENTRATION (ug/L)
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 100 — PCP ISOCONCENTRATION CONTOUR (ug/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JUNE 1999.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC.

north

0 200 400

SCALE IN FEET

Figure 9

QUALITY CONTROL

Graphic Standards	DLF	1-25-00	Management Review
Lead Professional	PHL	1-25-00	Other

Technical Review	DJB	1-25-00	
PM Review			

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Reference 1242057.04180101-B1

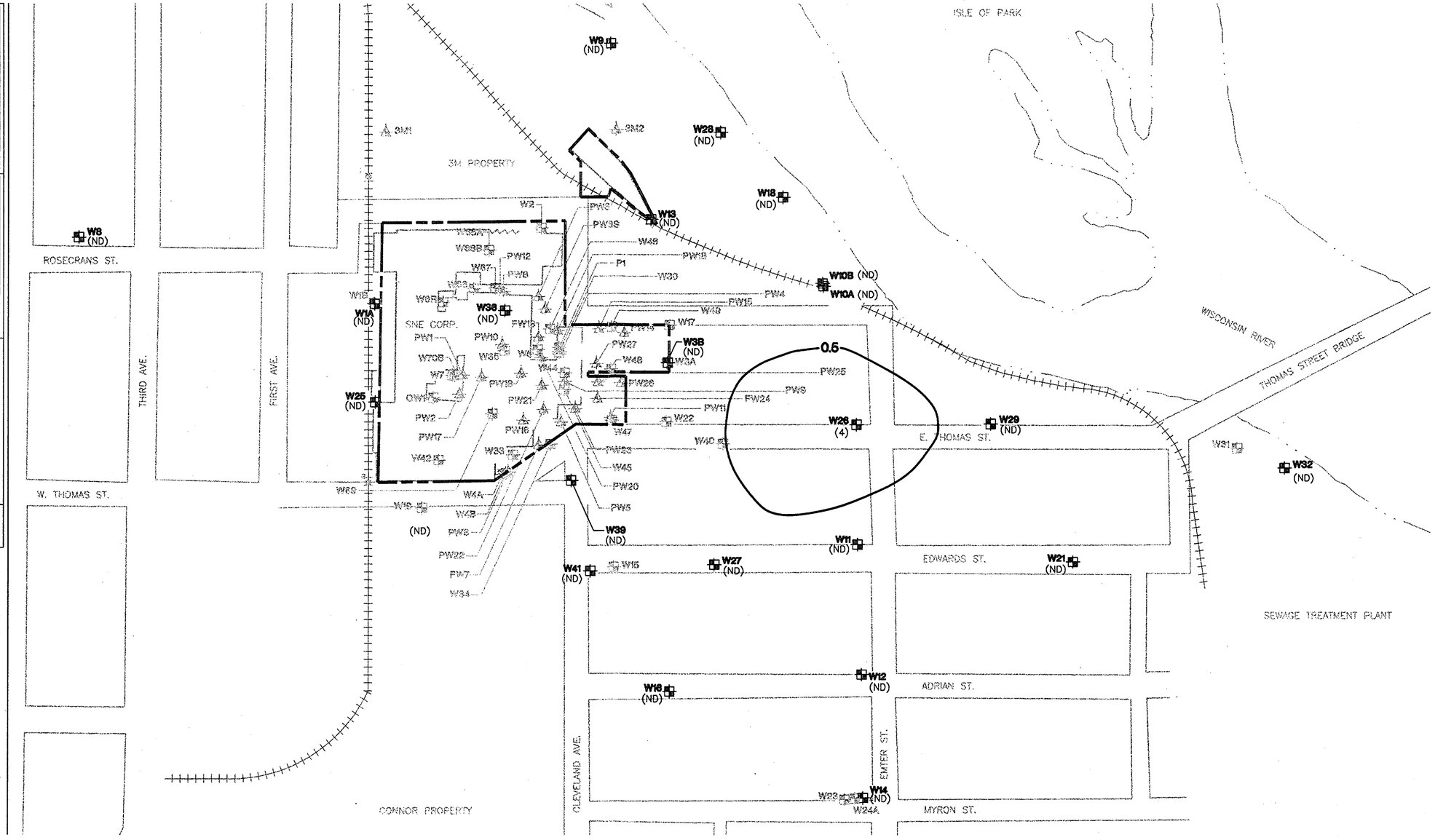
Revisions

PCP ISOCONCENTRATION MAP (JUNE 1999)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, 29N, R8E
WAUSAU, WISCONSIN

Drawing Number
1242057
05160101 B7

MONTGOMERY WATSON



LEGEND

- W9 (ND) — MONITORING WELL LOCATION, NUMBER AND BENZENE CONCENTRATION (ug/L)
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 0.5 — BENZENE ISOCONCENTRATION CONTOUR (ug/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JUNE 1999.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC.

north

0 200 400

SCALE IN FEET

Figure 10

QUALITY CONTROL	Graphic Standards	DJF	1-25-00	Technical Review	DJB	1-25-00	Management Review
	Lead Professional	PHL	1-25-00	PM Review			Other

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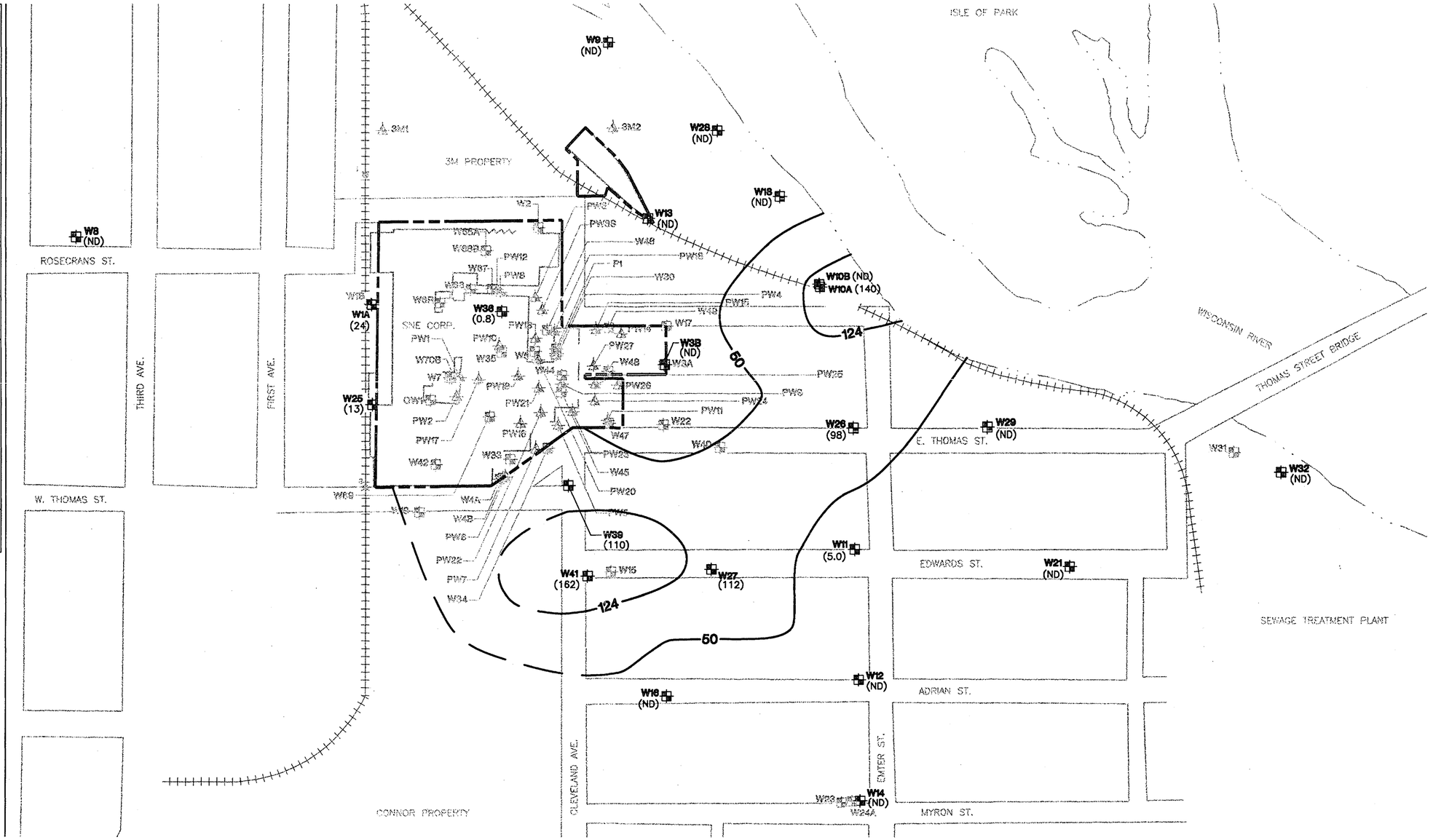
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Approved By DJB | Date 2-21-00
Reference 1242057.04180101-B1
Revisions

BENZENE ISOCONCENTRATION MAP (JUNE 1999)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, 29N, R8E
WAUSAU, WISCONSIN

Drawing Number
1242057
05160101 B8

MONTGOMERY WATSON



LEGEND

- W29 (ND) — MONITORING WELL LOCATION, NUMBER AND XYLENE CONCENTRATION (ug/L)
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 124 — XYLENE ISOCONCENTRATION CONTOUR (ug/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JUNE 1999.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC.

north

0 200 400

SCALE IN FEET

Figure 11

QUALITY CONTROL

Graphic Standards	DJF	1-25-00
Lead Professional	PHL	1-25-00
Technical Review	DJB	1-25-00
PM Review		
Management Review		
Other		

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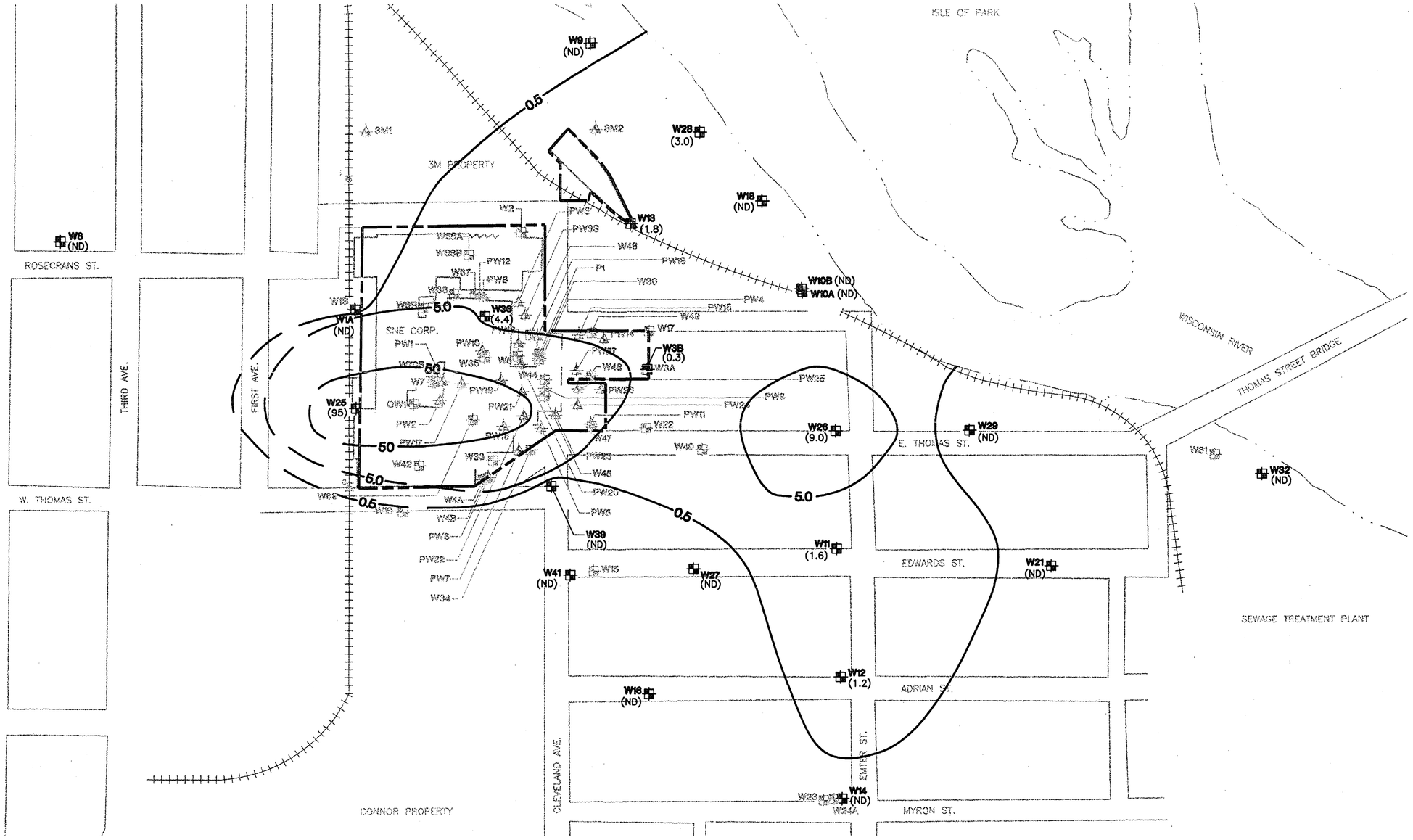
Developed By PHL | Drawn By LCL
Approved By DJB | Date 2-21-00
Reference 1242057.04180101-B1
Revisions

XYLENE ISOCONCENTRATION MAP (JUNE 1999)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, 29N, R8E
WAUSAU, WISCONSIN

Drawing Number
1242057
05160101 B9

MONTGOMERY WATSON



LEGEND

- W28 (ND) — MONITORING WELL LOCATION, NUMBER AND TRICHLOROETHYLENE CONCENTRATION (ug/L)
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 5.0 — TRICHLOROETHYLENE ISOCONCENTRATION CONTOUR (ug/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JUNE 1999.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC.

north

0 200 400

SCALE IN FEET

Figure 12

QUALITY CONTROL

Graphic Standards	DJF	1-25-00	Technical Review	DJB	1-25-00
Lead Professional	PHL	1-25-00	PM Review		
			Management Review		
			Other		

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Developed By PHL
Approved By DJB
Reference 1242057.04180101-B1
Revisions

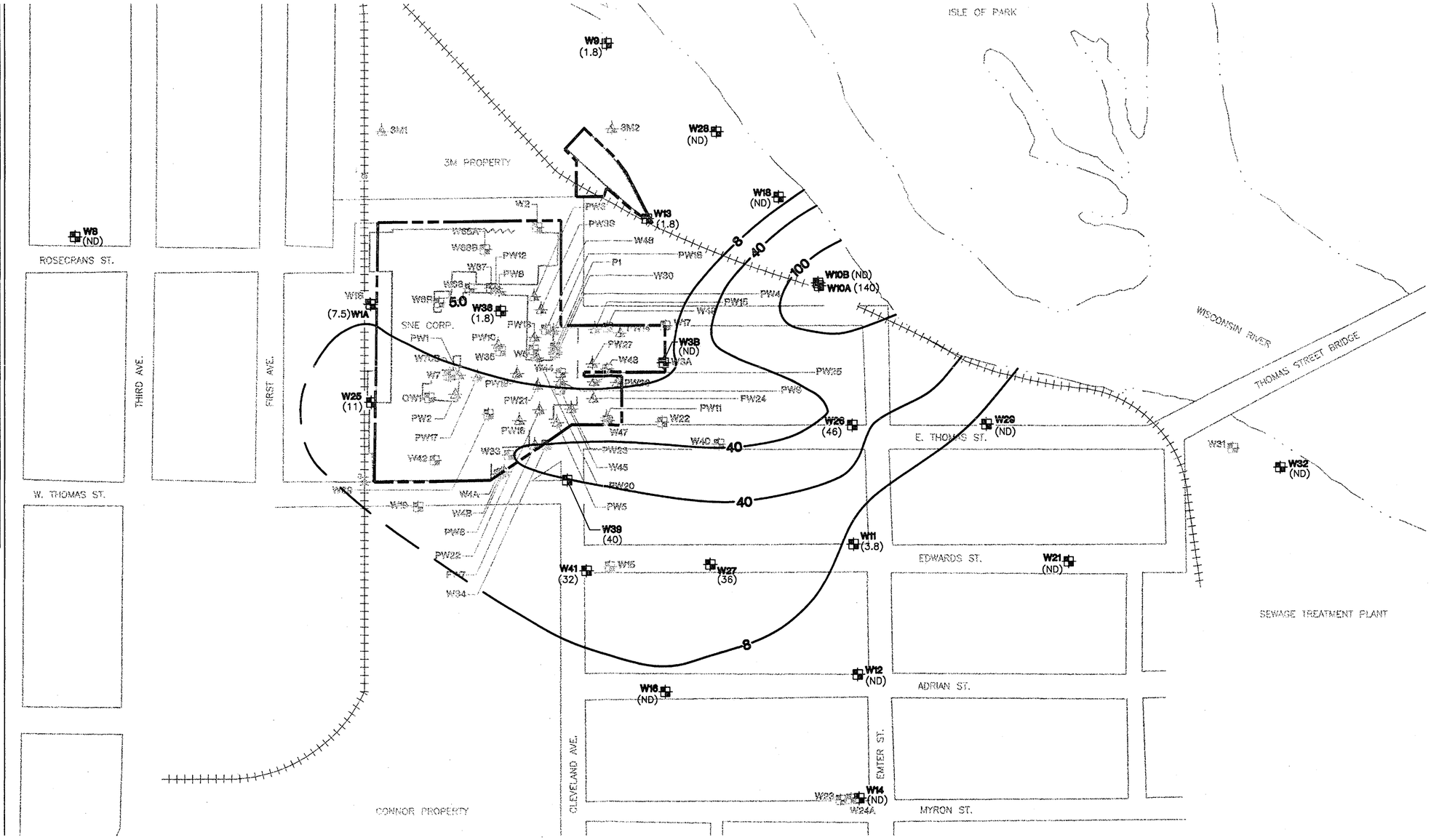
Drawn By LCL
Date 2-21-00

TRICHLOROETHYLENE ISOCONCENTRATION MAP (JUNE 1999)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, 29N, R8E
WAUSAU, WISCONSIN

Drawing Number
1242057
05160101 B10

MONTGOMERY WATSON



LEGEND

- W29 (ND) — MONITORING WELL LOCATION, NUMBER AND NAPHTHALENE CONCENTRATION (ug/L)
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 100 — NAPHTHALENE ISOCONCENTRATION CONTOUR (ug/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JUNE 1999.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC.

north

0 200 400

SCALE IN FEET

Figure 13

QUALITY CONTROL

Graphic Standards	DJF	1-25-00	Technical Review
Lead Professional	PHL	1-25-00	PM Review
			Management Review
			Other

This document has been developed for a specific application and purpose and should not be used without the written approval of Montgomery Watson.

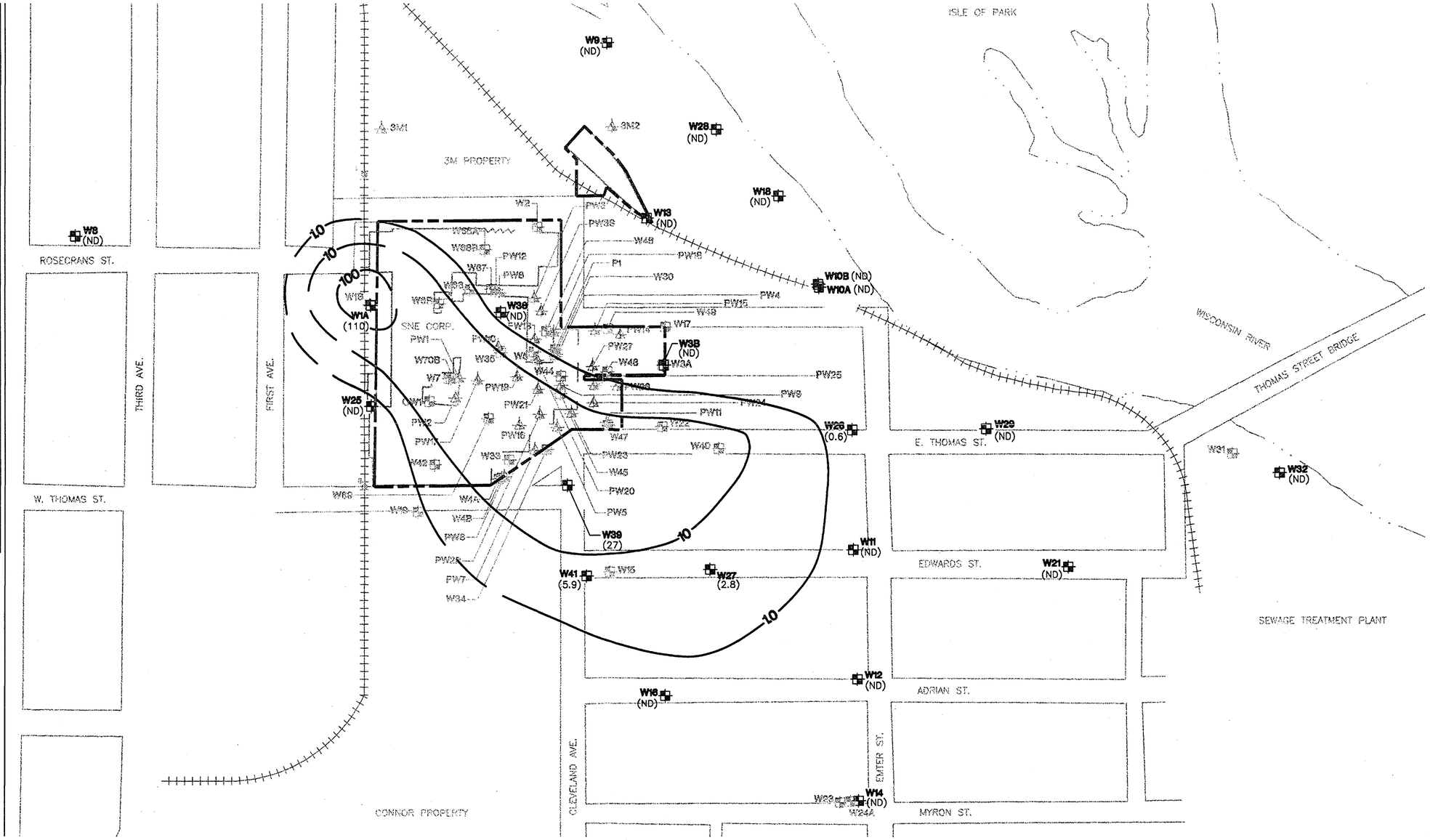
Developed By PHL
Drawn By LCL
Approved By DJB
Date 2-21-00
Reference 1242057.04180101-B1
Revisions

NAPHTHALENE ISOCONCENTRATION MAP (JUNE 1999)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, 29N, R8E
WAUSAU, WISCONSIN

Drawing Number
1242057
05160101 B11

MONTGOMERY WATSON



LEGEND

- W29 (ND) — MONITORING WELL LOCATION, NUMBER AND TPH CONCENTRATION (mg/L)
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 1.0 — TPH AS MINERAL SPIRITS ISOCONCENTRATION CONTOUR (mg/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JUNE 1999.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC.

north

0 200 400

SCALE IN FEET

Figure 14

QUALITY CONTROL
Graphic Standards DLF 1-25-00
Lead Professional PHL 1-25-00
Technical Review DJB 1-25-00
PM Review
Management Review
Other

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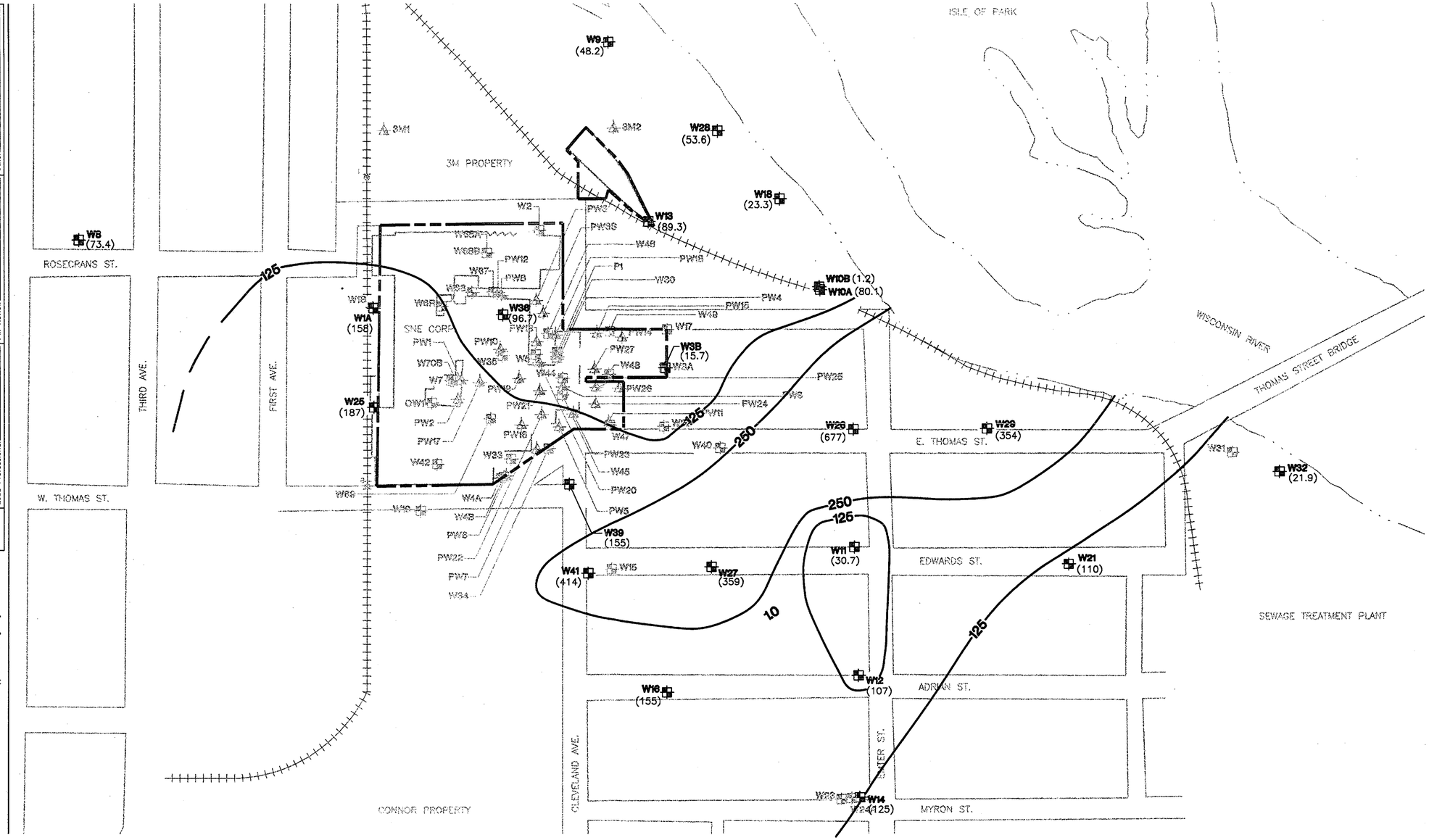
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Date 2-21-00
Reference 1242057.04\180101-B1
Revisions

TPH ISOCONCENTRATION MAP (JUNE 1999)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, 29N, R8E
WAUSAU, WISCONSIN

Drawing Number
1242057
05160101 B12

MONTGOMERY WATSON



LEGEND

- W28 (354) — MONITORING WELL LOCATION, NUMBER AND CHLORIDE CONCENTRATION (mg/L)
- PW5 — EXTRACTION WELL LOCATION AND NUMBER
- APPROXIMATE PROPERTY LINE
- 125 — CHLORIDE ISOCONCENTRATION CONTOUR (mg/L)

NOTES

1. BASE MAP DEVELOPED FROM DRAWING A107250-1 OF THE SEPTEMBER 1992 SEMI-ANNUAL GROUNDWATER MONITORING REPORT BY KEYSTONE ENVIRONMENTAL.
2. GROUNDWATER SAMPLES OBTAINED BY MONTGOMERY WATSON IN JUNE 1999.
3. CONCENTRATIONS OBTAINED FROM LABORATORY DATA BY COMMONWEALTH TECHNOLOGY, INC.

north

0 200 400

SCALE IN FEET

Figure 15

QUALITY CONTROL			
Graphic Standards	DJF	1-25-00	Technical Review DJB 1-25-00
Lead Professional	PHL	1-25-00	PM Review
			Management Review
			Other

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Reference 1242057.04180101-B1
Revisions

CHLORIDE ISOCONCENTRATION MAP (JUNE 1999)

ANNUAL GROUNDWATER MONITORING REPORT
WAULECO INC.
PART OF SECTION 35, 29N, R8E
WAUSAU, WISCONSIN

Drawing Number
1242057
05160101 **B13**

MONTGOMERY WATSON

A

ANALYTICAL RESULTS

A1 Indicators
A2 Phenolics
A3 Volatiles

A1

Indicators

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W01A

Parameter	Units	2/19/92	6/14/92	9/17/92	12/18/92	3/23/93	6/28/93	12/28/93	4/25/94	6/21/94	10/4/94	1/5/95	3/10/95
#2 Fuel Oil	mg/L												
#6 Fuel Oil	mg/L												
Chloride	mg/L				62.5	83	77	92	117	96	93	103	115
Gasoline	mg/L												
Kerosene	mg/L												
Mineral Spirits	mg/L												
Nitrogen, Ammonia	mg/L			<1	<1	0.24	0.11	<0.2	0.27	0.15	0.24	0.37	0.23
Nitrogen, Nitrate	mg/L				2.58								
Nitrogen, Nitrate + Nitrite	mg/L					2.22	2.18	2.86	1.36	1.62	2.3	1.69	2.2
Phosphorus, Phosphate	mg/L												
TRPH	ug/L	<630	<500	<500	11000	2500	2800	<1000		6000			
Sodium	ug/L				33000	36600							
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W01A

Parameter	Units	7/5/95	9/13/95	12/18/95	3/21/96	7/10/96	9/25/96	1/21/97	7/11/97	1/2/98	6/23/98	1/26/99	6/9/99
#2 Fuel Oil	mg/L	<0.25				<0.25							
#6 Fuel Oil	mg/L					<1							
Chloride	mg/L	136	80	147	134	75	97	118	89.4	161	110	245	158
Gasoline	mg/L	<0.25				<0.25							
Kerosene	mg/L	<0.25				<0.25							
Mineral Spirits	mg/L	0.38				0.95			49		33		110
Nitrogen, Ammonia	mg/L	0.17	0.36	0.2	0.4	0.16	<0.1	<0.1	<0.1	<0.1	<0.1		0.29
Nitrogen, Nitrate	mg/L												
Nitrogen, Nitrate + Nitrite	mg/L	2.77	1.61	2.61	2.7	2.22	2.26	2.14	2.14	2.03	2.1	3.09	1.98
Phosphorus, Phosphate	mg/L												
TRPH	ug/L												
Sodium	ug/L												
Mercury	ug/L										<0.2		

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W02												
Parameter	**Units**	**1/8/87**	**6/4/87**	**9/3/87**	**12/3/87**	**3/2/88**	**4/7/88**	**8/10/88**	**11/15/88**	**1/26/89**	**4/27/89**	**7/27/89**	**10/26/89**
#2 Fuel Oil	mg/L												
#6 Fuel Oil	mg/L												
Carbon, Total Organic	mg/L												
Chloride	mg/L												
Gasoline	mg/L												
Kerosene	mg/L												
Mineral Spirits	mg/L												
Nitrogen, Ammonia	mg/L												
Nitrogen, Nitrate	mg/L												
Nitrogen, Nitrate + Nitrite	mg/L												
Oil and Grease	mg/L	<5	<5	<5	<6		<6						<6
Phosphorus, Phosphate	mg/L												
Solids, Total Dissolved	mg/L												
Solids, Total Suspended	mg/L												
Sulfate	mg/L									<10			
TRPH	ug/L												
Arsenic	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Arsenic, Total	ug/L												
Barium	ug/L	<200	<200	<200			<200	<200	<200		<200	<200	<200
Barium, Total	ug/L												
Chromium	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Chromium, Total	ug/L												
Iron	ug/L	<100											
Sodium	ug/L												
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W02

Parameter	Units	1/25/90	5/3/90	9/20/90	12/11/90	1/30/91	5/1/91	10/8/91	2/20/92	6/14/92	9/17/92	12/18/92	3/24/93	4/25/94
#2 Fuel Oil	mg/L													
#6 Fuel Oil	mg/L													
Carbon, Total Organic	mg/L													
Chloride	mg/L											182	239	151
Gasoline	mg/L													
Kerosene	mg/L													
Mineral Spirits	mg/L													
Nitrogen, Ammonia	mg/L										<1		0.17	0.17
Nitrogen, Nitrate	mg/L							<0.02	<0.02			0.093		
Nitrogen, Nitrate + Nitrite	mg/L												0.55	0.18
Oil and Grease	mg/L		<6		<6									
Phosphorus, Phosphate	mg/L													
Solids, Total Dissolved	mg/L													
Solids, Total Suspended	mg/L													
Sulfate	mg/L													
TRPH	ug/L									<500	<500	35000	3500	
Arsenic	ug/L	<10	<10	<10	<10	<10	<10	<10						
Arsenic, Total	ug/L													
Barium	ug/L	<200	<200	<200	<200	<200	<200	<200						
Barium, Total	ug/L													
Chromium	ug/L	<10	<10	<10	<10	<10	<10	<10						
Chromium, Total	ug/L													
Iron	ug/L													
Sodium	ug/L											68300	88600	
Mercury	ug/L													

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W02

Parameter	Units	6/22/94	10/4/94	1/5/95	3/10/95	7/6/95	9/13/95	12/18/95	3/21/96	7/10/96	1/21/97	7/11/97	1/2/98	6/25/98
#2 Fuel Oil	mg/L					<0.25				<0.25				
#6 Fuel Oil	mg/L									<1				
Carbon, Total Organic	mg/L													
Chloride	mg/L	146	117	120	117	113	114	97	89	58	93	54.5	54.8	76
Gasoline	mg/L					<0.25				<0.25				
Kerosene	mg/L					<0.25				<0.25				
Mineral Spirits	mg/L					8.8				4.2		<0.45		9.1
Nitrogen, Ammonia	mg/L	<0.1	0.16	<0.1	0.13	0.41	0.13	0.14	0.13	0.13	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L													
Nitrogen, Nitrate + Nitrite	mg/L	1.46	0.13	1.11	1.34	0.79	0.66	0.69	0.74	1.2	1.13	0.17	0.54	1.12
Oil and Grease	mg/L													
Phosphorus, Phosphate	mg/L													
Solids, Total Dissolved	mg/L													
Solids, Total Suspended	mg/L													
Sulfate	mg/L													
TRPH	ug/L	5500												
Arsenic	ug/L													
Arsenic, Total	ug/L													
Barium	ug/L													
Barium, Total	ug/L													
Chromium	ug/L													
Chromium, Total	ug/L													
Iron	ug/L													
Sodium	ug/L													
Mercury	ug/L													0.4

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W02	
Parameter	**Units**	**1/27/99**
#2 Fuel Oil	mg/L	
#6 Fuel Oil	mg/L	
Carbon, Total Organic	mg/L	
Chloride	mg/L	41
Gasoline	mg/L	
Kerosene	mg/L	
Mineral Spirits	mg/L	
Nitrogen, Ammonia	mg/L	<0.1
Nitrogen, Nitrate	mg/L	
Nitrogen, Nitrate + Nitrite	mg/L	0.41
Oil and Grease	mg/L	
Phosphorus, Phosphate	mg/L	
Solids, Total Dissolved	mg/L	
Solids, Total Suspended	mg/L	
Sulfate	mg/L	
TRPH	ug/L	
Arsenic	ug/L	
Arsenic, Total	ug/L	
Barium	ug/L	
Barium, Total	ug/L	
Chromium	ug/L	
Chromium, Total	ug/L	
Iron	ug/L	
Sodium	ug/L	
Mercury	ug/L	0.6

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W03B

Parameter	Units	6/17/91	2/22/92	9/17/92	12/18/92	3/23/93	6/29/93	12/28/93	6/22/94	7/6/95	7/10/96	7/11/97	6/24/98
#2 Fuel Oil	mg/L									<0.25	<0.25		
#6 Fuel Oil	mg/L										<1		
Chloride	mg/L				13.4	14	18	14	15	14	14	14	16.9
Gasoline	mg/L									<0.25	<0.25		
Kerosene	mg/L									<0.25	<0.25		
Mineral Spirits	mg/L									<0.25	<0.25	<0.26	<0.25
Nitrogen, Ammonia	mg/L			<1	<1	<0.1	0.33	<0.2	<0.1	0.2	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L				3.58								
Nitrogen, Nitrate + Nitrite	mg/L					3.75	3.47	3.88	4.23	3.66	3.96	3.93	3.48
Phosphorus, Phosphate	mg/L												
TRPH	ug/L				3000	<500	<1000	<1000	<1000				
Arsenic	ug/L	<1											
Sodium	ug/L			<5000	5970	4900							
Mercury	ug/L												<0.2

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W03B

Parameter	Units	6/9/99
#2 Fuel Oil	mg/L	
#6 Fuel Oil	mg/L	
Chloride	mg/L	15.7
Gasoline	mg/L	
Kerosene	mg/L	
Mineral Spirits	mg/L	<100
Nitrogen, Ammonia	mg/L	0.12
Nitrogen, Nitrate	mg/L	
Nitrogen, Nitrate + Nitrite	mg/L	3.82
Phosphorus, Phosphate	mg/L	
TRPH	ug/L	
Arsenic	ug/L	
Sodium	ug/L	
Mercury	ug/L	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W08

Parameter	Units	1/8/87	6/4/87	9/3/87	12/3/87	3/3/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89
#2 Fuel Oil	mg/L												
#6 Fuel Oil	mg/L												
Alkalinity, Bicarbonate	mg/L												
Carbon, Total Organic	mg/L												
Chloride	mg/L												
Gasoline	mg/L												
Kerosene	mg/L												
Mineral Spirits	mg/L												
Nitrogen, Ammonia	mg/L												
Nitrogen, Nitrate	mg/L	<0.02											
Nitrogen, Nitrate + Nitrite	mg/L												
Oil and Grease	mg/L	<5	<5		<6	<6		<6		<6		<6	<6
Phosphorus, Phosphate	mg/L												
Sulfate	mg/L		<10							<10			
TRPH	ug/L												
Arsenic	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Barium	ug/L	<200	<200	<200			<200	<200	<200		<200	<200	<200
Barium, Total	ug/L												
Calcium	ug/L												
Chromium	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Chromium, Total	ug/L												
Iron	ug/L												
Magnesium	ug/L												
Potassium	ug/L												
Sodium	ug/L												
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W08												
Parameter	**Units**	**1/25/90**	**5/3/90**	**9/20/90**	**12/11/90**	**1/29/91**	**5/1/91**	**10/8/91**	**10/29/91**	**12/22/91**	**2/20/92**	**6/14/92**	**9/17/92**	**12/19/92**
#2 Fuel Oil	mg/L													
#6 Fuel Oil	mg/L													
Alkalinity, Bicarbonate	mg/L													
Carbon, Total Organic	mg/L													
Chloride	mg/L											73	58	59.8
Gasoline	mg/L													
Kerosene	mg/L													
Mineral Spirits	mg/L													
Nitrogen, Ammonia	mg/L													<1
Nitrogen, Nitrate	mg/L											2.66	2.98	2.38
Nitrogen, Nitrate + Nitrite	mg/L													
Oil and Grease	mg/L	<6	<6	<5	<6	<6	<6	<6						
Phosphorus, Phosphate	mg/L												1.53	
Sulfate	mg/L													
TRPH	ug/L													2000
Arsenic	ug/L	<10	<10	<10	<10	<10	<10	<10						
Barium	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200				
Barium, Total	ug/L													
Calcium	ug/L													
Chromium	ug/L		<10	<10	<10	<10	<10	<10						
Chromium, Total	ug/L													
Iron	ug/L													
Magnesium	ug/L													
Potassium	ug/L								<5000					
Sodium	ug/L													16000
Mercury	ug/L													

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W08												
Parameter	**Units**	**3/23/93**	**6/28/93**	**12/27/93**	**4/25/94**	**6/21/94**	**10/4/94**	**1/5/95**	**3/9/95**	**7/6/95**	**9/13/95**	**12/18/95**	**3/20/96**	**7/8/96**
#2 Fuel Oil	mg/L									<0.25				<0.25
#6 Fuel Oil	mg/L													<1
Alkalinity, Bicarbonate	mg/L													
Carbon, Total Organic	mg/L													
Chloride	mg/L	60	66	62	74	72	56	60	82	76	73	61	59	71
Gasoline	mg/L									<0.25				<0.25
Kerosene	mg/L									<0.25				<0.25
Mineral Spirits	mg/L									<0.25				<0.25
Nitrogen, Ammonia	mg/L	0.2	0.18	<0.2	0.1	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	0.12	<0.1
Nitrogen, Nitrate	mg/L													
Nitrogen, Nitrate + Nitrite	mg/L	5.06	1.85	2.58	2.72	2.41	0.44	2.44	2.52	2.53	2.18	1.8	3.22	2.18
Oil and Grease	mg/L													
Phosphorus, Phosphate	mg/L													
Sulfate	mg/L													
TRPH	ug/L	<500	<1000	<1000		<1000								
Arsenic	ug/L													
Barium	ug/L													
Barium, Total	ug/L													
Calcium	ug/L													
Chromium	ug/L													
Chromium, Total	ug/L													
Iron	ug/L													
Magnesium	ug/L													
Potassium	ug/L													
Sodium	ug/L	15300												
Mercury	ug/L													

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W08							
Parameter	**Units**	**9/25/96**	**1/21/97**	**7/11/97**	**1/2/98**	**6/23/98**	**1/26/99**	**6/7/99**
#2 Fuel Oil	mg/L							
#6 Fuel Oil	mg/L							
Alkalinity, Bicarbonate	mg/L							
Carbon, Total Organic	mg/L							
Chloride	mg/L	46	70	75.6	74.4	84.7	101	73.4
Gasoline	mg/L							
Kerosene	mg/L							
Mineral Spirits	mg/L			<0.25		<0.25		<100
Nitrogen, Ammonia	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L							
Nitrogen, Nitrate + Nitrite	mg/L	2.02	2.85	3.62	3	3.04	3.18	3.16
Oil and Grease	mg/L							
Phosphorus, Phosphate	mg/L							
Sulfate	mg/L							
TRPH	ug/L							
Arsenic	ug/L							
Barium	ug/L							
Barium, Total	ug/L							
Calcium	ug/L							
Chromium	ug/L							
Chromium, Total	ug/L							
Iron	ug/L							
Magnesium	ug/L							
Potassium	ug/L							
Sodium	ug/L							
Mercury	ug/L							

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W09

Parameter	Units	6/4/87	9/3/87	12/3/87	3/2/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89	1/25/90
#2 Fuel Oil	mg/L												
#6 Fuel Oil	mg/L												
Alkalinity, Bicarbonate	mg/L												
Alkalinity, Total	mg/L												
Carbon, Total Organic	mg/L												
Chloride	mg/L												
Gasoline	mg/L												
Kerosene	mg/L												
Mineral Spirits	mg/L												
Nitrogen, Ammonia	mg/L												
Nitrogen, Nitrate	mg/L			<0.02									
Nitrogen, Nitrate + Nitrite	mg/L												
Oil and Grease	mg/L			<6		<5		<6			<6	<5	<6
Phosphorus, Phosphate	mg/L												
Solids, Total Dissolved	mg/L												
Solids, Total Suspended	mg/L												
Sulfate	mg/L	<10	<10					<10	<10				
TRPH	ug/L												
Arsenic	ug/L	<10	<10			<10	<10	<10		<10	<10	<10	<10
Barium	ug/L	<200	<200			<200	<200	<200		<200	<200	<200	<200
Calcium	ug/L												
Chromium	ug/L	<10	<10			<10	<10	<10		<10	<10	<10	<10
Iron	ug/L												
Magnesium	ug/L												
Potassium	ug/L												
Sodium	ug/L												
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W09

Parameter	Units	5/3/90	9/20/90	12/11/90	1/29/91	5/1/91	10/8/91	10/29/91	12/22/91	6/18/92	12/17/92	6/28/93	12/28/93	6/22/94
#2 Fuel Oil	mg/L													
#6 Fuel Oil	mg/L													
Alkalinity, Bicarbonate	mg/L													
Alkalinity, Total	mg/L													
Carbon, Total Organic	mg/L													
Chloride	mg/L										39.3	40	135	67
Gasoline	mg/L													
Kerosene	mg/L													
Mineral Spirits	mg/L													
Nitrogen, Ammonia	mg/L									1.36	<1	0.27	0.83	0.58
Nitrogen, Nitrate	mg/L									<0.02	0.063			
Nitrogen, Nitrate + Nitrite	mg/L											0.5	0.08	0.23
Oil and Grease	mg/L	<6	<5	<6	<6	<6	<6							
Phosphorus, Phosphate	mg/L													
Solids, Total Dissolved	mg/L													
Solids, Total Suspended	mg/L													
Sulfate	mg/L													
TRPH	ug/L									<500	3000			<1000
Arsenic	ug/L	<10	<10	<10	<10	<10	<10							
Barium	ug/L	<200	<200	<200	<200		<200		<200					
Calcium	ug/L													
Chromium	ug/L	<10	<10	<10	<10	<10	<10							
Iron	ug/L													
Magnesium	ug/L													
Potassium	ug/L							<5000	<5000					
Sodium	ug/L										76400			
Mercury	ug/L													

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W09					
Parameter	**Units**	**7/5/95**	**7/9/96**	**7/11/97**	**6/24/98**	**6/7/99**
#2 Fuel Oil	mg/L	<0.25	<0.25			
#6 Fuel Oil	mg/L		<1			
Alkalinity, Bicarbonate	mg/L					
Alkalinity, Total	mg/L					
Carbon, Total Organic	mg/L					
Chloride	mg/L	204	67	37.1	64	48.2
Gasoline	mg/L	<0.25	<0.25			
Kerosene	mg/L	<0.25	<0.25			
Mineral Spirits	mg/L	<0.25	0.29	<0.27	<0.25	<100
Nitrogen, Ammonia	mg/L	0.91	0.4	0.3	0.16	0.39
Nitrogen, Nitrate	mg/L					
Nitrogen, Nitrate + Nitrite	mg/L	0.1	<0.02	0.16	<0.14	<0.14
Oil and Grease	mg/L					
Phosphorus, Phosphate	mg/L					
Solids, Total Dissolved	mg/L					
Solids, Total Suspended	mg/L					
Sulfate	mg/L					
TRPH	ug/L					
Arsenic	ug/L					
Barium	ug/L					
Calcium	ug/L					
Chromium	ug/L					
Iron	ug/L					
Magnesium	ug/L					
Potassium	ug/L					
Sodium	ug/L					
Mercury	ug/L				2.5	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W10A

Parameter	Units	1/8/87	6/4/87	9/3/87	12/3/87	3/3/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89
#2 Fuel Oil	mg/L												
#6 Fuel Oil	mg/L												
Carbon, Total Organic	mg/L												
Chloride	mg/L												
Gasoline	mg/L												
Kerosene	mg/L												
Mineral Spirits	mg/L												
Nitrogen, Ammonia	mg/L												
Nitrogen, Nitrate	mg/L	<0.02	<0.02	<0.02		<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrogen, Nitrate + Nitrite	mg/L												
Oil and Grease	mg/L												
Phosphorus, Phosphate	mg/L												
Solids, Total Dissolved	mg/L												
Solids, Total Suspended	mg/L												
Sulfate	mg/L								<10				
TRPH	ug/L												
Arsenic	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Arsenic, Total	ug/L												
Barium	ug/L	<200	<200	<200			<200	<200	<200		<200	<200	<200
Barium, Total	ug/L												
Chromium	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Chromium, Total	ug/L												
Iron	ug/L												
Sodium	ug/L												
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W10A

Parameter	Units	1/25/90	5/3/90	9/20/90	12/11/90	1/29/91	5/1/91	10/8/91	7/8/92	12/18/92	6/30/93	12/28/93	6/22/94	7/6/95
#2 Fuel Oil	mg/L													<0.25
#6 Fuel Oil	mg/L													
Carbon, Total Organic	mg/L													
Chloride	mg/L									67	53	58	45	49
Gasoline	mg/L													<0.25
Kerosene	mg/L													<0.25
Mineral Spirits	mg/L													2.8
Nitrogen, Ammonia	mg/L								<1	<1	0.16		0.13	0.38
Nitrogen, Nitrate	mg/L	<0.02		<0.02	<0.02	<0 02				0.096				
Nitrogen, Nitrate + Nitrite	mg/L										<0.02	0.02	0.03	<0.02
Oil and Grease	mg/L				<6									
Phosphorus, Phosphate	mg/L													
Solids, Total Dissolved	mg/L													
Solids, Total Suspended	mg/L													
Sulfate	mg/L													
TRPH	ug/L								<500	1000	1200		1400	
Arsenic	ug/L	<10	<10	<10	<10	<10	<10	<10						
Arsenic, Total	ug/L													
Barium	ug/L	<200	<200	<200	<200	<200	<200	<200						
Barium, Total	ug/L													
Chromium	ug/L	<10	<10	<10	<10	<10	<10	<10						
Chromium, Total	ug/L													
Iron	ug/L													
Sodium	ug/L									28000				
Mercury	ug/L													

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W10A				
Parameter	**Units**	**7/9/96**	**7/11/97**	**6/24/98**	**6/8/99**
#2Fuel Oil	mg/L	<0.25			
#6 Fuel Oil	mg/L	<1			
Carbon, Total Organic	mg/L				
Chloride	mg/L	47	32.5	59.9	80.1
Gasoline	mg/L	<0.25			
Kerosene	mg/L	<0.25			
Mineral Spirits	mg/L	2.4	<0.26	3.3	<100
Nitrogen, Ammonia	mg/L	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L				
Nitrogen, Nitrate + Nitrite	mg/L	<0.02	<0.14	<0.14	<0.14
Oil and Grease	mg/L				
Phosphorus, Phosphate	mg/L				
Solids, Total Dissolved	mg/L				
Solids, Total Suspended	mg/L				
Sulfate	mg/L				
TRPH	ug/L				
Arsenic	ug/L				
Arsenic, Total	ug/L				
Barium	ug/L				
Barium, Total	ug/L				
Chromium	ug/L				
Chromium, Total	ug/L				
Iron	ug/L				
Sodium	ug/L				
Mercury	ug/L			0.5	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W10B										
Parameter	**Units**	**7/8/92**	**12/18/92**	**6/29/93**	**12/28/93**	**6/22/94**	**7/6/95**	**7/9/96**	**7/11/97**	**6/24/98**	**6/8/99**
#2 Fuel Oil	mg/L						<0.25	<0.25			
#6 Fuel Oil	mg/L							<1			
Chloride	mg/L		3.57	3	<2	<2	<2	<2	2.34	1.05	1.16
Gasoline	mg/L						<0.25	<0.25			
Kerosene	mg/L						<0.25	<0.25			
Mineral Spirits	mg/L						<0.25	<0.25	<0.27	<0.25	<100
Nitrogen, Ammonia	mg/L	<1	<1	<0.1	<0.2	0.16	0.3	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L		0.427								
Nitrogen, Nitrate + Nitrite	mg/L			0.37	0.36	0.42	0.33	0.43	0.36	0.35	0.37
Phosphorus, Phosphate	mg/L										
TRPH	ug/L	<500	600	<1000	<1000	<1000					
Sodium	ug/L		6680								
Mercury	ug/L									<0.2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W11												
Parameter	**Units**	**1/8/87**	**6/4/87**	**9/3/87**	**12/3/87**	**3/3/88**	**4/7/88**	**8/10/88**	**11/15/88**	**1/26/89**	**4/27/89**	**7/27/89**	**10/26/89**
#2 Fuel Oil	mg/L												
#6 Fuel Oil	mg/L												
Carbon, Total Organic	mg/L												
Chloride	mg/L												
Gasoline	mg/L												
Kerosene	mg/L												
Mineral Spirits	mg/L												
Nitrogen, Ammonia	mg/L												
Nitrogen, Nitrate	mg/L												
Nitrogen, Nitrate + Nitrite	mg/L												
Oil and Grease	mg/L	<5				<6				<6	<6	<6	<6
Phosphorus, Phosphate	mg/L												
Solids, Total Dissolved	mg/L												
Solids, Total Suspended	mg/L												
Sulfate	mg/L		<10						<10	<10			
TRPH	ug/L												
Arsenic	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Arsenic, Total	ug/L												
Barium	ug/L	<200	<200	<200			<200	<200	<200		<200	<200	<200
Barium, Total	ug/L												
Chromium	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Chromium, Total	ug/L												
Iron	ug/L	<100											
Sodium	ug/L												
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W11

Parameter	Units	1/25/90	5/3/90	9/21/90	12/11/90	12/12/90	1/30/91	5/1/91	10/8/91	6/18/92	12/17/92	6/30/93	12/28/93	6/21/94
#2 Fuel Oil	mg/L													
#6 Fuel Oil	mg/L													
Carbon, Total Organic	mg/L													
Chloride	mg/L										32.2	31	26	20
Gasoline	mg/L													
Kerosene	mg/L													
Mineral Spirits	mg/L													
Nitrogen, Ammonia	mg/L									<1	<1	0.1		<0.1
Nitrogen, Nitrate	mg/L										2.3			
Nitrogen, Nitrate + Nitrite	mg/L											1.78	1.89	0.99
Oil and Grease	mg/L	<6	<6					<6	<5					
Phosphorus, Phosphate	mg/L													
Solids, Total Dissolved	mg/L													
Solids, Total Suspended	mg/L													
Sulfate	mg/L													
TRPH	ug/L									<500	<500			<1000
Arsenic	ug/L	<10	<10	<10		<10	<10	<10	<10					
Arsenic, Total	ug/L													
Barium	ug/L	<200	<200	<200		<200	<200	<200	<200					
Barium, Total	ug/L													
Chromium	ug/L	<10	<10	<10		<10	<10	<10	<10					
Chromium, Total	ug/L													
Iron	ug/L													
Sodium	ug/L										17500			
Mercury	ug/L													

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W11					
Parameter	**Units**	**7/5/95**	**7/9/96**	**7/11/97**	**6/24/98**	**6/8/99**
#2 Fuel Oil	mg/L	<0.25	<0.25			
#6 Fuel Oil	mg/L		<1			
Carbon, Total Organic	mg/L					
Chloride	mg/L	25	47	277	38.1	30.7
Gasoline	mg/L	<0.25	<0.25			
Kerosene	mg/L	<0.25	<0.25			
Mineral Spirits	mg/L	<0.25	<0.25	<0.25	<0.25	<100
Nitrogen, Ammonia	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L					
Nitrogen, Nitrate + Nitrite	mg/L	1.18	0.46	0.52	2.38	2.56
Oil and Grease	mg/L					
Phosphorus, Phosphate	mg/L					
Solids, Total Dissolved	mg/L					
Solids, Total Suspended	mg/L					
Sulfate	mg/L					
TRPH	ug/L					
Arsenic	ug/L					
Arsenic, Total	ug/L					
Barium	ug/L					
Barium, Total	ug/L					
Chromium	ug/L					
Chromium, Total	ug/L					
Iron	ug/L					
Sodium	ug/L					
Mercury	ug/L				<0.2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W12

Parameter	Units	6/18/92	12/17/92	6/29/93	12/28/93	6/21/94	7/6/95	7/8/96	7/11/97	6/23/98	6/8/99
#2 Fuel Oil	mg/L						<0.25	<0.25			
#6 Fuel Oil	mg/L							<1			
Chloride	mg/L		140	126	108	102	105	89	83.6	100	107
Gasoline	mg/L						<0.25	<0.25			
Kerosene	mg/L						<0.25	<0.25			
Mineral Spirits	mg/L						<0.25	<0.25	<0.26	<0.25	<100
Nitrogen, Ammonia	mg/L	<1	<1	<0.1	0.22	<0.1	0.28	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L		10.3								
Nitrogen, Nitrate + Nitrite	mg/L			11.3	8.14	7.43	6.25	7.7	5.5	3.97	3.25
Phosphorus, Phosphate	mg/L										
TRPH	ug/L	<500	<500	<1000	<1000	<1000					
Sodium	ug/L		63000								
Mercury	ug/L									<0.2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W13

Parameter	Units	6/22/92	12/19/92	6/30/93	12/27/93	4/25/94	6/22/94	10/4/94	3/10/95	7/6/95	9/13/95	3/20/96	7/10/96
#2 Fuel Oil	mg/L									<0.25			<0.25
#6 Fuel Oil	mg/L												<1
Chloride	mg/L		146	80	200	167	152	132	184	163	96	133	83
Gasoline	mg/L									<0.25			<0.25
Kerosene	mg/L									<0.25			<0.25
Mineral Spirits	mg/L									<0.25			<0.25
Nitrogen, Ammonia	mg/L	<1	<1	<0.1	<0.2	<0.1	<0.1	0.2	<0.1	0.3	<0.1	0.1	<0.1
Nitrogen, Nitrate	mg/L		1.48										
Nitrogen, Nitrate + Nitrite	mg/L			1.38	5.01	2.36	2.84	5.59	7.22	6.66	4.59	4.65	4.87
Phosphorus, Phosphate	mg/L												
TRPH	ug/L	<500	<500	<1000	<1000		<1000						
Sodium	ug/L		83300										
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W13

Parameter	Units	9/25/96	7/11/97	1/2/98	6/24/98	1/26/99	6/9/99
#2 Fuel Oil	mg/L						
#6 Fuel Oil	mg/L						
Chloride	mg/L	101	75.5	211	150	135	89.3
Gasoline	mg/L						
Kerosene	mg/L						
Mineral Spirits	mg/L		<0.27		<0.25		<100
Nitrogen, Ammonia	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L						
Nitrogen, Nitrate + Nitrite	mg/L	4.37	<0.14	4.41	3.57	4.97	3.13
Phosphorus, Phosphate	mg/L						
TRPH	ug/L						
Sodium	ug/L						
Mercury	ug/L				<0.2	<0.2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W14												
Parameter	**Units**	**1/8/87**	**6/4/87**	**9/3/87**	**12/3/87**	**3/3/88**	**4/7/88**	**8/10/88**	**11/15/88**	**1/26/89**	**4/27/89**	**7/27/89**	**10/26/89**
#2 Fuel Oil	mg/L												
#6 Fuel Oil	mg/L												
Carbon, Total Organic	mg/L												
Chloride	mg/L												
Gasoline	mg/L												
Kerosene	mg/L												
Mineral Spirits	mg/L												
Nitrogen, Ammonia	mg/L												
Nitrogen, Nitrate	mg/L												
Nitrogen, Nitrate + Nitrite	mg/L												
Oil and Grease	mg/L	<5			<5		<6		<5	<6	<6	<6	<6
Phosphorus, Phosphate	mg/L												
Solids, Total Dissolved	mg/L												
Solids, Total Suspended	mg/L												
Sulfate	mg/L		<10						<10	<10			
TRPH	ug/L												
Arsenic	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Arsenic, Total	ug/L												
Barium	ug/L		<200	<200			<200	<200	<200		<200	<200	<200
Barium, Total	ug/L												
Chromium	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Chromium, Total	ug/L												
Iron	ug/L	<100	<100										
Sodium	ug/L												
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W14													
Parameter	**Units**	**1/25/90**	**5/3/90**	**9/21/90**	**12/11/90**	**12/12/90**	**1/30/91**	**5/1/91**	**6/18/91**	**10/8/91**	**6/24/92**	**12/18/92**	**6/29/93**	**12/28/93**
#2 Fuel Oil	mg/L													
#6 Fuel Oil	mg/L													
Carbon, Total Organic	mg/L													
Chloride	mg/L											94.7	110	113
Gasoline	mg/L													
Kerosene	mg/L													
Mineral Spirits	mg/L													
Nitrogen, Ammonia	mg/L													<0.2
Nitrogen, Nitrate	mg/L											5.78		
Nitrogen, Nitrate + Nitrite	mg/L												5.76	4.68
Oil and Grease	mg/L	<6	<5	<5		<6	<6	<5		<6				
Phosphorus, Phosphate	mg/L													
Solids, Total Dissolved	mg/L													
Solids, Total Suspended	mg/L													
Sulfate	mg/L													
TRPH	ug/L										<500			<1000
Arsenic	ug/L	<10	<10	<10		<10	<10	<10		<10	<1			
Arsenic, Total	ug/L													
Barium	ug/L	<200	<200	<200						<200	<200			
Barium, Total	ug/L													
Chromium	ug/L	<10	<10	<10		<10	<10	<10		<10	<10			
Chromium, Total	ug/L													
Iron	ug/L													
Sodium	ug/L											41200		
Mercury	ug/L													

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W14						
Parameter	**Units**	**6/21/94**	**7/6/95**	**7/8/96**	**7/11/97**	**6/23/98**	**6/7/99**
#2 Fuel Oil	mg/L		<0.25	<0.25			
#6 Fuel Oil	mg/L			<1			
Carbon, Total Organic	mg/L						
Chloride	mg/L	112	117	120	186	241	125
Gasoline	mg/L		<0.25	<0.25			
Kerosene	mg/L		<0.25	<0.25			
Mineral Spirits	mg/L		<0.25	<0.25	<0.26	<0.25	<100
Nitrogen, Ammonia	mg/L	<0.1	0.4	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L						
Nitrogen, Nitrate + Nitrite	mg/L	4.18	4.51	4.98	2.44	1.76	2.88
Oil and Grease	mg/L						
Phosphorus, Phosphate	mg/L						
Solids, Total Dissolved	mg/L						
Solids, Total Suspended	mg/L						
Sulfate	mg/L						
TRPH	ug/L	<1000					
Arsenic	ug/L						
Arsenic, Total	ug/L						
Barium	ug/L						
Barium, Total	ug/L						
Chromium	ug/L						
Chromium, Total	ug/L						
Iron	ug/L						
Sodium	ug/L						
Mercury	ug/L					<0.2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W16												
Parameter	**Units**	**1/8/87**	**6/4/87**	**9/3/87**	**12/3/87**	**3/3/88**	**4/7/88**	**8/10/88**	**11/15/88**	**1/26/89**	**4/27/89**	**7/27/89**	**10/26/89**
#2 Fuel Oil	mg/L												
#6 Fuel Oil	mg/L												
Alkalinity, Bicarbonate	mg/L												
Alkalinity, Total	mg/L												
Carbon, Total Organic	mg/L												
Chloride	mg/L												
Gasoline	mg/L												
Kerosene	mg/L												
Mineral Spirits	mg/L												
Nitrogen, Ammonia	mg/L												
Nitrogen, Nitrate	mg/L												
Nitrogen, Nitrate + Nitrite	mg/L												
Oil and Grease	mg/L	<5			<6		<5			<5	<6	<6	<6
Phosphorus, Phosphate	mg/L												
Solids, Total Dissolved	mg/L												
Solids, Total Suspended	mg/L												
Sulfate	mg/L								<10	<10			
TRPH	ug/L												
Arsenic	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Arsenic, Total	ug/L												
Barium	ug/L	<200	<200	<200			<200	<200	<200		<200	<200	<200
Barium, Total	ug/L												
Calcium	ug/L												
Chromium	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Chromium, Total	ug/L												
Iron	ug/L	<100	<100										
Magnesium	ug/L												
Potassium	ug/L												
Sodium	ug/L												
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W16													
Parameter	**Units**	**1/25/90**	**5/3/90**	**9/21/90**	**12/11/90**	**12/12/90**	**1/30/91**	**5/1/91**	**10/8/91**	**10/29/91**	**12/22/91**	**6/16/92**	**12/18/92**	**6/29/93**
#2 Fuel Oil	mg/L													
#6 Fuel Oil	mg/L													
Alkalinity, Bicarbonate	mg/L													
Alkalinity, Total	mg/L													
Carbon, Total Organic	mg/L													
Chloride	mg/L											101	125	126
Gasoline	mg/L													
Kerosene	mg/L													
Mineral Spirits	mg/L													
Nitrogen, Ammonia	mg/L													0.53
Nitrogen, Nitrate	mg/L											5.8	10.4	
Nitrogen, Nitrate + Nitrite	mg/L													7.86
Oil and Grease	mg/L	<6	<6	<5		<5	<6	<6	<6					
Phosphorus, Phosphate	mg/L											4.29		
Solids, Total Dissolved	mg/L													
Solids, Total Suspended	mg/L													
Sulfate	mg/L													
TRPH	ug/L											1600		<1000
Arsenic	ug/L	<10	<10	<10		<10	<10	<10	<10			<1		
Arsenic, Total	ug/L													
Barium	ug/L	<200	<200	<200		<200	<200	<200	<200	<200	<200	<200		
Barium, Total	ug/L													
Calcium	ug/L													
Chromium	ug/L	<10	<10	<10		<10	<10	<10	<10					
Chromium, Total	ug/L													
Iron	ug/L													
Magnesium	ug/L													
Potassium	ug/L													
Sodium	ug/L												58500	
Mercury	ug/L													

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W16							
Parameter	**Units**	**12/28/93**	**6/21/94**	**7/6/95**	**7/8/96**	**7/11/97**	**6/24/98**	**6/7/99**
#2 Fuel Oil	mg/L			<0.25	<0.25			
#6 Fuel Oil	mg/L				<1			
Alkalinity, Bicarbonate	mg/L							
Alkalinity, Total	mg/L							
Carbon, Total Organic	mg/L							
Chloride	mg/L	155	128	106	28	173	221	155
Gasoline	mg/L			<0.25	<0.25			
Kerosene	mg/L			<0.25	<0.25			
Mineral Spirits	mg/L			<0.25	<0.25	<0.26	<0.25	<100
Nitrogen, Ammonia	mg/L	<0.2	<0.1	0.17	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L							
Nitrogen, Nitrate + Nitrite	mg/L	11.5	6.27	6.03	0.84	5.44	4.13	3.24
Oil and Grease	mg/L							
Phosphorus, Phosphate	mg/L							
Solids, Total Dissolved	mg/L							
Solids, Total Suspended	mg/L							
Sulfate	mg/L							
TRPH	ug/L	<1000	<1000					
Arsenic	ug/L							
Arsenic, Total	ug/L							
Barium	ug/L							
Barium, Total	ug/L							
Calcium	ug/L							
Chromium	ug/L							
Chromium, Total	ug/L							
Iron	ug/L							
Magnesium	ug/L							
Potassium	ug/L							
Sodium	ug/L							
Mercury	ug/L						<0.2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W18

Parameter	Units	2/25/92	7/8/92	9/17/92	12/17/92	3/23/93	6/29/93	12/28/93	6/22/94	7/5/95	7/9/96	7/11/97	6/24/98
#2 Fuel Oil	mg/L									<0.25	<0.25		
#6 Fuel Oil	mg/L										<1		
Chloride	mg/L				52.7	52	43	69	45	39	28	40.7	37.1
Gasoline	mg/L									<0.25	<0.25		
Kerosene	mg/L									<0.25	<0.25		
Mineral Spirits	mg/L									1.9	0.94	<0.26	0.25
Nitrogen, Ammonia	mg/L		<1	<1	<1	0.14	<0.1	<0.2	<0.1	0.22	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L	<0.02	<0.02	<0.02	0.05								
Nitrogen, Nitrate + Nitrite	mg/L					<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.14	<0.14
Phosphorus, Phosphate	mg/L												
TRPH	ug/L		<500	<500	1000	2100	<1000	1000	<1000				
Sodium	ug/L				22800	21800							
Mercury	ug/L												<0.2

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W18

Parameter	Units	6/8/99
#2 Fuel Oil	mg/L	
#6 Fuel Oil	mg/L	
Chloride	mg/L	23.3
Gasoline	mg/L	
Kerosene	mg/L	
Mineral Spirits	mg/L	<100
Nitrogen, Ammonia	mg/L	<0.1
Nitrogen, Nitrate	mg/L	
Nitrogen, Nitrate + Nitrite	mg/L	1.26
Phosphorus, Phosphate	mg/L	
TRPH	ug/L	
Sodium	ug/L	
Mercury	ug/L	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W21												
Parameter	**Units**	**1/8/87**	**6/4/87**	**9/3/87**	**12/3/87**	**3/3/88**	**4/7/88**	**8/10/88**	**11/15/88**	**1/26/89**	**4/27/89**	**7/27/89**	**10/26/89**
#2 Fuel Oil	mg/L												
#6 Fuel Oil	mg/L												
Alkalinity, Bicarbonate	mg/L												
Alkalinity, Total	mg/L												
Carbon, Total Organic	mg/L												
Chloride	mg/L												
Gasoline	mg/L												
Kerosene	mg/L												
Mineral Spirits	mg/L												
Nitrogen, Ammonia	mg/L												
Nitrogen, Nitrate	mg/L												
Nitrogen, Nitrate + Nitrite	mg/L												
Oil and Grease	mg/L	<5	<5		<6	<6	<6					<6	<6
Phosphorus, Phosphate	mg/L												
Solids, Total Dissolved	mg/L												
Solids, Total Suspended	mg/L												
Sulfate	mg/L								<10	<10			
TRPH	ug/L												
Arsenic	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Arsenic, Total	ug/L												
Barium	ug/L	<200	<200	<200			<200	<200	<200		<200	<200	<200
Barium, Total	ug/L												
Calcium	ug/L												
Chromium	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Chromium, Total	ug/L												
Iron	ug/L												
Magnesium	ug/L												
Potassium	ug/L												
Sodium	ug/L												
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W21

Parameter	Units	1/25/90	5/3/90	9/21/90	12/11/90	12/12/90	1/30/91	5/1/91	10/8/91	10/29/91	12/22/91	6/24/92	12/18/92	6/29/93
#2 Fuel Oil	mg/L													
#6 Fuel Oil	mg/L													
Alkalinity, Bicarbonate	mg/L													
Alkalinity, Total	mg/L													
Carbon, Total Organic	mg/L													
Chloride	mg/L											40.4	59	62
Gasoline	mg/L													
Kerosene	mg/L													
Mineral Spirits	mg/L													
Nitrogen, Ammonia	mg/L													<0.1
Nitrogen, Nitrate	mg/L											2.5	2.3	
Nitrogen, Nitrate + Nitrite	mg/L													1.83
Oil and Grease	mg/L	<6	<6	<6		<6	<6	<6	<5					
Phosphorus, Phosphate	mg/L											3.18		
Solids, Total Dissolved	mg/L													
Solids, Total Suspended	mg/L													
Sulfate	mg/L													
TRPH	ug/L													<1000
Arsenic	ug/L	<10	<10	<10		<10	<10	<10	<10			<1		
Arsenic, Total	ug/L													
Barium	ug/L	<200	<200	<200		<200	<200	<200	<200	<200	<200			
Barium, Total	ug/L													
Calcium	ug/L													
Chromium	ug/L	<10	<10	<10		<10	<10	<10	<10					
Chromium, Total	ug/L													
Iron	ug/L													
Magnesium	ug/L													
Potassium	ug/L									<5000	<5000			
Sodium	ug/L												36500	
Mercury	ug/L													

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W21

Parameter	Units	12/28/93	6/22/94	7/6/95	7/8/96	7/11/97	6/23/98	6/7/99
#2 Fuel Oil	mg/L			<0.25	<0.25			
#6 Fuel Oil	mg/L				<1			
Alkalinity, Bicarbonate	mg/L							
Alkalinity, Total	mg/L							
Carbon, Total Organic	mg/L							
Chloride	mg/L	74	43	44	88	79.1	130	110
Gasoline	mg/L			<0.25	<0.25			
Kerosene	mg/L			<0.25	<0.25			
Mineral Spirits	mg/L			<0.25	<0.25	<0.26	<0.25	<100
Nitrogen, Ammonia	mg/L	<0.2	0.31	0.16	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L							
Nitrogen, Nitrate + Nitrite	mg/L	2.4	1.3	0.78	4.36	2.58	2.93	1.69
Oil and Grease	mg/L							
Phosphorus, Phosphate	mg/L							
Solids, Total Dissolved	mg/L							
Solids, Total Suspended	mg/L							
Sulfate	mg/L							
TEPH	ug/L	<1000	<1000					
Arsenic	ug/L							
Arsenic, Total	ug/L							
Barium	ug/L							
Barium, Total	ug/L							
Calcium	ug/L							
Chromium	ug/L							
Chromium, Total	ug/L							
Iron	ug/L							
Magnesium	ug/L							
Potassium	ug/L							
Sodium	ug/L							
Mercury	ug/L						<0.2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W22

Parameter	Units	2/25/92	6/14/92	9/17/92	12/18/92	3/24/93	6/30/93	12/28/93	4/25/94	6/22/94	10/4/94	1/5/95	3/9/95
#2 Fuel Oil	mg/L												
#6 Fuel Oil	mg/L												
Chloride	mg/L				313	307	25	356	247	180	240	248	196
Gasoline	mg/L												
Kerosene	mg/L												
Mineral Spirits	mg/L												
Nitrogen, Ammonia	mg/L			<1	<1	<0.1	<0.1	0.22	0.24	<0.1	<0.1	<0.1	0.13
Nitrogen, Nitrate	mg/L	<0.02			0.081								
Nitrogen, Nitrate+ Nitrite	mg/L					0.02	0.73	0.06	0.13	0.05	0.15	0.27	0.21
Phosphorus, Phosphate	mg/L												
TRPH	ug/L			<500	3000	9900	<1000	2000		<1000			
Sodium	ug/L				131000	124000							
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W22											
Parameter	**Units**	**7/6/95**	**9/13/95**	**12/18/95**	**3/21/96**	**7/10/96**	**9/25/96**	**1/21/97**	**7/11/97**	**1/2/98**	**6/24/98**	**1/26/99**
#2 Fuel Oil	mg/L	<0.25				<0.25						
#6 Fuel Oil	mg/L					<1						
Chloride	mg/L	167	119	183	138	95	100	118	184	392	428	506
Gasoline	mg/L	<0.25				<0.25						
Kerosene	mg/L	<0.25				<0.25						
Mineral Spirits	mg/L	2				1.8			2.8		2.9	
Nitrogen, Ammonia	mg/L	0.49	<0.1	0.13	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Nitrogen, Nitrate	mg/L											
Nitrogen, Nitrate + Nitrite	mg/L	0.02	0.22	<0.1	<0.1	0.28	<0.08	0.15	0.2	<0.14	0.16	
Phosphorus, Phosphate	mg/L											
TRPH	ug/L											
Sodium	ug/L											
Mercury	ug/L										0.3	0.4

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W25

Parameter	Units	2/19/92	7/29/92	9/17/92	12/17/92	3/23/93	6/28/93	12/28/93	4/25/94	6/21/94	10/4/94	3/10/95	7/5/95
#2 Fuel Oil	mg/L												<0.25
Chloride	mg/L				39.3	77	71	136	90	84	89	68	91
Gasoline	mg/L												<0.25
Kerosene	mg/L												<0.25
Mineral Spirits	mg/L												0.85
Nitrogen, Ammonia	mg/L			<1	<1	<0.1	0.2	0.26	0.2	0.17	<0.1	0.23	0.71
Nitrogen, Nitrate	mg/L				6.52								
Nitrogen, Nitrate + Nitrite	mg/L					4.37	4.2	8.07	1.14	2.69	6.02	0.58	2.58
Phosphorus, Phosphate	mg/L												
TRPH	ug/L	<610	<500	<500	<500	<500	<1000	<1000		1600			
Sodium	ug/L				33700	40200							
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W25

Parameter	Units	9/13/95	3/21/96	7/11/97	1/2/98	6/23/98	1/26/99	6/9/99
#2 Fuel Oil	mg/L							
Chloride	mg/L	25	54	156	81.2	110	144	187
Gasoline	mg/L							
Kerosene	mg/L							
Mineral Spirits	mg/L			<0.26		<0.25		<100
Nitrogen, Ammonia	mg/L	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	0.2
Nitrogen, Nitrate	mg/L							
Nitrogen, Nitrate + Nitrite	mg/L	1.14	4.55	5.5	3.4	2.61	4.5	4.9
Phosphorus, Phosphate	mg/L							
TRPH	ug/L							
Sodium	ug/L							
Mercury	ug/L					<0.2	<0.2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W26

Parameter	Units	2/25/92	6/14/92	9/17/92	12/18/92	3/24/93	6/30/93	12/27/93	4/25/94	6/22/94	10/4/94	3/9/95	7/6/95
#2 Fuel Oil	mg/L												<0.25
#6 Fuel Oil	mg/L												
Chloride	mg/L				139	136	133	155	212	181	178	169	143
Gasoline	mg/L												<0.25
Kerosene	mg/L												<0.25
Mineral Spirits	mg/L												4.4
Nitrogen, Ammonia	mg/L			<1	<1	0.18	0.19	<0.2	0.11	<0.1	<0.1	0.12	0.24
Nitrogen, Nitrate	mg/L				0.337								
Nitrogen, Nitrate + Nitrite	mg/L					0.12	0.12	0.16	<0.02	<0.02	<0.02	0.05	0.04
Phosphorus, Phosphate	mg/L												
TRPH	ug/L		<500		1000	4800	<1000	1000		1200			
Sodium	ug/L				66000	52800							
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W26

Parameter	Units	9/13/95	3/21/96	7/9/96	9/25/96	7/11/97	1/2/98	6/24/98	1/27/99	6/9/99
#2 Fuel Oil	mg/L			<0.25						
#6 Fuel Oil	mg/L			<1						
Chloride	mg/L	245	118	488	359	207	287	349	691	677
Gasoline	mg/L			<0.25						
Kerosene	mg/L			<0.25						
Mineral Spirits	mg/L			0.9		<0.26		3.8		620
Nitrogen, Ammonia	mg/L	<0.1	0.16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L									
Nitrogen, Nitrate + Nitrite	mg/L	<0.02	<0.04	0.81	<0.08	0.25	<0.14	<0.14	<0.14	<0.14
Phosphorus, Phosphate	mg/L									
TRPH	ug/L									
Sodium	ug/L									
Mercury	ug/L							0.2	<0.2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W27

Parameter	Units	6/24/92	12/17/92	6/30/93	12/28/93	6/22/94	7/6/95	7/9/96	7/11/97	6/24/98	6/8/99
#2 Fuel Oil	mg/L						<0.25	<2.5			
#6 Fuel Oil	mg/L							<10			
Chloride	mg/L		140	162	129	116	123	173	214	187	359
Gasoline	mg/L						<0.25	<2.5			
Kerosene	mg/L						<0.25	<2.5			
Mineral Spirits	mg/L						3.8	6.5	<0.25	4.9	2.8
Nitrogen, Ammonia	mg/L		<1	<0.1	0.26	<0.1	0.47	<0.1	<0.1	<0.1	0.25
Nitrogen, Nitrate	mg/L		0.324								
Nitrogen, Nitrate + Nitrite	mg/L			2.62	0.39	0.36	1.41	0.16	0.32	0.64	0.42
TRPH	ug/L		2000	<1000	1000	<1000					
Arsenic	ug/L	<1									
Sodium	ug/L		58000								
Mercury	ug/L									1	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W28											
Parameter	**Units**	**1/8/87**	**6/4/87**	**9/3/87**	**12/3/87**	**3/3/88**	**4/7/88**	**8/10/88**	**11/15/88**	**1/26/89**	**4/27/89**	**7/27/89**	**10/26/89**
#2 Fuel Oil	mg/L												
#6 Fuel Oil	mg/L												
Carbon, Total Organic	mg/L												
Chloride	mg/L												
Gasoline	mg/L												
Kerosene	mg/L												
Mineral Spirits	mg/L												
Nitrogen, Ammonia	mg/L												
Nitrogen, Nitrate	mg/L	<0.02				<0.02	<0.02			<0.02			
Nitrogen, Nitrate + Nitrite	mg/L												
Oil and Grease	mg/L	<5			<6		<5					<6	<6
Phosphorus, Phosphate	mg/L												
Solids, Total Dissolved	mg/L												
Solids, Total Suspended	mg/L												
Sulfate	mg/L									<10			
TRPH	ug/L												
Arsenic	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Arsenic, Total	ug/L												
Barium	ug/L	<200	<200	<200			<200	<200	<200		<200	<200	<200
Barium, Total	ug/L												
Chromium	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Chromium, Total	ug/L												
Iron	ug/L	<100											
Sodium	ug/L												
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W28

Parameter	Units	1/25/90	5/3/90	9/20/90	12/11/90	1/29/91	5/1/91	10/8/91	7/8/92	12/17/92	6/29/93	12/28/93	6/22/94	7/5/95
#2 Fuel Oil	mg/L													<0.25
#6 Fuel Oil	mg/L													
Carbon, Total Organic	mg/L													
Chloride	mg/L									98.3	88	158	130	99
Gasoline	mg/L													<0.25
Kerosene	mg/L													<0.25
Mineral Spirits	mg/L													<0.25
Nitrogen, Ammonia	mg/L								<1	<1	0.17			0.14
Nitrogen, Nitrate	mg/L		<0.02	<0.02		<0.02		<0.02		0.051				
Nitrogen, Nitrate + Nitrite	mg/L										<0.02	0.13	0.03	0.25
Oil and Grease	mg/L	<6	<6	<5	<6	<6		<5						
Phosphorus, Phosphate	mg/L													
Solids, Total Dissolved	mg/L													
Solids, Total Suspended	mg/L													
Sulfate	mg/L													
TRPH	ug/L								<500	<500	<1000			
Arsenic	ug/L	<10	<10	<10	<10	<10	<10	<10						
Arsenic, Total	ug/L													
Barium	ug/L	<200	<200	<200	<200	<200	<200	<200						
Barium, Total	ug/L													
Chromium	ug/L	<10	<10	<10	<10	<10	<10	<10						
Chromium, Total	ug/L													
Iron	ug/L													
Sodium	ug/L									49100				
Mercury	ug/L													

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W28				
Parameter	**Units**	**7/9/96**	**7/11/97**	**6/24/98**	**6/8/99**
#2 Fuel Oil	mg/L	<0.25			
#6 Fuel Oil	mg/L	<1			
Carbon, Total Organic	mg/L				
Chloride	mg/L	65	75.5	57.2	53.6
Gasoline	mg/L	<0.25			
Kerosene	mg/L	<0.25			
Mineral Spirits	mg/L	<0.25	<0.27	<0.25	<100
Nitrogen, Ammonia	mg/L	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L				
Nitrogen, Nitrate + Nitrite	mg/L	0.1	<0.14	0.19	0.24
Oil and Grease	mg/L				
Phosphorus, Phosphate	mg/L				
Solids, Total Dissolved	mg/L				
Solids, Total Suspended	mg/L				
Sulfate	mg/L				
TRPH	ug/L				
Arsenic	ug/L				
Arsenic, Total	ug/L				
Barium	ug/L				
Barium, Total	ug/L				
Chromium	ug/L				
Chromium, Total	ug/L				
Iron	ug/L				
Sodium	ug/L				
Mercury	ug/L			<0.2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W29												
Parameter	**Units**	**1/8/87**	**6/4/87**	**9/3/87**	**12/3/87**	**3/3/88**	**4/7/88**	**8/10/88**	**11/15/88**	**1/26/89**	**4/27/89**	**7/27/89**	**10/26/89**
#2 Fuel Oil	mg/L												
#6 Fuel Oil	mg/L												
Carbon, Total Organic	mg/L												
Chloride	mg/L												
Gasoline	mg/L												
Kerosene	mg/L												
Mineral Spirits	mg/L												
Nitrogen, Ammonia	mg/L												
Nitrogen, Nitrate	mg/L												
Nitrogen, Nitrate + Nitrite	mg/L												
Oil and Grease	mg/L						<5						
Solids, Total Dissolved	mg/L												
Solids, Total Suspended	mg/L												
Sulfate	mg/L									<10			
TRPH	ug/L												
Arsenic	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Arsenic, Total	ug/L												
Barium	ug/L	<200	<200	<200			<200	<200	<200		<200	<200	<200
Barium, Total	ug/L												
Chromium	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Chromium, Total	ug/L												
Iron	ug/L												
Sodium	ug/L												
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wiscousin

Well ID:	W29

Parameter	Units	1/25/90	5/3/90	9/21/90	12/11/90	1/30/91	5/1/91	6/25/92	12/18/92	6/30/93	12/28/93	6/22/94	7/5/95	7/9/96
#2 Fuel Oil	mg/L												<0.25	<0.25
#6 Fuel Oil	mg/L													<1
Carbon, Total Organic	mg/L													
Chloride	mg/L								25.9	43	24	157	35	60
Gasoline	mg/L													<0.25
Kerosene	mg/L													<0.25
Mineral Spirits	mg/L													0.69
Nitrogen, Ammonia	mg/L								<1	0.15	<0.2		0.97	<0.1
Nitrogen, Nitrate	mg/L								0.231					
Nitrogen, Nitrate + Nitrite	mg/L									0.44	0.1	0.6		0.08
Oil and Grease	mg/L	<6	<6	<5	<6	<6	<6							
Solids, Total Dissolved	mg/L													
Solids, Total Suspended	mg/L													
Sulfate	mg/L													
TRPH	ug/L							<500	<500	<1000	<1000			
Arsenic	ug/L	<10	<10	<10	<10	<10	<10	<1						
Arsenic, Total	ug/L													
Barium	ug/L	<200	<200	<200	<200	<200	<200							
Barium, Total	ug/L													
Chromium	ug/L	<10	<10	<10	<10	<10	<10							
Chromium, Total	ug/L													
Iron	ug/L													
Sodium	ug/L								22100					
Mercury	ug/L													

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wiscousiu

Well ID:	W29			
Parameter	**Units**	**7/11/97**	**6/23/98**	**6/8/99**
#2 Fuel Oil	mg/L			
#6 Fuel Oil	mg/L			
Carbon, Total Organic	mg/L			
Chloride	mg/L	30.4	95.2	354
Gasoline	mg/L			
Kerosene	mg/L			
Mineral Spirits	mg/L	<0.26	0.47	<100
Nitrogen, Ammonia	mg/L	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L			
Nitrogen, Nitrate + Nitrite	mg/L	0.15	0.14	0.66
Oil and Grease	mg/L			
Solids, Total Dissolved	mg/L			
Solids, Total Suspended	mg/L			
Sulfate	mg/L			
TRPH	ug/L			
Arsenic	ug/L			
Arsenic, Total	ug/L			
Barium	ug/L			
Barium, Total	ug/L			
Chromium	ug/L			
Chromium, Total	ug/L			
Iron	ug/L			
Sodium	ug/L			
Mercury	ug/L		<0.2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W32												
Parameter	**Units**	**1/8/87**	**6/4/87**	**9/3/87**	**12/3/87**	**3/3/88**	**4/7/88**	**8/10/88**	**11/15/88**	**1/26/89**	**4/27/89**	**7/27/89**	**10/26/89**
#2 Fuel Oil	mg/L												
#6 Fuel Oil	mg/L												
Carbon, Total Organic	mg/L												
Chloride	mg/L												
Gasoline	mg/L												
Kerosene	mg/L												
Mineral Spirits	mg/L												
Nitrogen, Ammonia	mg/L												
Nitrogen, Nitrate	mg/L		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrogen, Nitrate + Nitrite	mg/L												
Oil and Grease	mg/L	<5	<5	<5	<6		<5	<6	<6	<6	<6	<6	<6
Phosphorus, Phosphate	mg/L												
Solids, Total Dissolved	mg/L												
Solids, Total Suspended	mg/L												
Sulfate	mg/L												
TRPH	ug/L												
Arsenic	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Arsenic, Total	ug/L												
Barium	ug/L	<200	<200	<200			<200	<200	<200		<200	<200	<200
Barium, Total	ug/L												
Chromium	ug/L	<10	<10	<10			<10	<10	<10		<10	<10	<10
Chromium, Total	ug/L												
Iron	ug/L												
Sodium	ug/L												
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W32

Parameter	Units	1/25/90	5/3/90	9/21/90	12/11/90	1/30/91	5/1/91	10/8/91	6/24/92	12/19/92	6/29/93	12/28/93	6/22/94	7/5/95
#2 Fuel Oil	mg/L													<0.25
#6 Fuel Oil	mg/L													
Carbon, Total Organic	mg/L													
Chloride	mg/L									25.9	56	7	11	12
Gasoline	mg/L													<0.25
Kerosene	mg/L													<0.25
Mineral Spirits	mg/L													<0.25
Nitrogen, Ammonia	mg/L									1.96	1.8	1.31	1.21	1.46
Nitrogen, Nitrate	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.052				
Nitrogen, Nitrate + Nitrite	mg/L										0.07	0.08	0.04	0.03
Oil and Grease	mg/L		<6	<5	<6	<6	<6	<5						
Phosphorus, Phosphate	mg/L													
Solids, Total Dissolved	mg/L													
Solids, Total Suspended	mg/L													
Sulfate	mg/L			<1	<1	<1		<1						
TRPH	ug/L								<500	<500	<1000			
Arsenic	ug/L	<10	<10	<10	<10	<10	<10	<10						
Arsenic, Total	ug/L													
Barium	ug/L	<200	<200	<200	<200	<200		<200						
Barium, Total	ug/L													
Chromium	ug/L	<10	<10	<10	<10	<10	<10	<10						
Chromium, Total	ug/L													
Iron	ug/L													
Sodium	ug/L									21800				
Mercury	ug/L													

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W32				
Parameter	**Units**	**7/8/96**	**7/11/97**	**6/23/98**	**6/7/99**
#2 Fuel Oil	mg/L	<0.25			
#6 Fuel Oil	mg/L	<1			
Carbon, Total Organic	mg/L				
Chloride	mg/L	38	9.4	12.1	21.9
Gasoline	mg/L	<0.25			
Kerosene	mg/L	<0.25			
Mineral Spirits	mg/L	<0.25	<0.27	<0.25	<100
Nitrogen, Ammonia	mg/L	1.72	0.9	0.92	1.49
Nitrogen, Nitrate	mg/L				
Nitrogen, Nitrate + Nitrite	mg/L	<0.06	0.15	<0.14	0.15
Oil and Grease	mg/L				
Phosphorus, Phosphate	mg/L				
Solids, Total Dissolved	mg/L				
Solids, Total Suspended	mg/L				
Sulfate	mg/L				
TRPH	ug/L				
Arsenic	ug/L				
Arsenic, Total	ug/L				
Barium	ug/L				
Barium, Total	ug/L				
Chromium	ug/L				
Chromium, Total	ug/L				
Iron	ug/L				
Sodium	ug/L				
Mercury	ug/L			<0.2	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W36

Parameter	Units	2/20/92	8/3/92	9/17/92	9/13/95	7/10/96	7/11/97	1/2/98	6/25/98	1/27/99	6/9/99
#2 Fuel Oil	mg/L					<0.25					
#6 Fuel Oil	mg/L					<1					
Chloride	mg/L				136	120	77	94.2	92.8	95.1	96.7
Gasoline	mg/L					<0.25					
Kerosene	mg/L					<0.25					
Mineral Spirits	mg/L					1.8	33		2.4		<100
Nitrogen, Ammonia	mg/L			<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L	<0.02									
Nitrogen, Nitrate + Nitrite	mg/L				2.31	0.21	1.4	1.33	2.44	2.8	2.84
Phosphorus, Phosphate	mg/L										
TRPH	ug/L										
Sodium	ug/L										
Mercury	ug/L								11.5	23	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W39

Parameter	Units	6/17/92	12/18/92	6/21/94	3/10/95	9/13/95	12/18/95	3/20/96	7/9/96	1/21/97	7/11/97	1/2/98	6/24/98
#2 Fuel Oil	mg/L								<13				
#6 Fuel Oil	mg/L								<50				
Chloride	mg/L		195	185	75	62	141	69	170	122	163	207	189
Gasoline	mg/L								<13				
Kerosene	mg/L								<13				
Mineral Spirits	mg/L								95		160		45
Nitrogen, Ammonia	mg/L		<1	<0.1	0.3	0.16	0.45	0.13	0.11	<0.1	<0.1	<0.1	<0.1
Nitrogen, Nitrate	mg/L		0.905										
Nitrogen, Nitrate + Nitrite	mg/L			0.58	0.4	0.1	0.24	<0.1	0.08	1	1.24	0.57	0.6
Phosphorus, Phosphate	mg/L												
TRPH	ug/L	<500	75000	<1000									
Arsenic	ug/L	<1											
Sodium	ug/L		96200										
Mercury	ug/L												2.2

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W39	
Parameter	**Units**	**6/9/99**
#2 Fuel Oil	mg/L	
#6 Fuel Oil	mg/L	
Chloride	mg/L	155
Gasoline	mg/L	
Kerosene	mg/L	
Mineral Spirits	mg/L	27
Nitrogen, Ammonia	mg/L	0.36
Nitrogen, Nitrate	mg/L	
Nitrogen, Nitrate + Nitrite	mg/L	2.78
Phosphorus, Phosphate	mg/L	
TRPH	ug/L	
Arsenic	ug/L	
Sodium	ug/L	
Mercury	ug/L	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W41

Parameter	Units	2/25/92	6/16/92	9/17/92	12/19/92	3/24/93	6/30/93	12/28/93	4/25/94	6/21/94	10/4/94	3/10/95	7/6/95
#2 Fuel Oil	mg/L												<0.25
#6 Fuel Oil	mg/L												
Chloride	mg/L				211	122	124	218	115	91	44	191	132
Gasoline	mg/L												<0.25
Kerosene	mg/L												<0.25
Mineral Spirits	mg/L												5.5
Nitrogen, Ammonia	mg/L			<1	<1	0.66	0.12	0.34	0.34	0.22	0.6	0.47	0.85
Nitrogen, Nitrate	mg/L				0.228								
Nitrogen, Nitrate + Nitrite	mg/L					0.34	0.05	1.75	0.04	0.04	0.34	0.53	0.9
Phosphorus, Phosphate	mg/L												
TRPH	ug/L				9000	7100	330000	5600		2800			
Arsenic	ug/L		<1										
Sodium	ug/L				103000	107000							
Mercury	ug/L												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W41

Parameter	Units	9/13/95	3/20/96	7/9/96	9/25/96	7/11/97	1/2/98	6/24/98	1/26/99	6/8/99
#2 Fuel Oil	mg/L			<2.5						
#6 Fuel Oil	mg/L			<10						
Chloride	mg/L	100	162	137	164	146	323	281	318	414
Gasoline	mg/L			<2.5						
Kerosene	mg/L			<2.5						
Mineral Spirits	mg/L			13		10		5.2		5.9
Nitrogen, Ammonia	mg/L	0.57	0.54	0.26	0.2	0.3	0.26	0.22	0.15	0.57
Nitrogen, Nitrate	mg/L									
Nitrogen, Nitrate + Nitrite	mg/L	0.29	<0.2	<0.02	0.74	3.76	0.75	0.52	0.35	0.5
Phosphorus, Phosphate	mg/L									
TRPH	ug/L									
Arsenic	ug/L									
Sodium	ug/L									
Mercury	ug/L							0.4	0.4	

A2

Phenolics

Sunuuary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W01A

Parameter	Units	2/19/92	6/14/92	9/17/92	12/18/92	3/23/93	6/28/93	12/28/93	4/25/94	6/21/94	10/4/94	1/5/95	3/10/95	3/23/95	5/2/95
2,3,4,6-Tetrachlorophenol	ug/L						40	<160	<10	69	<10	28	<10	<10	<10
2,4,5-Trichlorophenol	ug/L						<20	<320	59	160	58	<20	26	<20	<10
2,4,6-Trichlorophenol	ug/L	<1	<1.02	34.3	5.18	<60	<10	<160	55	120	65	<10	18	16	50
2,4-Dichlorophenol	ug/L	<0.5	<0.51	<0.5	23.3	<2	<10	<160	<10	130	<10	<10	10	<10	<10
2,4-Dimethylphenol	ug/L	5.91	<0.51	67.8	<0.5	<2	<10	190	<10	29	86	<10	44	<10	15
2,4-Dinitrophenol	ug/L	5.27	<1.02	<1	6.69	<6	310	<320	67	110	34	<20	12	<20	<20
2,6-Dichlorophenol	ug/L						<10	<160	<10	27	<10	<10	<10	<10	<10
2-Chlorophenol	ug/L	<0.5	24.3	<0.5	<0.5	<2									<10
2-Methylphenol	ug/L						170	<160	<10	64	22	<10	44	<10	<10
2-Nitrophenol	ug/L	<0.5	<0.51	<0.5	<0.5	<2	<10	<160	<10	200	<10	<10	50	16	11
3&4-Methylphenol	ug/L						<20	<320	<20	<20	<20	<20	41	<20	<20
4,6-Dinitro-2-Methylphenol	ug/L	<1	<1.02	<1	<1	<10	37	<160	<10	46	<10	<10	<10	<10	<10
4-Chloro-3-Methylphenol	ug/L	<0.5	<0.51	<0.5	1.77	<10	<10	<160	19	59	18	20	12	<10	<10
4-Nitrophenol	ug/L	<1	<1.02	42.1	2.51	<10	430	<320	24	65	<20	<20	21	<20	<20
Dinoseb	ug/L						<10	<160	<10	<10	<10	<10	<10	27	<10
Pentachlorophenol	ug/L	101	168	193	150	219	210	310	20	120	89	50	28	58	11
Phenol	ug/L	<0.5	<0.51	<0.5	24.1	<2									<10
Phenol/2-Chlorophenol	ug/L						<20	240	<20	<20	<20	<20	35	<20	
2,3,5,6-Tetrachlorophenol	ug/L	<1	<1.02	<1	<1	<20									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W01A

Parameter	Units	5/24/95	6/13/95	7/5/95	7/26/95	9/7/95	9/13/95	12/18/95	1/18/96	3/21/96	6/19/96	7/10/96	9/25/96	1/21/97	7/11/97
2,3,4,6-Tetrachlorophenol	ug/L	<10	<10	<25	<10	<10	20	<100	<100	<10	<50	<10	0.77	<7.9	<0.182
2,4,5-Trichlorophenol	ug/L	14	<10	<10	<10	67	70	<100	<100	86	<50	<10	<0.73	<7.5	130
2,4,6-Trichlorophenol	ug/L	33	<10	<10	<10	18	130	<100	<100	53	<50	<10	<0.71	<7.3	110
2,4-Dichlorophenol	ug/L	<10	<10	<10	12	14	53	<100	<100	12	<50	<10	<0.8	<8.2	310
2,4-Dimethylphenol	ug/L	67	<10	<10	13	48	42	<100	<100	16	<50	<10	<1.5	<16	210
2,4-Dinitrophenol	ug/L	<20	<20	<50	<20	25	89	<200	<200	<20	<100	<20	<0.72	<7.4	<0.269
2,6-Dichlorophenol	ug/L	<10	<10		<10	<10	24	<100	<100	13	<50	<10	<0.87	<9	690
2-Chlorophenol	ug/L	<10	<10	<10	<10	<10	<10	<100		<10	<50	<10	<1.2	<12	<0.194
2-Methylphenol	ug/L	<10	<10	<10	<10	35	26	<100	<100	<10	<50	<10	<0.79	<8.1	360
2-Nitrophenol	ug/L	11	<10	<10	<10	12	21	<100	<100	<10	<50	14	<1.5	<16	380
3&4-Methylphenol	ug/L	<20	<20	<20	<20	26	20	<200	<200	<20	<100	<20	1.7	<18	230
4,6-Dinitro-2-Methylphenol	ug/L	<10	<10	<50	<10	13	<10	<100	<100	20	<50	<10	<0.75	<7.7	<0.362
4-Chloro-3-Methylphenol	ug/L	<10	<10	<20	<10	<10	91	<100	<100	48	<50	16	<0.69	<7.1	300
4-Nitrophenol	ug/L	<20	<20	<50	<20	28	29	<200	<200	24	<100	<20	<0.74	<7.6	170
Dinoseb	ug/L	<10	<10	<25	<10	<10	<10	<100	<100	<10	<50	<10	<0.85	<8.8	
Pentachlorophenol	ug/L	9.7	5.7	<50	11	110	150	180	67	140	130	64	0.68	185	340
Phenol	ug/L	<10	<10	<10	<10	<10	<10	<100		<10	<50	<10	<1	<11	230
Phenol/2-Chlorophenol	ug/L								<200						
2,3,5,6-Tetrachlorophenol	ug/L														

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W01A

Parameter	Units	1/2/98	6/23/98	1/26/99	6/9/99
2,3,4,6-Tetrachlorophenol	ug/L	50		<60	<300
2,4,5-Trichlorophenol	ug/L	110	78	95	<300
2,4,6-Trichlorophenol	ug/L	70	80	68	<300
2,4-Dichlorophenol	ug/L	260	200	<60	500
2,4-Dimethylphenol	ug/L	100	120	78	<300
2,4-Dinitrophenol	ug/L	550	380	190	440
2,6-Dichlorophenol	ug/L	410	440	110	630
2-Chlorophenol	ug/L	140	200	<60	2100
2-Methylphenol	ug/L	270	200	120	340
2-Nitrophenol	ug/L	230	320	150	1100
3&4-Methylphenol	ug/L	<0.128	88	86	1200
4,6-Dinitro-2-Methylphenol	ug/L	170	170	<60	<300
4-Chloro-3-Methylphenol	ug/L	65	160	90	<300
4-Nitrophenol	ug/L	<0.351	<60	140	<300
Dinoseb	ug/L				
Pentachlorophenol	ug/L	80	63	<60	520
Phenol	ug/L	<0.127	130	120	4400
Phenol/2-Chlorophenol	ug/L				
2,3,5,6-Tetrachlorophenol	ug/L		67		

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W02

Parameter	Units	1/8/87	6/4/87	9/3/87	12/3/87	3/2/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89	1/25/90	5/3/90
2,3,4,6-Tetrachlorophenol	ug/L														
2,4,5-Trichlorophenol	ug/L														
2,4,6-Trichlorophenol	ug/L														
2,4-Dichlorophenol	ug/L														
2,4-Dimethylphenol	ug/L														
2,4-Dinitrophenol	ug/L														
2,6-Dichlorophenol	ug/L														
2-Chlorophenol	ug/L														
2-Methylphenol	ug/L														
2-Nitrophenol	ug/L														
3&4-Methylphenol	ug/L														
4,6-Dinitro-2-Methylphenol	ug/L														
4-Chloro-3-Methylphenol	ug/L														
4-Nitrophenol	ug/L														
Dinoseb	ug/L														
Pentachlorophenol	ug/L	1220	6520	394	180	1200	10	4200	4700	455	6550	5940	2340	8450	2380
Phenol	ug/L														
Phenol/2-Chlorophenol	ug/L														
2,3,5,6-Tetrachlorophenol	ug/L														

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W02

Parameter	Units	9/20/90	12/11/90	1/30/91	5/1/91	6/18/91	10/8/91	2/20/92	6/14/92	9/17/92	12/18/92	3/24/93	4/25/94	6/22/94	10/4/94
2,3,4,6-Tetrachlorophenol	ug/L												600	1300	1400
2,4,5-Trichlorophenol	ug/L												190	400	<1000
2,4,6-Trichlorophenol	ug/L							<1	146	<1	<1	<6	490	290	<500
2,4-Dichlorophenol	ug/L							<0.5	<0.526	36.7	<0.5	<2	<10	560	<500
2,4-Dimethylphenol	ug/L							19.8	5.42	1.99	<0.5	<2	89	110	<500
2,4-Dinitrophenol	ug/L							<1	47.2	<1	4.35	<6	95	340	<1000
2,6-Dichlorophenol	ug/L												110	370	<500
2-Chlorophenol	ug/L							<0.5	<0.526	<0.5	<0.5	<2			
2-Methylphenol	ug/L												300	210	<500
2-Nitrophenol	ug/L							<0.5	<0.526	<0.5	<0.5	<2	68	410	<500
3&4-Methylphenol	ug/L												110	<200	<1000
4,6-Dinitro-2-Methylphenol	ug/L							<1	<1.05	2.87	<1	<10	75	<100	<500
4-Chloro-3-Methylphenol	ug/L							<0.5	<0.526	<0.5	1.77	<10	130	<100	<500
4-Nitrophenol	ug/L							46.3	39.6	52.6	4.93	<10	110	240	<1000
Dinoseb	ug/L												40	<100	<500
Pentachlorophenol	ug/L	5940	6400	11400	47000	15100	14800	7550	10900	9590	12700	<10	1500	5000	14000
Phenol	ug/L							<0.5	<0.526	<0.5	45.7	<2			
Phenol/2-Chlorophenol	ug/L												230	<200	<1000
2,3,5,6-Tetrachlorophenol	ug/L							<1	<1.05	39.4	12.9	<20			

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W02

Parameter	Units	1/5/95	3/10/95	7/6/95	9/13/95	12/18/95	3/21/96	7/10/96	1/21/97	7/11/97	1/2/98	6/25/98	1/27/99
2,3,4,6-Tetrachlorophenol	ug/L	1400	<1000	<2500	<1000	<5000	<1000	<5000	1750	<0.182	<0.182		<3000
2,4,5-Trichlorophenol	ug/L	<1000	<2000	<1000	<1000	<5000	<1000	<5000	<75	<0.453	<0.453	<3000	<3000
2,4,6-Trichlorophenol	ug/L	<500	<1000	<1000	<1000	<5000	<1000	<5000	<73	<0.469	<0.469	<3000	<3000
2,4-Dichlorophenol	ug/L	<500	<1000	<1000	<1000	<5000	<1000	<5000	<82	<0.344	<0.344	<3000	<3000
2,4-Dimethylphenol	ug/L	<500	<1000	<1000	<1000	<5000	<1000	<5000	<159	<0.148	<0.148	<3000	<3000
2,4-Dinitrophenol	ug/L	<1000	<2000	<5000	<2000	<10000	<2000	<10000	<74	<0.269	<0.269	<3000	3200
2,6-Dichlorophenol	ug/L	<500	<1000		<1000	<5000	<1000	<5000	<90	<0.397	<0.397	<3000	<3000
2-Chlorophenol	ug/L			<1000	<1000	<5000	<1000	<5000	<121	1200	<0.194	<3000	3700
2-Methylphenol	ug/L	<500	<1000	<1000	<1000	<5000	<1000	<5000	<81	<0.252	<0.252	<3000	3100
2-Nitrophenol	ug/L	<500	<1000	<1000	<1000	<5000	<1000	<5000	<159	<0.104	<0.104	<3000	<3000
3&4-Methylphenol	ug/L	<1000	<2000	<2000	<2000	<10000	<2000	<10000	<178	<0.128	<0.128	<3000	<3000
4,6-Dinitro-2-Methylphenol	ug/L	<500	<1000	<5000	<1000	<5000	1100	<5000	<77	<0.362	<0.362	<3000	<3000
4-Chloro-3-Methylphenol	ug/L	<500	<1000	<2000	<1000	<5000	<1000	<5000	<71	<0.105	<0.105	<3000	<3000
4-Nitrophenol	ug/L	<1000	<2000	<5000	<2000	<10000	<2000	<10000	<76	2300	<0.351	<3000	<3000
Dinoseb	ug/L	<500	<1000	<2500	<1000	<5000	<1000	<5000	<88				
Pentachlorophenol	ug/L	16000	6900	11000	9200	6700	11000	1400	10900	21000	12000	26000	25000
Phenol	ug/L			<1000	<1000	<5000	<1000	<5000	<107	<0.127	<0.127	<3000	<3000
Phenol/2-Chlorophenol	ug/L	<1000	<2000										
2,3,5,6-Tetrachlorophenol	ug/L											<3000	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W03B

Parameter	Units	6/17/91	2/22/92	9/17/92	12/18/92	3/23/93	6/29/93	12/28/93	6/22/94	7/6/95	7/10/96	7/11/97	6/24/98	6/9/99
2,3,4,6-Tetrachlorophenol	ug/L						75	<10	11	<25	<10	<0.182		3.2
2,4,5-Trichlorophenol	ug/L						<20	<20	<20	<10	<10	<0.453	<3	<3
2,4,6-Trichlorophenol	ug/L	5.17	<1	1.04	<1	<3	<10	<10	<10	<10	<10	<0.469	<3	<3
2,4-Dichlorophenol	ug/L	<0.51	<0.5	<0.5	<0.5	<1	<10	<10	<10	<10	<10	<0.344	<3	<3
2,4-Dimethylphenol	ug/L	<0.51	<0.5	<0.5	<0.5	<1	<10	<10	<10	<10	<10	<0.148	<3	<3
2,4-Dinitrophenol	ug/L	2.1	<1	<1	<1	<3	<20	<20	<20	<50	<20	<0.269	<3	<3
2,6-Dichlorophenol	ug/L						<10	<10	<10		<10	<0.397	<3	<3
2-Chlorophenol	ug/L	<0.51	1.9	<0.5	1.61	<1				<10	<10	<0.194	<3	<3
2-Methylphenol	ug/L						<10	<10	<10	<10	<10	<0.252	<3	<3
2-Nitrophenol	ug/L	<0.51	<0.5	<0.5	<0.5	<1	<10	<10	<10	<10	<10	<0.104	<3	<3
3&4-Methylphenol	ug/L						<20	<20	<20	<20	<20	<0.128	<3	<3
4,6-Dinitro-2-Methylphenol	ug/L	<1.02	<1	<1	<1	<5	<10	<10	<10	<50	11	<0.362	<3	<3
4-Chloro-3-Methylphenol	ug/L	<0.51	<0.5	<0.5	<0.5	<5	<10	<10	<10	<20	<10	<0.105	<3	<3
4-Nitrophenol	ug/L	<1.02	<1	<1	<1	<5	<20	<20	<20	<50	<20	<0.351	<3	<3
Dinoseb	ug/L						<10	<10	<10	<25	<10			
Pentachlorophenol	ug/L	394	25.4	215	103	17.8	1300	24	180	60	110	71	16	25
Phenol	ug/L	<0.51	<0.5	<0.5	1.31	<1				<10	<10	<0.127	<3	<3
Phenol/2-Chlorophenol	ug/L						<20	<20	<20					
2,3,5,6-Tetrachlorophenol	ug/L	<1.02	<1	<1	<1	<10							<3	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W08

Parameter	Units	1/8/87	6/4/87	9/3/87	12/3/87	3/3/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89	1/25/90	5/3/90
2,3,4,6-Tetrachlorophenol	ug/L														
2,4,5-Trichlorophenol	ug/L														
2,4,6-Trichlorophenol	ug/L														
2,4-Dichlorophenol	ug/L														
2,4-Dimethylphenol	ug/L														
2,4-Dinitrophenol	ug/L														
2,6-Dichlorophenol	ug/L														
2-Chlorophenol	ug/L														
2-Methylphenol	ug/L														
2-Nitrophenol	ug/L														
3&4-Methylphenol	ug/L														
4,6-Dinitro-2-Methylphenol	ug/L														
4-Chloro-3-Methylphenol	ug/L														
4-Nitrophenol	ug/L														
Dinoseb	ug/L														
Pentachlorophenol	ug/L	<1	14.8	<1	<1	<1	<1	220	153	3.63	1.18	<1	<1	11.5	4.04
Phenol	ug/L														
Phenol/2-Chlorophenol	ug/L														
2,3,5,6-Tetrachlorophenol	ug/L														

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W08

Parameter	Units	9/20/90	12/11/90	1/29/91	5/1/91	6/17/91	10/8/91	2/20/92	6/14/92	9/17/92	12/19/92	3/23/93	6/28/93	12/27/93	4/25/94
2,3,4,6-Tetrachlorophenol	ug/L												19	<10	<1
2,4,5-Trichlorophenol	ug/L												<20	<20	<1
2,4,6-Trichlorophenol	ug/L							1.02	6.69	<1	<1	<6	<10	<10	<1
2,4-Dichlorophenol	ug/L							<0.5	<0.526	<0.5	<0.5	<2	<10	<10	<1
2,4-Dimethylphenol	ug/L							<0.5	3.77	<0.5	<0.5	<2	<10	<10	<10
2,4-Dinitrophenol	ug/L							<1	<1.05	<1	<1	<6	<20	<20	<1
2,6-Dichlorophenol	ug/L												<10	<10	<1
2-Chlorophenol	ug/L							<0.5	<0.526	<0.5	<0.5	<2			
2-Methylphenol	ug/L												<10	<10	<10
2-Nitrophenol	ug/L							<0.5	<0.526	<0.5	<0.5	<2	<10	<10	<1
3&4-Methylphenol	ug/L												<20	<20	<20
4,6-Dinitro-2-Methylphenol	ug/L							<1	<1.05	<1	<1	<10	<10	<10	<1
4-Chloro-3-Methylphenol	ug/L							<0.5	<0.526	<0.5	<0.5	<10	<10	<10	<10
4-Nitrophenol	ug/L							<1	<1.05	<1	<1	<10	<20	<20	<1
Dinoseb	ug/L												<10	<10	<1
Pentachlorophenol	ug/L	3.3	<1	3.21	36.7	1.12	4.7	11	55.3	23	4.85	<10	130	12	<1
Phenol	ug/L							3.5	<0.526	<0.5	<0.5	<2			
Phenol/2-Chlorophenol	ug/L												<20	<20	<20
2,3,5,6-Tetrachlorophenol	ug/L							<1	<1.05	<1	<1	<20			

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W08

Parameter	Units	6/21/94	10/4/94	1/5/95	3/9/95	7/6/95	9/13/95	12/18/95	3/20/96	7/8/96	9/25/96	1/21/97	7/11/97	1/2/98	6/23/98
2,3,4,6-Tetrachlorophenol	ug/L	10	<50	<10	<10	<25	<10	<10	<10	<10	<1.5	<1.4	<0.182	<0.182	
2,4,5-Trichlorophenol	ug/L	<20	<100	<20	<20	<10	<10	<10	<10	<10	<1.5	<1.3	<0.453	<0.453	<3
2,4,6-Trichlorophenol	ug/L	<10	<50	<10	<10	<10	<10	<10	<10	<10	<1.4	<1.2	<0.469	<0.469	<3
2,4-Dichlorophenol	ug/L	<10	<50	<10	<10	<10	<10	<10	<10	<10	<1.6	<1.4	<0.344	<0.344	<3
2,4-Dimethylphenol	ug/L	<10	<50	<10	<10	<10	<10	<10	<10	<10	<3.1	<2.7	<0.148	<0.148	<3
2,4-Dinitrophenol	ug/L	<20	<100	<20	<20	<50	<20	<20	<20	<20	<1.4	<1.3	<0.269	8.4	<3
2,6-Dichlorophenol	ug/L	<10	<50	<10	<10		<10	<10	<10	<10	<1.7	<1.5	<0.397	<0.397	<3
2-Chlorophenol	ug/L					<10	<10	<10	<10	<10	<2.3	<2.1	<0.194	<0.194	<3
2-Methylphenol	ug/L	<10	<50	<10	<10	<10	<10	<10	<10	<10	<1.6	<1.4	<0.252	<0.252	<3
2-Nitrophenol	ug/L	<10	<50	<10	<10	<10	<10	<10	<10	<10	<3.1	<2.7	<0.104	<0.104	<3
3&4-Methylphenol	ug/L	<20	<100	<20	<20	<20	<20	<20	<20	<20	<3.5	<3	<0.128	<0.128	<3
4,6-Dinitro-2-Methylphenol	ug/L	<10	<50	<10	<10	<50	<10	<10	<10	<10	<1.5	<1.3	<0.362	<0.362	<3
4-Chloro-3-Methylphenol	ug/L	<10	<50	<10	<10	<20	<10	<10	<10	<10	<1.4	<1.2	<0.105	<0.105	<3
4-Nitrophenol	ug/L	<20	<100	<20	<20	<50	<20	<20	<20	<20	<1.5	<1.3	5.6	4.3	<3
Dinoseb	ug/L	<10	<50	<10	<10	<25	<10	<10	<10	<10	<1.7	<1.5			
Pentachlorophenol	ug/L	480	470	98	<10	<50	<1	<1	6.4	1.4	<1.4	<1.2	<0.209	<0.209	<3
Phenol	ug/L					<10	<10	<10	<10	<10	<2.1	<1.8	<0.127	<0.127	<3
Phenol/2-Chlorophenol	ug/L	<20	<100	<20	<20										
2,3,5,6-Tetrachlorophenol	ug/L														<3

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W08		
Parameter	**Units**	**1/26/99**	**6/7/99**
2,3,4,6-Tetrachlorophenol	ug/L	<3	<3
2,4,5-Trichlorophenol	ug/L	11	<3
2,4,6-Trichlorophenol	ug/L	7.7	<3
2,4-Dichlorophenol	ug/L	3.6	<3
2,4-Dimethylphenol	ug/L	<3	<3
2,4-Dinitrophenol	ug/L	3	<3
2,6-Dichlorophenol	ug/L	<3	<3
2-Chlorophenol	ug/L	<3	<3
2-Methylphenol	ug/L	<3	<3
2-Nitrophenol	ug/L	<3	<3
3&4-Methylphenol	ug/L	<3	<3
4,6-Dinitro-2-Methylphenol	ug/L	<3	<3
4-Chloro-3-Methylphenol	ug/L	<3	<3
4-Nitrophenol	ug/L	<3	<3
Dinoseb	ug/L		
Pentachlorophenol	ug/L	<3	<3
Phenol	ug/L	<3	<3
Phenol/2-Chlorophenol	ug/L		
2,3,5,6-Tetrachlorophenol	ug/L		

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W09

Parameter	Units	6/4/87	9/3/87	12/3/87	3/2/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89	1/25/90	5/3/90	9/20/90
2,3,4,6-Tetrachlorophenol	ug/L														
2,4,5-Trichlorophenol	ug/L														
2,4,6-Trichlorophenol	ug/L														
2,4-Dichlorophenol	ug/L														
2,4-Dimethylphenol	ug/L														
2,4-Dinitrophenol	ug/L														
2,6-Dichlorophenol	ug/L														
2-Chlorophenol	ug/L														
2-Methylphenol	ug/L														
2-Nitrophenol	ug/L														
3&4-Methylphenol	ug/L														
4,6-Dinitro-2-Methylphenol	ug/L														
4-Chloro-3-Methylphenol	ug/L														
4-Nitrophenol	ug/L														
Dinoseb	ug/L														
Pentachlorophenol	ug/L	2.2	<1	<1	<1	<1	1.05	<1	<1	<1	<1	<1	6.51	<1	2.37
Phenol	ug/L														
Phenol/2-Chlorophenol	ug/L														
2,3,5,6-Tetrachlorophenol	ug/L														

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W09

Parameter	Units	12/11/90	1/29/91	5/1/91	6/18/91	10/8/91	6/18/92	12/17/92	6/28/93	12/28/93	6/22/94	7/5/95	7/9/96	7/11/97	6/24/98
2,3,4,6-Tetrachlorophenol	ug/L								<1	<100	<100	<26	<100	<0.182	
2,4,5-Trichlorophenol	ug/L								<1	<200	<200	<10	<100	<0.453	7.7
2,4,6-Trichlorophenol	ug/L						3.79	<1	<1	<100	<100	<10	<100	<0.469	5.6
2,4-Dichlorophenol	ug/L						<0.515	<0.5	<1	<100	<100	<10	<100	<0.344	<3
2,4-Dimethylphenol	ug/L						1.29	<0.5	<10	<100	<100	<10	<100	<0.148	<3
2,4-Dinitrophenol	ug/L						<1.03	<1	<1	<200	<200	<51	<200	<0.269	8.5
2,6-Dichlorophenol	ug/L								<1	<100	<100		<100	<0.397	<3
2-Chlorophenol	ug/L						<0.515	<0.5				<10	<100	<0.194	<3
2-Methylphenol	ug/L								<10	<100	<100	<10.2	<100	<0.252	<3
2-Nitrophenol	ug/L						<0.515	<0.5	<1	<100	<100	<10	<100	<0.104	<3
3&4-Methylphenol	ug/L								<20	<200	<200	<20.4	<200	<0.128	<3
4,6-Dinitro-2-Methylphenol	ug/L						<1.03	<1	<1	<100	<100	<51	<100	<0.362	7.3
4-Chloro-3-Methylphenol	ug/L						<0.515	<0.5	<10	<100	<100	<20	<100	<0.105	3.4
4-Nitrophenol	ug/L						<1.03	1.77	<1	<200	<200	<51	<200	<0.351	5.2
Dinoseb	ug/L								<1	360	<100	<26	<100		
Pentachlorophenol	ug/L	1.53	8.59	2.07	<1	5.23	21.9	26.7	<1	640	120	<51	57	250	4.4
Phenol	ug/L						2.28	<0.5				<10	<100	<0.127	<3
Phenol/2-Chlorophenol	ug/L								<20	<200	<200				
2,3,5,6-Tetrachlorophenol	ug/L						11	<1							<3

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W09

Parameter	Units	6/7/99
2,3,4,6-Tetrachlorophenol	ug/L	4
2,4,5-Trichlorophenol	ug/L	<3
2,4,6-Trichlorophenol	ug/L	<3
2,4-Dichlorophenol	ug/L	<3
2,4-Dimethylphenol	ug/L	<3
2,4-Dinitrophenol	ug/L	20
2,6-Dichlorophenol	ug/L	<3
2-Chlorophenol	ug/L	<3
2-Methylphenol	ug/L	<3
2-Nitrophenol	ug/L	3.9
3&4-Methylphenol	ug/L	<3
4,6-Dinitro-2-Methylphenol	ug/L	<3
4-Chloro-3-Methylphenol	ug/L	<3
4-Nitrophenol	ug/L	<3
Dinoseb	ug/L	
Pentachlorophenol	ug/L	7
Phenol	ug/L	<3
Phenol/2-Chlorophenol	ug/L	
2,3,5,6-Tetrachlorophenol	ug/L	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W10A													
Parameter	Units	1/8/87	6/4/87	9/3/87	12/3/87	3/3/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89	1/25/90	5/3/90
2,3,4,6-Tetrachlorophenol	ug/L														
2,4,5-Trichlorophenol	ug/L														
2,4,6-Trichlorophenol	ug/L														
2,4-Dichlorophenol	ug/L														
2,4-Dimethylphenol	ug/L														
2,4-Dinitrophenol	ug/L														
2,6-Dichlorophenol	ug/L														
2-Chlorophenol	ug/L														
2-Methylphenol	ug/L														
2-Nitrophenol	ug/L														
3&4-Methylphenol	ug/L														
4,6-Dinitro-2-Methylphenol	ug/L														
4-Chloro-3-Methylphenol	ug/L														
4-Nitrophenol	ug/L														
Dinoseb	ug/L														
Pentachlorophenol	ug/L	10800	3200	7510	4830	13500	12100	11900	8600	11500	8580	15200	10100	12700	8450
Phenol	ug/L														
Phenol/2-Chlorophenol	ug/L														
2,3,5,6-Tetrachlorophenol	ug/L														

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W10A

Parameter	Units	9/20/90	12/11/90	1/29/91	5/1/91	6/19/91	10/8/91	7/8/92	12/18/92	6/30/93	12/28/93	6/22/94	7/6/95	7/9/96	7/11/97
2,3,4,6-Tetrachlorophenol	ug/L									650	1000	1600	960	<5000	1700
2,4,5-Trichlorophenol	ug/L									220	<200	540	<250	<5000	<0.453
2,4,6-Trichlorophenol	ug/L							108	<1	<100	<100	450	<250	<5000	<0.469
2,4-Dichlorophenol	ug/L							<0.526	<0.5	<100	120	<100	<250	<5000	<0.344
2,4-Dimethylphenol	ug/L							1.67	<0.5	<100	<100	<100	<250	<5000	<0.148
2,4-Dinitrophenol	ug/L							47.4	<1	450	<200	470	<1300	<10000	<0.269
2,6-Dichlorophenol	ug/L									<100	<100	<100		<5000	<0.397
2-Chlorophenol	ug/L							<0.526	<0.5				<250	<5000	<0.194
2-Methylphenol	ug/L									<100	<100	<100	<250	<5000	<0.252
2-Nitrophenol	ug/L							4.82	<0.5	<100	<100	<100	<250	<5000	<0.104
3&4-Methylphenol	ug/L									<200	<200	<200	<500	<10000	<0.128
4,6-Dinitro-2-Methylphenol	ug/L							<1.05	<1	<100	<100	<100	<1300	<5000	<0.362
4-Chloro-3-Methylphenol	ug/L							<0.526	<0.5	<100	<100	<100	<500	<5000	<0.105
4-Nitrophenol	ug/L							3.78	12.3	<200	<200	240	<1300	<10000	<0.351
Dinoseb	ug/L									<100	<100	<100	<630	<5000	
Pentachlorophenol	ug/L	8520	9320	12300	29800	9550	16500	7400	11800	11000	14000	17000	6600	970	24000
Phenol	ug/L							0.714	60.4				<250	<5000	800
Phenol/2-Chlorophenol	ug/L									<200	220	<200			
2,3,5,6-Tetrachlorophenol	ug/L							13.1	19.7						

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W10A		
Parameter	Units	6/24/98	6/8/99
2,3,4,6-Tetrachlorophenol	ug/L		<750
2,4,5-Trichlorophenol	ug/L	<150	<750
2,4,6-Trichlorophenol	ug/L	<150	<750
2,4-Dichlorophenol	ug/L	<150	<750
2,4-Dimethylphenol	ug/L	<150	<750
2,4-Dinitrophenol	ug/L	<150	<750
2,6-Dichlorophenol	ug/L	<150	<750
2-Chlorophenol	ug/L	<150	<750
2-Methylphenol	ug/L	<150	<750
2-Nitrophenol	ug/L	<150	<750
3&4-Methylphenol	ug/L	<150	<750
4,6-Dinitro-2-Methylphenol	ug/L	<150	<750
4-Chloro-3-Methylphenol	ug/L	<150	<750
4-Nitrophenol	ug/L	<150	<750
Dinoseb	ug/L		
Pentachlorophenol	ug/L	600	3600
Phenol	ug/L	<150	<750
Phenol/2-Chlorophenol	ug/L		
2,3,5,6-Tetrachlorophenol	ug/L	<150	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W10B

Parameter	Units	7/8/92	12/18/92	6/29/93	12/28/93	6/22/94	7/6/95	7/9/96	7/11/97	6/24/98	6/8/99
2,3,4,6-Tetrachlorophenol	ug/L			1.8	<10	66	<25	<10	8.5		<3
2,4,5-Trichlorophenol	ug/L			<1	<20	27	<10	<10	<0.453	<3	<3
2,4,6-Trichlorophenol	ug/L	<1.07	<1	<1	<10	16	<10	<10	<0.469	<3	<3
2,4-Dichlorophenol	ug/L	1.31	<0.5	<1	<10	<10	<10	<10	<0.344	<3	<3
2,4-Dimethylphenol	ug/L	<0.535	<0.5	<10	<10	<10	<10	<10	<0.148	<3	<3
2,4-Dinitrophenol	ug/L	<1.07	<1	<1	<20	<20	<50	<20	<0.269	<3	<3
2,6-Dichlorophenol	ug/L			<1	<10	<10		<10	<0.397	<3	<3
2-Chlorophenol	ug/L	<0.535	<0.5				<10	<10	<0.194	<3	<3
2-Methylphenol	ug/L			<10	<10	<10	<10	<10	<0.252	<3	<3
2-Nitrophenol	ug/L	<0.535	<0.5	<1	<10	<10	<10	<10	<0.104	<3	<3
3&4-Methylphenol	ug/L			<20	<20	<20	<20	<20	<0.128	<3	<3
4,6-Dinitro-2-Methylphenol	ug/L	<1.07	<1	<1	<10	<10	<50	<10	<0.362	<3	<3
4-Chloro-3-Methylphenol	ug/L	<0.535	<0.5	<10	<10	17	<20	<10	<0.105	<3	<3
4-Nitrophenol	ug/L	<1.07	<1	<1	<20	<20	<50	<20	<0.351	<3	<3
Dinoseb	ug/L			<1	<10	<10	<25	<10			
Pentachlorophenol	ug/L	39.2	30.3	8.4	23	33	<50	7.7	76	11	3.4
Phenol	ug/L	<0.535	<0.5				<10	<10	<0.127	<3	<3
Phenol/2-Chlorophenol	ug/L			<20	<20	<20					
2,3,5,6-Tetrachlorophenol	ug/L	<1.07	<1							<3	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W11

Parameter	Units	1/8/87	6/4/87	9/3/87	12/3/87	3/3/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89	1/25/90	5/3/90
2,3,4,6-Tetrachlorophenol	ug/L														
2,4,5-Trichlorophenol	ug/L														
2,4,6-Trichlorophenol	ug/L														
2,4-Dichlorophenol	ug/L														
2,4-Dimethylphenol	ug/L														
2,4-Dinitrophenol	ug/L														
2,6-Dichlorophenol	ug/L														
2-Chlorophenol	ug/L														
2-Methylphenol	ug/L														
2-Nitrophenol	ug/L														
3&4-Methylphenol	ug/L														
4,6-Dinitro-2-Methylphenol	ug/L														
4-Chloro-3-Methylphenol	ug/L														
4-Nitrophenol	ug/L														
Dinoseb	ug/L														
Pentachlorophenol	ug/L	2050	2410	49.3	163	824	<1	1000	329	321	384	142	1.66	300	736
Phenol	ug/L														
Phenol/2-Chlorophenol	ug/L														
2,3,5,6-Tetrachlorophenol	ug/L														

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W11

Parameter	Units	9/21/90	12/12/90	1/30/91	5/1/91	6/19/91	10/8/91	6/18/92	12/17/92	6/30/93	12/28/93	6/21/94	7/5/95	7/9/96	7/11/97
2,3,4,6-Tetrachlorophenol	ug/L									<1	<10	17	<25	<10	<0.182
2,4,5-Trichlorophenol	ug/L									<1	<20	<20	<10	<10	<0.453
2,4,6-Trichlorophenol	ug/L							<1.02	<1	<1	<10	<10	<10	<10	<0.469
2,4-Dichlorophenol	ug/L							<0.51	<0.5	<1	<10	<10	<10	<10	<0.344
2,4-Dimethylphenol	ug/L							<0.51	<0.5	<10	<10	<10	<10	<10	<0.148
2,4-Dinitrophenol	ug/L							<1.02	<1	<1	<20	<20	<50	<20	<0.269
2,6-Dichlorophenol	ug/L									<1	<10	<10		<10	<0.397
2-Chlorophenol	ug/L							<0.51	<0.5				<10	<10	<0.194
2-Methylphenol	ug/L									<10	<10	<10	<10	<10	<0.252
2-Nitrophenol	ug/L							<0.51	<0.5	<1	<10	<10	<10	<10	<0.104
3&4-Methylphenol	ug/L									<20	<20	<20	<20	<20	<0.128
4,6-Dinitro-2-Methylphenol	ug/L							<1.02	<1	<1	<10	<10	<50	<10	<0.362
4-Chloro-3-Methylphenol	ug/L							<0.51	<0.5	<10	<10	<10	<20	<10	<0.105
4-Nitrophenol	ug/L							<1.02	<1	<1	<20	<20	<50	<20	<0.351
Dinoseb	ug/L									<1	<10	<10	<25	<10	
Pentachlorophenol	ug/L	2940	2690	3080	2410	1420	891	44.4	209	82	70	140	<50	25	8.3
Phenol	ug/L							7.16	<0.5				<10	<10	<0.127
Phenol/2-Chlorophenol	ug/L									<20	<20	<20			
2,3,5,6-Tetrachlorophenol	ug/L							<1.02	<1						

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W11		
Parameter	**Units**	**6/24/98**	**6/8/99**
2,3,4,6-Tetrachlorophenol	ug/L		<75
2,4,5-Trichlorophenol	ug/L	<15	<75
2,4,6-Trichlorophenol	ug/L	<15	<75
2,4-Dichlorophenol	ug/L	<15	<75
2,4-Dimethylphenol	ug/L	<15	<75
2,4-Dinitrophenol	ug/L	<15	180
2,6-Dichlorophenol	ug/L	<15	<75
2-Chlorophenol	ug/L	<15	<75
2-Methylphenol	ug/L	<15	<75
2-Nitrophenol	ug/L	<15	<75
3&4-Methylphenol	ug/L	<15	<75
4,6-Dinitro-2-Methylphenol	ug/L	<15	<75
4-Chloro-3-Methylphenol	ug/L	<15	<75
4-Nitrophenol	ug/L	<15	<75
Dinoseb	ug/L		
Pentachlorophenol	ug/L	88	180
Phenol	ug/L	<15	<75
Phenol/2-Chlorophenol	ug/L		
2,3,5,6-Tetrachlorophenol	ug/L	<15	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W12

Parameter	Units	6/18/92	12/17/92	6/29/93	12/28/93	6/21/94	7/6/95	7/8/96	7/11/97	6/23/98	6/8/99
2,3,4,6-Tetrachlorophenol	ug/L			<1	<1.1	<10	47	<10	<0.182		<150
2,4,5-Trichlorophenol	ug/L			<1	<1.1	<20	<10	<10	<0.453	<30	<150
2,4,6-Trichlorophenol	ug/L	<1.03	<1	<1	<1.1	<10	<10	<10	<0.469	<30	<150
2,4-Dichlorophenol	ug/L	<0.515	<0.5	<1	<1.1	<10	<10	<10	<0.344	<30	<150
2,4-Dimethylphenol	ug/L	<0.515	<0.5	<10	<11	<10	<10	<10	<0.148	<30	<150
2,4-Dinitrophenol	ug/L	<1.03	<1	<1	<1.1	<20	<50	<20	<0.269	<30	<150
2,6-Dichlorophenol	ug/L			<1	<1.1	<10		<10	<0.397	<30	<150
2-Chlorophenol	ug/L	<0.515	<0.5				<10	<10	<0.194	<30	<150
2-Methylphenol	ug/L			<10	<11	<10	<10	<10	<0.252	<30	<150
2-Nitrophenol	ug/L	<0.515	<0.5	<1	<1.1	14	<10	<10	<0.104	<30	<150
3&4-Methylphenol	ug/L			<20	<22	<20	<20	<20	<0.128	<30	<150
4,6-Dinitro-2-Methylphenol	ug/L	<1.03	<1	<1	<1.1	<10	<50	<10	<0.362	<30	<150
4-Chloro-3-Methylphenol	ug/L	<0.515	<0.5	<10	<11	<10	<20	<10	<0.105	<30	<150
4-Nitrophenol	ug/L	<1.03	<1	<1	<1.1	<20	<50	<20	<0.351	<30	<150
Dinoseb	ug/L			<1	<1.1	<10	<25	<10			
Pentachlorophenol	ug/L	2.83	3.67	<1	<1.1	73	210	1.5	3.5	220	290
Phenol	ug/L	11.4	<0.5				<10	<10	<0.127	<30	<150
Phenol/2-Chlorophenol	ug/L			<20	<22	<20					
2,3,5,6-Tetrachlorophenol	ug/L	<1.03	<1							<30	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W13

Parameter	Units	6/22/92	12/19/92	6/30/93	12/27/93	4/25/94	6/22/94	10/4/94	3/10/95	7/6/95	9/13/95	3/20/96	7/10/96	9/25/96	7/11/97
2,3,4,6-Tetrachlorophenol	ug/L			<100	120	190	120	12	<100	33	<100	<100	<100	99	<0.182
2,4,5-Trichlorophenol	ug/L			<200	<200	25	<200	<20	<200	<10	<100	<100	<100	<0.73	<0.453
2,4,6-Trichlorophenol	ug/L	<1.02	<1	<100	<100	<10	<100	<10	<100	<10	<100	<100	<100	1.4	<0.469
2,4-Dichlorophenol	ug/L	<0.51	<0.5	<100	<100	<10	<100	<10	<100	<10	<100	<100	<100	<0.8	<0.344
2,4-Dimethylphenol	ug/L	<0.51	<0.5	<100	<100	<10	<100	<10	<100	<10	<100	<100	<100	<1.5	<0.148
2,4-Dinitrophenol	ug/L	<1.02	<1	<200	<200	21	<200	<20	<200	<50	<200	<200	<200	<0.72	<0.269
2,6-Dichlorophenol	ug/L			<100	<100	<10	<100	<10	<100		<100	<100	<100	<0.87	<0.397
2-Chlorophenol	ug/L	<0.51	<0.5							<10	<100	<100	<100	<1.2	<0.194
2-Methylphenol	ug/L			<100	<100	<10	<100	<10	<100	<10	<100	<100	<100	<0.79	<0.252
2-Nitrophenol	ug/L	<0.51	<0.5	<100	<100	<10	<100	<10	<100	<10	<100	<100	<100	<1.5	<0.104
3&4-Methylphenol	ug/L			<200	<200	<20	<200	<20	<200	<20	<200	<200	<200	<1.7	<0.128
4,6-Dinitro-2-Methylphenol	ug/L	<1.02	<1	<100	<100	11	<100	<10	<100	<50	<100	<100	<100	<0.75	<0.362
4-Chloro-3-Methylphenol	ug/L	<0.51	<0.5	<100	<100	<10	<100	<10	<100	<20	<100	<100	<100	<0.69	<0.105
4-Nitrophenol	ug/L	<1.02	<1	<200	<200	<20	<200	<20	<200	<50	<200	<200	<200	<0.74	<0.351
Dinoseb	ug/L			<100	<100	<10	<100	<10	<100	<25	<100	<100	<100	<0.85	
Pentachlorophenol	ug/L	636	4550	540	1800	520	1500	220	530	390	110	740	28	754	260
Phenol	ug/L	4.42	<0.5							<10	<100	<100	<100	<1	<0.127
Phenol/2-Chlorophenol	ug/L			<200	<200	<20	<200	<20	<200						
2,3,5,6-Tetrachlorophenol	ug/L	<1.02	<1												

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W13

Parameter	Units	1/2/98	6/24/98	1/26/99	6/9/99
2,3,4,6-Tetrachlorophenol	ug/L	<0.182		<30	<30
2,4,5-Trichlorophenol	ug/L	<0.453	<30	<30	<30
2,4,6-Trichlorophenol	ug/L	<0.469	<30	<30	<30
2,4-Dichlorophenol	ug/L	<0.344	<30	<30	<30
2,4-Dimethylphenol	ug/L	<0.148	<30	<30	<30
2,4-Dinitrophenol	ug/L	<0.269	<30	<30	<30
2,6-Dichlorophenol	ug/L	<0.397	<30	<30	<30
2-Chlorophenol	ug/L	<0.194	<30	<30	<30
2-Methylphenol	ug/L	<0.252	<30	<30	<30
2-Nitrophenol	ug/L	<0.104	<30	<30	<30
3&4-Methylphenol	ug/L	<0.128	<30	<30	<30
4,6-Dinitro-2-Methylphenol	ug/L	<0.362	<30	<30	<30
4-Chloro-3-Methylphenol	ug/L	<0.105	<30	<30	<30
4-Nitrophenol	ug/L	<0.351	<30	<30	<30
Dinoseb	ug/L				
Pentachlorophenol	ug/L	140	150	120	55
Phenol	ug/L	<0.127	<30	<30	<30
Phenol/2-Chlorophenol	ug/L				
2,3,5,6-Tetrachlorophenol	ug/L		<30		

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W14													
Parameter	Units	1/8/87	6/4/87	9/3/87	12/3/87	3/3/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89	1/25/90	5/3/90
2,3,4,6-Tetrachlorophenol	ug/L														
2,4,5-Trichlorophenol	ug/L														
2,4,6-Trichlorophenol	ug/L														
2,4-Dichlorophenol	ug/L														
2,4-Dimethylphenol	ug/L														
2,4-Dinitrophenol	ug/L														
2,6-Dichlorophenol	ug/L														
2-Chlorophenol	ug/L														
2-Methylphenol	ug/L														
2-Nitrophenol	ug/L														
3&4-Methylphenol	ug/L														
4,6-Dinitro-2-Methylphenol	ug/L														
4-Chloro-3-Methylphenol	ug/L														
4-Nitrophenol	ug/L														
Dinoseb	ug/L														
Pentachlorophenol	ug/L	<1	<1	<1	4.74	<1	<1	<1	<1	1.93	<1	<1	<1	<1	<1
Phenol	ug/L														
Phenol/2-Chlorophenol	ug/L														
2,3,5,6-Tetrachlorophenol	ug/L														

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W14

Parameter	Units	9/21/90	12/12/90	1/30/91	5/1/91	6/18/91	10/8/91	6/24/92	12/18/92	6/29/93	12/28/93	6/21/94	7/6/95	7/8/96	7/11/97
2,3,4,6-Tetrachlorophenol	ug/L									<1	<10	<10	<25	<10	<0.182
2,4,5-Trichlorophenol	ug/L									<1	<20	<20	<10	<10	<0.453
2,4,6-Trichlorophenol	ug/L							<1.02	<1	<1	<10	<10	<10	<10	<0.469
2,4-Dichlorophenol	ug/L							2.39	<0.5	<1	<10	<10	<10	<10	<0.344
2,4-Dimethylphenol	ug/L							<0.51	<0.5	<10	<10	<10	<10	<10	<0.148
2,4-Dinitrophenol	ug/L							<1.02	<1	<1	<20	<20	<50	<20	<0.269
2,6-Dichlorophenol	ug/L									<1	<10	<10		<10	<0.397
2-Chlorophenol	ug/L							<0.51	<0.5				<10	<10	<0.194
2-Methylphenol	ug/L									<10	<10	<10	<10	<10	<0.252
2-Nitrophenol	ug/L							<0.51	<0.5	<1	<10	<10	<10	<10	<0.104
3&4-Methylphenol	ug/L									<20	<20	<20	<20	<20	<0.128
4,6-Dinitro-2-Methylphenol	ug/L							1.23	<1	<1	<10	<10	<50	<10	<0.362
4-Chloro-3-Methylphenol	ug/L							0.582	<0.5	<10	<10	<10	<20	<10	<0.105
4-Nitrophenol	ug/L							<1.02	<1	<1	<20	<20	<50	<20	5
Dinoseb	ug/L									<1	<10	<10	<25	<10	
Pentachlorophenol	ug/L	1.64	<1	1.65	2.79	<1	6.49	<1.02	2.43	<1	11	26	<50	<1	4.7
Phenol	ug/L							<0.51	<0.5				<10	<10	<0.127
Phenol/2-Chlorophenol	ug/L									<20	<20	<20			
2,3,5,6-Tetrachlorophenol	ug/L							<1.02	<1						

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W14		
Parameter	**Units**	**6/23/98**	**6/7/99**
2,3,4,6-Tetrachlorophenol	ug/L		<3
2,4,5-Trichlorophenol	ug/L	<3	<3
2,4,6-Trichlorophenol	ug/L	<3	<3
2,4-Dichlorophenol	ug/L	<3	<3
2,4-Dimethylphenol	ug/L	<3	<3
2,4-Dinitrophenol	ug/L	<3	<3
2,6-Dichlorophenol	ug/L	<3	<3
2-Chlorophenol	ug/L	<3	<3
2-Methylphenol	ug/L	<3	<3
2-Nitrophenol	ug/L	<3	<3
3&4-Methylphenol	ug/L	<3	<3
4,6-Dinitro-2-Methylphenol	ug/L	<3	<3
4-Chloro-3-Methylphenol	ug/L	<3	<3
4-Nitrophenol	ug/L	<3	<3
Dinoseb	ug/L		
Pentachlorophenol	ug/L	6.6	<3
Phenol	ug/L	<3	<3
Phenol/2-Chlorophenol	ug/L		
2,3,5,6-Tetrachlorophenol	ug/L	<3	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W16													
Parameter	Units	1/8/87	6/4/87	9/3/87	12/3/87	3/3/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89	1/25/90	5/3/90
2,3,4,6-Tetrachlorophenol	ug/L														
2,4,5-Trichlorophenol	ug/L														
2,4,6-Trichlorophenol	ug/L														
2,4-Dichlorophenol	ug/L														
2,4-Dimethylphenol	ug/L														
2,4-Dinitrophenol	ug/L														
2,6-Dichlorophenol	ug/L														
2-Chlorophenol	ug/L														
2-Methylphenol	ug/L														
2-Nitrophenol	ug/L														
3&4-Methylphenol	ug/L														
4,6-Dinitro-2-Methylphenol	ug/L														
4-Chloro-3-Methylphenol	ug/L														
4-Nitrophenol	ug/L														
Dinoseb	ug/L														
Pentachlorophenol	ug/L	12.4	27.3	<1	<1	13.9	<1	13.7	19.8	2.34	265	2.04	1.49	31	1.66
Phenol	ug/L														
Phenol/2-Chlorophenol	ug/L														
2,3,5,6-Tetrachlorophenol	ug/L														

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W16

Parameter	Units	9/21/90	12/12/90	1/30/91	5/1/91	6/19/91	10/8/91	6/16/92	12/18/92	6/29/93	12/28/93	6/21/94	7/6/95	7/8/96	7/11/97
2,3,4,6-Tetrachlorophenol	ug/L									<1	<10	<10	<34	<10	<0.182
2,4,5-Trichlorophenol	ug/L									<1	<20	<20	<14	<10	<0.453
2,4,6-Trichlorophenol	ug/L							<1.02	<1	<1	<10	<10	<14	<10	<0.469
2,4-Dichlorophenol	ug/L							<0.51	<0.5	<1	<10	<10	<14	<10	<0.344
2,4-Dimethylphenol	ug/L							<0.51	<0.5	<10	<10	<10	<14	<10	<0.148
2,4-Dinitrophenol	ug/L							<1.02	<1	<1	<20	<20	<69	<20	<0.269
2,6-Dichlorophenol	ug/L									<1	<10	<10		<10	<0.397
2-Chlorophenol	ug/L							<0.51	<0.5				<14	<10	<0.194
2-Methylphenol	ug/L									<10	<10	<10	<13.7	<10	<0.252
2-Nitrophenol	ug/L							<0.51	<0.5	<1	<10	<10	<14	<10	<0.104
3&4-Methylphenol	ug/L									<20	<20	<20	<27.4	<20	<0.128
4,6-Dinitro-2-Methylphenol	ug/L							<1.02	<1	<1	<10	<10	<69	<10	<0.362
4-Chloro-3-Methylphenol	ug/L							<0.51	<0.5	<10	<10	<10	<27	<10	<0.105
4-Nitrophenol	ug/L							<1.02	<1	<1	<20	<20	<69	<20	<0.351
Dinoseb	ug/L									<1	<10	<10	<34	<10	
Pentachlorophenol	ug/L	3.44	1.93	4.53	<1	2.03	5.35	<1.02	4.79	<1	11	43	<69	<1	2.9
Phenol	ug/L							27.6	<0.5				<14	<10	<0.127
Phenol/2-Chlorophenol	ug/L									<20	<20	<20			
2,3,5,6-Tetrachlorophenol	ug/L							<1.02	<1						

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W16		
Parameter	Units	6/24/98	6/7/99
2,3,4,6-Tetrachlorophenol	ug/L		<3
2,4,5-Trichlorophenol	ug/L	<3	<3
2,4,6-Trichlorophenol	ug/L	<3	<3
2,4-Dichlorophenol	ug/L	<3	<3
2,4-Dimethylphenol	ug/L	<3	<3
2,4-Dinitrophenol	ug/L	<3	<3
2,6-Dichlorophenol	ug/L	<3	<3
2-Chlorophenol	ug/L	<3	<3
2-Methylphenol	ug/L	<3	<3
2-Nitrophenol	ug/L	<3	<3
3&4-Methylphenol	ug/L	<3	<3
4,6-Dinitro-2-Methylphenol	ug/L	<3	<3
4-Chloro-3-Methylphenol	ug/L	<3	<3
4-Nitrophenol	ug/L	<3	<3
Dinoseb	ug/L		
Pentachlorophenol	ug/L	<3	<3
Phenol	ug/L	<3	<3
Phenol/2-Chlorophenol	ug/L		
2,3,5,6-Tetrachlorophenol	ug/L	<3	

Summary of Analytical Data
Waulcco, Inc.
Wausau, Wisconsin

Well ID:	W18

Parameter	Units	2/25/92	7/8/92	9/17/92	12/17/92	3/23/93	6/29/93	12/28/93	6/22/94	7/5/95	7/9/96	7/11/97	6/24/98	6/8/99
2,3,4,6-Tetrachlorophenol	ug/L						750	840	1000	<640	<5000	<0.182		<30
2,4,5-Trichlorophenol	ug/L						<200	52	400	<260	<5000	55	<300	<30
2,4,6-Trichlorophenol	ug/L	146	<1.02	<1	<1	<6	<100	170	400	<260	<5000	<0.469	<300	<30
2,4-Dichlorophenol	ug/L	<5	70.8	29.6	15	<2	<100	<10	220	<260	<5000	<0.344	<300	<30
2,4-Dimethylphenol	ug/L	<5	9.67	<0.5	<0.5	<2	<100	23	<100	<260	<5000	53	<300	<30
2,4-Dinitrophenol	ug/L	<10	85.9	<1	<1	<6	<200	45	350	<1300	<10000	<0.269	<300	<30
2,6-Dichlorophenol	ug/L						<100	16	<100		<5000	<0.397	<300	<30
2-Chlorophenol	ug/L	<5	<0.51	1.68	<0.5	<2				<260	<5000	<0.194	<300	<30
2-Methylphenol	ug/L						<100	14	<100	<255	<5000	<0.252	<300	<30
2-Nitrophenol	ug/L	17.3	3.6	4.25	<0.5	<2	<100	<10	<100	<260	<5000	<0.104	<300	<30
3&4-Methylphenol	ug/L						<200	<20	<200	<510	<10000	<0.128	<300	<30
4,6-Dinitro-2-Methylphenol	ug/L	<10	<1.02	4.39	<1	<10	<100	<10	<100	<1300	<5000	<0.362	<300	<30
4-Chloro-3-Methylphenol	ug/L	<5	24.9	<0.5	<0.5	<10	<100	100	<100	<510	<5000	67	<300	<30
4-Nitrophenol	ug/L	<10	<1.02	102	<1	<10	<200	<20	<200	<1300	<10000	<0.351	<300	<30
Dinoseb	ug/L						<100	<10	<100	<640	<5000			
Pentachlorophenol	ug/L	11800	9380	11600	19500	7470	13000	5600	11000	5100	1100	15000	2500	250
Phenol	ug/L	<5	27	<0.5	60.7	<2				<260	<5000	320	<300	<30
Phenol/2-Chlorophenol	ug/L						<200	90	<200					
2,3,5,6-Tetrachlorophenol	ug/L	<10	17	47.8	33.8	<20							<300	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W21

Parameter	Units	1/8/87	6/4/87	9/3/87	12/3/87	3/3/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89	1/25/90	5/3/90
2,3,4,6-Tetrachlorophenol	ug/L														
2,4,5-Trichlorophenol	ug/L														
2,4,6-Trichlorophenol	ug/L														
2,4-Dichlorophenol	ug/L														
2,4-Dimethylphenol	ug/L														
2,4-Dinitrophenol	ug/L														
2,6-Dichlorophenol	ug/L														
2-Chlorophenol	ug/L														
2-Methylphenol	ug/L														
2-Nitrophenol	ug/L														
3&4-Methylphenol	ug/L														
4,6-Dinitro-2-Methylphenol	ug/L														
4-Chloro-3-Methylphenol	ug/L														
4-Nitrophenol	ug/L														
Dinoseb	ug/L														
Pentachlorophenol	ug/L	1.96	<1	<1	<1	<1	<1	5.55	182	2.47	<1	<1	<1	3.86	1.09
Phenol	ug/L														
Phenol/2-Chlorophenol	ug/L														
2,3,5,6-Tetrachlorophenol	ug/L														

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W21

Parameter	Units	9/21/90	12/12/90	1/30/91	5/1/91	6/19/91	10/8/91	6/24/92	12/18/92	6/29/93	12/28/93	6/22/94	7/6/95	7/8/96	7/11/97
2,3,4,6-Tetrachlorophenol	ug/L									<1	<10	100	<25	<10	<0.182
2,4,5-Trichlorophenol	ug/L									<1	<20	56	<10	<10	<0.453
2,4,6-Trichlorophenol	ug/L							<1.02	<1	<1	<10	27	<10	<10	<0.469
2,4-Dichlorophenol	ug/L							<0.51	<0.5	<1	<10	<10	<10	<10	<0.344
2,4-Dimethylphenol	ug/L							<0.51	<0.5	<10	<10	<10	<10	<10	<0.148
2,4-Dinitrophenol	ug/L							<1.02	<1	<1	<20	<20	<50	<20	<0.269
2,6-Dichlorophenol	ug/L									<1	<10	<10		<10	<0.397
2-Chlorophenol	ug/L							<0.51	<0.5				<10	<10	<0.194
2-Methylphenol	ug/L									<10	<10	<10	<10	<10	<0.252
2-Nitrophenol	ug/L							<0.51	<0.5	<1	<10	<10	<10	<10	<0.104
3&4-Methylphenol	ug/L									<20	<20	<20	<20	<20	<0.128
4,6-Dinitro-2-Methylphenol	ug/L							<1.02	<1	<1	<10	<10	<50	<10	<0.362
4-Chloro-3-Methylphenol	ug/L							<0.51	<0.5	<10	<10	<10	<20	<10	<0.105
4-Nitrophenol	ug/L							<1.02	<1	<1	<20	<20	<50	<20	<0.351
Dinoseb	ug/L									<1	<10	<10	<25	<10	
Pentachlorophenol	ug/L	8.96	2.36	1.84	<1	2.33	4.21	<1.02	26.5	2.8	33	44	<50	<1	3.1
Phenol	ug/L							<0.51	2.63				<10	<10	<0.127
Phenol/2-Chlorophenol	ug/L									<20	<20	<20			
2,3,5,6-Tetrachlorophenol	ug/L							<1.02	<1						

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W21		
Parameter	Units	6/23/98	6/7/99
2,3,4,6-Tetrachlorophenol	ug/L		<3
2,4,5-Trichlorophenol	ug/L	<3	<3
2,4,6-Trichlorophenol	ug/L	<3	<3
2,4-Dichlorophenol	ug/L	<3	<3
2,4-Dimethylphenol	ug/L	<3	<3
2,4-Dinitrophenol	ug/L	<3	<3
2,6-Dichlorophenol	ug/L	<3	<3
2-Chlorophenol	ug/L	<3	<3
2-Methylphenol	ug/L	<3	<3
2-Nitrophenol	ug/L	<3	<3
3&4-Methylphenol	ug/L	<3	<3
4,6-Dinitro-2-Methylphenol	ug/L	<3	<3
4-Chloro-3-Methylphenol	ug/L	<3	<3
4-Nitrophenol	ug/L	<3	<3
Dinoseb	ug/L		
Pentachlorophenol	ug/L	5.1	<3
Phenol	ug/L	<3	<3
Phenol/2-Chlorophenol	ug/L		
2,3,5,6-Tetrachlorophenol	ug/L	<3	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W22

Parameter	Units	2/25/92	6/14/92	9/17/92	12/18/92	3/24/93	6/30/93	12/28/93	4/25/94	6/22/94	10/4/94	3/9/95	7/6/95	9/13/95	12/18/95
2,3,4,6-Tetrachlorophenol	ug/L						<1	<100	430	2900	190	<1000	<630	<1000	<100
2,4,5-Trichlorophenol	ug/L						<1	<200	<20	930	<100	<2000	<250	<1000	<100
2,4,6-Trichlorophenol	ug/L	<10	<11.1	<1	1230	<6	<1	<100	<10	1800	<50	<1000	<250	<1000	<100
2,4-Dichlorophenol	ug/L	<5	77.9	1.62	<0.5	<2	<1	<100	140	600	<50	<1000	<250	<1000	<100
2,4-Dimethylphenol	ug/L	<5	<5.56	<0.5	<0.5	<2	<10	<100	110	<100	<50	<1000	<250	<1000	<100
2,4-Dinitrophenol	ug/L	<10	<11.1	<1	<1	<6000	<1	<200	45	200	<100	<2000	<1300	<2000	<200
2,6-Dichlorophenol	ug/L						<1	<100	66	310	<50	<1000		<1000	<100
2-Chlorophenol	ug/L	<5	<0.556	<0.5	<0.5	<2							<250	<1000	<100
2-Methylphenol	ug/L						<10	<100	17	<100	<50	<1000	<250	<1000	<100
2-Nitrophenol	ug/L	<5	<5.56	<0.5	70.1	<2	<1	<100	110	210	<50	<1000	<250	<1000	<100
3&4-Methylphenol	ug/L						<20	<200	<20	<200	<100	<2000	<500	<2000	<200
4,6-Dinitro-2-Methylphenol	ug/L	12	1.7	<1	<1	<10	<1	<100	19	150	<50	<1000	<1300	<1000	<100
4-Chloro-3-Methylphenol	ug/L	<5	<5.56	<0.5	<0.5	<10	<10	<100	130	300	<50	<1000	<500	<1000	<100
4-Nitrophenol	ug/L	<10	<1.11	1.14	25.8	<10	<1	<200	71	300	<100	<2000	<1300	<2000	<200
Dinoseb	ug/L						<1	<100	24	<100	<50	<1000	<630	<1000	<100
Pentachlorophenol	ug/L	37300	33500	117	74300	81440	1.4	1500	1100	6100	1400	7300	2600	2000	3200
Phenol	ug/L	<5	<0.556	<0.5	119	<2							<250	<1000	<100
Phenol/2-Chlorophenol	ug/L						<20	460	27	<200	<100	<2000			
2,3,5,6-Tetrachlorophenol	ug/L	<10	73.1	<1	69.9	<20									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W22

Parameter	Units	3/21/96	7/10/96	9/25/96	1/21/97	7/11/97	1/2/98	6/24/98	1/26/99
2,3,4,6-Tetrachlorophenol	ug/L	<1000	<1000	1280	1180	3100	<0.182		<7500
2,4,5-Trichlorophenol	ug/L	<1000	<1000	<7.3	<37	<0.453	<0.453	<1500	<7500
2,4,6-Trichlorophenol	ug/L	<1000	<1000	<7.1	<36	<0.469	<0.469	<1500	<7500
2,4-Dichlorophenol	ug/L	<1000	<1000	<8	<40	<0.344	<0.344	<1500	<7500
2,4-Dimethylphenol	ug/L	<1000	<1000	<15	<78	<0.148	<0.148	<1500	<7500
2,4-Dinitrophenol	ug/L	<2000	<2000	<7.2	<36	<0.269	<0.269	<1500	10000
2,6-Dichlorophenol	ug/L	<1000	<1000	<8.7	<44	<0.397	<0.397	<1500	10000
2-Chlorophenol	ug/L	<1000	<1000	<12	<59	500	<0.194	<1500	42000
2-Methylphenol	ug/L	<1000	<1000	<7.9	<40	<0.252	<0.252	<1500	13000
2-Nitrophenol	ug/L	<1000	<1000	<15	<78	<0.104	<0.104	<1500	9100
3&4-Methylphenol	ug/L	<2000	<2000	<17	<87	<0.128	<0.128	<1500	<7500
4,6-Dinitro-2-Methylphenol	ug/L	<1000	<1000	<7.5	<38	<0.362	<0.362	<1500	<7500
4-Chloro-3-Methylphenol	ug/L	<1000	<1000	<6.9	<35	<0.105	<0.105	<1500	<7500
4-Nitrophenol	ug/L	<2000	<2000	<7.4	<37	<0.351	<0.351	<1500	<7500
Dinoseb	ug/L	<1000	<1000	<8.5	<43				
Pentachlorophenol	ug/L	610	730	7540	5800	17000	12000	6800	32000
Phenol	ug/L	<1000	<1000	<10	<53	<0.127	<0.127	<1500	93000
Phenol/2-Chlorophenol	ug/L								
2,3,5,6-Tetrachlorophenol	ug/L							<1500	

Summary of Analytical Data
Waulcco, Inc.
Wausau, Wisconsin

Well ID:	W25

Parameter	Units	2/19/92	7/29/92	9/17/92	12/17/92	3/23/93	6/28/93	12/28/93	4/25/94	6/21/94	10/4/94	3/10/95	3/23/95	5/2/95	5/24/95
2,3,4,6-Tetrachlorophenol	ug/L						<10	16	140	280	<250	<1000	12	<100	<100
2,4,5-Trichlorophenol	ug/L						<20	<1	310	140	<500	<2000	95	<100	<100
2,4,6-Trichlorophenol	ug/L	<1	1.3	10.4	4.04	<6	<10	<1	260	110	<250	<1000	220	<100	<100
2,4-Dichlorophenol	ug/L	7.15	9.9	2.1	10.2	<2	<10	<1	53	110	<250	<1000	120	<100	<100
2,4-Dimethylphenol	ug/L	8	1.87	<0.5	<0.5	<2	<10	<10	52	32	<250	<1000	65	<100	<100
2,4-Dinitrophenol	ug/L	<1	3.09	1.57	<1	<6	<20	<1	190	60	<500	<2000	51	<200	<200
2,6-Dichlorophenol	ug/L						<10	<1	42	32	<250	<1000	<10	<100	<100
2-Chlorophenol	ug/L	5.85	<0.5	0.547	<0.5	<2								<100	<100
2-Methylphenol	ug/L						12	<10	<10	23	<250	<1000	19	<100	<100
2-Nitrophenol	ug/L	<0.5	<0.5	<0.5	<0.5	<2	53	<1	19	77	<250	<1000	54	<100	<100
3&4-Methylphenol	ug/L						13	<20	23	<20	<500	<2000	29	<200	<200
4,6-Dinitro-2-Methylphenol	ug/L	<1	<1	<1	<1	<10	<10	<1	17	33	<250	<1000	150	180	160
4-Chloro-3-Methylphenol	ug/L	<0.5	1.64	<0.5	<0.5	<10	<10	<10	100	41	<250	<1000	10	<100	<100
4-Nitrophenol	ug/L	<1	1.75	1.29	<1	<10	38	<1	28	71	<500	<2000	<20	<200	<200
Dinoseb	ug/L						<10	<1	<10	<10	<250	<1000	<10	<100	<100
Pentachlorophenol	ug/L	3570	71.1	55.4	42.2	99.9	<10	4.3	410	2400	2300	4500	360	1700	1600
Phenol	ug/L	<0.5	<0.5	<0.5	<0.5	<2								<100	<100
Phenol/2-Chlorophenol	ug/L						37	<20	<20	34	<500	<2000	170		
2,3,5,6-Tetrachlorophenol	ug/L	<1	10.3	<1	7.02	<20									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W25

Parameter	Units	6/13/95	7/5/95	7/26/95	9/7/95	9/13/95	1/18/96	3/21/96	7/11/97	1/2/98	6/23/98	1/26/99	6/9/99
2,3,4,6-Tetrachlorophenol	ug/L	<100	320	<100	<10	<1000	<10	<10	<0.182	<0.182		<150	<150
2,4,5-Trichlorophenol	ug/L	<100	<10	<100	<10	<1000	<10	<10	<0.453	<0.453	<150	<150	<150
2,4,6-Trichlorophenol	ug/L	<100	<10	<100	<10	<1000	<10	<10	<0.469	<0.469	<150	<150	<150
2,4-Dichlorophenol	ug/L	<100	<10	<100	<10	<1000	<10	<10	150	<0.344	<150	<150	<150
2,4-Dimethylphenol	ug/L	<100	<10	<100	<10	<1000	<10	<10	<0.148	<0.148	<150	<150	<150
2,4-Dinitrophenol	ug/L	<200	<50	<200	<20	<2000	<20	<20	230	<0.269	<150	<150	<150
2,6-Dichlorophenol	ug/L	<100		<100	<10	<1000	<10	<10	170	<0.397	<150	<150	<150
2-Chlorophenol	ug/L	<100	<10	<100	<10	<1000		<10	<0.194	<0.194	<150	<150	<150
2-Methylphenol	ug/L	<100	<10	<100	<10	<1000	<10	<10	140	<0.252	<150	<150	<150
2-Nitrophenol	ug/L	<100	<10	<100	<10	<1000	<10	<10	160	<0.104	<150	<150	<150
3&4-Methylphenol	ug/L	<200	<20	<200	<20	<2000	<20	<20	<0.128	<0.128	<150	<150	<150
4,6-Dinitro-2-Methylphenol	ug/L	110	<50	160	<10	<1000	<10	<10	<0.362	<0.362	<150	<150	<150
4-Chloro-3-Methylphenol	ug/L	<100	<20	<100	<10	<1000	<10	<10	<0.105	<0.105	<150	<150	<150
4-Nitrophenol	ug/L	<200	<50	<200	<20	<2000	<20	<20	<0.351	<0.351	<150	<150	<150
Dinoseb	ug/L	<100	<25	<100	<10	<1000	<10	<10					
Pentachlorophenol	ug/L	1500	560	180	2.8	810	10	<1	590	120	880	290	230
Phenol	ug/L	<100	<10	<100	<10	<1000		<10	120	<0.127	<150	<150	<150
Phenol/2-Chlorophenol	ug/L						<20						
2,3,5,6-Tetrachlorophenol	ug/L										<150		

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W26

Parameter	Units	2/25/92	6/14/92	9/17/92	12/18/92	3/24/93	6/30/93	12/27/93	4/25/94	6/22/94	10/4/94	3/9/95	7/6/95	9/13/95	3/21/96
2,3,4,6-Tetrachlorophenol	ug/L						1600	1600	4800	2900	4100	<1000	7600	<1000	<2000
2,4,5-Trichlorophenol	ug/L						<200	380	<2000	690	<500	<2000	<10	<1000	<2000
2,4,6-Trichlorophenol	ug/L	<10	<10.5	<1	<1	<3	<100	<100	<1000	1100	<250	<1000	<10	1100	<2000
2,4-Dichlorophenol	ug/L	<5	<5.26	177	<0.5	<1	130	<100	<1000	250	450	<1000	<10	<1000	<2000
2,4-Dimethylphenol	ug/L	<5	<5.26	<0.5	<0.5	<1	<100	<100	<1000	<100	<250	<1000	<10	<1000	<2000
2,4-Dinitrophenol	ug/L	<10	<1.05	<1	<1	<3000	450	<200	<2000	480	<500	<2000	<50	<2000	<4000
2,6-Dichlorophenol	ug/L						<100	<100	<1000	270	<250	<1000		<1000	<2000
2-Chlorophenol	ug/L	<5	<0.526	5.74	<0.5	<1							<10	<1000	<2000
2-Methylphenol	ug/L						<100	<100	<1000	<100	<250	<1000	<10	<1000	<2000
2-Nitrophenol	ug/L	25.7	<5.26	110	71.2	<1	<100	<100	<1000	180	<250	<1000	<10	<1000	<2000
3&4-Methylphenol	ug/L						<200	<200	<2000	<200	<500	<2000	<20	<2000	<4000
4,6-Dinitro-2-Methylphenol	ug/L	<10	<1.05	<1	<1	<5	<100	<100	<1000	<100	<250	<1000	<50	2900	<2000
4-Chloro-3-Methylphenol	ug/L	<5	<5.26	<0.5	<0.5	<5	<100	<100	<1000	280	<250	<1000	<20	<1000	<2000
4-Nitrophenol	ug/L	<10	<1.05	139	<1	<5	<200	<200	<2000	230	<500	2900	<50	<2000	<4000
Dinoseb	ug/L						<100	<100	<1000	<100	<250	<1000	<25	<1000	<2000
Pentachlorophenol	ug/L	22300	26100	31700	45100	30400	16000	3500	32000	6400	12000	14000	<5000	4000	8200
Phenol	ug/L	<5	<0.526	<0.5	152	<1							<10	<1000	<2000
Phenol/2-Chlorophenol	ug/L						<200	<200	<2000	<200	<500	<2000			
2,3,5,6-Tetrachlorophenol	ug/L	<10	69.9	74	40.6	<10									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W26

Parameter	Units	7/9/96	9/25/96	7/11/97	1/2/98	6/24/98	1/27/99	6/9/99
2,3,4,6-Tetrachlorophenol	ug/L	<5000	2950	5100	<0.182		<3000	<1500
2,4,5-Trichlorophenol	ug/L	<5000	<7.3	<0.453	<0.453	<1500	<3000	<1500
2,4,6-Trichlorophenol	ug/L	<5000	87	<0.469	<0.469	<1500	<3000	<1500
2,4-Dichlorophenol	ug/L	<5000	<8	<0.344	<0.344	<1500	<3000	<1500
2,4-Dimethylphenol	ug/L	<5000	<15	<0.148	<0.148	<1500	<3000	<1500
2,4-Dinitrophenol	ug/L	<10000	<7.2	<0.269	<0.269	<1500	<3000	<1500
2,6-Dichlorophenol	ug/L	<5000	<8.7	<0.397	<0.397	<1500	<3000	<1500
2-Chlorophenol	ug/L	<5000	<12	<0.194	<0.194	<1500	<3000	<1500
2-Methylphenol	ug/L	<5000	<7.9	<0.252	<0.252	<1500	<3000	<1500
2-Nitrophenol	ug/L	<5000	<15	<0.104	<0.104	<1500	<3000	<1500
3&4-Methylphenol	ug/L	<10000	<17	<0.128	<0.128	<1500	<3000	<1500
4,6-Dinitro-2-Methylphenol	ug/L	<5000	<7.5	<0.362	<0.362	<1500	<3000	<1500
4-Chloro-3-Methylphenol	ug/L	<5000	54	<0.105	<0.105	<1500	<3000	<1500
4-Nitrophenol	ug/L	<10000	<7.4	<0.351	<0.351	<1500	<3000	<1500
Dinoseb	ug/L	<5000	<8.5					
Pentachlorophenol	ug/L	1800	17300	47000	14000	15000	18000	4600
Phenol	ug/L	<5000	<10	1100	<0.127	<1500	<3000	<1500
Phenol/2-Chlorophenol	ug/L							
2,3,5,6-Tetrachlorophenol	ug/L					1600		

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W27

Parameter	Units	6/24/92	12/17/92	6/30/93	12/28/93	6/22/94	7/6/95	7/9/96	7/11/97	6/24/98	6/8/99
2,3,4,6-Tetrachlorophenol	ug/L			710	3000	3000	<1300	<10000	<0.182		<3000
2,4,5-Trichlorophenol	ug/L			<200	400	210	<500	<10000	<0.453	<3000	<3000
2,4,6-Trichlorophenol	ug/L	<10.5	<1	<100	<100	980	<500	<10000	<0.469	<3000	<3000
2,4-Dichlorophenol	ug/L	<5.26	19	<100	320	150	<500	<10000	<0.344	<3000	<3000
2,4-Dimethylphenol	ug/L	<5.26	7.9	<100	<100	<100	<500	<10000	<0.148	<3000	<3000
2,4-Dinitrophenol	ug/L	<10.5	<1	<200	<200	250	<2500	<20000	<0.269	<3000	<3000
2,6-Dichlorophenol	ug/L			<100	<100	<100		<10000	<0.397	<3000	<3000
2-Chlorophenol	ug/L	<5.26	<0.5				<500	<10000	<0.194	<3000	<3000
2-Methylphenol	ug/L			<100	110	<100	<500	<10000	<0.252	<3000	<3000
2-Nitrophenol	ug/L	32.3	<0.5	<100	<100	<100	<500	<10000	<0.104	<3000	<3000
3&4-Methylphenol	ug/L			<200	<200	<200	<1000	<20000	<0.128	<3000	<3000
4,6-Dinitro-2-Methylphenol	ug/L	<10.5	<1	<100	370	<100	<2500	<10000	<0.362	<3000	<3000
4-Chloro-3-Methylphenol	ug/L	15.7	81.2	<100	<100	270	<1000	<10000	<0.105	<3000	<3000
4-Nitrophenol	ug/L	<10.5	<1	<200	<200	340	<2500	<20000	<0.351	<3000	<3000
Dinoseb	ug/L			<100	<100	<100	<1300	<10000			
Pentachlorophenol	ug/L	16600	21300	10000	30000	33000	7700	3900	25000	16000	14000
Phenol	ug/L	74.4	105				<500	<10000	530	<3000	<3000
Phenol/2-Chlorophenol	ug/L			<200	240	<200					
2,3,5,6-Tetrachlorophenol	ug/L	23.5	<1							<3000	

Summary of Analytical Data
Waulecco, Inc.
Wausau, Wisconsin

Well ID:	W28

Parameter	Units	1/8/87	6/4/87	9/3/87	12/3/87	3/3/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89	1/25/90	5/3/90
2,3,4,6-Tetrachlorophenol	ug/L														
2,4,5-Trichlorophenol	ug/L														
2,4,6-Trichlorophenol	ug/L														
2,4-Dichlorophenol	ug/L														
2,4-Dimethylphenol	ug/L														
2,4-Dinitrophenol	ug/L														
2,6-Dichlorophenol	ug/L														
2-Chlorophenol	ug/L														
2-Methylphenol	ug/L														
2-Nitrophenol	ug/L														
3&4-Methylphenol	ug/L														
4,6-Dinitro-2-Methylphenol	ug/L														
4-Chloro-3-Methylphenol	ug/L														
4-Nitrophenol	ug/L														
Dinoseb	ug/L														
Pentachlorophenol	ug/L	350	887	488	2710	10000	6480	1100	466	1750	3670	57.4	226	301	4460
Phenol	ug/L														
Phenol/2-Chlorophenol	ug/L														
2,3,5,6-Tetrachlorophenol	ug/L														

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W28

Parameter	Units	9/20/90	12/11/90	1/29/91	5/1/91	6/18/91	10/8/91	7/8/92	12/17/92	6/29/93	12/28/93	6/22/94	7/5/95	7/9/96	7/11/97
2,3,4,6-Tetrachlorophenol	ug/L									120	46	53	87	<100	<0.182
2,4,5-Trichlorophenol	ug/L									<20	<20	<20	<10	<100	<0.453
2,4,6-Trichlorophenol	ug/L							<1.49	2.62	<10	<10	<10	<10	<100	<0.469
2,4-Dichlorophenol	ug/L							<0.746	<0.5	<10	<10	<10	<10	<100	<0.344
2,4-Dimethylphenol	ug/L							<0.746	<0.5	<10	<10	<10	<10	<100	<0.148
2,4-Dinitrophenol	ug/L							<1.49	<1	<20	<20	<20	<50	<200	<0.269
2,6-Dichlorophenol	ug/L									<10	<10	<10		<100	<0.397
2-Chlorophenol	ug/L							<0.746	<0.5				<10	<100	<0.194
2-Methylphenol	ug/L									<10	<10	<10	<10	<100	<0.252
2-Nitrophenol	ug/L							<0.746	<0.5	<10	<10	<10	<10	<100	<0.104
3&4-Methylphenol	ug/L									<20	<20	<20	<20	<200	<0.128
4,6-Dinitro-2-Methylphenol	ug/L							<1.49	<1	<10	<10	<10	<50	<100	<0.362
4-Chloro-3-Methylphenol	ug/L							<0.746	<0.5	<10	<10	<10	<20	<100	<0.105
4-Nitrophenol	ug/L							<1.49	<1	<20	<20	<20	<50	<200	<0.351
Dinoseb	ug/L									<10	<10	<10	<25	<100	
Pentachlorophenol	ug/L	2260	2120	3150	4600	4600	4270	793	6640	2300	800	660	380	83	150
Phenol	ug/L							<0.746	3.15				<10	<100	<0.127
Phenol/2-Chlorophenol	ug/L									<20	<20	<20			
2,3,5,6-Tetrachlorophenol	ug/L							<1.49	4.29						

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W28		
Parameter	Units	6/24/98	6/8/99
2,3,4,6-Tetrachlorophenol	ug/L		<15
2,4,5-Trichlorophenol	ug/L	<6	<15
2,4,6-Trichlorophenol	ug/L	<6	<15
2,4-Dichlorophenol	ug/L	<6	<15
2,4-Dimethylphenol	ug/L	<6	<15
2,4-Dinitrophenol	ug/L	<6	<15
2,6-Dichlorophenol	ug/L	<6	<15
2-Chlorophenol	ug/L	<6	<15
2-Methylphenol	ug/L	<6	<15
2-Nitrophenol	ug/L	<6	<15
3&4-Methylphenol	ug/L	<6	<15
4,6-Dinitro-2-Methylphenol	ug/L	<6	<15
4-Chloro-3-Methylphenol	ug/L	<6	<15
4-Nitrophenol	ug/L	<6	<15
Dinoseb	ug/L		
Pentachlorophenol	ug/L	61	34
Phenol	ug/L	<6	<15
Phenol/2-Chlorophenol	ug/L		
2,3,5,6-Tetrachlorophenol	ug/L	<6	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W29

Parameter	Units	1/8/87	6/4/87	9/3/87	12/3/87	3/3/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89	1/25/90	5/3/90
2,3,4,6-Tetrachlorophenol	ug/L														
2,4,5-Trichlorophenol	ug/L														
2,4,6-Trichlorophenol	ug/L														
2,4-Dichlorophenol	ug/L														
2,4-Dimethylphenol	ug/L														
2,4-Dinitrophenol	ug/L														
2,6-Dichlorophenol	ug/L														
2-Chlorophenol	ug/L														
2-Methylphenol	ug/L														
2-Nitrophenol	ug/L														
3&4-Methylphenol	ug/L														
4,6-Dinitro-2-Methylphenol	ug/L														
4-Chloro-3-Methylphenol	ug/L														
4-Nitrophenol	ug/L														
Dinoseb	ug/L														
Pentachlorophenol	ug/L	10300	33900	12700	18600	16400	560	1600	12800	19000	16500	12700	8520	4960	37.2
Phenol	ug/L														
Phenol/2-Chlorophenol	ug/L														
2,3,5,6-Tetrachlorophenol	ug/L														

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W29

Parameter	Units	9/21/90	12/11/90	1/30/91	5/1/91	6/19/91	6/25/92	12/18/92	6/30/93	12/28/93	6/22/94	7/5/95	7/9/96	7/11/97	6/23/98
2,3,4,6-Tetrachlorophenol	ug/L								<1	81	31	140	<10	<0.182	
2,4,5-Trichlorophenol	ug/L								<1	66	30	<10	93	<0.453	<600
2,4,6-Trichlorophenol	ug/L						<1.02	<1	<1	<10	21	<10	60	<0.469	<600
2,4-Dichlorophenol	ug/L						<0.51	<0.5	<1	<10	<10	<10	24	<0.344	<600
2,4-Dimethylphenol	ug/L						<0.51	<0.5	<10	<10	<10	<10	<10	<0.148	<600
2,4-Dinitrophenol	ug/L						<1.02	<1	<1	<20	<20	<50	73	<0.269	<600
2,6-Dichlorophenol	ug/L								<1	<10	<10		<10	<0.397	<600
2-Chlorophenol	ug/L						<0.51	<0.5				<10	<10	<0.194	<600
2-Methylphenol	ug/L								<10	<10	<10	<10	<10	<0.252	<600
2-Nitrophenol	ug/L						<0.51	<0.5	<1	<10	<10	<10	<10	<0.104	<600
3&4-Methylphenol	ug/L								<20	<20	<20	<20	<20	<0.128	<600
4,6-Dinitro-2-Methylphenol	ug/L						<1.02	<1	<1	<10	<10	<50	450	<0.362	<600
4-Chloro-3-Methylphenol	ug/L						<0.51	<0.5	<10	<10	<10	<20	24	<0.105	<600
4-Nitrophenol	ug/L						<1.02	<1	<1	<20	<20	<50	55	<0.351	<600
Dinoseb	ug/L								<1	<10	<10	<25	<10		
Pentachlorophenol	ug/L	1420	921	373	419	41	120	1100	65	440	120	210	2300	1500	5500
Phenol	ug/L						0.714	3.31				<10	38	<0.127	<600
Phenol/2-Chlorophenol	ug/L								<20	<20	<20				
2,3,5,6-Tetrachlorophenol	ug/L						<1.02	<1							<600

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W29

Parameter	Units	6/8/99
2,3,4,6-Tetrachlorophenol	ug/L	<3
2,4,5-Trichlorophenol	ug/L	<3
2,4,6-Trichlorophenol	ug/L	<3
2,4-Dichlorophenol	ug/L	<3
2,4-Dimethylphenol	ug/L	<3
2,4-Dinitrophenol	ug/L	<3
2,6-Dichlorophenol	ug/L	<3
2-Chlorophenol	ug/L	<3
2-Methylphenol	ug/L	<3
2-Nitrophenol	ug/L	<3
3&4-Methylphenol	ug/L	<3
4,6-Dinitro-2-Methylphenol	ug/L	<3
4-Chloro-3-Methylphenol	ug/L	<3
4-Nitrophenol	ug/L	<3
Dinoseb	ug/L	
Pentachlorophenol	ug/L	<3
Phenol	ug/L	<3
Phenol/2-Chlorophenol	ug/L	
2,3,5,6-Tetrachlorophenol	ug/L	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W32

Parameter	Units	1/8/87	6/4/87	9/3/87	12/3/87	3/3/88	4/7/88	8/10/88	11/15/88	1/26/89	4/27/89	7/27/89	10/26/89	1/25/90	5/3/90
2,3,4,6-Tetrachlorophenol	ug/L														
2,4,5-Trichlorophenol	ug/L														
2,4,6-Trichlorophenol	ug/L														
2,4-Dichlorophenol	ug/L														
2,4-Dimethylphenol	ug/L														
2,4-Dinitrophenol	ug/L														
2,6-Dichlorophenol	ug/L														
2-Chlorophenol	ug/L														
2-Methylphenol	ug/L														
2-Nitrophenol	ug/L														
3&4-Methylphenol	ug/L														
4,6-Dinitro-2-Methylphenol	ug/L														
4-Chloro-3-Methylphenol	ug/L														
4-Nitrophenol	ug/L														
Dinoseb	ug/L														
Pentachlorophenol	ug/L	<1	<1	<1	<1	<1	<1	1.45	<1	<1	<1	<1	<1	1.67	1.14
Phenol	ug/L														
Phenol/2-Chlorophenol	ug/L														
2,3,5,6-Tetrachlorophenol	ug/L														

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W32

Parameter	Units	9/21/90	12/11/90	1/30/91	5/1/91	6/19/91	10/8/91	6/24/92	12/19/92	6/29/93	12/28/93	6/22/94	7/5/95	7/8/96	7/11/97
2,3,4,6-Tetrachlorophenol	ug/L									<1	<10	<10	<25	<10	<0.182
2,4,5-Trichlorophenol	ug/L									<1	<20	<20	<10	<10	<0.453
2,4,6-Trichlorophenol	ug/L							<1.02	<1	<1	<10	<10	<10	<10	<0.469
2,4-Dichlorophenol	ug/L							<0.51	<0.5	<1	<10	<10	<10	<10	<0.344
2,4-Dimethylphenol	ug/L							<0.51	<0.5	<10	<10	<10	<10	<10	<0.148
2,4-Dinitrophenol	ug/L							2.05	<1	<1	<20	<20	<50	<20	<0.269
2,6-Dichlorophenol	ug/L									<1	<10	<10		<10	<0.397
2-Chlorophenol	ug/L							<0.51	<0.5				<10	<10	<0.194
2-Methylphenol	ug/L									<10	<10	<10	<10	<10	<0.252
2-Nitrophenol	ug/L							<0.51	<0.5	<1	<10	<10	<10	<10	5.6
3&4-Methylphenol	ug/L									<20	<20	<20	<20	<20	<0.128
4,6-Dinitro-2-Methylphenol	ug/L							<1.02	<1	<1	<10	<10	<50	<10	<0.362
4-Chloro-3-Methylphenol	ug/L							<0.51	<0.5	<10	<10	<10	<20	<10	<0.105
4-Nitrophenol	ug/L							<1.02	<1	<1	<20	<20	<50	<20	<0.351
Dinoseb	ug/L									<1	<10	<10	<25	<10	
Pentachlorophenol	ug/L	2.13	<1	8.36	<1	1.33	3.61	2.08	<1	<1	10	15	<50	5.1	7.2
Phenol	ug/L							0.583	<0.5				<10	<10	<0.127
Phenol/2-Chlorophenol	ug/L									<20	<20	<20			
2,3,5,6-Tetrachlorophenol	ug/L							<1.02	<1						

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W32		
Parameter	Units	6/23/98	6/7/99
2,3,4,6-Tetrachlorophenol	ug/L		<3
2,4,5-Trichlorophenol	ug/L	<3	<3
2,4,6-Trichlorophenol	ug/L	<3	<3
2,4-Dichlorophenol	ug/L	<3	<3
2,4-Dimethylphenol	ug/L	<3	<3
2,4-Dinitrophenol	ug/L	<3	<3
2,6-Dichlorophenol	ug/L	<3	<3
2-Chlorophenol	ug/L	<3	<3
2-Methylphenol	ug/L	<3	<3
2-Nitrophenol	ug/L	<3	<3
3&4-Methylphenol	ug/L	<3	<3
4,6-Dinitro-2-Methylphenol	ug/L	<3	<3
4-Chloro-3-Methylphenol	ug/L	<3	<3
4-Nitrophenol	ug/L	<3	<3
Dinoseb	ug/L		
Pentachlorophenol	ug/L	7.9	<3
Phenol	ug/L	<3	<3
Phenol/2-Chlorophenol	ug/L		
2,3,5,6-Tetrachlorophenol	ug/L	<3	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W36

Parameter	Units	2/20/92	8/3/92	2/17/92	2/13/95	7/10/96	7/11/97	1/2/98	6/25/98	1/27/99	6/9/99
2,3,4,6-Tetrachlorophenol	ug/L				<1000	<500	120	57		<30	<30
2,4,5-Trichlorophenol	ug/L				<1000	<500	94	<0.453	<30	30	<30
2,4,6-Trichlorophenol	ug/L	<1	<10	<1	<1000	<500	71	<0.469	<30	<30	<30
2,4-Dichlorophenol	ug/L	<0.5	11.3	132	<1000	<500	480	310	<30	<30	<30
2,4-Dimethylphenol	ug/L	22.1	<0.5	29.2	<1000	<500	210	170	<30	<30	<30
2,4-Dinitrophenol	ug/L	<1	<10	15.2	<2000	<1000	660	430	<30	<30	<30
2,6-Dichlorophenol	ug/L				<1000	<500	430	230	<30	<30	<30
2-Chlorophenol	ug/L	<0.5	<5	<0.5	<1000	<500	<0.194	<0.194	93	89	<30
2-Methylphenol	ug/L				<1000	<500	1400	540	46	43	<30
2-Nitrophenol	ug/L	<0.5	<5	240	<1000	<500	1200	420	52	<30	<30
3&4-Methylphenol	ug/L				<2000	<1000	440	190	<30	33	<30
4,6-Dinitro-2-Methylphenol	ug/L	<1	<1	<1	<1000	<500	<0.362	150	<30	<30	<30
4-Chloro-3-Methylphenol	ug/L	<0.5	<0.5	<0.5	<1000	<500	240	160	<30	<30	<30
4-Nitrophenol	ug/L	<1	<1	67	<2000	<1000	110	<0.351	<30	<30	<30
Dinoseb	ug/L				<1000	<500					
Pentachlorophenol	ug/L	7180	14800	8350	1700	1800	1600	480	190	240	67
Phenol	ug/L	<0.5	155	<0.5	<1000	<500	1600	<0.127	46	60	<30
2,3,5,6-Tetrachlorophenol	ug/L	<1	<1	26					<30		

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W39

Parameter	Units	6/17/92	12/18/92	6/21/94	3/10/95	9/13/95	12/18/95	3/20/96	7/9/96	1/21/97	7/11/97	1/2/98	6/24/98	6/9/99
2,3,4,6-Tetrachlorophenol	ug/L			2900	<1000	<1000	<1000	<1000	<1000	<7.9	<0.182	<0.182		<150
2,4,5-Trichlorophenol	ug/L			1000	<2000	<1000	<1000	<1000	<1000	<7.5	<0.453	<0.453	<150	<150
2,4,6-Trichlorophenol	ug/L	236	267	3500	<1000	<1000	<1000	<1000	<1000	<7.3	<0.469	310	<150	<150
2,4-Dichlorophenol	ug/L	835	1710	6900	<1000	<1000	<1000	1100	<1000	<8.2	2800	2600	<150	<150
2,4-Dimethylphenol	ug/L	569	<50	2700	1500	1500	<1000	1500	<1000	<16	<0.148	<0.148	<150	<150
2,4-Dinitrophenol	ug/L	<10.3	<100	420	<2000	<2000	<2000	<2000	<2000	<7.4	<0.269	2400	<150	<150
2,6-Dichlorophenol	ug/L			1500	<1000	<1000	<1000	<1000	<1000	<9	3400	710	400	<150
2-Chlorophenol	ug/L	<25.8	<50			<1000	<1000	5000	<1000	<12	<0.194	2400	640	510
2-Methylphenol	ug/L			<100	3600	3300	2100	2300	<1000	<8.1	3800	3800	510	<150
2-Nitrophenol	ug/L	<25.8	<50	5200	10000	<1000	2800	6700	<1000	<16	3300	2200	320	180
3&4-Methylphenol	ug/L			8400	3100	<2000	4400	<2000	<2000	<18	<0.128	<0.128	<150	<150
4,6-Dinitro-2-Methylphenol	ug/L	13.3	<100	310	<1000	<1000	<1000	<1000	<1000	<7.7	<0.362	840	<150	<150
4-Chloro-3-Methylphenol	ug/L	33.9	<50	550	<1000	<1000	<1000	<1000	<1000	<7.1	<0.105	1200	<150	<150
4-Nitrophenol	ug/L	171	178	1300	<2000	<2000	<2000	<2000	<2000	<7.6	<0.351	<0.351	<150	<150
Dinoseb	ug/L			<100	<1000	<1000	<1000	<1000	<1000	<8.8				
Pentachlorophenol	ug/L	9290	13900	6900	3700	1200	2400	1900	170	782	2300	1100	830	1800
Phenol	ug/L	<25.8	<50			<1000	<1000	6900	1000	<11	3600	<0.127	2800	560
Phenol/2-Chlorophenol	ug/L			<200	11000									
2,3,5,6-Tetrachlorophenol	ug/L	360	403										<150	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W41

Parameter	Units	2/25/92	6/16/92	9/17/92	12/19/92	3/24/93	6/30/93	12/28/93	4/25/94	6/21/94	10/4/94	3/10/95	7/6/95	9/13/95	3/20/96
2,3,4,6-Tetrachlorophenol	ug/L						3600	710	1000	930	<500	<1000	480	<1000	<1000
2,4,5-Trichlorophenol	ug/L						<200	<200	<2000	980	<1000	<2000	<11	<1000	<1000
2,4,6-Trichlorophenol	ug/L	<20	703	<1	<1	<2400	<100	150	<1000	820	<500	<1000	<11	3400	<1000
2,4-Dichlorophenol	ug/L	119	227	<0.5	<0.5	<800	<100	320	<1000	430	<500	<1000	<11	<1000	<1000
2,4-Dimethylphenol	ug/L	<10	60.9	<0.5	<0.5	<800	<100	260	<1000	110	<500	<1000	<11	<1000	<1000
2,4-Dinitrophenol	ug/L	<20	170	223	<1	<2400	<200	<200	<2000	1100	<1000	<2000	<53	<2000	<2000
2,6-Dichlorophenol	ug/L						3600	140	<1000	210	<500	<1000		<1000	<1000
2-Chlorophenol	ug/L	<10	<5.1	<0.5	<0.5	<800							<11	<1000	<1000
2-Methylphenol	ug/L						<100	180	<1000	<100	<500	<1000	<10.65	<1000	<1000
2-Nitrophenol	ug/L	85.9	143	<0.5	<0.5	<800	<100	150	<1000	330	<500	<1000	<11	<1000	<1000
3&4-Methylphenol	ug/L						<200	<200	<2000	<200	<1000	<2000	<21.3	<2000	<2000
4,6-Dinitro-2-Methylphenol	ug/L	<20	<51	<1	<1	<4000	<100	<100	<1000	230	<500	<1000	<53	<1000	<1000
4-Chloro-3-Methylphenol	ug/L	68	44.1	<0.5	<0.5	<4000	1600	<100	<1000	250	<500	<1000	<21	<1000	<1000
4-Nitrophenol	ug/L	<20	<51	109	<1	<4000	<200	<200	<2000	500	<1000	<2000	<53	<2000	<2000
Dinoseb	ug/L						<100	<100	<1000	<100	<500	<1000	<27	<1000	<1000
Pentachlorophenol	ug/L	8610	16600	6070	16400	14300	32000	9500	12000	4900	690	3600	3400	9600	7000
Phenol	ug/L	<10	<5.1	<0.5	<0.5	<800							<11	<1000	<1000
Phenol/2-Chlorophenol	ug/L						3600	280	<2000	<200	<1000	<2000			
2,3,5,6-Tetrachlorophenol	ug/L	<20	441	<1	<1	<8000									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W41

Parameter	Units	7/9/96	9/25/96	7/11/97	1/2/98	6/24/98	1/26/99	6/8/99
2,3,4,6-Tetrachlorophenol	ug/L	<2500	1130	<0.182	<0.182		<600	<600
2,4,5-Trichlorophenol	ug/L	<2500	<7.3	<0.453	<0.453	<600	<600	<600
2,4,6-Trichlorophenol	ug/L	<2500	<7.1	<0.469	<0.469	<600	690	<600
2,4-Dichlorophenol	ug/L	<2500	<8	<0.344	<0.344	<600	<600	<600
2,4-Dimethylphenol	ug/L	<2500	<15	<0.148	<0.148	<600	820	<600
2,4-Dinitrophenol	ug/L	<5000	<7.2	<0.269	<0.269	<600	<600	<600
2,6-Dichlorophenol	ug/L	<2500	<8.7	<0.397	<0.397	<600	730	<600
2-Chlorophenol	ug/L	<2500	<12	<0.194	<0.194	<600	<600	<600
2-Methylphenol	ug/L	<2500	<7.9	<0.252	<0.252	<600	890	<600
2-Nitrophenol	ug/L	<2500	<15	<0.104	<0.104	<600	760	<600
3&4-Methylphenol	ug/L	<5000	<17	<0.128	<0.128	<600	<600	<600
4,6-Dinitro-2-Methylphenol	ug/L	<2500	<7.5	<0.362	<0.362	<600	<600	<600
4-Chloro-3-Methylphenol	ug/L	<2500	<6.9	<0.105	<0.105	<600	630	<600
4-Nitrophenol	ug/L	<5000	<7.4	<0.351	<0.351	<600	<600	<600
Dinoseb	ug/L	<2500	<8.5					
Pentachlorophenol	ug/L	10000	13800	18000	3700	5200	6700	5800
Phenol	ug/L	<2500	<10	<0.127	<0.127	<600	1500	<600
Phenol/2-Chlorophenol	ug/L							
2,3,5,6-Tetrachlorophenol	ug/L					<600		

A3

Volatiles

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W01A

Parameter	Units	2/19/92	6/14/92	9/17/92	12/18/92	3/23/93	6/28/93	12/28/93	6/21/94	7/5/95	7/10/96	7/11/97	6/23/98	6/9/99
1,1,1,2-Tetrachloroethane	ug/L					<1		<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	1.1	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L					<1		<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L					<1	<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L					<1		<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L					<1	<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L					140	430	68	320		86.778	300	290	100
1,2-Dibromo-3-chloropropane	ug/L					<3	<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L					<2	<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L					38	110	21	130		11.096	130	140	150
1,3-Dichlorbenzene	ug/L													<0.4
1,3-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L					<1	<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L					<1	<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<10	<10	<100	<10									
2-Chloroethyl vinyl ether	ug/L									<10				
2-Chlorotoluene	ug/L					<1	<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<10	<10	<100	<10									
4-Chlorotoluene	ug/L					<1	<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<10	<10	<100	<10									
Acetone	ug/L	<10	<10		11.7									
Benzene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Bromobenzene	ug/L					<1	<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L					<1		<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Bromoform	ug/L	<5	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<10	<10	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<5	<5	<50	<5									
Carbon tetrachloride	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<10	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<5		<50	<5	5.2	5.2	4.2	1.4	1.2	1.768	<0.2	<0.2	<0.2
Chloromethane	ug/L	<10	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L					<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<5	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L					<1		<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L					<2	<2	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L						<1							<0.3
Ethylbenzene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Hexachlorobutadiene	ug/L					<1	<1	<1	<1		<1	<0.5	<0.6	<0.6

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W01A

Parameter	Units	2/19/92	6/14/92	9/17/92	12/18/92	3/23/93	6/28/93	12/28/93	6/21/94	7/5/95	7/10/96	7/11/97	6/23/98	6/9/99
Isopropylbenzene	ug/L					26	25	4.2	27		2.957	<0.2	38	12
Methyl tert-butyl ether	ug/L						<1							<0.2
Methylene chloride	ug/L	<5	<5		14.1	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5
Naphthalene	ug/L	<10	<11	<10	<10	6	38	4.2	19	3.4	1.214	<0.8	17	7.5
n-Butylbenzene	ug/L					34	130	28	140		10.658	160	180	150
n-Propylbenzene	ug/L					7	25	5.2	23		5.337	<0.3	76	10
p-Isopropyltoluene	ug/L					<1	39	9.7	50		<1	24	67	60
sec-Butylbenzene	ug/L					12	24	8.7	32		<1	14	48	31
Styrene	ug/L	<5	<5	<50	<5	4.4		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L					<1	<1	<1	48		<1	<0.3	<0.3	<0.3
Tetrachloroethene	ug/L	<5	<5	<50	<5	<1	<1	<1	6.3	<1	<1	<0.3	<0.6	<0.6
Toluene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<5	<5	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Trichlorofluoromethane	ug/L					<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<10	<10	<100	<10									
Vinyl chloride	ug/L	<10	<10	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L					<2	15	2.8	15	<2	4.909	<0.4	24	<0.3
Xylene, o-	ug/L					8.9	30	6.3	49	1.7	7.933	<0.2	<0.5	24
Xylenes, Total	ug/L	<5		<50	18.3									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID: W03B

Parameter	Units	6/17/91	2/22/92	9/17/92	12/18/92	3/23/93	6/29/93	12/28/93	6/22/94	7/6/95	7/10/96	7/11/97	6/24/98	6/9/99
1,1,1,2-Tetrachloroethane	ug/L					<1		<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L					<1		<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L					<1	<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L					<1		<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L					<1	<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L					<1	5	3.8	8.2		4.627	<0.7	5.8	1.3
1,2-Dibromo-3-chloropropane	ug/L					<3	<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L					<2	<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L					<1	2.4	1.8	3.3		2.399	<0.4	3.2	1.3
1,3-Dichlorbenzene	ug/L													<0.4
1,3-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L					<1	<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L					<1	<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<100	<10	<100	<10									
2-Chloroethyl vinyl ether	ug/L									<10				
2-Chlorotoluene	ug/L					<1	<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<100	<10	<100	<10									
4-Chlorotoluene	ug/L					<1	<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10	<100	<10									
Acetone	ug/L	<100			<10									
Benzene	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Bromobenzene	ug/L					<1	<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L					<1		<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Bromoform	ug/L	<50	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<100	<10	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<50	<5	<50	<5									
Carbon tetrachloride	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<100	<10	<100	<10	<2	<10	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Chloromethane	ug/L	<100	<10	<100	<10	<2	<20	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L					<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<50	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L					<1		<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L					<2	<40	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L						<1							<0.3
Ethylbenzene	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Hexachlorobutadiene	ug/L					<1	<1	<1	<1		<1	<0.5	<0.6	<0.6

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W03B

Parameter	Units	6/17/91	2/22/92	9/17/92	12/18/92	3/23/93	6/29/93	12/28/93	6/22/94	7/6/95	7/10/96	7/11/97	6/24/98	6/9/99
Isopropylbenzene	ug/L					<1	<1	<1	<1		<1	<0.2	0.8	<0.2
Methyl tert-butyl ether	ug/L						<1							<0.2
Methylene chloride	ug/L	<50	<5		<10	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5
Naphthalene	ug/L	<10	<10		<10	<1	1.5	<1	<1	<1	1.371	<0.8	1.3	<1.1
n-Butylbenzene	ug/L					<1	<1	1.6	3		3.567	<0.6	3.2	3.1
n-Propylbenzene	ug/L					<1	<1	<1	<1		1.051	<0.3	1.1	<0.2
p-Isopropyltoluene	ug/L					<1	<1	<1	<1		1.62	<0.4	1.4	0.8
sec-Butylbenzene	ug/L					<1	1.6	<1	<1		1.117	<0.3	1.1	<0.2
Styrene	ug/L	<50	<5	<50	<5	<1		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L					<1	<1	<1	<1		<1	<0.3	<0.3	<0.3
Tetrachloroethene	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	1.3	<1	<0.3	<0.6	<0.6
Toluene	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<50	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<50	<5	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<50	<5	<50	<5	<1	8.9	<1	2.2	1.8	4.429	1	3.5	0.3
Trichlorofluoromethane	ug/L					<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<100	<10	<100	<10									
Vinyl chloride	ug/L	<100	<10	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L					<2	<2	<2	<2	<2	<2	<0.4	1.4	<0.3
Xylene, o-	ug/L					<1	6.4	<1	1.9	<1	2.243	<0.2	<0.5	<0.5
Xylenes, Total	ug/L	<50	<5	<50	<5									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W08

Parameter	Units	2/20/92	6/14/92	9/17/92	12/19/92	3/23/93	6/28/93	12/27/93	6/21/94	7/6/95	7/8/96	7/11/97	6/23/98	6/7/99
1,1,1,2-Tetrachloroethane	ug/L					<1		<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L					<1		<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L					<1	<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L					<1		<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L					<1	<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L					<1	<1	<1	<1		<1	<0.7	<0.6	<0.6
1,2-Dibromo-3-chloropropane	ug/L					<3	<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L					<2	<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L					<1	<1	<1	<1		<1	<0.4	<0.3	<0.3
1,3-Dichlorbenzene	ug/L													<0.4
1,3-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L					<1	<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L					<1	<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<10	<10	<100	<10									
2-Chloroethyl vinyl ether	ug/L									<10				
2-Chlorotoluene	ug/L					<1	<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<10	<10	<100	<10									
4-Chlorotoluene	ug/L					<1	<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L		<10	<100	<10									
Acetone	ug/L	<10	<10		<10									
Benzene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Bromobenzene	ug/L					<1	<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L					<1		<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Bromoform	ug/L	<5	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<10	<10	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<5	<5	<50	<5									
Carbon tetrachloride	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<10	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L			<50	<5	1.8	1.6	<1	1.3	<1	<1	0.9	1.6	<0.2
Chloromethane	ug/L	<10	<10	<100	<10	<2	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L					<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<5	<5	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L					<1		<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L					<2	<2	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L						<1							<0.3
Ethylbenzene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Hexachlorobutadiene	ug/L					<1	<1	<1	<1		<1	<0.5	<0.6	<0.6

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W08

Parameter	Units	2/20/92	6/14/92	9/17/92	12/19/92	3/23/93	6/28/93	12/27/93	6/21/94	7/6/95	7/8/96	7/11/97	6/23/98	6/7/99
Isopropylbenzene	ug/L					<1	<1	<1	<1		<1	<0.2	<0.2	<0.2
Methyl tert-butyl ether	ug/L						<1							<0.2
Methylene chloride	ug/L	<5	<5		<10	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5
Naphthalene	ug/L	<10	<11	<10	<10	<1	<1	<1	<1	<1	<1	<0.8	<1.1	<1.1
n-Butylbenzene	ug/L					<1	<1	<1	<1		<1	<0.6	<0.3	<0.3
n-Propylbenzene	ug/L					<1	<1	<1	<1		<1	<0.3	<0.2	<0.2
p-Isopropyltoluene	ug/L					<1	<1	<1	<1		<1	<0.4	<0.2	<0.2
sec-Butylbenzene	ug/L					<1	<1	<1	<1		<1	<0.3	<0.2	<0.2
Styrene	ug/L			<50	<5	<1		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L					<1	<1	<1	<1		<1	<0.3	<0.3	<0.3
Tetrachloroethene	ug/L	<5	<5	14	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6
Toluene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<5	<5	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<5	<5	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Trichlorofluoromethane	ug/L					<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L		<10	<100	<10									
Vinyl chloride	ug/L	<10	<10	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L					<2	<2	<2	<2	<2	<2	<0.4	<0.3	<0.3
Xylene, o-	ug/L					<1	<1	<1	<1	<1	<1	<0.2	<0.5	<0.5
Xylenes, Total	ug/L		<5	<50	<5									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W09

Parameter	Units	6/18/92	12/17/92	6/28/93	12/28/93	6/22/94	7/5/95	7/9/96	7/11/97	6/24/98	6/7/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L				<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L				<1	<1		<1	0.15	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L			<1	<1	1.3		1.758	3.4	1	<0.6
1,2-Dibromo-3-chloropropane	ug/L			<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L			<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
1,3-Dichlorbenzene	ug/L										<0.4
1,3-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L			<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<100	<10								
2-Chloroethyl vinyl ether	ug/L						<10				
2-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<100	<10								
4-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10								
Acetone	ug/L	<100	<10								
Benzene	ug/L	<50	<5	<1	2.2	<1	<1	1.652	1.7	1.5	<0.3
Bromobenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L				<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Bromoform	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<50	<5								
Carbon tetrachloride	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Chloromethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L				<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L			<2	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L			<1							<0.3
Ethylbenzene	ug/L	<50	<5	<1	<1	3.1	<1	3.987	4	0.6	<0.2
Hexachlorobutadiene	ug/L			<1	<1	<1		<1	<0.5	<0.6	<0.6

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

WellID:	W09

Parameter	Units	6/18/92	12/17/92	6/28/93	12/28/93	6/22/94	7/5/95	7/9/96	7/11/97	6/24/98	6/7/99
Isopropylbenzene	ug/L			2.5	5.7	5.6		10.883	19	10	6.2
Methyl tert-butyl ether	ug/L			<1							<0.2
Methylene chloride	ug/L	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5
Naphthalene	ug/L			<1	<1	2.2	<1	3.067	7.7	4.6	1.8
n-Butylbenzene	ug/L			2.9	1.6	1.8		3.751	4.5	3.6	2
n-Propylbenzene	ug/L			1.7	<1	3.2		7.79	12	4.8	0.8
p-Isopropyltoluene	ug/L			<1	<1	<1		<1	<0.4	1.4	<0.2
sec-Butylbenzene	ug/L			2	9.4	7.7		8.383	12	9.2	5.7
Styrene	ug/L	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L			<1	<1	<1		1.005	<0.3	1.2	<0.3
Tetrachloroethene	ug/L	<50	<5	<1	<1	<1	1.3	<1	<0.3	<0.6	<0.6
Toluene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Trichlorofluoromethane	ug/L			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<100	<10								
Vinyl chloride	ug/L	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L			<2	<2	<2	<2	<2	1.3	1.8	<0.3
Xylene, o-	ug/L			<1	<1	<1	<1	1.054	<0.2	1.4	<0.5
Xylenes, Total	ug/L	<50	<5								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W10A

Parameter	Units	7/8/92	12/18/92	6/30/93	12/28/93	6/22/94	7/6/95	7/9/96	7/11/97	6/24/98	6/8/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<1		<10	<0.1	<0.3	<6
1,1,1-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<6
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<1	<1	<1	11	<10	<0.2	<0.2	<4
1,1,2-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<10	<10	<1	<0.2	<4
1,1-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<4
1,1-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.4	<0.2	<4
1,1-Dichloropropene	ug/L				<1	<1		<10	<0.2	<0.3	<6
1,2,3-Trichlorobenzene	ug/L			<1	<1	<1		<10	<0.5	<0.4	<8
1,2,3-Trichloropropane	ug/L				<1	<1		<10	<0.3	<0.2	<4
1,2,4-Trichlorobenzene	ug/L			<1	<1	<1		<10	<0.5	<0.3	<6
1,2,4-Trimethylbenzene	ug/L			500	900	700		524.84	440	800	560
1,2-Dibromo-3-chloropropane	ug/L			<3	<3	<3		<30	<0.3	<0.3	<6
1,2-Dibromoethane	ug/L			<2	<2	<2		<20	<0.2	<0.4	<8
1,2-Dichlorobenzene	ug/L			<1	<1	<1	<10	<10	<0.3	<0.3	<6
1,2-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<4
1,2-Dichloropropane	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.1	<0.2	<4
1,3,5-Trimethylbenzene	ug/L			170	140	60		27.746	50	130	60
1,3-Dichlorbenzene	ug/L										<8
1,3-Dichlorobenzene	ug/L			<1	<1	<1	<10	<10	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<1	<1		<10	<0.3	<0.6	<12
1,4-Dichlorobenzene	ug/L			<1	<1	<1	<10	<10	<0.3	<0.3	<6
2,2-Dichloropropane	ug/L			<1	<1	<1		<10	<0.2	<0.5	<10
2-Butanone (MEK)	ug/L	<100	<10								
2-Chloroethyl vinyl ether	ug/L						<100				
2-Chlorotoluene	ug/L			<1	<1	<1		<10	<0.4	<0.3	<6
2-Hexanone	ug/L	<100	<10								
4-Chlorotoluene	ug/L			<1	<1	<1		<10	<0.3	<0.3	<6
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10								
Acetone	ug/L		<10								
Benzene	ug/L	<50	<5	3.3	5.2	5	<10	<10	<0.2	25	<6
Bromobenzene	ug/L			<1	<1	<1		<10	<0.3	<0.2	<4
Bromochloromethane	ug/L				<1	<1		<10	<0.4	<0.2	<4
Bromodichloromethane	ug/L	<50	<5	<1	<1	<1	41	<10	<0.2	<0.2	<4
Bromoform	ug/L	<50	<5		<1	<1	<10	<10	<0.3	<0.2	<4
Bromomethane	ug/L	<100	<10		<2	<2	<20	<20	<0.3	<0.9	<18
Carbon disulfide	ug/L	<50	<5								
Carbon tetrachloride	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.4	<8
Chlorobenzene	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<6
Chlorodibromomethane	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<6
Chloroethane	ug/L	<100	<10	<2	<2	<2	<20	<20	<0.4	<0.8	<16
Chloroform	ug/L	<50	<5	1.4	<1	1.7	<10	<10	<0.2	<0.2	<4
Chloromethane	ug/L	<100	<10	<2	<2	<2	<20	<20	<0.7	<0.9	<18
cis-1,2-Dichloroethene	ug/L			<1	<1	<1	<10	<10	<0.2	<0.2	<4
cis-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<10	<10	<0.3	<0.3	<6
Dibromomethane	ug/L				<1	<1		<10	<0.1	<0.2	<4
Dichlorodifluoromethane	ug/L			<2	<2	<2		<20	<0.3	<1.2	<24
Diisopropyl Ether	ug/L			<1							<6
Ethylbenzene	ug/L	<0.006	35.2	20	38	33	40	34.616	<0.2	40	18
Hexachlorobutadiene	ug/L			<1	<1	<1		<10	<0.5	<0.6	<12

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Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W10A

Parameter	Units	7/8/92	12/18/92	6/30/93	12/28/93	6/22/94	7/6/95	7/9/96	7/11/97	6/24/98	6/8/99
Isopropylbenzene	ug/L			23	41	39		<10	16	50	52
Methyl tert-butyl ether	ug/L			<1							<4
Methylene chloride	ug/L		<10	<3	<3	<3	<30	<30	<0.3	<0.5	<10
Naphthalene	ug/L		62.6	70	100	12	110	79.385	66	140	140
n-Butylbenzene	ug/L			110	58	85		71.212	32	88	72
n-Propylbenzene	ug/L			38	57	<1		63.515	34	78	52
p-Isopropyltoluene	ug/L			<1	<1	3.4		<10	<0.4	35	14
sec-Butylbenzene	ug/L			14	24	<1		<10	<0.3	48	40
Styrene	ug/L	<50	<5		<1	<1		<10	<0.2	<0.2	<4
tert-Butylbenzene	ug/L			<1	<1	250		<10	<0.3	<0.3	<6
Tetrachloroethene	ug/L	<50	<5	<1	3.6	2.8	<10	<10	<0.3	<0.6	<12
Toluene	ug/L	<50	11.3	8.9	12	10	57	<10	<0.2	18	<4
trans-1,2-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.3	<6
trans-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<10	<10	<0.2	<0.2	<4
Trichloroethene	ug/L	<50	31.5	22	30	25	20	25.604	<0.2	35	<6
Trichlorofluoromethane	ug/L			<1	<1	<1	<10	<10	<0.5	<0.6	<12
Vinyl acetate	ug/L	<100	<10								
Vinyl chloride	ug/L	<100	<10	<1	<1	<1	<10	<10	<0.3	<0.5	<10
Xylene, m+p-	ug/L			65	61	16	300	92.122	20	68	40
Xylene, o-	ug/L			180	200	210	350	172.776	80	170	100
Xylenes, Total	ug/L		252								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W10B

Parameter	Units	7/8/92	12/18/92	6/29/93	12/28/93	6/22/94	7/6/95	7/9/96	7/11/97	6/24/98	6/8/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L				<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L				<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L			<1	1.8	<1		1.027	<0.7	<0.6	<0.6
1,2-Dibromo-3-chloropropane	ug/L			<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L			<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
1,3-Dichlorbenzene	ug/L										<0.4
1,3-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L			<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<100	<10								
2-Chloroethyl vinyl ether	ug/L						<10				
2-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<100	<10								
4-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10								
Acetone	ug/L	<100	<10								
Benzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Bromobenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L				<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Bromoform	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<50	<5								
Carbon tetrachloride	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Chloromethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L				<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L			<2	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L			<1							<0.3
Ethylbenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Hexachlorobutadiene	ug/L			<1	<1	<1		<1	<0.5	<0.6	<0.6

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Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W10B

Parameter	Units	7/8/92	12/18/92	6/29/93	12/28/93	6/22/94	7/6/95	7/9/96	7/11/97	6/24/98	6/8/99
Isopropylbenzene	ug/L			<1	<1	<1		<1	<0.2	<0.2	<0.2
Methyl tert-butyl ether	ug/L			<1							<0.2
Methylene chloride	ug/L		<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5
Naphthalene	ug/L	<10	<10	<1	<1	<1	<1	<1	<0.8	<1.1	<1.1
n-Butylbenzene	ug/L			<1	<1	<1		<1	<0.6	<0.3	<0.3
n-Propylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
p-Isopropyltoluene	ug/L			<1	<1	<1		<1	<0.4	<0.2	<0.2
sec-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Styrene	ug/L	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
Tetrachloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6
Toluene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Trichlorofluoromethane	ug/L			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<100	<10								
Vinyl chloride	ug/L	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3
Xylene, o-	ug/L			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5
Xylenes, Total	ug/L	<50	<5								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W11

Parameter	Units	6/18/92	12/17/92	6/30/93	12/28/93	6/21/94	7/5/95	7/9/96	7/11/97	6/24/98	6/8/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L				<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L				<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.7	<0.6	7.1
1,2-Dibromo-3-chloropropane	ug/L			<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L			<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.4	<0.3	0.9
1,3-Dichlorbenzene	ug/L										<0.4
1,3-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L			<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<100	<10								
2-Chloroethyl vinyl ether	ug/L						<10				
2-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<100	<10								
4-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10								
Acetone	ug/L	<100	<10								
Benzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Bromobenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L				<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<50	<5	<1	<1	<1	<1	2.141	1.8	<0.2	<0.2
Bromoform	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<50	<5								
Carbon tetrachloride	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<50	<5	<1	<1	17	15	34.729	36	<0.2	<0.2
Chloromethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L				<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L			<2	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L			<1							<0.3
Ethylbenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	0.2
Hexachlorobutadiene	ug/L			<1	<1	<1		<1	<0.5	<0.6	<0.6

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W11										
Parameter	Units	6/18/92	12/17/92	6/30/93	12/28/93	6/21/94	7/5/95	7/9/96	7/11/97	6/24/98	6/8/99
Isopropylbenzene	ug/L			<1	<1	<1		<1	<0.2	<0.2	1.8
Methyl tert-butyl ether	ug/L			<1							<0.2
Methylene chloride	ug/L	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5
Naphthalene	ug/L	<10	<10	<1	<1	<1	<1	<1	<0.8	<1.1	3.8
n-Butylbenzene	ug/L			<1	<1	<1		<1	<0.6	<0.3	2.3
n-Propylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	1
p-Isopropyltoluene	ug/L			<1	<1	<1		<1	<0.4	<0.2	<0.2
sec-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	2.4
Styrene	ug/L	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.3	0.8
Tetrachloroethene	ug/L	<50	<5	<1	<1	<1	1.4	<1	<0.3	<0.6	<0.6
Toluene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<50	<5	<1	<1	<1	1.3	<1	<0.2	<0.3	1.6
Trichlorofluoromethane	ug/L			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<100	<10								
Vinyl chloride	ug/L	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L			<2	<2	<2	<2	<2	<0.4	<0.3	0.3
Xylene, o-	ug/L			<1	<1	<1	<1	<1	<0.2	<0.5	4.7
Xylenes, Total	ug/L		<5								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W12

Parameter	Units	6/18/92	12/17/92	6/29/93	12/28/93	6/21/94	7/6/95	7/8/96	7/11/97	6/23/98	6/8/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L				<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L				<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L			<1	<1	<1		2.136	<0.7	<0.6	<0.6
1,2-Dibromo-3-chloropropane	ug/L			<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L			<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
1,3-Dichlorbenzene	ug/L										<0.4
1,3-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L			<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<100	<10								
2-Chloroethyl vinyl ether	ug/L						<10				
2-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<100	<10								
4-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10								
Acetone	ug/L	<100	<10								
Benzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Bromobenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L				<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Bromoform	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<50	<5								
Carbon tetrachloride	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<50	<5	<1	<1	<1	<1	<1	5.2	0.9	0.7
Chloromethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L				<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L			<2	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L			<1							<0.3
Ethylbenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Hexachlorobutadiene	ug/L			<1	<1	<1		<1	<0.5	<0.6	<0.6

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W12

Parameter	Units	6/18/92	12/17/92	6/29/93	12/28/93	6/21/94	7/6/95	7/8/96	7/11/97	6/23/98	6/8/99
Isopropylbenzene	ug/L			<1	<1	<1		<1	<0.2	<0.2	<0.2
Methyl tert-butyl ether	ug/L			<1							<0.2
Methylene chloride	ug/L	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5
Naphthalene	ug/L	<10	<10	<1	<1	<1	<1	<1	<0.8	<1.1	<1.1
n-Butylbenzene	ug/L			<1	<1	<1		<1	<0.6	<0.3	<0.3
n-Propylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
p-Isopropyltoluene	ug/L			<1	<1	<1		<1	<0.4	<0.2	<0.2
sec-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Styrene	ug/L	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
Tetrachloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6
Toluene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<50	22.4	7.6	8.1	4.2	5.3	<1	<0.2	1.6	1.2
Trichlorofluoromethane	ug/L			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<100	<10								
Vinyl chloride	ug/L	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3
Xylene, o-	ug/L			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5
Xylenes, Total	ug/L	<50	<5								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W13

Parameter	Units	6/22/92	12/19/92	6/30/93	12/27/93	6/22/94	7/6/95	7/10/96	7/11/97	6/24/98	6/9/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L				<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L				<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L			3.2	<1	1.4		<1	<0.7	<0.6	<0.6
1,2-Dibromo-3-chloropropane	ug/L			<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L			<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L			1.8	<1	<1		<1	<0.4	<0.3	<0.3
1,3-Dichlorbenzene	ug/L										<0.4
1,3-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L			<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<100	<10								
2-Chloroethyl vinyl ether	ug/L						<10				
2-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<100	<10								
4-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10								
Acetone	ug/L	<100	<10								
Benzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Bromobenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L				<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Bromoform	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<50	<5								
Carbon tetrachloride	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Chloromethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L				<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L			<2	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L			<1							<0.3
Ethylbenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Hexachlorobutadiene	ug/L			<1	<1	<1		<1	<0.5	<0.6	<0.6

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W13

Parameter	Units	6/22/92	12/19/92	6/30/93	12/27/93	6/22/94	7/6/95	7/10/96	7/11/97	6/24/98	6/9/99
Isopropylbenzene	ug/L			<1	<1	<1		<1	<0.2	<0.2	<0.2
Methyl tert-butyl ether	ug/L			<1							<0.2
Methylene chloride	ug/L	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5
Naphthalene	ug/L	<10	<10	1.4	6.6	4.4	1.2	<1	1.2	<1.1	1.8
n-Butylbenzene	ug/L			2.6	<1	<1		<1	<0.6	<0.3	<0.3
n-Propylbenzene	ug/L			1.7	<1	<1		<1	<0.3	<0.2	<0.2
p-Isopropyltoluene	ug/L			<1	<1	<1		<1	<0.4	<0.2	<0.2
sec-Butylbenzene	ug/L			<1	1.5	<1		<1	<0.3	0.9	<0.2
Styrene	ug/L	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
Tetrachloroethene	ug/L	<50	<5	<1	1.5	<1	<1	<1	<0.3	1	<0.6
Toluene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<50	10.6	2.3	4.9	3.4	4.6	1.98	3.3	2.9	1.8
Trichlorofluoromethane	ug/L			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<100	<10								
Vinyl chloride	ug/L	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3
Xylene, o-	ug/L			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5
Xylenes, Total	ug/L	<50	<5								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W14

Parameter	Units	6/24/92	12/18/92	6/29/93	12/28/93	6/21/94	7/6/95	7/8/96	7/11/97	6/23/98	6/7/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<10	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<10	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<10	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L				<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L				<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.7	<0.6	<0.6
1,2-Dibromo-3-chloropropane	ug/L			<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L			<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L			<1	<1	<1	<10	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<50	<5	<1	<1	<1	<10	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
1,3-Dichlorbenzene	ug/L										<0.4
1,3-Dichlorobenzene	ug/L			<1	<1	<1	<10	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L			<1	<1	<1	<10	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L			<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<100	<10								
2-Chloroethyl vinyl ether	ug/L						<100				
2-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<100	<10								
4-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10								
Acetone	ug/L	<100	13.3								
Benzene	ug/L	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.3	<0.3
Bromobenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L				<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<50	<5	<1	<1	<1	30	<1	<0.2	0.3	<0.2
Bromoform	ug/L	<50	<5		<1	<1	<10	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<100	<10		<2	<2	<10	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<50	<5								
Carbon tetrachloride	ug/L	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<50	<5	<1	<1	<1	<10	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<50	<5	<1	<1	<1	<10	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<100	<10	<2	<2	<2	<20	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<50	<5	<1	<1	<1	<10	<1	22	22	<0.2
Chloromethane	ug/L	<100	<10	<2	<2	<2	<20	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L			<1	<1	<1	<10	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<10	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L				<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L			<2	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L			<1							<0.3
Ethylbenzene	ug/L	<50	<5	<1	<1	<1	33	<1	<0.2	<0.2	<0.2
Hexachlorobutadiene	ug/L			<1	<1	<1		<1	<0.5	<0.6	<0.6

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Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W14

Parameter	Units	6/24/92	12/18/92	6/29/93	12/28/93	6/21/94	7/6/95	7/8/96	7/11/97	6/23/98	6/7/99
Isopropylbenzene	ug/L			<1	<1	<1		<1	<0.2	<0.2	<0.2
Methyl tert-butyl ether	ug/L			<1							<0.2
Methylene chloride	ug/L	<50	<10	<3	<3	<3	<30	<3	<0.3	<0.5	<0.5
Naphthalene	ug/L			<1	<1	<1	110	<1	<0.8	<1.1	<1.1
n-Butylbenzene	ug/L			<1	<1	<1		<1	<0.6	<0.3	<0.3
n-Propylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
p-Isopropyltoluene	ug/L			<1	<1	<1		<1	<0.4	<0.2	<0.2
sec-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Styrene	ug/L	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
Tetrachloroethene	ug/L	<50	<5	2	1.8	1.4	<10	<1	<0.3	0.9	<0.6
Toluene	ug/L	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<10	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<10	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<50	<5	<1	<1	<1	41	<1	<0.2	<0.3	<0.3
Trichlorofluoromethane	ug/L			<1	<1	<1	<10	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<100	<10								
Vinyl chloride	ug/L	<100	<10	<1	<1	<1	<10	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L			<2	<2	<2	120	<2	<0.4	<0.3	<0.3
Xylene, o-	ug/L			<1	<1	<1	200	<1	<0.2	<0.5	<0.5
Xylenes, Total	ug/L	<50	<5								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W16

Parameter	Units	6/16/92	12/18/92	6/29/93	12/28/93	6/21/94	7/6/95	7/8/96	7/11/97	6/24/98	6/7/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L				<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L				<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.7	<0.6	<0.6
1,2-Dibromo-3-chloropropane	ug/L			<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L			<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
1,3-Dichlorbenzene	ug/L										<0.4
1,3-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L			<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<100	<10								
2-Chloroethyl vinyl ether	ug/L						<10				
2-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<100	<10								
4-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10								
Acetone	ug/L	<100	18.3								
Benzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Bromobenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L				<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<50	<5	<1	<1	<1	<1	2.957	<0.2	<0.2	<0.2
Bromoform	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<50	<5								
Carbon tetrachloride	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<50	<5	<1	<1	<1	2.1	48.947	5.2	0.4	<0.2
Chloromethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L				<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L			<2	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L			<1							<0.3
Ethylbenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Hexachlorobutadiene	ug/L			<1	<1	<1		<1	<0.5	<0.6	<0.6

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W16

Parameter	Units	6/16/92	12/18/92	6/29/93	12/28/93	6/21/94	7/6/95	7/8/96	7/11/97	6/24/98	6/7/99
Isopropylbenzene	ug/L			<1	<1	<1		<1	<0.2	<0.2	<0.2
Methyl tert-butyl ether	ug/L			<1							<0.2
Methylene chloride	ug/L	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5
Naphthalene	ug/L			<1	<1	<1	<1	<1	<0.8	<1.1	<1.1
n-Butylbenzene	ug/L			<1	<1	<1		<1	<0.6	<0.3	<0.3
n-Propylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
p-Isopropyltoluene	ug/L			<1	<1	<1		<1	<0.4	<0.2	<0.2
sec-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Styrene	ug/L	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
Tetrachloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	1.4	<0.6
Toluene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<50	<5	1.3	<1	<1	<1	<1	<0.2	<0.3	<0.3
Trichlorofluoromethane	ug/L			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<100	<10								
Vinyl chloride	ug/L	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3
Xylene, o-	ug/L			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5
Xylenes, Total	ug/L	<50	<5								

[redacted]

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID: W18

Parameter	Units	2/25/92	7/8/92	9/17/92	12/17/92	3/23/93	6/29/93	12/28/93	6/22/94	7/5/95	7/9/96	7/11/97	6/24/98	6/8/99
1,1,1,2-Tetrachloroethane	ug/L					<1		<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	1.3	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L					<1		<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L					<1	<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L					<1		<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L					<1	<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L					600	330	600	480		204.055	380	50	<0.6
1,2-Dibromo-3-chloropropane	ug/L					<3	<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L					<2	<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L					3.4	28	11	10		5.366	<0.4	<0.3	<0.3
1,3-Dichlorbenzene	ug/L													<0.4
1,3-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L					<1	<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L					<1	<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<10	<100	<100	<10									
2-Chloroethyl vinyl ether	ug/L									<10				
2-Chlorotoluene	ug/L					<1	<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<10	<100	<100	<10									
4-Chlorotoluene	ug/L					<1	<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<10	<100	<100	<10									
Acetone	ug/L	<10	<100		25									
Benzene	ug/L	<5	<50	<50	<5	2.1	1.7	3.2	2.3	<1	<1	<0.2	1.1	<0.3
Bromobenzene	ug/L					<1	<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L					<1		<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Bromoform	ug/L	<5	<50	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<10	<100	<100	<10	<2		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<5	<50	<50	<5									
Carbon tetrachloride	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<10	<100	<100	<10	<2	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Chloromethane	ug/L	<10	<100	<100	<10	<2	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L					<1	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<5	<50	<50	<5	<1		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L					<1		<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L					<2	<5	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L						<1							<0.3
Ethylbenzene	ug/L		<50	<50	29.8	21	18	34	20	8.3	8.274	<0.2	1.6	<0.2
Hexachlorobutadiene	ug/L					<1	<1	<1	<1		<1	<0.5	<0.6	<0.6

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W18													
Parameter	Units	2/25/92	7/8/92	9/17/92	12/17/92	3/23/93	6/29/93	12/28/93	6/22/94	7/5/95	7/9/96	7/11/97	6/24/98	6/8/99
Isopropylbenzene	ug/L					36	19	33	28		15.054	16	6.6	<0.2
Methyl tert-butyl ether	ug/L						<1							<0.2
Methylene chloride	ug/L	<5			<10	<3	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5
Naphthalene	ug/L				59.3	100	70	90	18	75	68.079	54	70	<1.1
n-Butylbenzene	ug/L					100	40	45	41		27.093	22	6.5	<0.3
n-Propylbenzene	ug/L					33	30	54	40		20.228	26	7.2	<0.2
p-Isopropyltoluene	ug/L					<1	5.7	<1	1.8		<1	<0.4	<0.2	<0.2
sec-Butylbenzene	ug/L					28	14	21	21		16.118	14	10	0.7
Styrene	ug/L	<5	<50	<50	<5	<1		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L					<1	<1	<1	180		<1	<0.3	3.8	<0.3
Tetrachloroethene	ug/L	<5	<50	<50	<5	<1	<1	2.5	2.2	<1	1.336	<0.3	2	<0.6
Toluene	ug/L		<50	<50	6.47	<1	4.1	3.3	1.3	1.2	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<5	<50	<50	<5	<1		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L		<50	<50	<5	6.3	4.3	7.4	4.4	2.8	2.884	<0.2	2.3	<0.3
Trichlorofluoromethane	ug/L					<1	<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<10	<100	<100	<10									
Vinyl chloride	ug/L	<10	<100	<100	<10	<1	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L					19	34	39	32	12	10.719	<0.4	3.2	<0.3
Xylene, o-	ug/L					160	120	170	16	29	34.527	54	4.8	<0.5
Xylenes, Total	ug/L				195									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W21

Parameter	Units	6/24/92	12/18/92	6/29/93	12/28/93	6/22/94	7/6/95	7/8/96	7/11/97	6/23/98	6/7/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L				<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L				<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.7	<0.6	<0.6
1,2-Dibromo-3-chloropropane	ug/L			<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L			<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
1,3-Dichlorbenzene	ug/L										<0.4
1,3-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L			<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<100	<10								
2-Chloroethyl vinyl ether	ug/L						<10				
2-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<100	<10								
4-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10								
Acetone	ug/L	<100	22.3								
Benzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Bromobenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L				<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Bromoform	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<50	<5								
Carbon tetrachloride	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	5.6
Chloromethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L				<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L			<2	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L			<1							<0.3
Ethylbenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Hexachlorobutadiene	ug/L			<1	<1	<1		<1	<0.5	<0.6	<0.6

[redacted]

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W21

Parameter	Units	6/24/92	12/18/92	6/29/93	12/28/93	6/22/94	7/6/95	7/8/96	7/11/97	6/23/98	6/7/99
Isopropylbenzene	ug/L			<1	<1	<1		<1	<0.2	<0.2	<0.2
Methyl tert-butyl ether	ug/L			<1							<0.2
Methylene chloride	ug/L	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5
Naphthalene	ug/L			<1	<1	<1	<1	<1	<0.8	<1.1	<1.1
n-Butylbenzene	ug/L			<1	<1	<1		<1	<0.6	<0.3	<0.3
n-Propylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
p-Isopropyltoluene	ug/L			<1	<1	<1		<1	<0.4	<0.2	<0.2
sec-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Styrene	ug/L	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
Tetrachloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6
Toluene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Trichlorofluoromethane	ug/L			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<100	<10								
Vinyl chloride	ug/L	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3
Xylene, o-	ug/L			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5
Xylenes, Total	ug/L	<50	<5								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W25

Parameter	Units	2/19/92	7/29/92	9/17/92	12/17/92	3/23/93	6/28/93	12/28/93	6/21/94	7/5/95	7/11/97	6/23/98	6/9/99
1,1,1,2-Tetrachloroethane	ug/L					<1		<1	<1		<0.1	<0.3	<1.5
1,1,1-Trichloroethane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<1.5
1,1,2,2-Tetrachloroethane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<1
1,1,2-Trichloroethane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<1
1,1-Dichloroethane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<1
1,1-Dichloroethene	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<1
1,1-Dichloropropene	ug/L					<1		<1	<1		<0.2	<0.3	<1.5
1,2,3-Trichlorobenzene	ug/L					<1	<1	<1	<1		<0.5	<0.4	<2
1,2,3-Trichloropropane	ug/L					<1		<1	<1		<0.3	<0.2	<1
1,2,4-Trichlorobenzene	ug/L					<1	<1	<1	<1		<0.5	<0.3	<1.5
1,2,4-Trimethylbenzene	ug/L					8.8	5.2	5.2	47		7	58	28
1,2-Dibromo-3-chloropropane	ug/L					<3	<3	<3	<3		<0.3	<0.3	<1.5
1,2-Dibromoethane	ug/L					<2	<2	<2	<2		<0.2	<0.4	<2
1,2-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<0.3	<0.3	<1.5
1,2-Dichloroethane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<1
1,2-Dichloropropane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<1
1,3,5-Trimethylbenzene	ug/L					2.6	3.7	<1	12		2.8	20	12
1,3-Dichlorbenzene	ug/L												<2
1,3-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L					<1	<1	<1	<1		<0.3	<0.6	<3
1,4-Dichlorobenzene	ug/L					<1	<1	<1	<1	<1	<0.3	<0.3	<1.5
2,2-Dichloropropane	ug/L					<1	<1	<1	<1		<0.2	<0.5	<2.5
2-Butanone (MEK)	ug/L	<10	<100	<100	<10								
2-Chloroethyl vinyl ether	ug/L									<10			
2-Chlorotoluene	ug/L					<1	<1	<1	<1		<0.4	<0.3	<1.5
2-Hexanone	ug/L	<10	<100	<100	<10								
4-Chlorotoluene	ug/L					<1	<1	<1	<1		<0.3	<0.3	<1.5
4-Methyl-2-Pentanone (MIBK)	ug/L	<10	<100	<100	<10								
Acetone	ug/L	<10	<100		13.1								
Benzene	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.2	2	<1.5
Bromobenzene	ug/L					<1	<1	<1	<1		<0.3	<0.2	<1
Bromochloromethane	ug/L					<1		<1	<1		<0.4	<0.2	<1
Bromodichloromethane	ug/L	<5	<50	<50	<5	5.4	<1	<1	<1	<1	<0.2	<0.2	<1
Bromoform	ug/L	<5	<50	<50	<5	<1		<1	<1	<1	<0.3	<0.2	<1
Bromomethane	ug/L	<10	<100	<100	<10	<2		<2	<2	<2	<0.3	<0.9	<4.5
Carbon disulfide	ug/L	<5	<50	<50	<5								
Carbon tetrachloride	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<2
Chlorobenzene	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<1.5
Chlorodibromomethane	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<1.5
Chloroethane	ug/L	<10	<100	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<4
Chloroform	ug/L	<5	<50	<50	<5	2.3	<1	<1	<1	<1	<0.2	<0.2	<1
Chloromethane	ug/L	<10	<100	<100	<10	<2	<2	<2	<2	<10	<0.7	<0.9	<4.5
cis-1,2-Dichloroethene	ug/L					44	<1	17	3	<1	8	18	14
cis-1,3-Dichloropropene	ug/L	<5	<50	<50	<5	<1		<1	<1	<1	<0.3	<0.3	<1.5
Dibromomethane	ug/L					<1		<1	<1		<0.1	<0.2	<1
Dichlorodifluoromethane	ug/L					<2	<2	<2	<2		<0.3	<1.2	<6
Diisopropyl Ether	ug/L						<1						<1.5
Ethylbenzene	ug/L	<5	<50	<50	<5	<1	<1	<1	3.4	2.1	<0.2	2.8	<1
Hexachlorobutadiene	ug/L					<1	<1	<1	<1		<0.5	<0.6	<3

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W25

Parameter	Units	2/19/92	7/29/92	9/17/92	12/17/92	3/23/93	6/28/93	12/28/93	6/21/94	7/5/95	7/11/97	6/23/98	6/9/99
Isopropylbenzene	ug/L					4.2	6.3	<1	16		<0.2	5.6	8.5
Methyl tert-butyl ether	ug/L						<1						<1
Methylene chloride	ug/L	<5	<50		<10	<3	<3	<3	<3	<3	<0.3	<0.5	<2.5
Naphthalene	ug/L		<10	<10	<10	3.2	<1	<1	19	30	<0.8	11	11
n-Butylbenzene	ug/L					6.8	3.8	2	6		<0.6	6.2	7.5
n-Propylbenzene	ug/L					<1	2.1	<1	11		<0.3	8.2	4.5
p-Isopropyltoluene	ug/L					<1	<1	<1	<1		<0.4	2.6	<1
sec-Butylbenzene	ug/L					1.9	2.6	<1	9.3		<0.3	6.8	5.5
Styrene	ug/L	<5	<50	<50	<5	<1		<1	<1		<0.2	<0.2	<1
tert-Butylbenzene	ug/L					<1	<1	<1	<1		<0.3	26	<1.5
Tetrachloroethene	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.3	3	<3
Toluene	ug/L	<5	<50	<50	<5	<1	<1	<1	1.1	1.2	<0.2	1.8	<1
trans-1,2-Dichloroethene	ug/L	<5	<50	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<1.5
trans-1,3-Dichloropropene	ug/L	<5	<50	<50	<5	<1		<1	<1	<1	<0.2	<0.2	<1
Trichloroethene	ug/L		<50	<50	41.3	380	11	130	95	51	48	130	95
Trichlorofluoromethane	ug/L					<1	<1	<1	<1	<1	<0.5	<0.6	<3
Vinyl acetate	ug/L	<10	<100	<100	<10								
Vinyl chloride	ug/L	<10	<100	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<2.5
Xylene, m+p-	ug/L					<2	<2	<2	16	8.4	<0.4	6	<1.5
Xylene, o-	ug/L					3.1	2.4	1.6	100	29	1.6	28	13
Xylenes, Total	ug/L		<50	<50	<5								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W26

Parameter	Units	2/25/92	6/14/92	9/17/92	12/18/92	3/24/93	6/30/93	12/27/93	6/22/94	7/6/95	7/9/96	7/11/97	6/24/98	6/9/99
1,1,1,2-Tetrachloroethane	ug/L					<1		<5	<1		<1	<0.1	<0.3	<1.5
1,1,1-Trichloroethane	ug/L	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.3	<0.3	<1.5
1,1,2,2-Tetrachloroethane	ug/L	<5	<5	<50	<50	<1	<1	<5	<1	1.5	<1	<0.2	<0.2	<1
1,1,2-Trichloroethane	ug/L	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<1	<0.2	<1
1,1-Dichloroethane	ug/L	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.2	<1
1,1-Dichloroethene	ug/L	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.4	<0.2	<1
1,1-Dichloropropene	ug/L					<1		<5	<1		<1	<0.2	<0.3	<1.5
1,2,3-Trichlorobenzene	ug/L					<1	<1	<5	<1		<1	<0.5	<0.4	<2
1,2,3-Trichloropropane	ug/L					<1		<5	<1		<1	<0.3	<0.2	<1
1,2,4-Trichlorobenzene	ug/L					<1	<1	<5	<1		<1	<0.5	<0.3	<1.5
1,2,4-Trimethylbenzene	ug/L					960	550	600	500		80.817	1300	900	230
1,2-Dibromo-3-chloropropane	ug/L					<3	<3	<15	<3		<3	<0.3	<0.3	<1.5
1,2-Dibromoethane	ug/L					<2	<2	<10	<2		<2	<0.2	<0.4	<2
1,2-Dichlorobenzene	ug/L					<1	<1	<5	<1	<1	<1	<0.3	<0.3	<1.5
1,2-Dichloroethane	ug/L	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.2	<1
1,2-Dichloropropane	ug/L	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.1	<0.2	<1
1,3,5-Trimethylbenzene	ug/L					340	160	80	88		6.349	380	300	70
1,3-Dichlorbenzene	ug/L													<2
1,3-Dichlorobenzene	ug/L					<1	<1	<5	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L					<1	<1	<5	<1		<1	<0.3	<0.6	<3
1,4-Dichlorobenzene	ug/L					<1	<1	<5	<1	<1	<1	<0.3	<0.3	<1.5
2,2-Dichloropropane	ug/L					<1	<1	<5	<1		<1	<0.2	<0.5	<2.5
2-Butanone (MEK)	ug/L	<10	<10	<100	<100									
2-Chloroethyl vinyl ether	ug/L									<10				
2-Chlorotoluene	ug/L					<1	<1	<5	<1		<1	<0.4	<0.3	<1.5
2-Hexanone	ug/L	<10	<10	<100	<100									
4-Chlorotoluene	ug/L					<1	<1	<5	<1		<1	<0.3	<0.3	<1.5
4-Methyl-2-Pentanone (MIBK)	ug/L	<10	<10	<100	<100									
Acetone	ug/L	<10		<100	<100									
Benzene	ug/L			<50	<50	24	18	25	13	34	2.8	<0.2	55	4
Bromobenzene	ug/L					<1	<1	<5	<1		<5	<0.3	<0.2	<1
Bromochloromethane	ug/L					<1		<5	<1		<1	<0.4	<0.2	<1
Bromodichloromethane	ug/L	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.2	<1
Bromoform	ug/L	<5	<5	<50	<50	<1		<5	<1	<1	<1	<0.3	<0.2	<1
Bromomethane	ug/L	<10	<10	<100	<100	<2		<10	<2	<2	<2	<0.3	<0.9	<4.5
Carbon disulfide	ug/L	<5	<5	<50	<50									
Carbon tetrachloride	ug/L	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.4	<2
Chlorobenzene	ug/L	<5	<5	<50	<50	<1	<1	<5	<1	1.1	<1	<0.3	<0.3	<1.5
Chlorodibromomethane	ug/L	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.3	<0.3	<1.5
Chloroethane	ug/L	<10	<10	<100	<100	<2	<2	<10	<2	<2	<2	<0.4	<0.8	<4
Chloroform	ug/L			<50	<50	7.2	4.4	<5	2.6	<1	<1	<0.2	<0.2	<1
Chloromethane	ug/L	<10	<10	<100	<100	<2	<2	<10	<2	7.9	<2	<0.7	<0.9	<4.5
cis-1,2-Dichloroethene	ug/L					<1	<1	<5	<1	2.2	<1	<0.2	<0.2	<1
cis-1,3-Dichloropropene	ug/L	<5	<5	<50	<50	<1		<5	<1	<1	<1	<0.3	<0.3	<1.5
Dibromomethane	ug/L					<1		<5	<1		<1	<0.1	<0.2	<1
Dichlorodifluoromethane	ug/L					<2	<2	<10	<2		<2	<0.3	<1.2	<6
Diisopropyl Ether	ug/L						<1							<1.5
Ethylbenzene	ug/L				<50	49	31	42	27	58	5.121	35	60	7.5
Hexachlorobutadiene	ug/L					<1	<1	<5	<1		<1	<0.5	<0.6	<3

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W26

Parameter	Units	2/25/92	6/14/92	9/17/92	12/18/92	3/24/93	6/30/93	12/27/93	6/22/94	7/6/95	7/9/96	7/11/97	6/24/98	6/9/99
Isopropylbenzene	ug/L					58	26	32	22		5	40	60	16
Methyl tert-butyl ether	ug/L						<1							<1
Methylene chloride	ug/L	<5	<5		103	<3	<3	<15	<3	<3	<3	<0.3	<0.5	<2.5
Naphthalene	ug/L				55.2	150	70	75	80	89	18.375	120	140	46
n-Butylbenzene	ug/L					190	65	21	26		8.283	100	120	29
n-Propylbenzene	ug/L					58	46	55	39		8.482	90	95	18
p-Isopropyltoluene	ug/L					<1	21	12	<1		4.4	<0.4	55	3.5
sec-Butylbenzene	ug/L					27	12	15	13		3.544	30	60	10
Styrene	ug/L	<5	<5	<50	<50	<1		<5	<25		<1	<0.2	<0.2	<1
tert-Butylbenzene	ug/L					<1	<1	<5	<25		<1	<0.3	<0.3	<1.5
Tetrachloroethene	ug/L	<5	<5	<50	<50	<1	<1	<5	1.5	1.4	<1	<0.3	<0.6	<3
Toluene	ug/L				77.5	85	45	65	42	87	4.083	45	60	3.5
trans-1,2-Dichloroethene	ug/L	<5	<5	<50	<50	<1	<1	<5	<1	<1	<1	<0.2	<0.3	<1.5
trans-1,3-Dichloropropene	ug/L	<5	<5	<50	<50	<1		<5	<1	<1	<1	<0.2	<0.2	<1
Trichloroethene	ug/L				63.3	60	35	38	20	26	9.093	15	<0.3	9
Trichlorofluoromethane	ug/L					<1	<1	<5	<1	<1	<1	<0.5	<0.6	<3
Vinyl acetate	ug/L	<10	<10	<100	<100									
Vinyl chloride	ug/L	<10	<10	<100	<100	<1	<1	<5	<1	<1	<1	<0.3	<0.5	<2.5
Xylene, m+p-	ug/L					280	190	220	170	49	29.361	200	150	13
Xylene, o-	ug/L					460	260	300	220	83	36.296	480	310	85
Xylenes, Total	ug/L				523									

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W27

Parameter	Units	6/24/92	12/17/92	6/30/93	12/28/93	6/22/94	7/6/95	7/9/96	7/11/97	6/24/98	6/8/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<1		<10	<0.1	<0.3	<1.5
1,1,1-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<1.5
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1
1,1,2-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<10	<10	<1	<0.2	<1
1,1-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1
1,1-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.4	<0.2	<1
1,1-Dichloropropene	ug/L				<1	<1		<10	<0.2	<0.3	<1.5
1,2,3-Trichlorobenzene	ug/L			<1	<1	<1		<10	<0.5	<0.4	<2
1,2,3-Trichloropropane	ug/L				<1	<1		<10	<0.3	<0.2	<1
1,2,4-Trichlorobenzene	ug/L			<1	<1	<1		<10	<0.5	<0.3	<1.5
1,2,4-Trimethylbenzene	ug/L			190	1100	540		387.89	750	800	240
1,2-Dibromo-3-chloropropane	ug/L			<3	<3	<3		<30	<0.3	<0.3	<1.5
1,2-Dibromoethane	ug/L			<2	<2	<2		<20	<0.2	<0.4	<2
1,2-Dichlorobenzene	ug/L			<1	<1	<1	<10	<10	<0.3	<0.3	<1.5
1,2-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1
1,2-Dichloropropane	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.1	<0.2	<1
1,3,5-Trimethylbenzene	ug/L			95	230	130		86.512	240	240	100
1,3-Dichlorbenzene	ug/L										<2
1,3-Dichlorobenzene	ug/L			<1	<1	<1	<10	<10	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<1	<1		<10	<0.3	<0.6	<3
1,4-Dichlorobenzene	ug/L			<1	<1	<1	<10	<10	<0.3	<0.3	<1.5
2,2-Dichloropropane	ug/L			<1	<1	<1		<10	<0.2	<0.5	<2.5
2-Butanone (MEK)	ug/L	<100	<10								
2-Chloroethyl vinyl ether	ug/L						<100				
2-Chlorotoluene	ug/L			<1	<1	<1		<10	<0.4	<0.3	<1.5
2-Hexanone	ug/L	<100	<10								
4-Chlorotoluene	ug/L			<1	<1	<1		<10	<0.3	<0.3	<1.5
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10								
Acetone	ug/L	<100	20.1								
Benzene	ug/L	<50	12.9	2.4	11	7.5	39	<10	<0.2	12	<1.5
Bromobenzene	ug/L			<1	<1	<1		<10	<0.3	<0.2	<1
Bromochloromethane	ug/L				<1	<1		<10	<0.4	<0.2	<1
Bromodichloromethane	ug/L	<50	<5	<1	<1	<1	31	<10	<0.2	<0.2	<1
Bromoform	ug/L	<50	<5		<1	<1	<10	<10	<0.3	<0.2	<1
Bromomethane	ug/L	<100	<10		<2	<2	<20	<20	<0.3	<0.9	<4.5
Carbon disulfide	ug/L	<50	<5								
Carbon tetrachloride	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.4	<2
Chlorobenzene	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<1.5
Chlorodibromomethane	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.3	<0.3	<1.5
Chloroethane	ug/L	<100	<10	<2	<2	<2	<20	<20	<0.4	<0.8	<4
Chloroform	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.2	<1
Chloromethane	ug/L	<100	35.1	<10	<2	<2	48	<20	<0.7	<0.9	<4.5
cis-1,2-Dichloroethene	ug/L			<1	<1	<1	<10	<10	<0.2	<0.2	<1
cis-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<10	<10	<0.3	<0.3	<1.5
Dibromomethane	ug/L				<1	<1		<10	<0.1	<0.2	<1
Dichlorodifluoromethane	ug/L			<25	<2	<2		<20	<0.3	<1.2	<6
Diisopropyl Ether	ug/L			<1							<1.5
Ethylbenzene	ug/L	<50	35.4	4.8	40	32	71	<10	18	28	1.5
Hexachlorobutadiene	ug/L			<1	<1	<1		<10	<0.5	<0.6	<3

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W27

Parameter	Units	6/24/92	12/17/92	6/30/93	12/28/93	6/22/94	7/6/95	7/9/96	7/11/97	6/24/98	6/8/99
Isopropylbenzene	ug/L			6.4	36	31		15.65	23	34	14
Methyl tert-butyl ether	ug/L			<1							<1
Methylene chloride	ug/L	<50	11	<3	<3	<3	<30	<30	<0.3	<0.5	<2.5
Naphthalene	ug/L		89.8	42	120	10	150	50.976	95	90	36
n-Butylbenzene	ug/L			34	86	77		64.466	120	120	60
n-Propylbenzene	ug/L			8.8	63	46		23.708	36	46	7.5
p-Isopropyltoluene	ug/L			<1	17	<1		20.275	30	39	18
sec-Butylbenzene	ug/L			5.2	17	18		16.829	28	32	23
Styrene	ug/L	<50	<5		<1	<1		<10	<0.2	<0.2	<1
tert-Butylbenzene	ug/L			<1	<1	<1		<10	<0.3	<0.3	<1.5
Tetrachloroethene	ug/L	<50	<5	<1	3.2	2.8	<10	<10	<0.3	<0.6	<3
Toluene	ug/L	<50	63.9	8.9	71	36	100	<10	6	18	1
trans-1,2-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<10	<10	<0.2	<0.3	<1.5
trans-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<10	<10	<0.2	<0.2	<1
Trichloroethene	ug/L	<50	20.8	4.4	17	12	61	<10	4	15	<1.5
Trichlorofluoromethane	ug/L			<1	<1	<1	<10	<10	<0.5	<0.6	<3
Vinyl acetate	ug/L	<100	<10								
Vinyl chloride	ug/L	<100	<10	<1	<1	<1	<10	<10	<0.3	<0.5	<2.5
Xylene, m+p-	ug/L			36	300	240	480	42.639	46	70	22
Xylene, o-	ug/L			200	380	300	510	93.45	260	300	90
Xylenes, Total	ug/L		620								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W28

Parameter	Units	7/8/92	12/17/92	6/29/93	12/28/93	6/22/94	7/5/95	7/9/96	7/11/97	6/24/98	6/8/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L				<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L				<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L			<1	7	15		<1	<0.7	<0.6	<0.6
1,2-Dibromo-3-chloropropane	ug/L			<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L			<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
1,3-Dichlorbenzene	ug/L										<0.4
1,3-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L			<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<100	<10								
2-Chloroethyl vinyl ether	ug/L						<10				
2-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<100	<10								
4-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10								
Acetone	ug/L	<100	<10								
Benzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Bromobenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L				<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Bromoform	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<50	<5								
Carbon tetrachloride	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<50	<5	1.4	<1	<1	<1	<1	<0.2	<0.2	<0.2
Chloromethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L				<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L			<2	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L			<1							<0.3
Ethylbenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Hexachlorobutadiene	ug/L			<1	<1	<1		<1	<0.5	<0.6	<0.6

Summary of Aualytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W28

Parameter	Units	7/8/92	12/17/92	6/29/93	12/28/93	6/22/94	7/5/95	7/9/96	7/11/97	6/24/98	6/8/99
Isopropylbenzene	ug/L			<1	<1	<1		<1	<0.2	<0.2	<0.2
Methyl tert-butyl ether	ug/L			<1							<0.2
Methylene chloride	ug/L		<10	<3	<3	<3	<3	<3	0.4	<0.5	<0.5
Naphthalene	ug/L	<10	<10	<1	2.5	4.2	<1	<1	<0.8	<1.1	<1.1
n-Butylbenzene	ug/L			<1	<1	1.6		<1	<0.6	<0.3	<0.3
n-Propylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
p-Isopropyltoluene	ug/L			<1	<1	<1		<1	<0.4	<0.2	<0.2
sec-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Styrene	ug/L	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
Tetrachloroethene	ug/L	<50	<5	<1	<1	<1	1.3	<1	0.3	1.2	0.6
Toluene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<50	11.4	7	5.5	4.5	6.5	4.85	4.2	3.9	3
Trichlorofluoromethane	ug/L			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<100	<10								
Vinyl chloride	ug/L	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3
Xylene, o-	ug/L			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5
Xylenes, Total	ug/L	<50	<5								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W29

Parameter	Units	6/25/92	12/18/92	6/30/93	12/28/93	6/22/94	7/5/95	7/9/96	7/11/97	6/23/98	6/8/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L				<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L				<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L			<1	10	4.8		126.828	29	140	<0.6
1,2-Dibromo-3-chloropropane	ug/L			<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L			<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	3.8	<0.3	<0.3
1,2-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.4	6.2	<0.3
1,3-Dichlorbenzene	ug/L										<0.4
1,3-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L			<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<100	<10								
2-Chloroethyl vinyl ether	ug/L						<10				
2-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<100	<10								
4-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10								
Acetone	ug/L	<100	13.6								
Benzene	ug/L	<50	<5	<1	1.5	<1	2.3	2.939	1.3	3	<0.3
Bromobenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L				<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	1.5	<0.2
Bromoform	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<50	<5								
Carbon tetrachloride	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	31	22
Chloromethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L			<1	<1	<1	<1	1.375	0.7	1.3	<0.2
cis-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L				<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L			<2	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L			<1							<0.3
Ethylbenzene	ug/L	<50	<5	<1	<1	<1	1.2	3.902	0.3	6.3	<0.2
Hexachlorobutadiene	ug/L			<1	<1	<1		<1	<0.5	<0.6	<0.6

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W29

Parameter	Units	6/25/92	12/18/92	6/30/93	12/28/93	6/22/94	7/5/95	7/9/96	7/11/97	6/23/98	6/8/99
Isopropylbenzene	ug/L			<1	1.7	<1		8.724	3.9	8.9	<0.2
Methyl tert-butyl ether	ug/L			<1							<0.2
Methylene chloride	ug/L	<50	<10	<3	<3	<3	<3	<3	<0.3	5	<0.5
Naphthalene	ug/L	<10	<10	<1	1.6	<1	2.3	16.176	2.6	24	<1.1
n-Butylbenzene	ug/L			<1	1.4	<1		8.422	<0.6	12	<0.3
n-Propylbenzene	ug/L			<1	1.7	<1		11.196	3.6	14	<0.2
p-Isopropyltoluene	ug/L			<1	<1	<1		<1	<0.4	<0.2	<0.2
sec-Butylbenzene	ug/L			<1	<1	<1		5.862	2.7	7.4	<0.2
Styrene	ug/L	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
Tetrachloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	1.8	<0.6
Toluene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	1.8	<0.2
trans-1,2-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<50	13.5	3.4	10	3.1	20	34.444	16	17	<0.3
Trichlorofluoromethane	ug/L			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<100	<10								
Vinyl chloride	ug/L	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L			<2	<2	<2	<2	6.527	1.1	10	<0.3
Xylene, o-	ug/L			<1	3.7	<1	6.5	40.164	8.8	60	<0.5
Xylenes, Total	ug/L	<50	<5								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W32

Parameter	Units	6/24/92	12/19/92	6/29/93	12/28/93	6/22/94	7/5/95	7/8/96	7/11/97	6/23/98	6/7/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<1		<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L				<1	<1		<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L				<1	<1		<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L			<1	<1	<1		<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.7	<0.6	<0.6
1,2-Dibromo-3-chloropropane	ug/L			<3	<3	<3		<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L			<2	<2	<2		<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
1,3-Dichlorbenzene	ug/L										<0.4
1,3-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<1	<1		<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L			<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L			<1	<1	<1		<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<100	<10								
2-Chloroethyl vinyl ether	ug/L						<10				
2-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<100	<10								
4-Chlorotoluene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<10								
Acetone	ug/L	<100	<10								
Benzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Bromobenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L				<1	<1		<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Bromoform	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<100	<10		<2	<2	<2	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<50	<5								
Carbon tetrachloride	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Chloromethane	ug/L	<100	<10	<2	<2	<2	<2	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L			<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L				<1	<1		<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L			<2	<2	<2		<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L			<1							<0.3
Ethylbenzene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
Hexachlorobutadiene	ug/L			<1	<1	<1		<1	<0.5	<0.6	<0.6

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W32

Parameter	Units	6/24/92	12/19/92	6/29/93	12/28/93	6/22/94	7/5/95	7/8/96	7/11/97	6/23/98	6/7/99
Isopropylbenzene	ug/L			<1	<1	<1		<1	<0.2	<0.2	<0.2
Methyl tert-butyl ether	ug/L			<1							<0.2
Methylene chloride	ug/L	<50	<10	<3	<3	<3	<3	<3	<0.3	<0.5	<0.5
Naphthalene	ug/L			<1	<1	<1	<1	<1	<0.8	<1.1	<1.1
n-Butylbenzene	ug/L			<1	<1	<1		<1	<0.6	<0.3	<0.3
n-Propylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
p-Isopropyltoluene	ug/L			<1	<1	<1		<1	<0.4	<0.2	<0.2
sec-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.2	<0.2
Styrene	ug/L	<50	<5		<1	<1		<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L			<1	<1	<1		<1	<0.3	<0.3	<0.3
Tetrachloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.3	<0.6	<0.6
Toluene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<50	<5		<1	<1	<1	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L	<50	<5	<1	<1	<1	<1	<1	<0.2	<0.3	<0.3
Trichlorofluoromethane	ug/L			<1	<1	<1	<1	<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<100	<10								
Vinyl chloride	ug/L	<100	<10	<1	<1	<1	<1	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L			<2	<2	<2	<2	<2	<0.4	<0.3	<0.3
Xylene, o-	ug/L			<1	<1	<1	<1	<1	<0.2	<0.5	<0.5
Xylenes, Total	ug/L	<50	<5								

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W36

Parameter	Units	2/20/92	8/3/92	9/17/92	7/10/96	7/11/97	6/25/98	6/9/99
1,1,1,2-Tetrachloroethane	ug/L				<1	<0.1	<0.3	<0.3
1,1,1-Trichloroethane	ug/L	<5	<50	<50	<1	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane	ug/L	<5	<50	<50	<1	<0.2	<0.2	<0.2
1,1,2-Trichloroethane	ug/L	<5	<50	<50	<1	<1	<0.2	<0.2
1,1-Dichloroethane	ug/L	<5	<50	<50	<1	<0.2	<0.2	<0.2
1,1-Dichloroethene	ug/L	<5	<50	<50	<1	<0.4	<0.2	<0.2
1,1-Dichloropropene	ug/L				<1	<0.2	<0.3	<0.3
1,2,3-Trichlorobenzene	ug/L				<1	<0.5	<0.4	<0.4
1,2,3-Trichloropropane	ug/L				<1	<0.3	<0.2	<0.2
1,2,4-Trichlorobenzene	ug/L				<1	<0.5	<0.3	<0.3
1,2,4-Trimethylbenzene	ug/L				637.52	130	180	8.5
1,2-Dibromo-3-chloropropane	ug/L				<3	<0.3	<0.3	<0.3
1,2-Dibromoethane	ug/L				<2	<0.2	<0.4	<0.4
1,2-Dichlorobenzene	ug/L				<1	<0.3	<0.3	<0.3
1,2-Dichloroethane	ug/L	<5	<50	<50	<1	<0.2	<0.2	<0.2
1,2-Dichloropropane	ug/L	<5	<50	<50	<1	<0.1	<0.2	<0.2
1,3,5-Trimethylbenzene	ug/L				122.17	44	77	4.5
1,3-Dichlorbenzene	ug/L							<0.4
1,3-Dichlorobenzene	ug/L				<1	<0.7	<0.4	
1,3-Dichloropropane	ug/L				<1	<0.3	<0.6	<0.6
1,4-Dichlorobenzene	ug/L				<1	<0.3	<0.3	<0.3
2,2-Dichloropropane	ug/L				<1	<0.2	<0.5	<0.5
2-Butanone (MEK)	ug/L	<10	<100	<100				
2-Chlorotoluene	ug/L				<1	<0.4	<0.3	<0.3
2-Hexanone	ug/L	<10	<100	<100				
4-Chlorotoluene	ug/L				<1	<0.3	<0.3	<0.3
4-Methyl-2-Pentanone (MIBK)	ug/L	<10	<100	<100				
Acetone	ug/L	<10	<100	<100				
Benzene	ug/L		<50	<50	<1	<0.2	<0.3	<0.3
Bromobenzene	ug/L				<1	<0.3	<0.2	<0.2
Bromochloromethane	ug/L				<1	<0.4	<0.2	<0.2
Bromodichloromethane	ug/L	<5	<50	<50	<1	<0.2	<0.2	<0.2
Bromoform	ug/L	<5	<50	<50	<1	<0.3	<0.2	<0.2
Bromomethane	ug/L	<10	<100	<100	<2	<0.3	<0.9	<0.9
Carbon disulfide	ug/L	<5	<50	<50				
Carbon tetrachloride	ug/L	<5	<50	<50	<1	<0.2	<0.4	<0.4
Chlorobenzene	ug/L	<5	<50	<50	<1	<0.3	<0.3	<0.3
Chlorodibromomethane	ug/L	<5	<50	<50	<1	<0.3	<0.3	<0.3
Chloroethane	ug/L	<10	<100	<100	<2	<0.4	<0.8	<0.8
Chloroform	ug/L	<5	<50	<50	12.508	24	14	7.9
Chloromethane	ug/L	<10	<100	<100	<2	<0.7	<0.9	<0.9
cis-1,2-Dichloroethene	ug/L				<1	<0.2	<0.2	<0.2
cis-1,3-Dichloropropene	ug/L	<5	<50	<50	<1	<0.3	<0.3	<0.3
Dibromomethane	ug/L				<1	<0.1	<0.2	<0.2
Dichlorodifluoromethane	ug/L				<2	<0.3	<1.2	<1.2
Diisopropyl Ether	ug/L							<0.3
Ethylbenzene	ug/L		<50	<50	<1	<0.2	<0.2	<0.2
Hexachlorobutadiene	ug/L				<1	<0.5	<0.6	<0.6
Isopropylbenzene	ug/L				36.015	6.5	23	4

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W-36

Parameter	Units	2/20/92	8/3/92	9/17/92	7/10/96	7/11/97	6/25/98	6/9/99
Methyl tert-butyl ether	ug/L							<0.2
Methylene chloride	ug/L	<5	<50		<3	<0.3	<0.5	<0.5
Naphthalene	ug/L			<10	122.42	7	14	1.8
n-Butylbenzene	ug/L				137.25	12	56	5.3
n-Propylbenzene	ug/L				123.05	12	25	3.3
p-Isopropyltoluene	ug/L				21.973	<0.4	25	1.6
sec-Butylbenzene	ug/L				22.717	7	25	2.7
Styrene	ug/L	<5	<50	<50	<1	<0.2	<0.2	<0.2
tert-Butylbenzene	ug/L				<1	<0.3	<0.3	3.2
Tetrachloroethene	ug/L	<5	<50	<50	<1	<0.3	<0.6	<0.6
Toluene	ug/L		<50	<50	<1	<0.2	<0.2	<0.2
trans-1,2-Dichloroethene	ug/L	<5	<50	<50	<1	<0.2	<0.3	<0.3
trans-1,3-Dichloropropene	ug/L	<5	<50	<50	<1	<0.2	<0.2	<0.2
Trichloroethene	ug/L		<50	<50	4.398	6	<0.3	4.4
Trichlorofluoromethane	ug/L				<1	<0.5	<0.6	<0.6
Vinyl acetate	ug/L	<10	<100	<100				
Vinyl chloride	ug/L	<10	<100	<100	<1	<0.3	<0.5	<0.5
Xylene, m+p-	ug/L				<200	4.5	<0.3	0.8
Xylene, o-	ug/L				201.57	32	<0.5	<0.5
Xylenes, Total	ug/L	<5						

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W39

Parameter	Units	6/17/92	12/18/92	6/21/94	7/9/96	7/11/97	6/24/98	6/9/99
1,1,1,2-Tetrachloroethane	ug/L			<1	<100	<0.1	<0.3	<3
1,1,1-Trichloroethane	ug/L	<50	64.6	<1	<100	<0.3	<0.3	<3
1,1,2,2-Tetrachloroethane	ug/L	<50	<50	<1	<100	<0.2	<0.2	<2
1,1,2-Trichloroethane	ug/L	<50	<50	<1	<100	<1	<0.2	<2
1,1-Dichloroethane	ug/L	<50	<50	<1	<100	<0.2	<0.2	<2
1,1-Dichloroethene	ug/L	<50	<50	<1	<100	<0.4	<0.2	<2
1,1-Dichloropropene	ug/L			<1	<100	<0.2	<0.3	<3
1,2,3-Trichlorobenzene	ug/L			<1	<100	<0.5	<0.4	<4
1,2,3-Trichloropropane	ug/L			<1	<100	<0.3	<0.2	<2
1,2,4-Trichlorobenzene	ug/L			<1	<100	<0.5	<0.3	<3
1,2,4-Trimethylbenzene	ug/L			2400	606.2	760	440	450
1,2-Dibromo-3-chloropropane	ug/L			<3	<300	<0.3	<0.3	<3
1,2-Dibromoethane	ug/L			<2	<200	<0.2	<0.4	<4
1,2-Dichlorobenzene	ug/L			<1	<100	<0.3	<0.3	<3
1,2-Dichloroethane	ug/L	<50	<50	<1	<100	<0.2	<0.2	<2
1,2-Dichloropropane	ug/L	<50	<50	<1	<100	<0.1	<0.2	
1,3,5-Trimethylbenzene	ug/L			600	328.24	360	200	
1,3-Dichlorobenzene	ug/L			<1	<100	<0.7	<0.4	
1,3-Dichloropropane	ug/L			<1	<100	<0.3	<0.6	
1,4-Dichlorobenzene	ug/L			<1	<100	<0.3	<0.3	
2,2-Dichloropropane	ug/L			<1	<100	<0.2	<0.5	
2-Butanone (MEK)	ug/L	<100	<100					
2-Chlorotoluene	ug/L			<1	<100	<0.4	<0.3	
2-Hexanone	ug/L	<100	<100					
4-Chlorotoluene	ug/L			<1	<100	<0.3	<0.3	
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<100					
Acetone	ug/L		271					
Benzene	ug/L	<50	<50	5.3	<100	<0.2	<0.3	
Bromobenzene	ug/L			<1	<100	<0.3	<0.2	
Bromochloromethane	ug/L			<1	<100	<0.4	<0.2	
Bromodichloromethane	ug/L	<50	<50	<1	<100	<0.2	<0.2	
Bromoform	ug/L	<50	<50	<1	<100	<0.3	<0.2	
Bromomethane	ug/L	<100	<100	<2	<200	<0.3	<0.9	
Carbon disulfide	ug/L	<50	<50					
Carbon tetrachloride	ug/L	<50	<50	<1	<100	<0.2	<0.4	
Chlorobenzene	ug/L	<50	<50	<1	<100	<0.3	<0.3	
Chlorodibromomethane	ug/L	<50	<50	<1	<100	<0.3	<0.3	
Chloroethane	ug/L	<100	<100	<2	<200	<0.4	<0.8	
Chloroform	ug/L	<50	<50	3.5	<100	<0.2	<0.2	
Chloromethane	ug/L	<100	<100	<2	<200	<0.7	<0.9	
cis-1,2-Dichloroethene	ug/L			<1	<100	<0.2	<0.2	
cis-1,3-Dichloropropene	ug/L	<50	<50	<1	<100	<0.3	<0.3	
Dibromomethane	ug/L			<1	<100	<0.1	<0.2	
Dichlorodifluoromethane	ug/L			<2	<200	<0.3	<1.2	
Ethylbenzene	ug/L		59.8	75	<100	<0.2	<0.2	
Hexachlorobutadiene	ug/L			<1	<100	<0.5	<0.6	
Isopropylbenzene	ug/L			180	180.87	160	44	
Methylene chloride	ug/L	<50	142	<3	<300	<0.3	<0.5	
Naphthalene	ug/L		732	160	121.68	<0.8	48	

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W39							
Parameter	Units	6/17/92	12/18/92	6/21/94	7/9/96	7/11/97	6/24/98	6/9/99
n-Butylbenzene	ug/L			320	631.4	180	130	
n-Propylbenzene	ug/L			280	<100	120	54	
p-Isopropyltoluene	ug/L			<25	<100	<0.4	56	
sec-Butylbenzene	ug/L			160	238.33	120	66	
Styrene	ug/L	<50	<50	<25	309.43	<0.2	<0.2	
tert-Butylbenzene	ug/L			<25	<100	<0.3	<0.3	
Tetrachloroethene	ug/L	<50	<50	3	<100	<0.3	<0.6	
Toluene	ug/L		154	<1	<100	<0.2	<0.2	
trans-1,2-Dichloroethene	ug/L	<50	<50	<1	<100	<0.2	<0.3	
trans-1,3-Dichloropropene	ug/L	<50	<50	<1	<100	<0.2	<0.2	
Trichloroethene	ug/L	<50	<50	19	<100	<0.2	<0.3	
Trichlorofluoromethane	ug/L			<1	<100	<0.5	<0.6	
Vinyl acetate	ug/L	<100	<100					
Vinyl chloride	ug/L	<100	<100	<1	<100	<0.3	<0.5	
Xylene, m+p-	ug/L			450	<200	<0.4	46	
Xylene, o-	ug/L			600	<100	<0.2	<0.5	
Xylenes, Total	ug/L		784					

Sumuary of Aualytical Data
Wauleco, Inc.
Wausau, Wiscousin

Well ID:	W41

Parameter	Units	2/25/92	6/16/92	9/17/92	12/19/92	3/24/93	6/30/93	12/28/93	6/21/94	7/6/95	7/9/96	7/11/97	6/24/98	6/8/99
1,1,1,2-Tetrachloroethane	ug/L					<1		<1	<1		<10	<0.1	<0.3	<3
1,1,1-Trichloroethane	ug/L	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3
1,1,2,2-Tetrachloroethane	ug/L	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2
1,1,2-Trichloroethane	ug/L	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<1	<0.2	<2
1,1-Dichloroethane	ug/L	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2
1,1-Dichloroethene	ug/L	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.4	<0.2	<2
1,1-Dichloropropene	ug/L					<1		<1	<1		<10	<0.2	<0.3	<3
1,2,3-Trichlorobenzene	ug/L					<1	<100	<1	<1		<10	<0.5	<0.4	<4
1,2,3-Trichloropropane	ug/L					<1		<1	<1		<10	<0.3	<0.2	<2
1,2,4-Trichlorobenzene	ug/L					<1	<100	<1	<1		<10	<0.5	<0.3	<3
1,2,4-Trimethylbenzene	ug/L					620	2200	110	20		137.69	160	340	310
1,2-Dibromo-3-chloropropane	ug/L					<3	<300	<3	<3		<30	<0.3	<0.3	<3
1,2-Dibromoethane	ug/L					<2	<200	<2	<2		<20	<0.2	<0.4	<4
1,2-Dichlorobenzene	ug/L					<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3
1,2-Dichloroethane	ug/L	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2
1,2-Dichloropropane	ug/L	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.1	<0.2	<2
1,3,5-Trimethylbenzene	ug/L					230	2400	130	400		85.039	140	190	180
1,3-Dichlorbenzene	ug/L													<4
1,3-Dichlorobenzene	ug/L					<1	<100	<1	<1	<20	<10	<0.7	<0.4	
1,3-Dichloropropane	ug/L					<1	<100	<1	<1		<10	<0.3	<0.6	<6
1,4-Dichlorobenzene	ug/L					<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3
2,2-Dichloropropane	ug/L					<1	<100	<1	<1		<10	<0.2	<0.5	<5
2-Butanone (MEK)	ug/L	<100	<100	<100	38.5									
2-Chloroethyl vinyl ether	ug/L									<200				
2-Chlorotoluene	ug/L					<1	<100	<1	<1		<10	<0.4	<0.3	<3
2-Hexanone	ug/L	<100	<100	<100	<10									
4-Chlorotoluene	ug/L					<1	<100	<1	<1		<10	<0.3	<0.3	<3
4-Methyl-2-Pentanone (MIBK)	ug/L	<100	<100	<100	<10									
Acetone	ug/L	<100			170									
Benzene	ug/L	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.3	<3
Bromobenzene	ug/L					<1	<100	<1	<1		<10	<0.3	<0.2	<2
Bromochloromethane	ug/L					<1		<1	<1		<10	<0.4	<0.2	<2
Bromodichloromethane	ug/L	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2
Bromoform	ug/L	<50	<50	<50	<5	<1		<1	<1	<20	<10	<0.3	<0.2	<2
Bromomethane	ug/L	<100	<100	<100	<10	<2		<2	<2	<40	<20	<0.3	<0.9	<9
Carbon disulfide	ug/L	<50	<50	<50	<5									
Carbon tetrachloride	ug/L	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.4	<4
Chlorobenzene	ug/L	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3
Chlorodibromomethane	ug/L	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.3	<0.3	<3
Chloroethane	ug/L	<100	<100	<100	<10	<2	<200	<2	<2	<40	<20	<0.4	<0.8	<8
Chloroform	ug/L	<50	<50	<50	<5	<1	<100	<1	2.8	<20	<10	<0.2	<0.2	<2
Chloromethane	ug/L	<100	<100	<100	<10	<2	<200	<2	<2	<40	<20	<0.7	<0.9	<9
cis-1,2-Dichloroethene	ug/L					<1	<100	<1	<1	<20	<10	<0.2	<0.2	<2
cis-1,3-Dichloropropene	ug/L	<50	<50	<50	<5	<1		<1	<1	<20	<10	<0.3	<0.3	<3
Dibromomethane	ug/L					<1		<1	<1		<10	<0.1	<0.2	<2
Dichlorodifluoromethane	ug/L					<2	<200	<2	<2		<20	<0.3	<1.2	<12
Diisopropyl Ether	ug/L						<100							<3
Ethylbenzene	ug/L	<50	<50	<50	<5	6.3	600	<1	<1	<20	<10	<0.2	<0.2	<2
Hexachlorobutadiene	ug/L					<1	<100	<1	<1		<10	<0.5	<0.6	<6

Summary of Analytical Data
Wauleco, Inc.
Wausau, Wisconsin

Well ID:	W41

Parameter	Units	2/25/92	6/16/92	9/17/92	12/19/92	3/24/93	6/30/93	12/28/93	6/21/94	7/6/95	7/9/96	7/11/97	6/24/98	6/8/99
Isopropylbenzene	ug/L					57	2000	7.1	14		21.889	<0.2	68	60
Methyl tert-butyl ether	ug/L						<100							<2
Methylene chloride	ug/L		<50		<10	<3	<300	<3	<3	<60	<30	<0.3	<0.5	<5
Naphthalene	ug/L		<103		52.3	95	630	44	27	52	17.154	<0.8	34	32
n-Butylbenzene	ug/L					230	4800	120	280		128.897	110	170	180
n-Propylbenzene	ug/L					36	2400	6.6	<1		25.558	110	54	57
p-Isopropyltoluene	ug/L					<1	1200	13	<1		56.038	<0.4	40	160
sec-Butylbenzene	ug/L					58	2900	12	13		21.684	<0.3	60	75
Styrene	ug/L	<50	<50	<50	<5	5.9		<1	<1		<10	<0.2	<0.2	<2
tert-Butylbenzene	ug/L					<1	<100	<1	<1		<10	<0.3	40	<3
Tetrachloroethene	ug/L	<50	<50	<50	<5	1.3	<100	3.8	6.5	<20	<10	<0.3	<0.6	<6
Toluene	ug/L	<50	<50	<50	<5	7.5	<100	3.6	<1	<20	<10	<0.2	<0.2	<2
trans-1,2-Dichloroethene	ug/L	<50	<50	<50	<5	<1	<100	<1	<1	<20	<10	<0.2	<0.3	<3
trans-1,3-Dichloropropene	ug/L	<50	<50	<50	<5	<1		<1	<1	<20	<10	<0.2	<0.2	<2
Trichloroethene	ug/L	<50	<50	<50	<5	3.8	<100	4	4.4	<20	<10	<0.2	<0.3	<3
Trichlorofluoromethane	ug/L					<1	<100	<1	<1	<20	<10	<0.5	<0.6	<6
Vinyl acetate	ug/L	<100	<100	<100	<10									
Vinyl chloride	ug/L	<100	<100	<100	<10	<1	<100	<1	<1	<20	<10	<0.3	<0.5	<5
Xylene, m+p-	ug/L					60	500	5	5.8	77	<20	<0.4	48	22
Xylene, o-	ug/L					190	2700	18	160	140	<10	<0.2	<0.5	140
Xylenes, Total	ug/L				67.3									

B

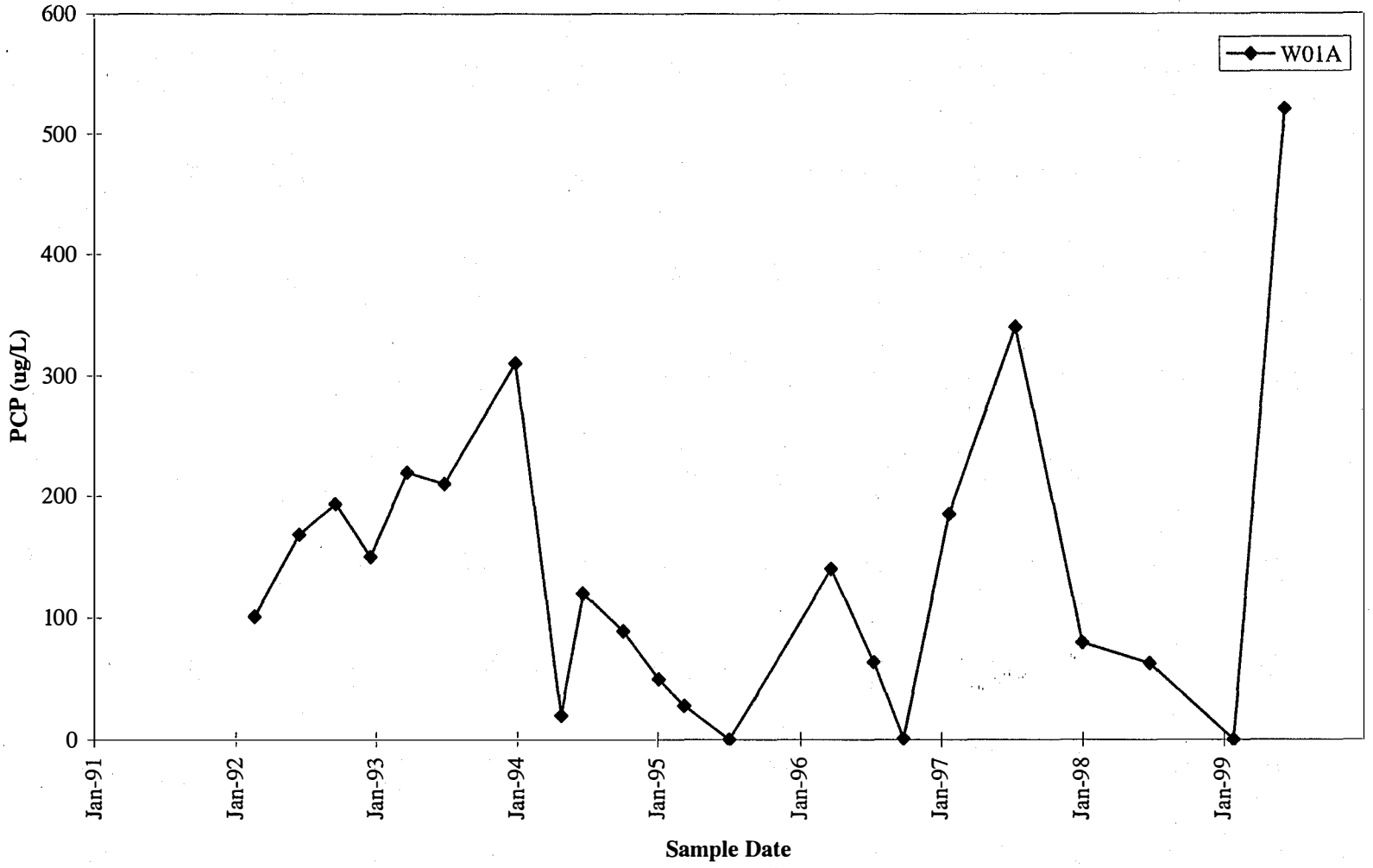
TIME TREND GRAPHICS

B1 PCP Time Trends
B2 Chloride Time Trends

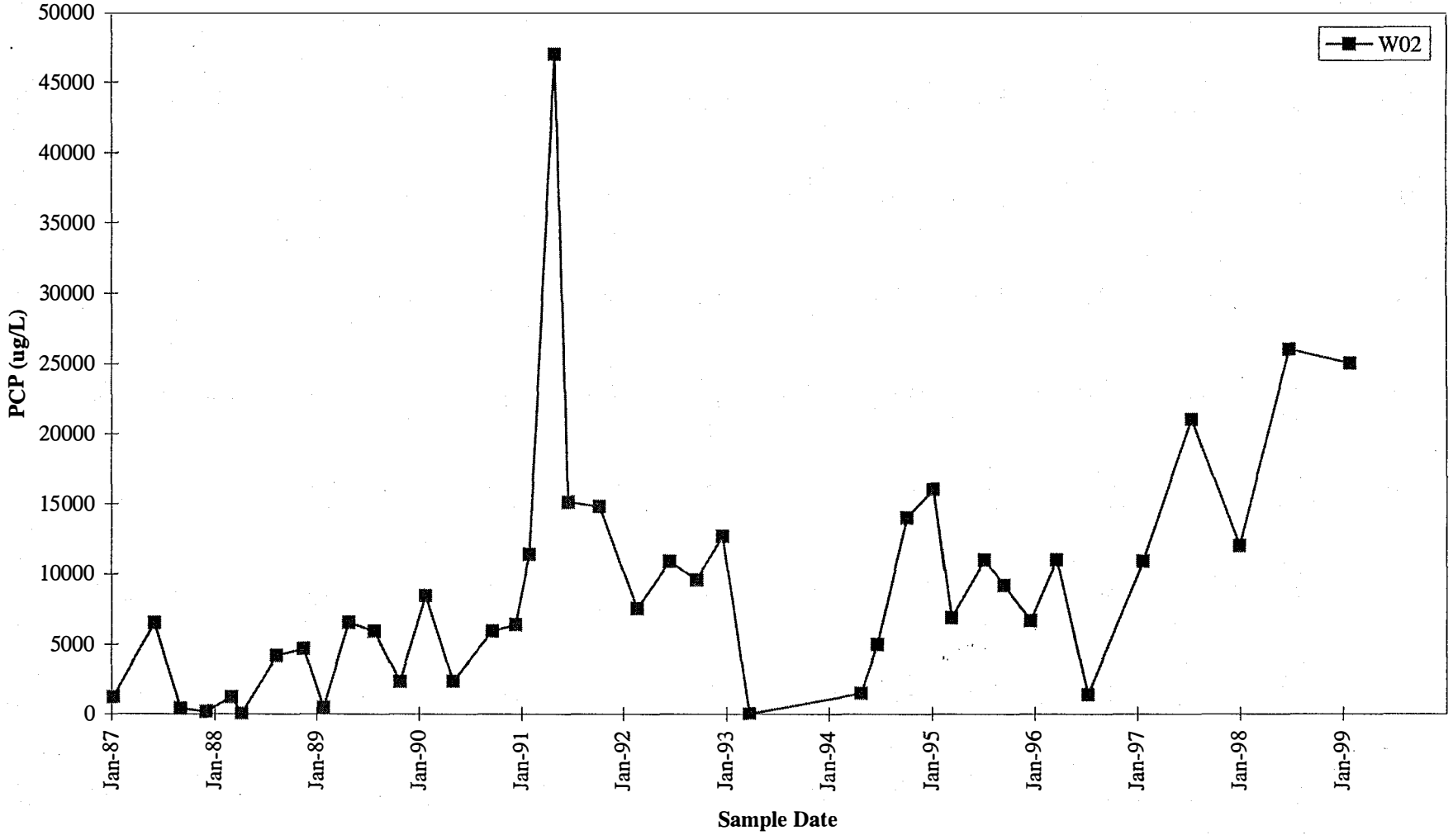
B1

PCP Time Trends

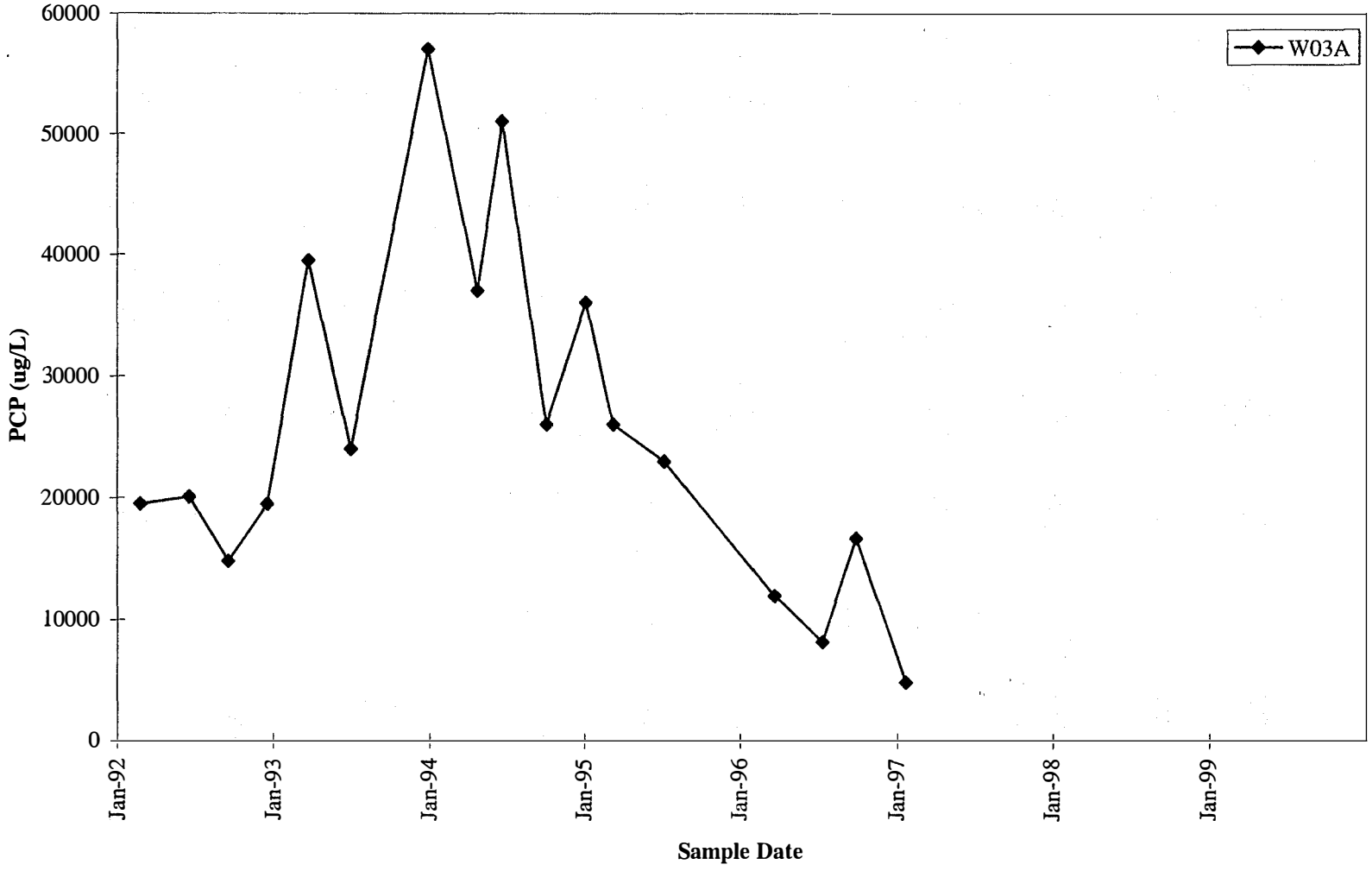
Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



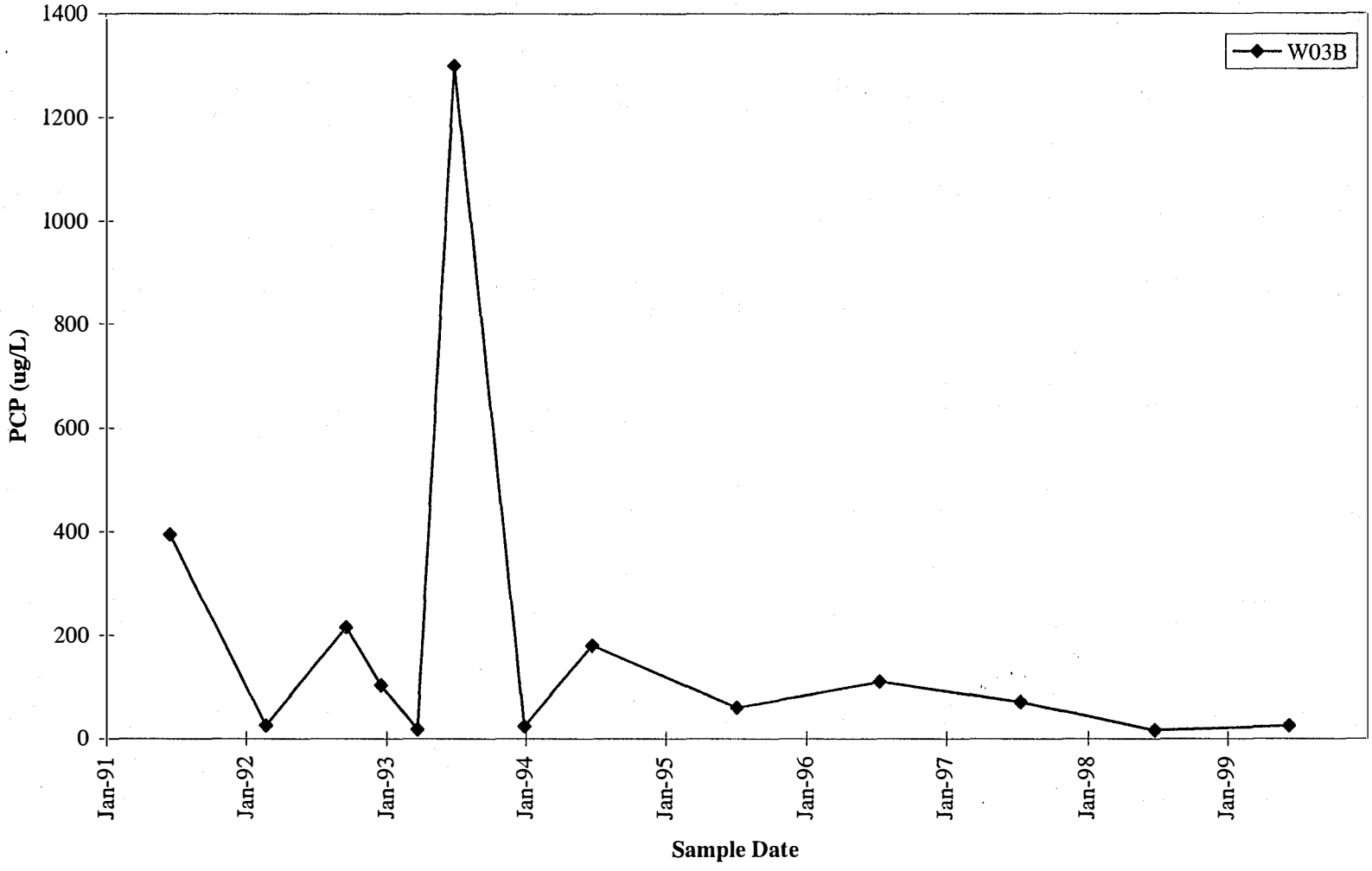
Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



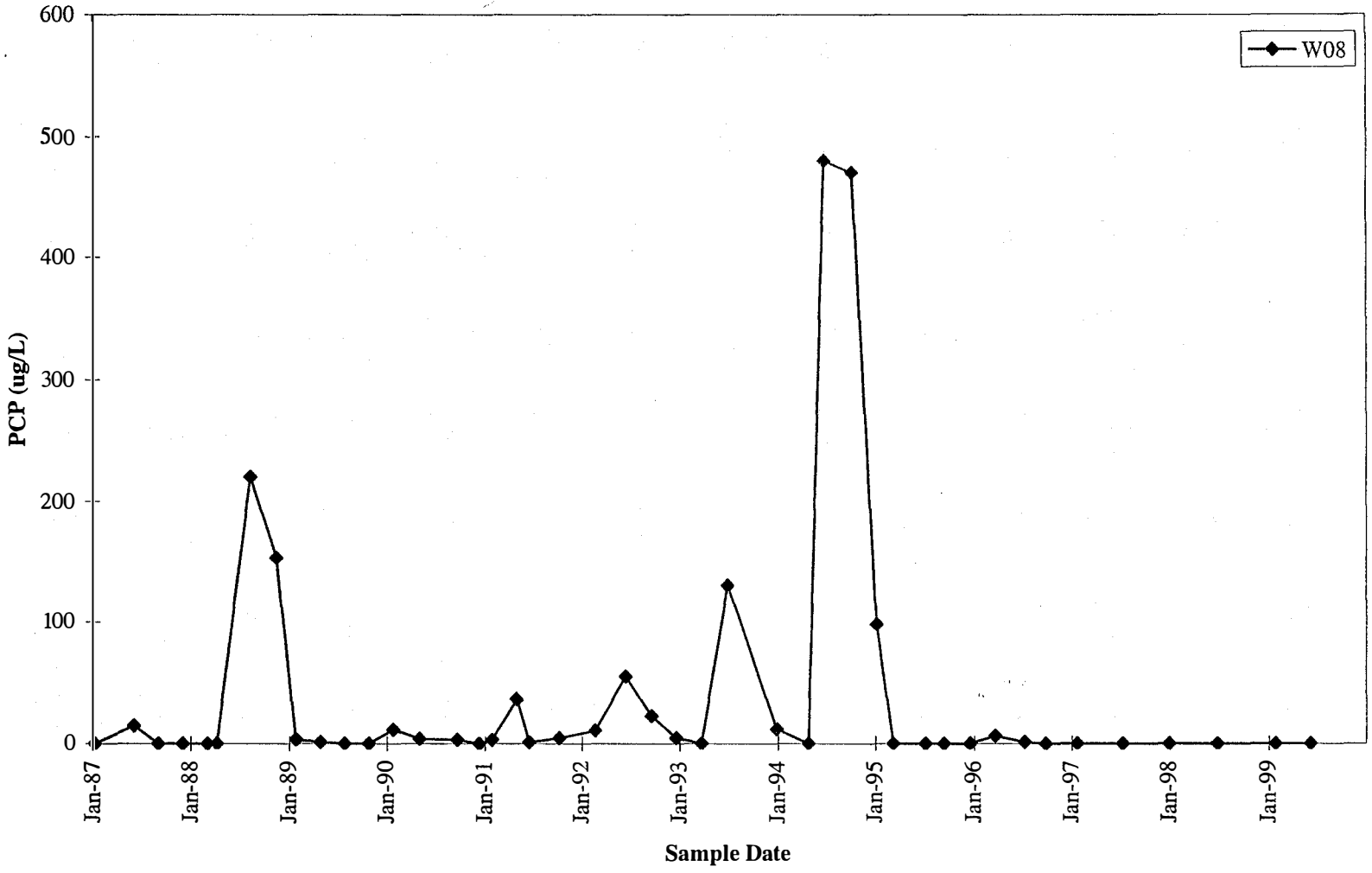
Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



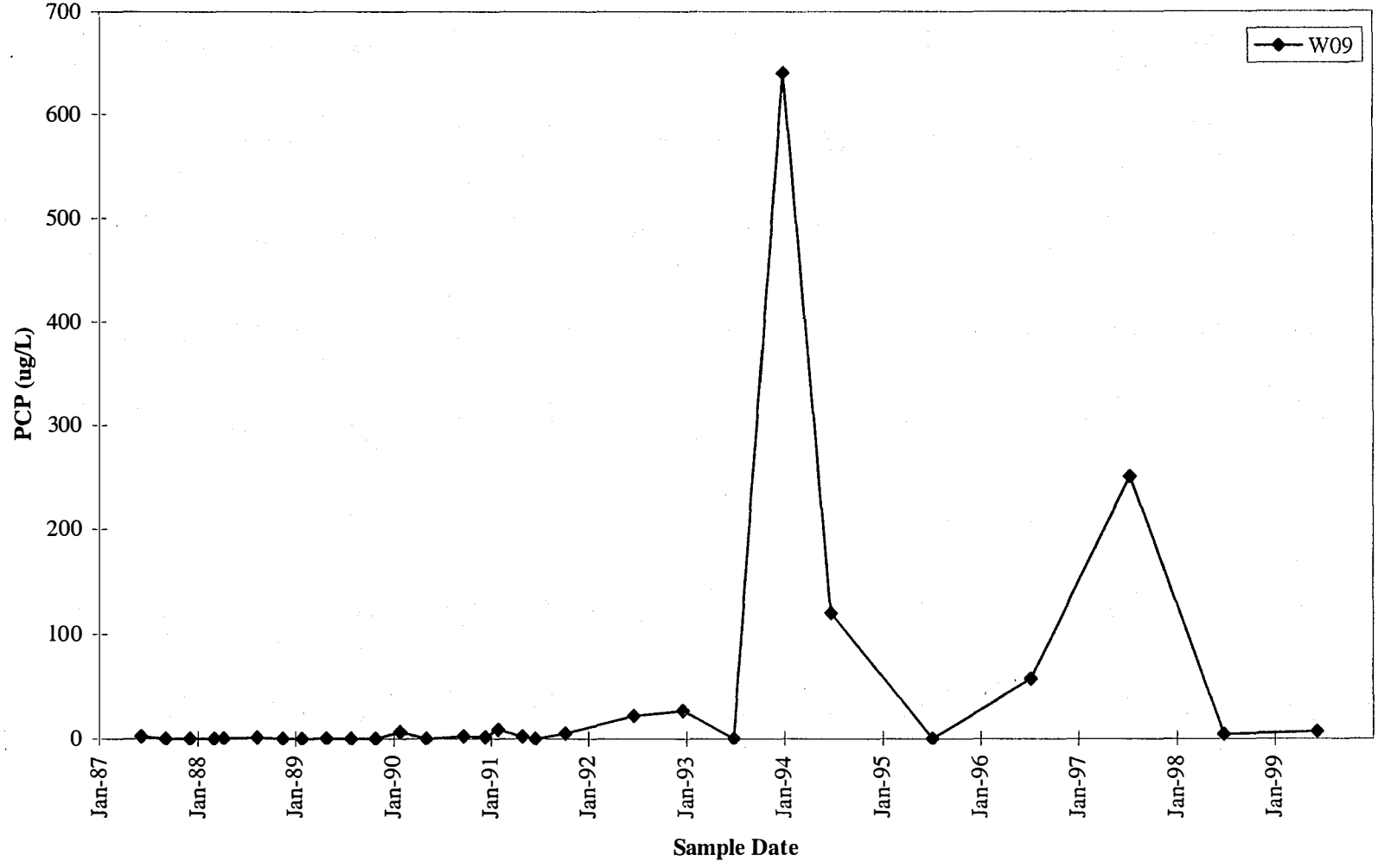
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Quarterly Groundwater Monitoring



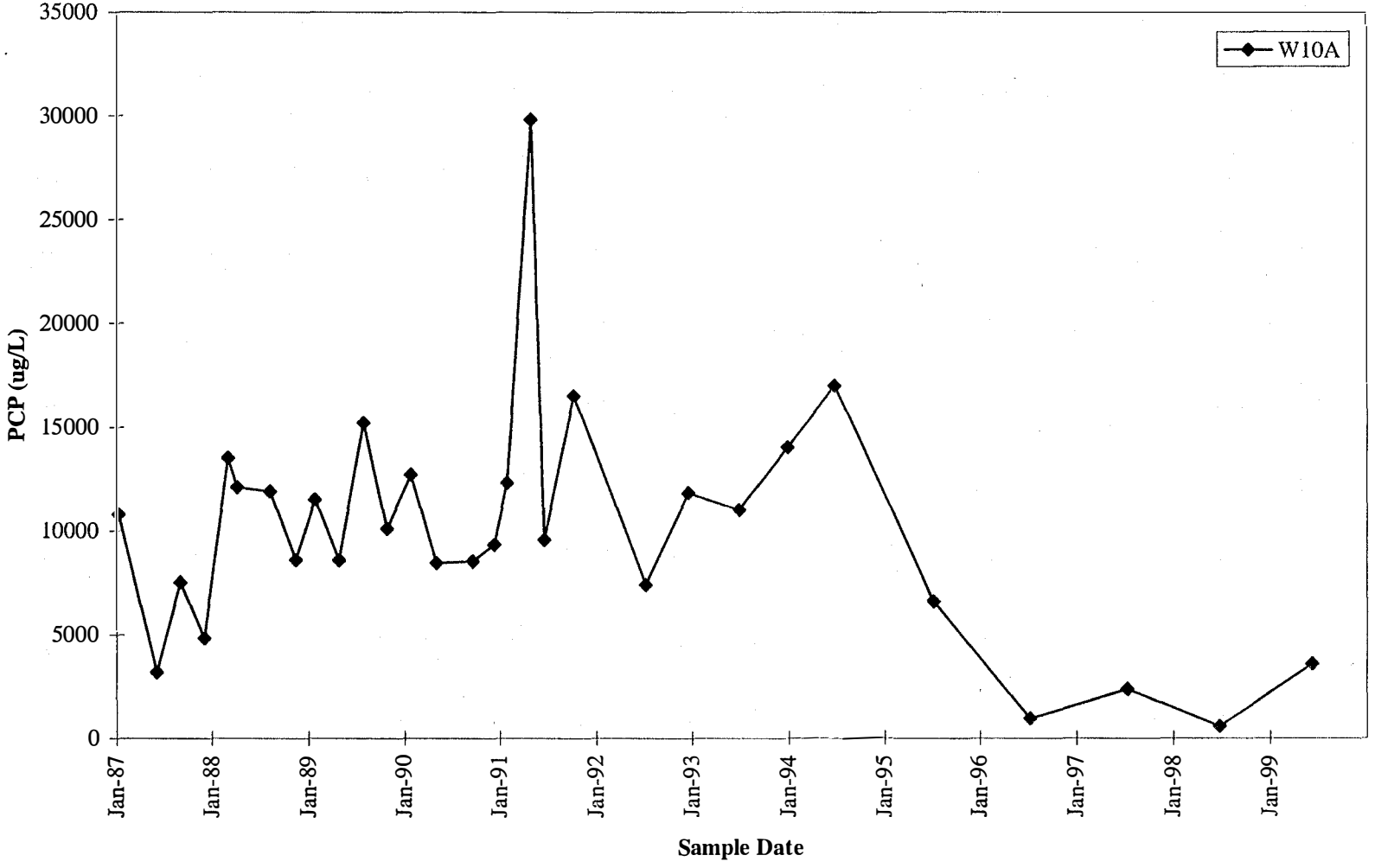
Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



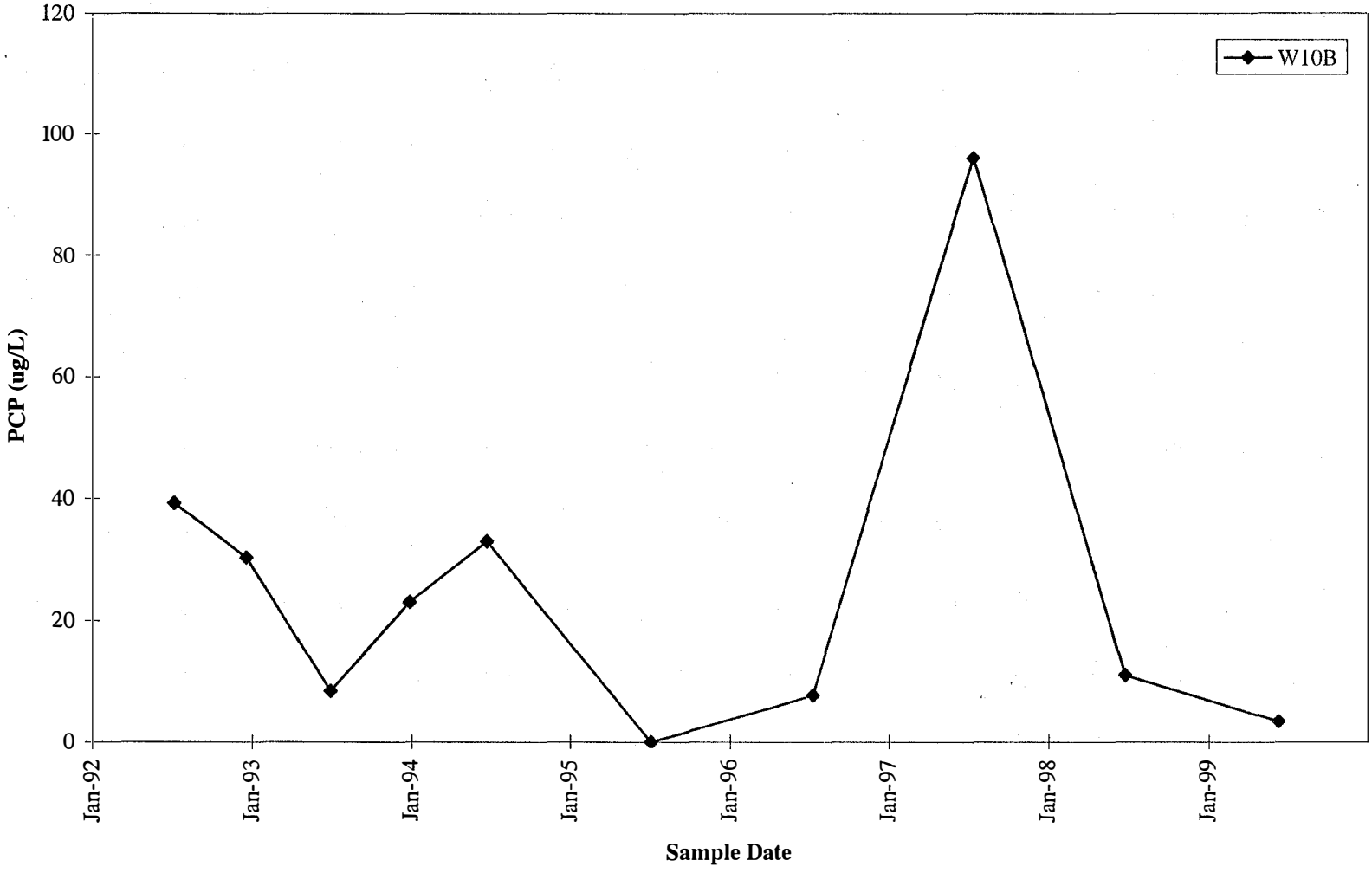
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Quarterly Groundwater Monitoring



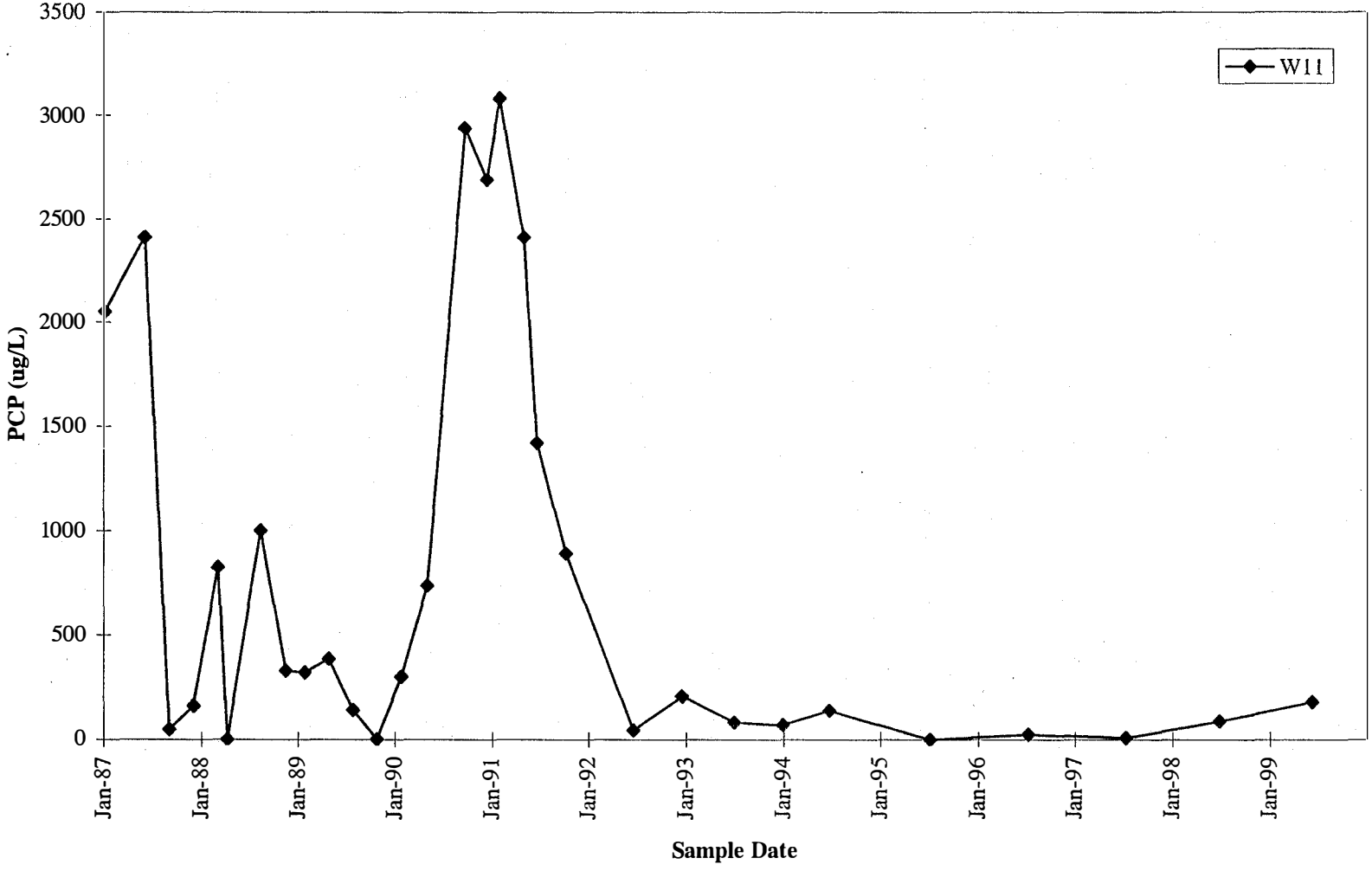
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Quarterly Groundwater Monitoring



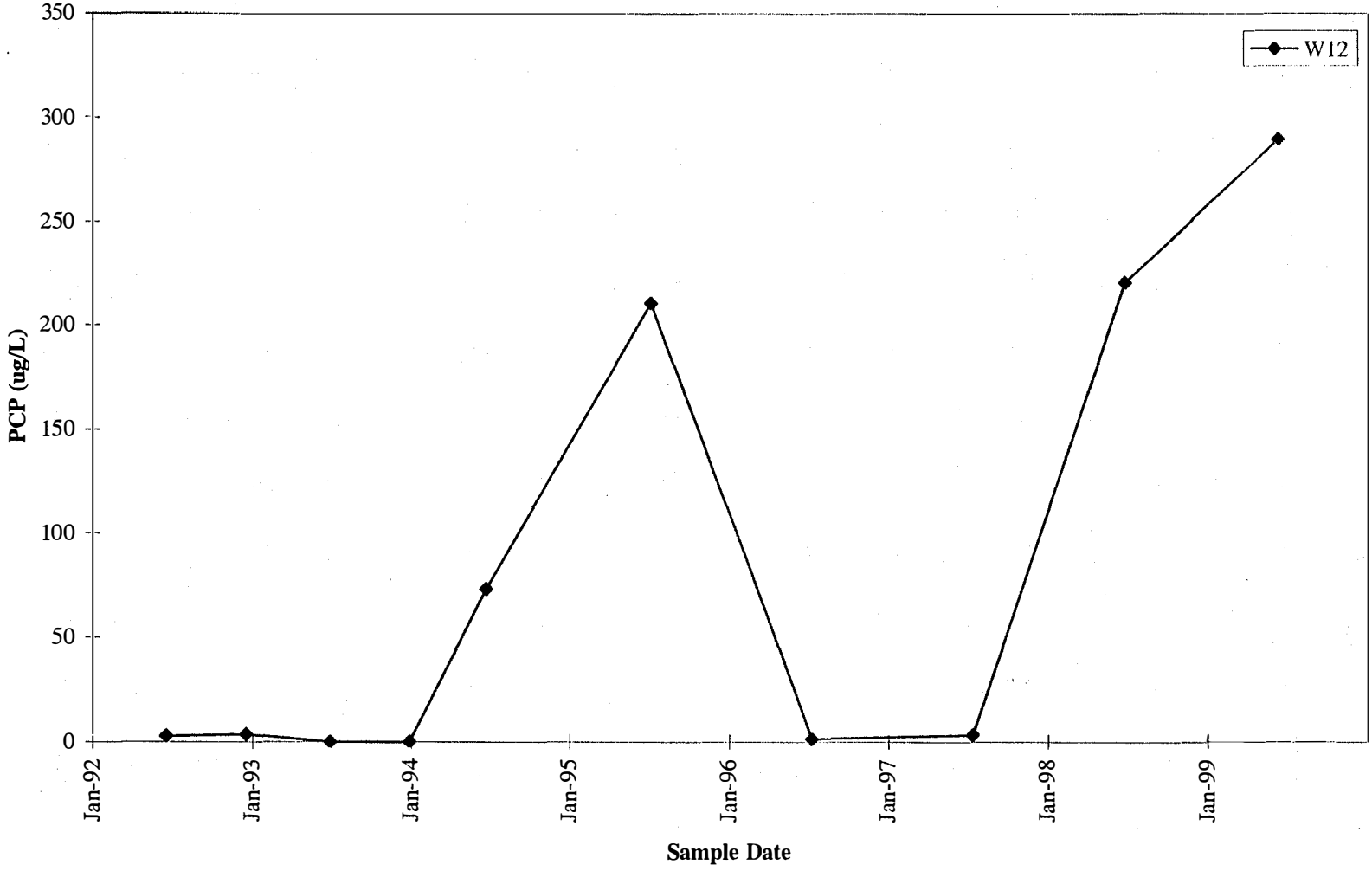
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Quarterly Groundwater Monitoring



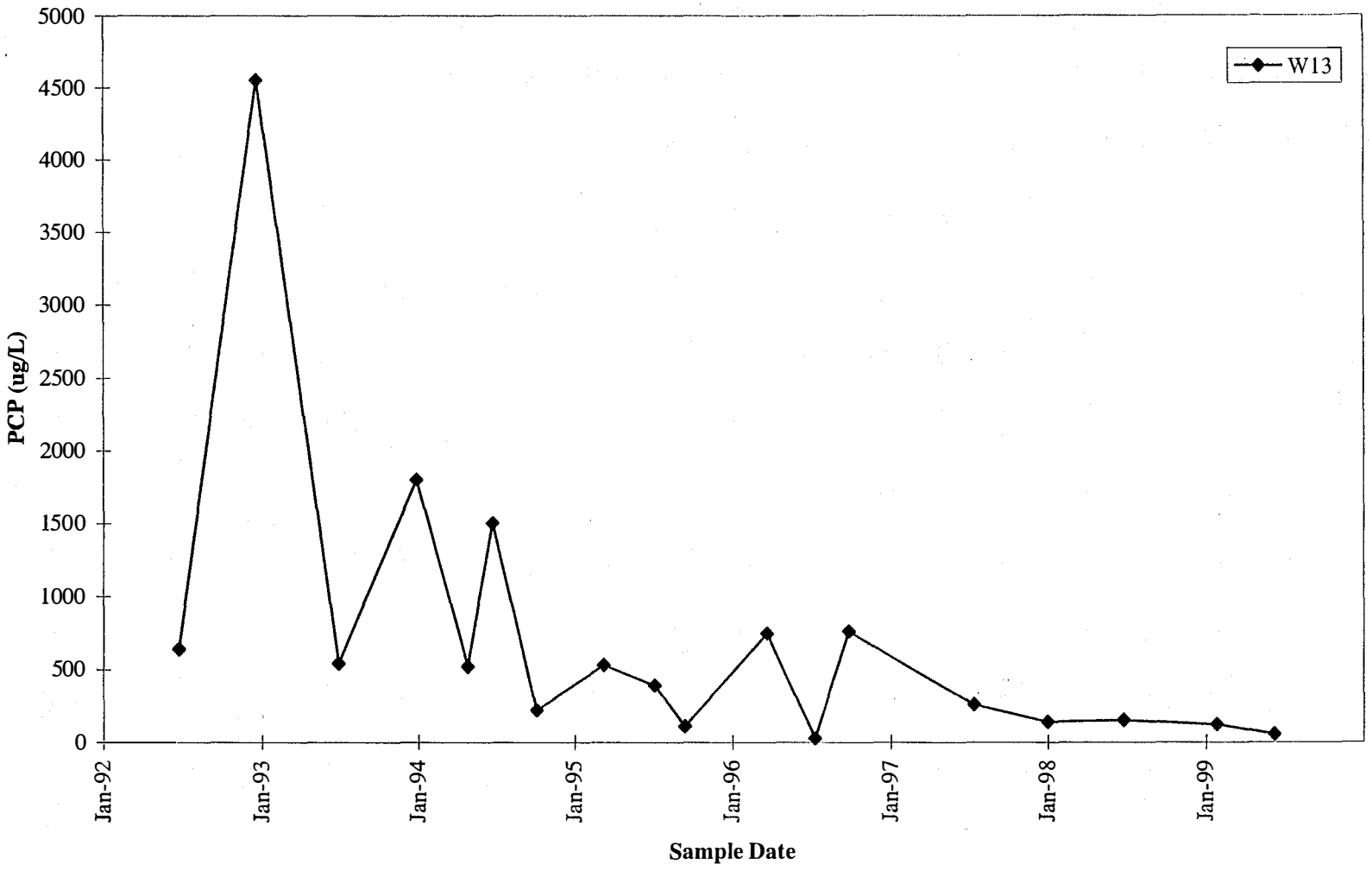
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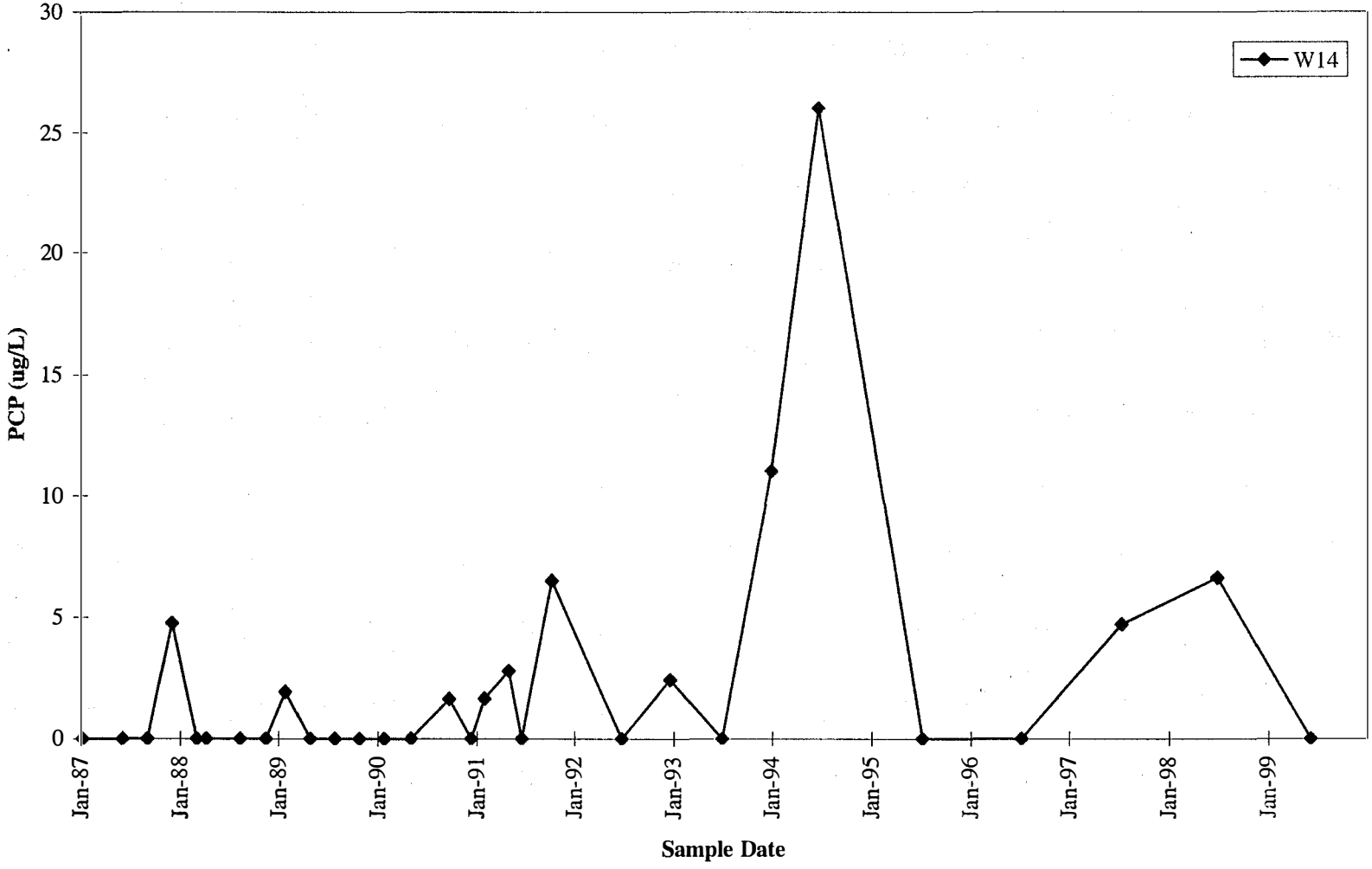
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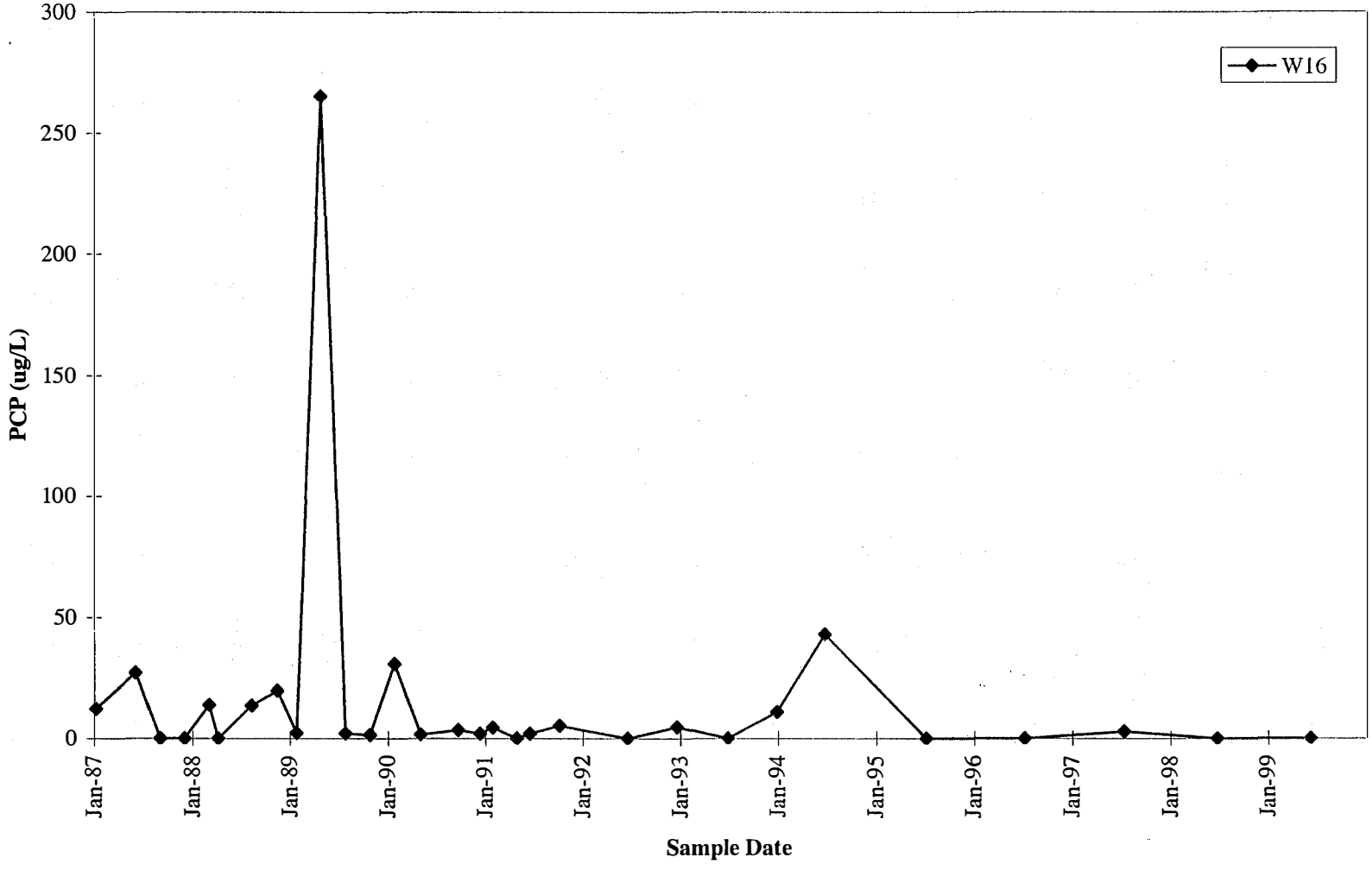
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Quarterly Groundwater Monitoring



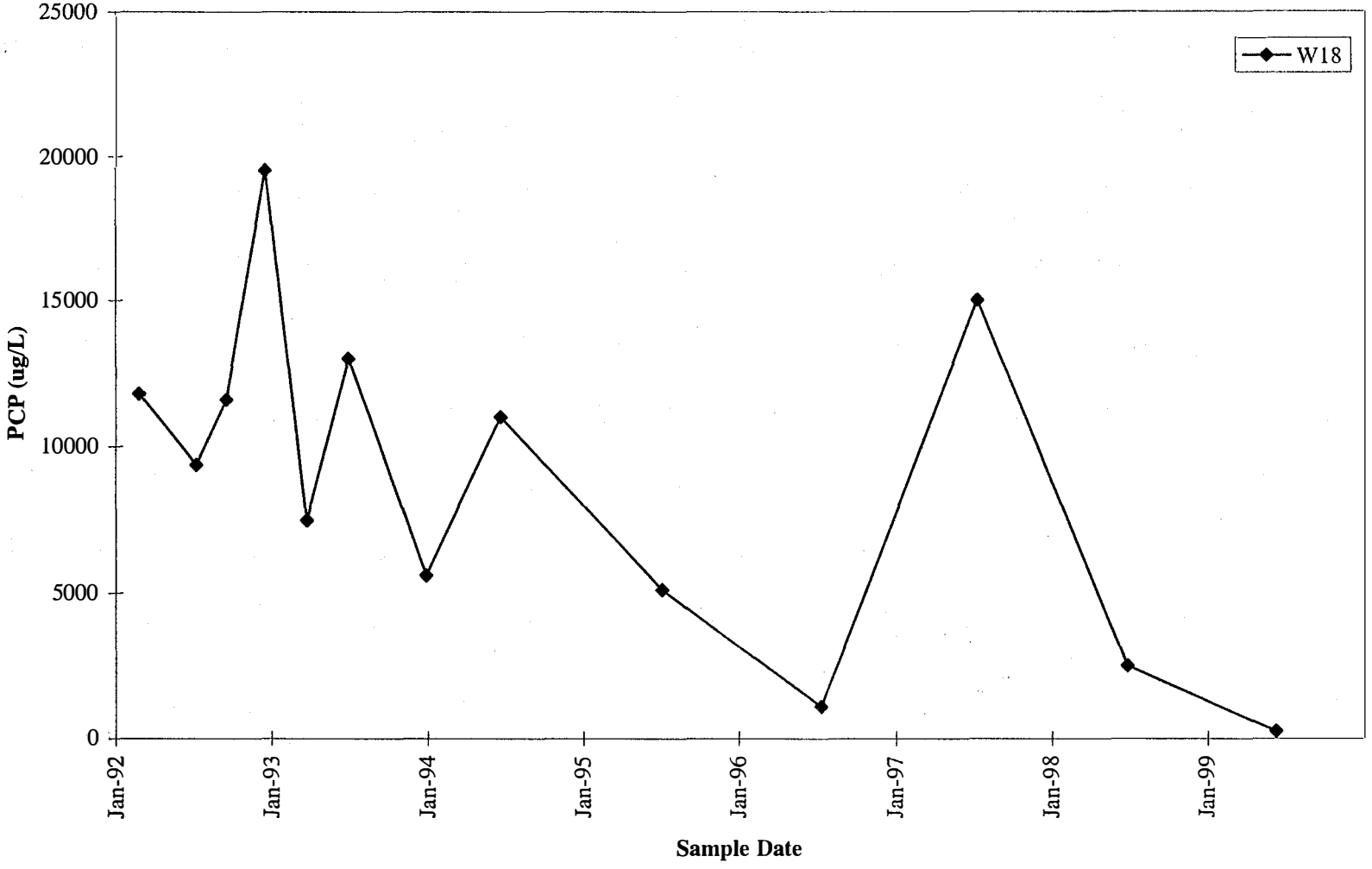
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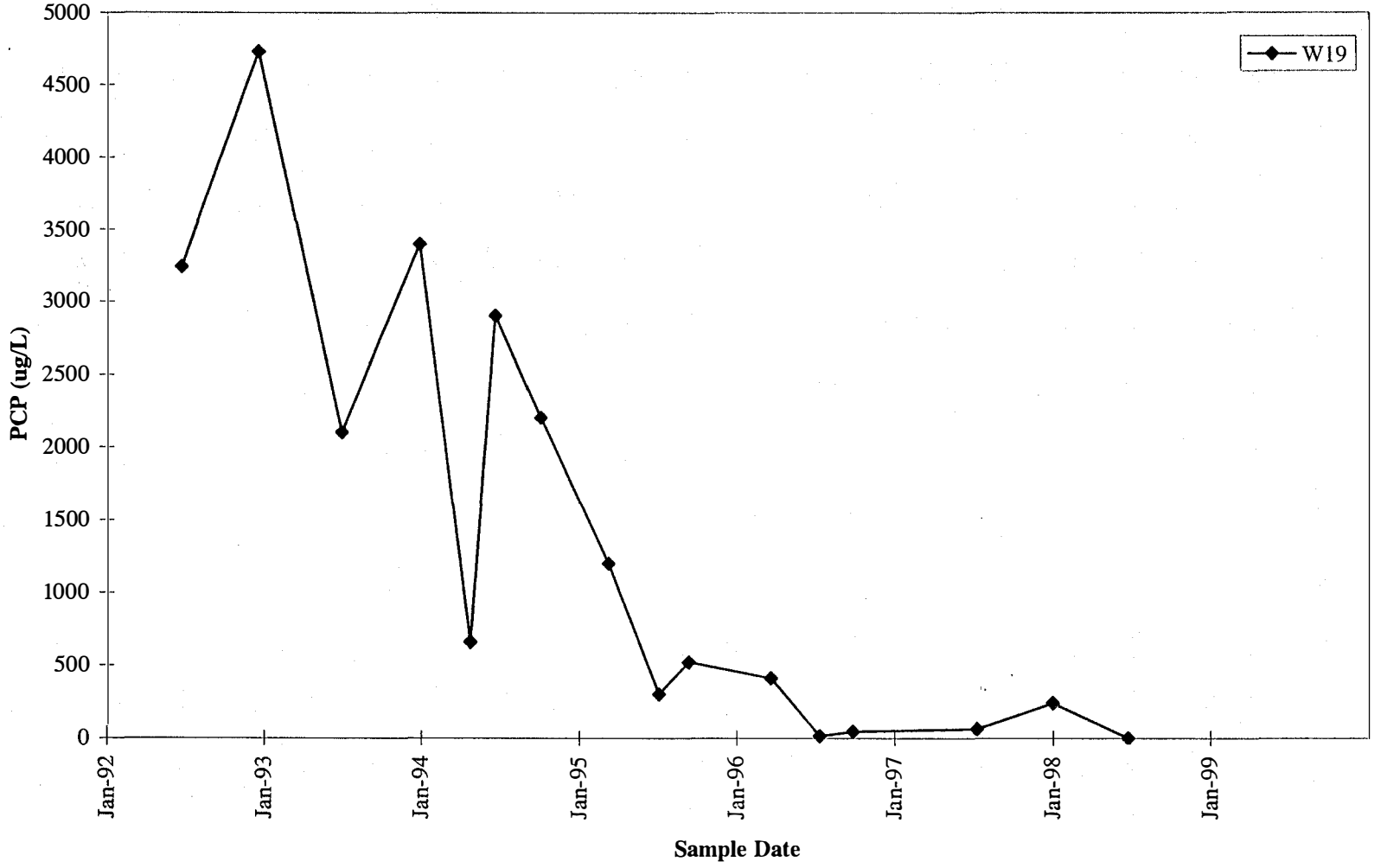
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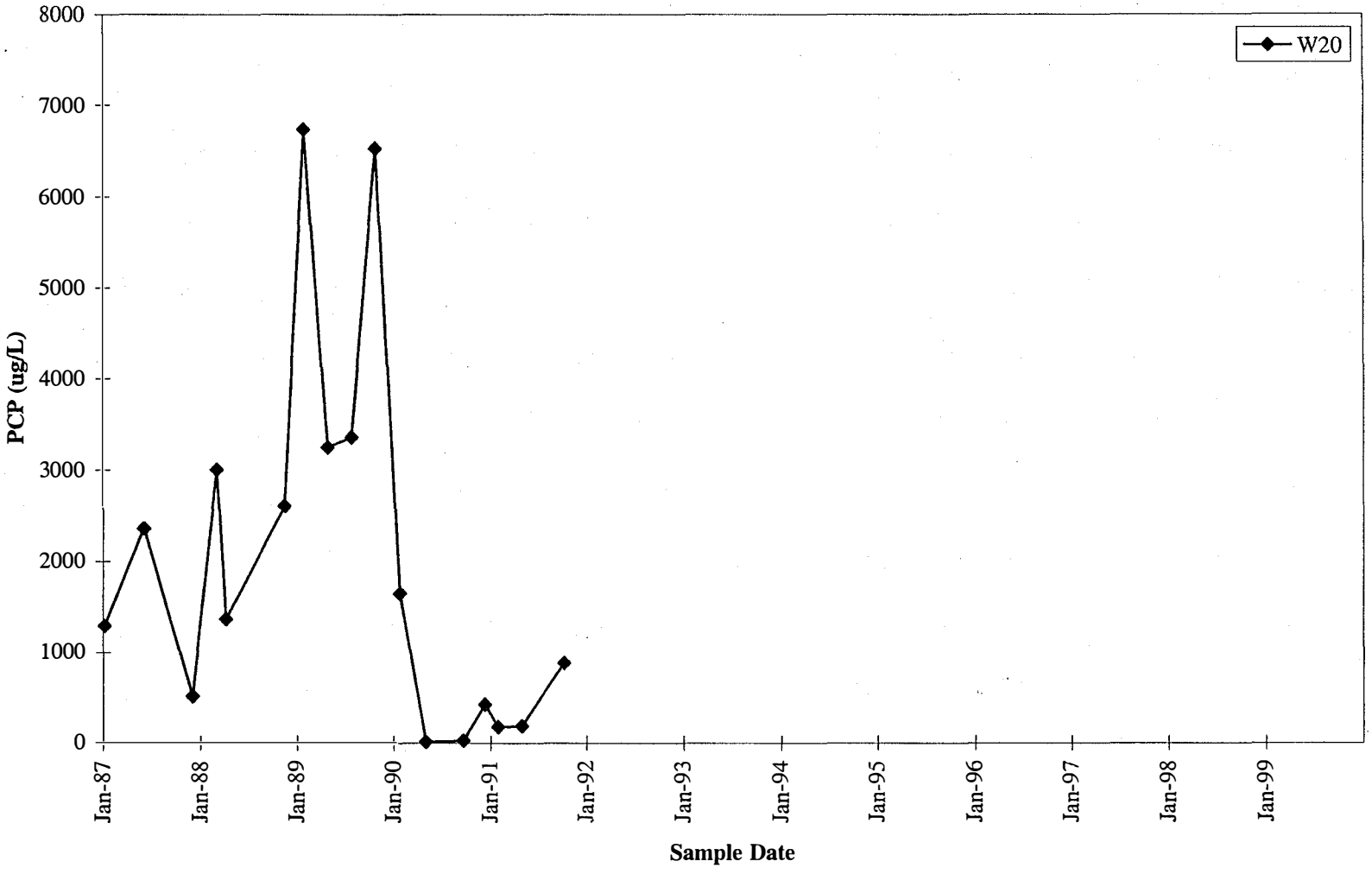
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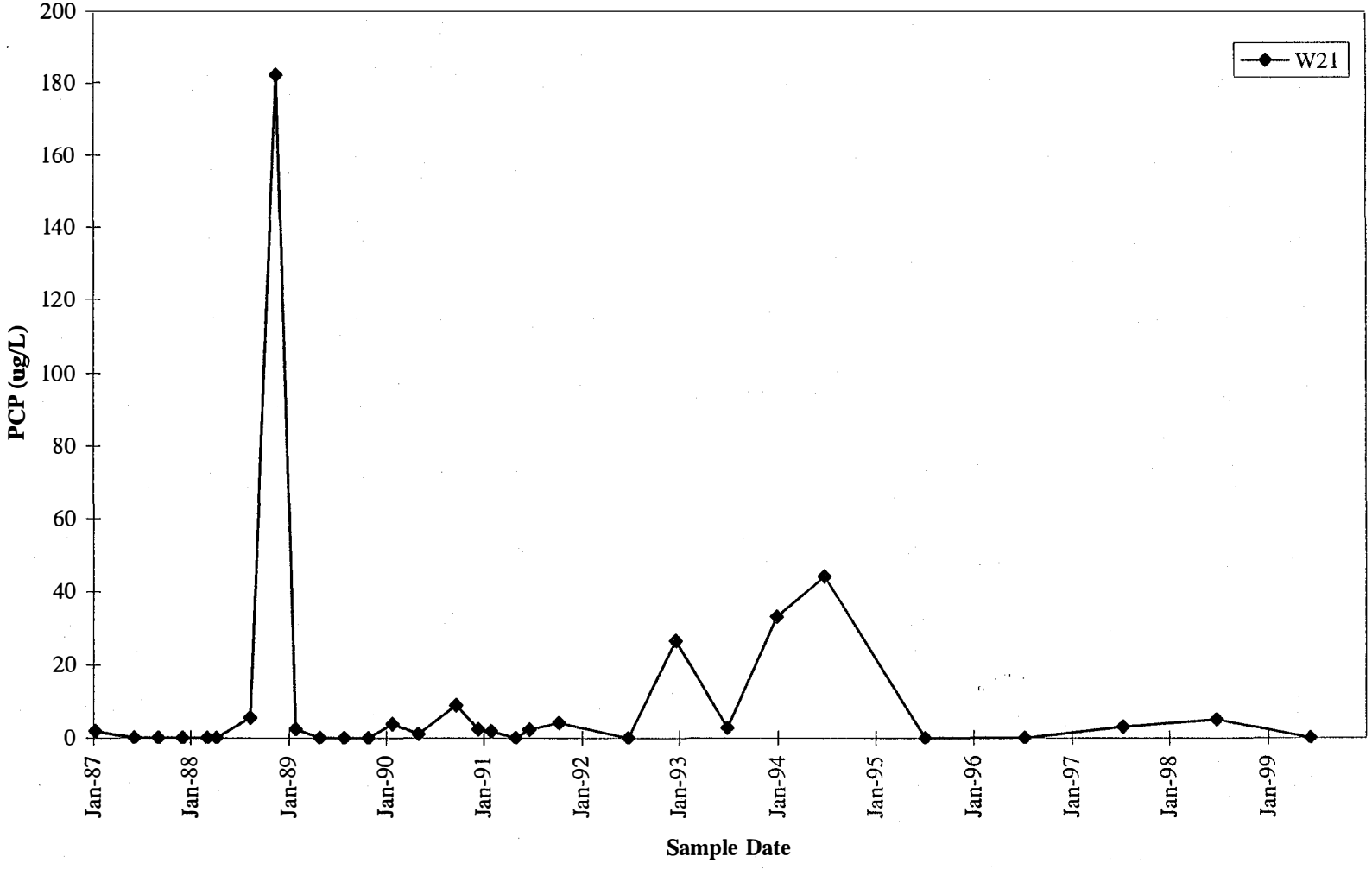
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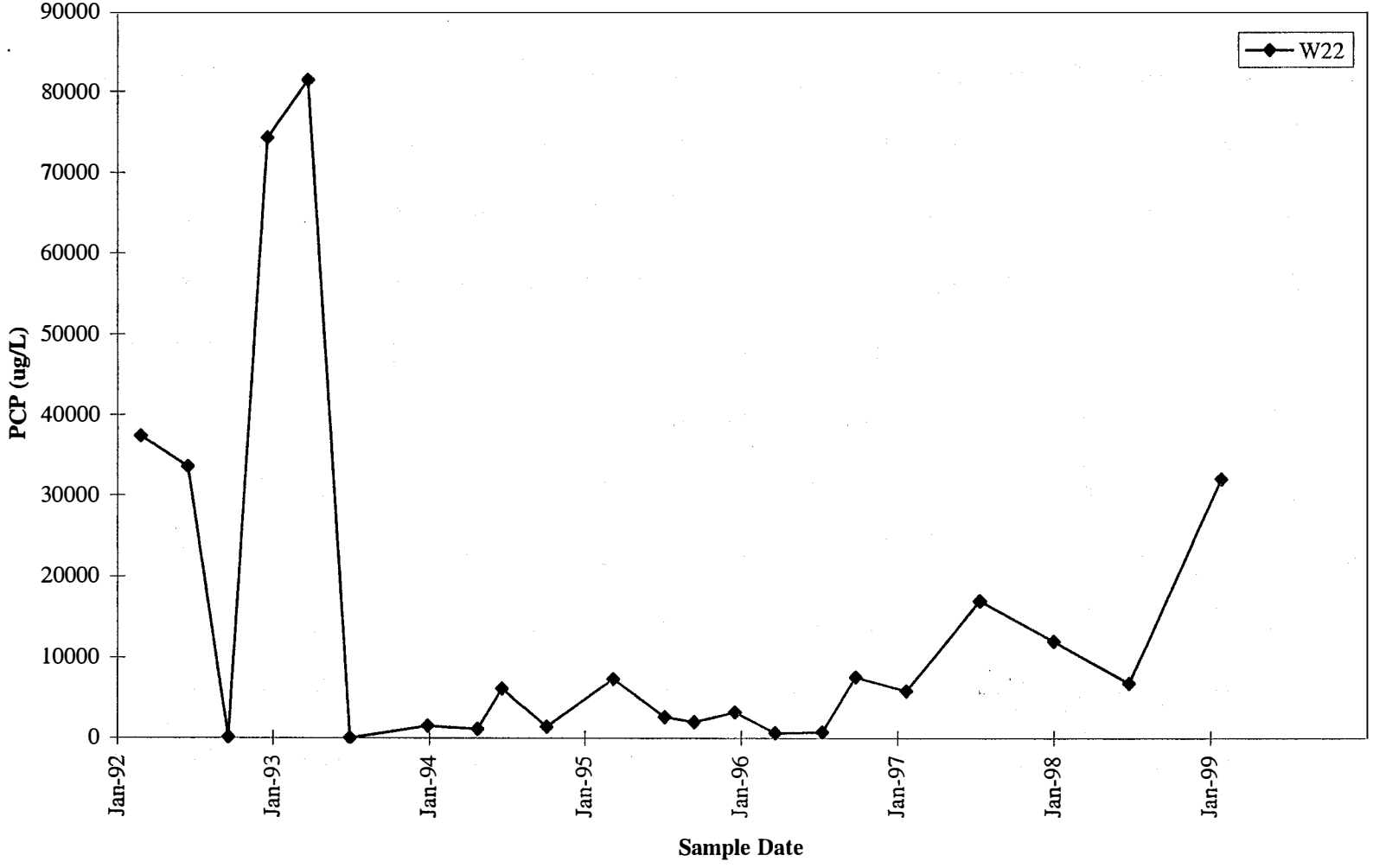
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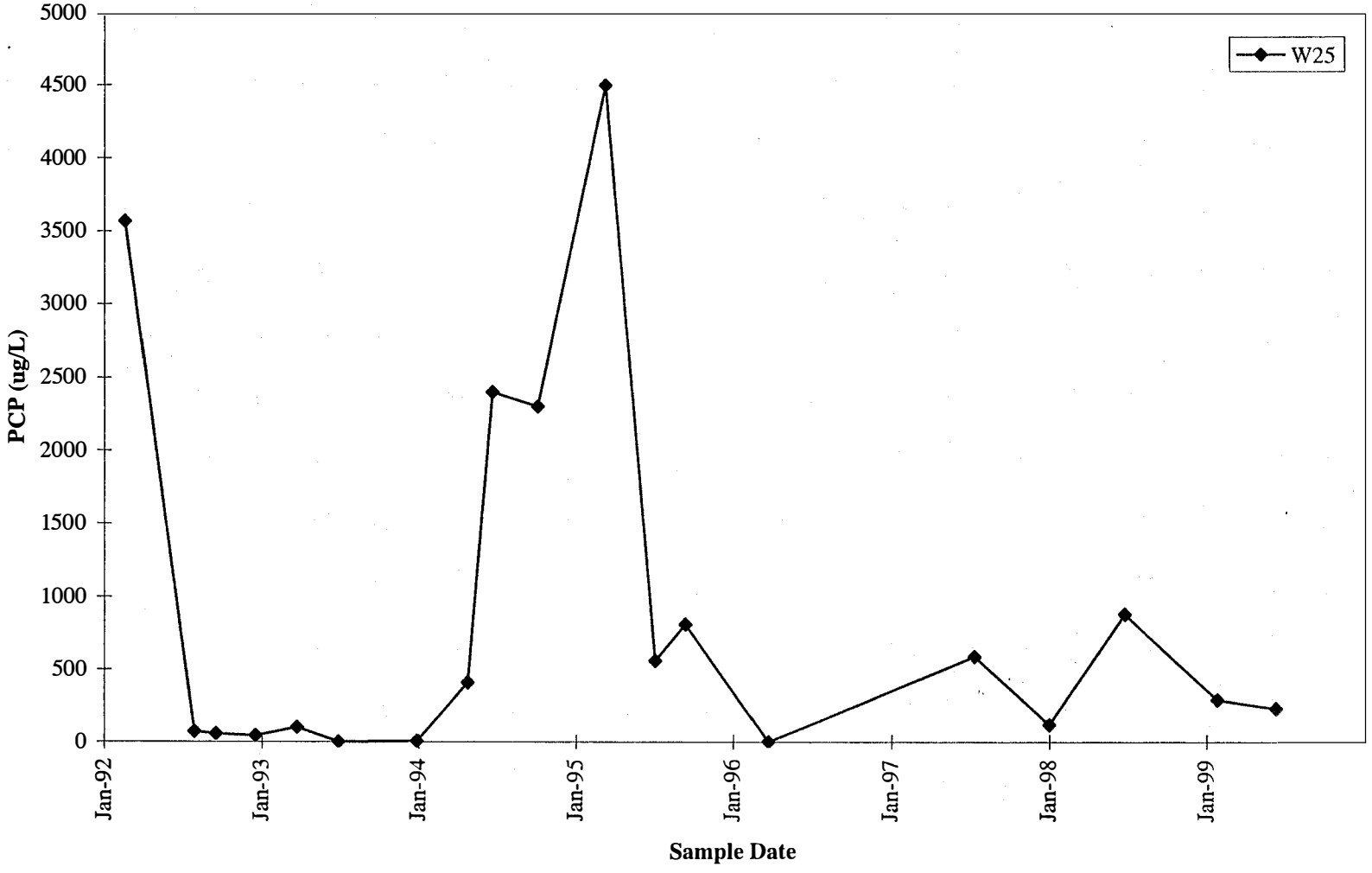
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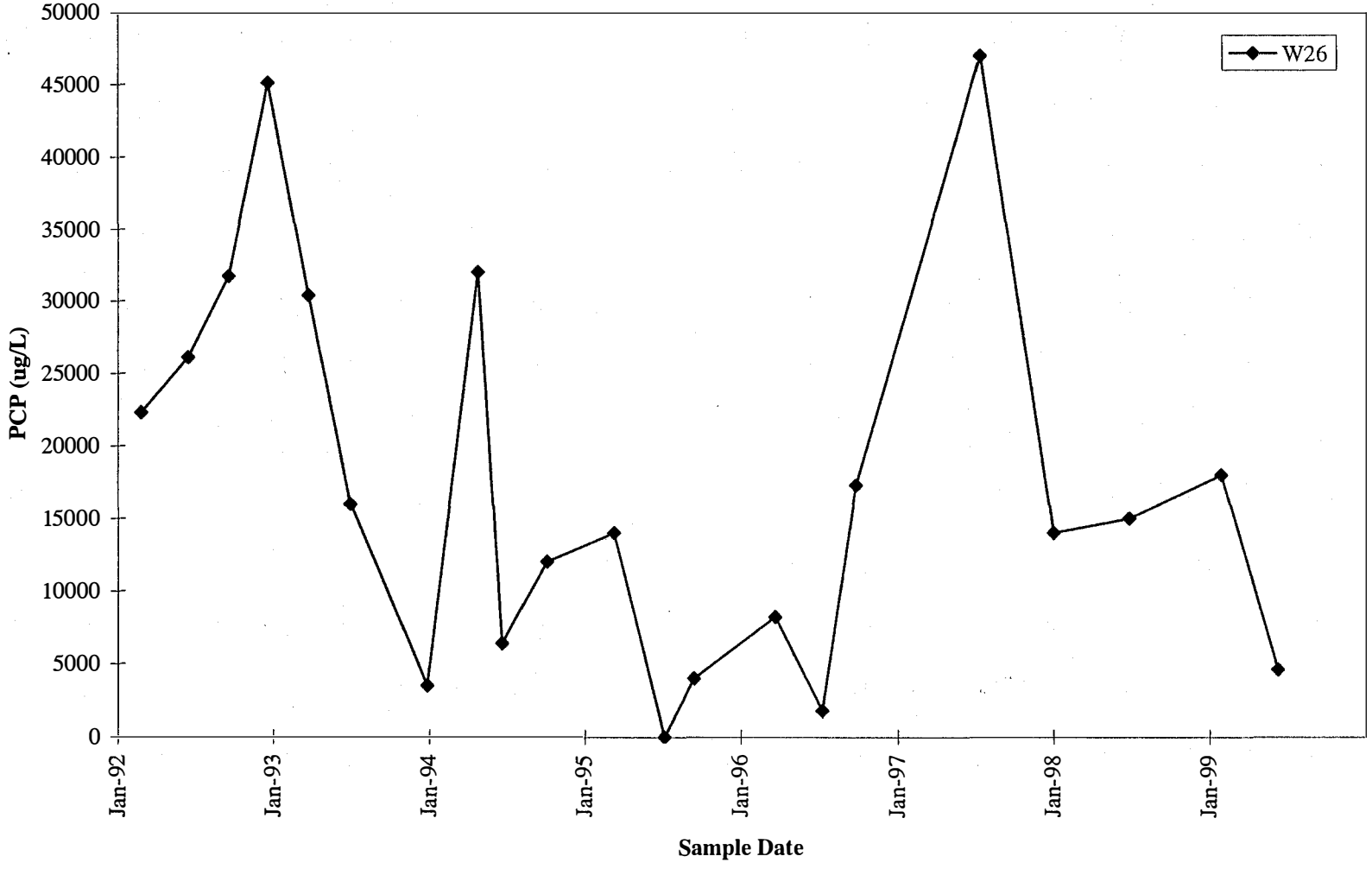
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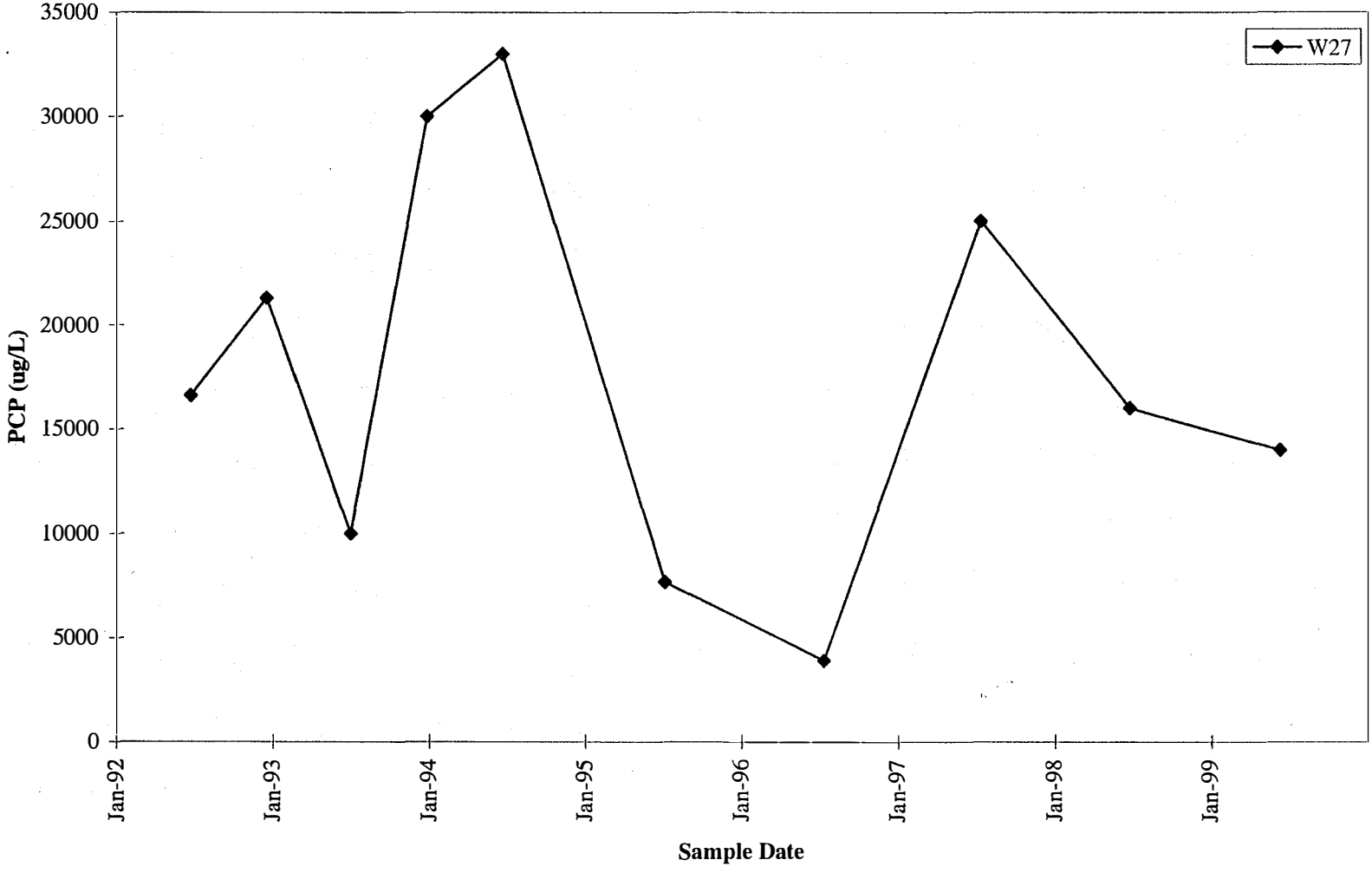
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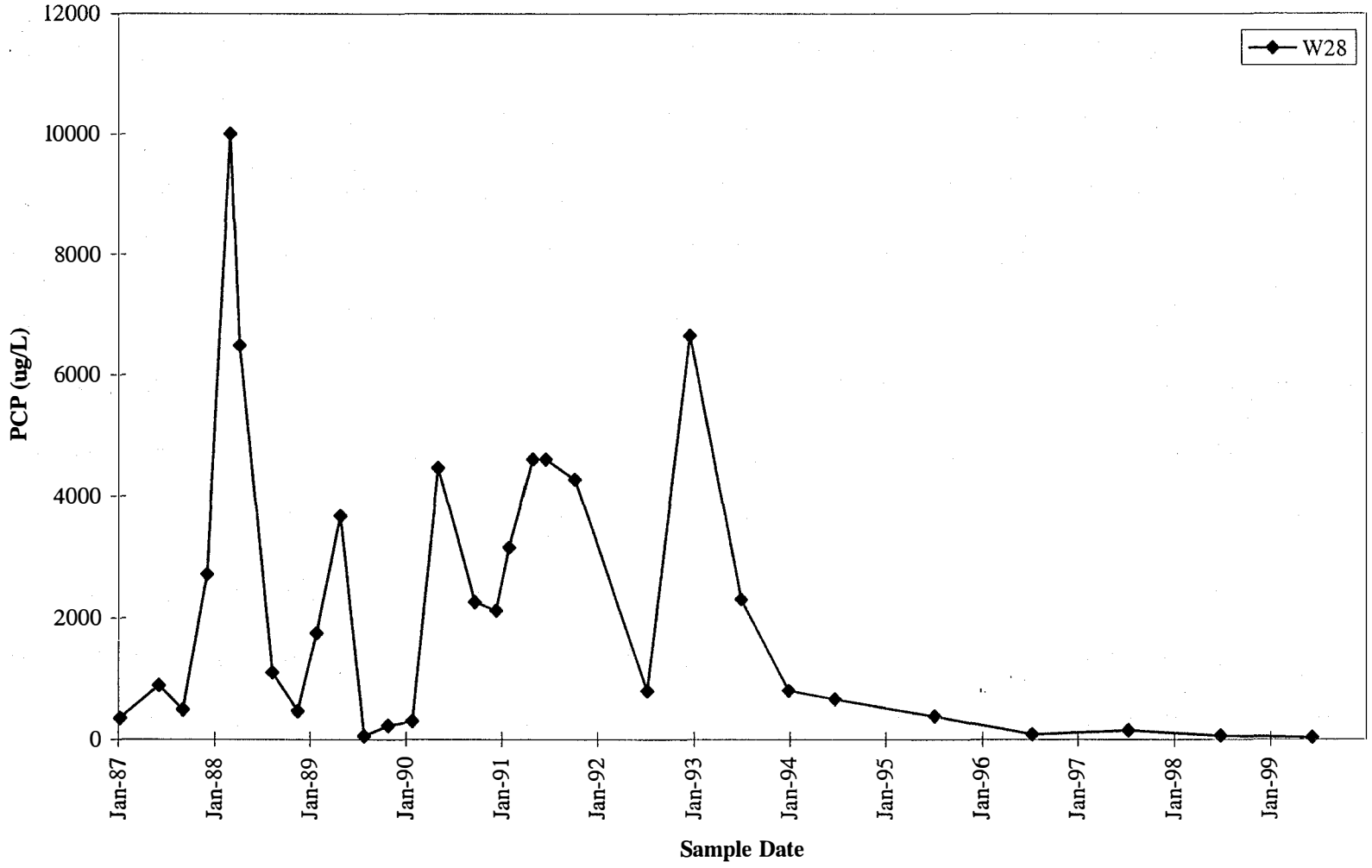
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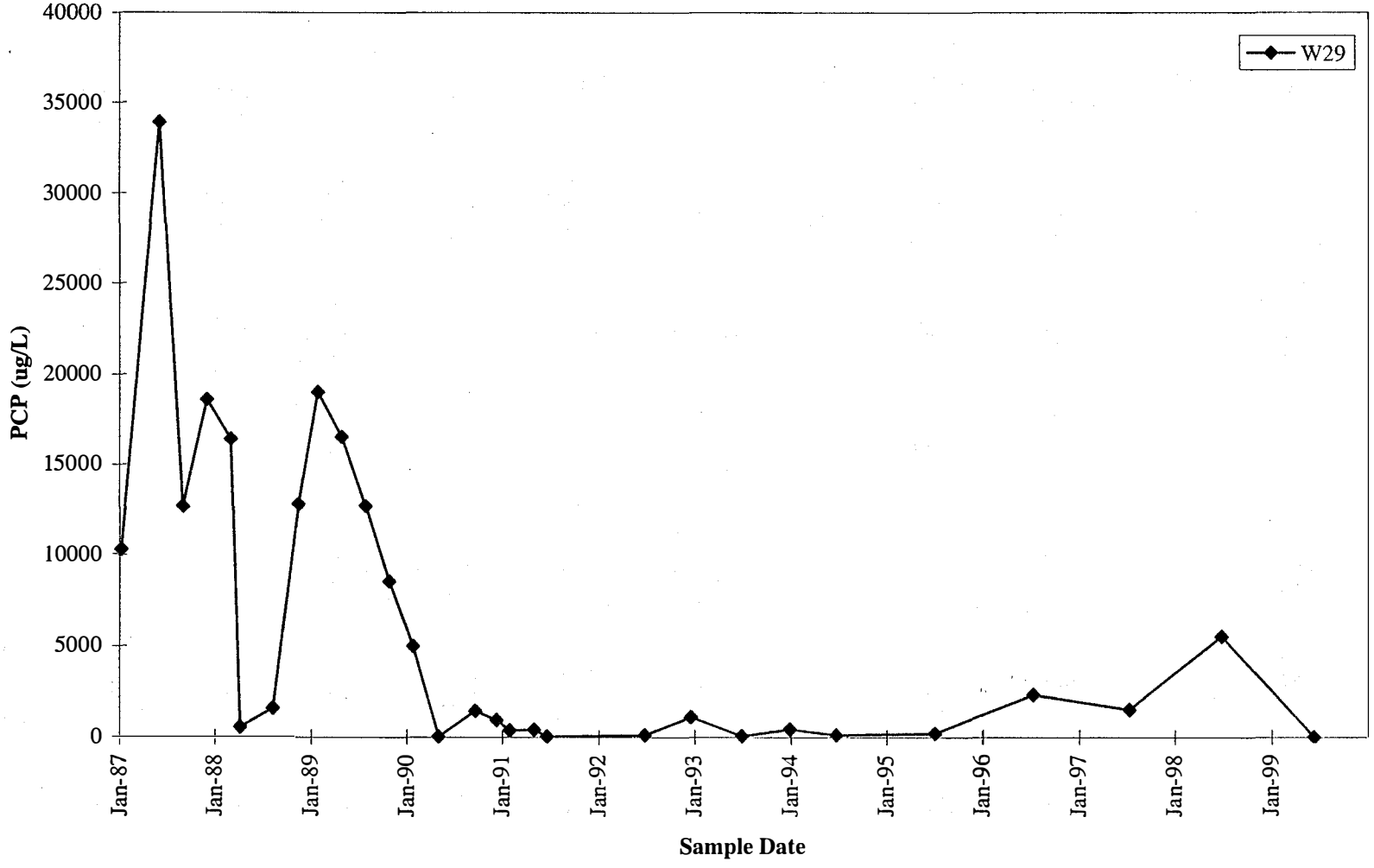
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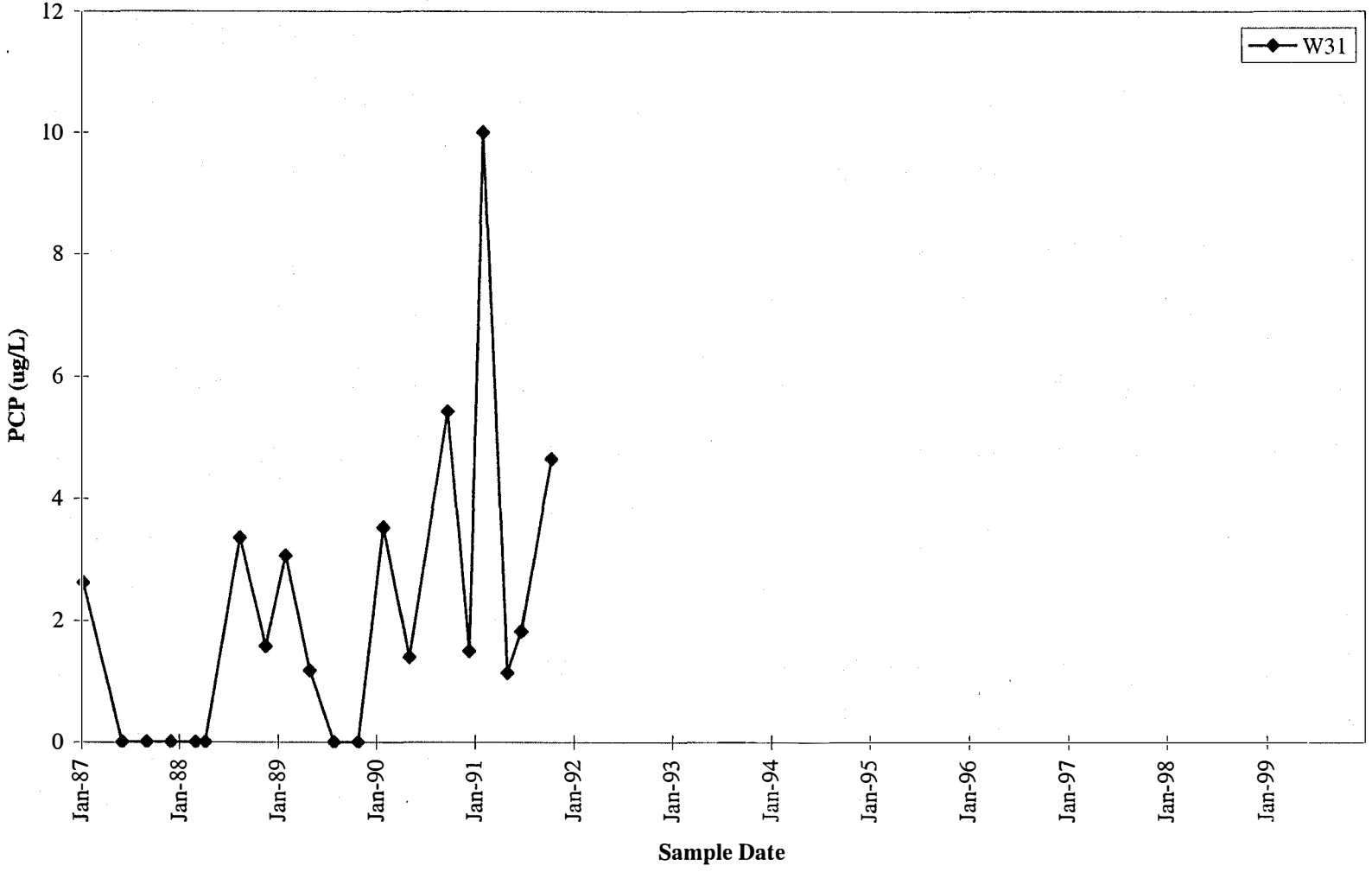
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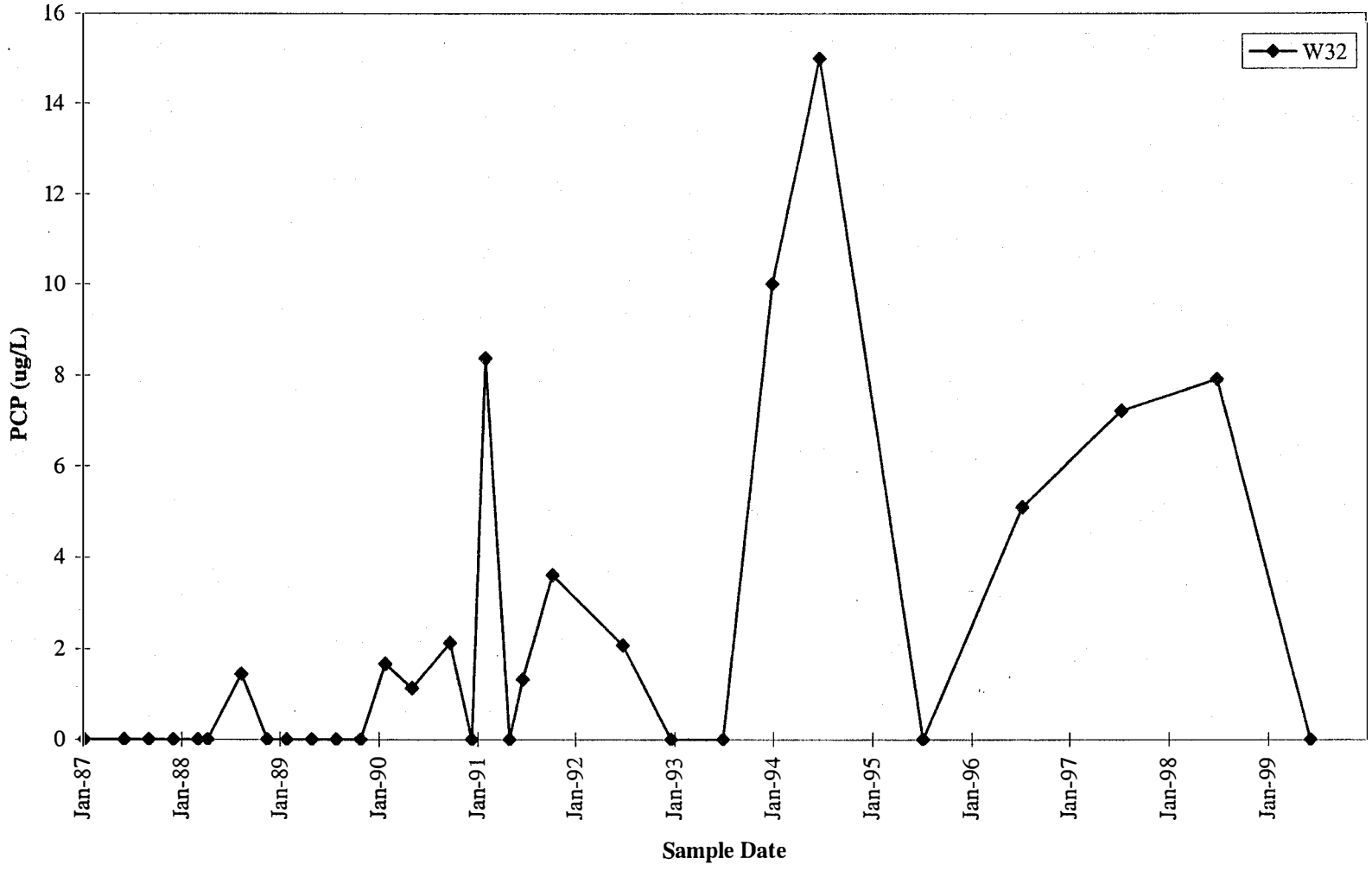
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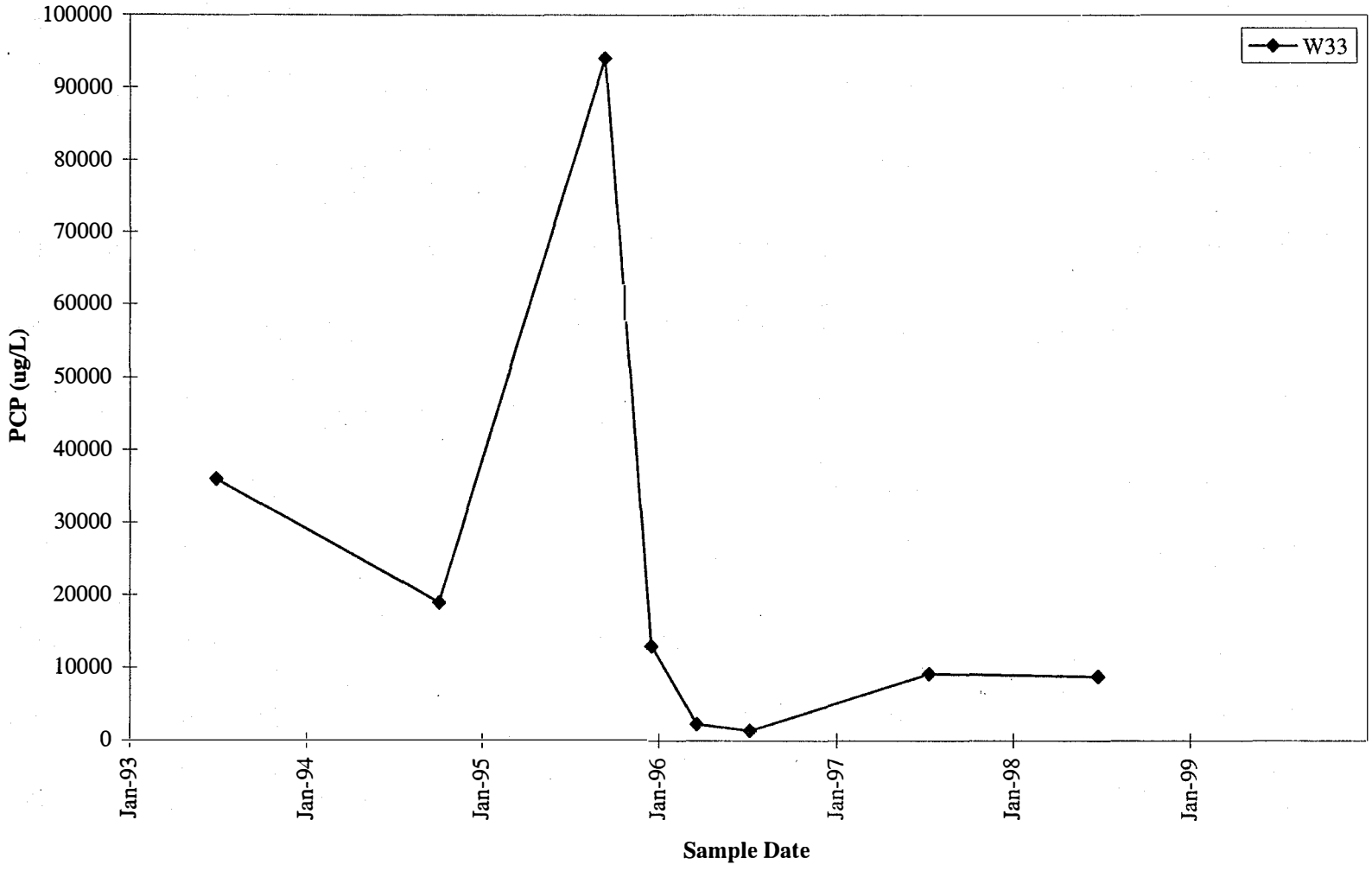
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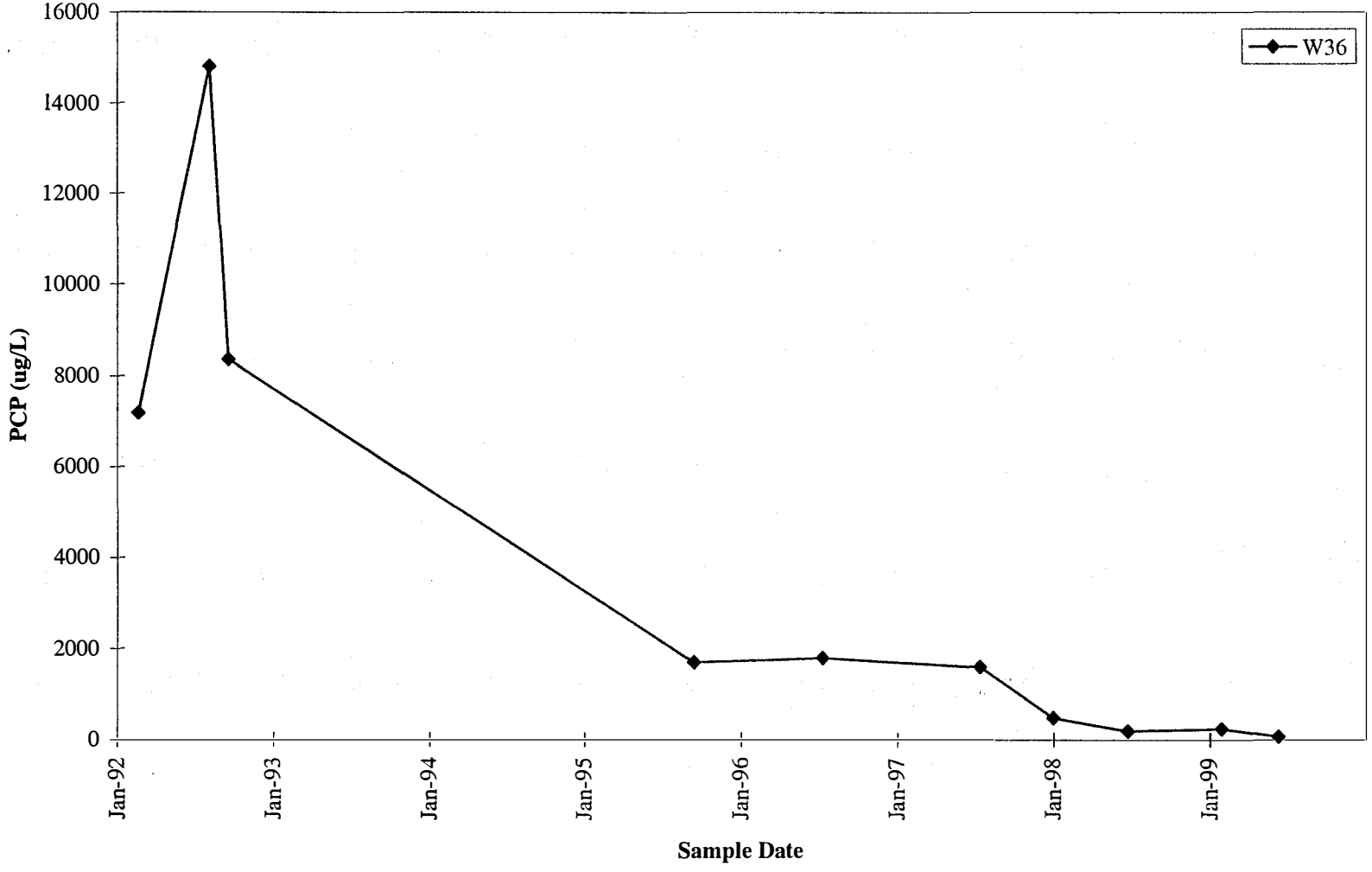
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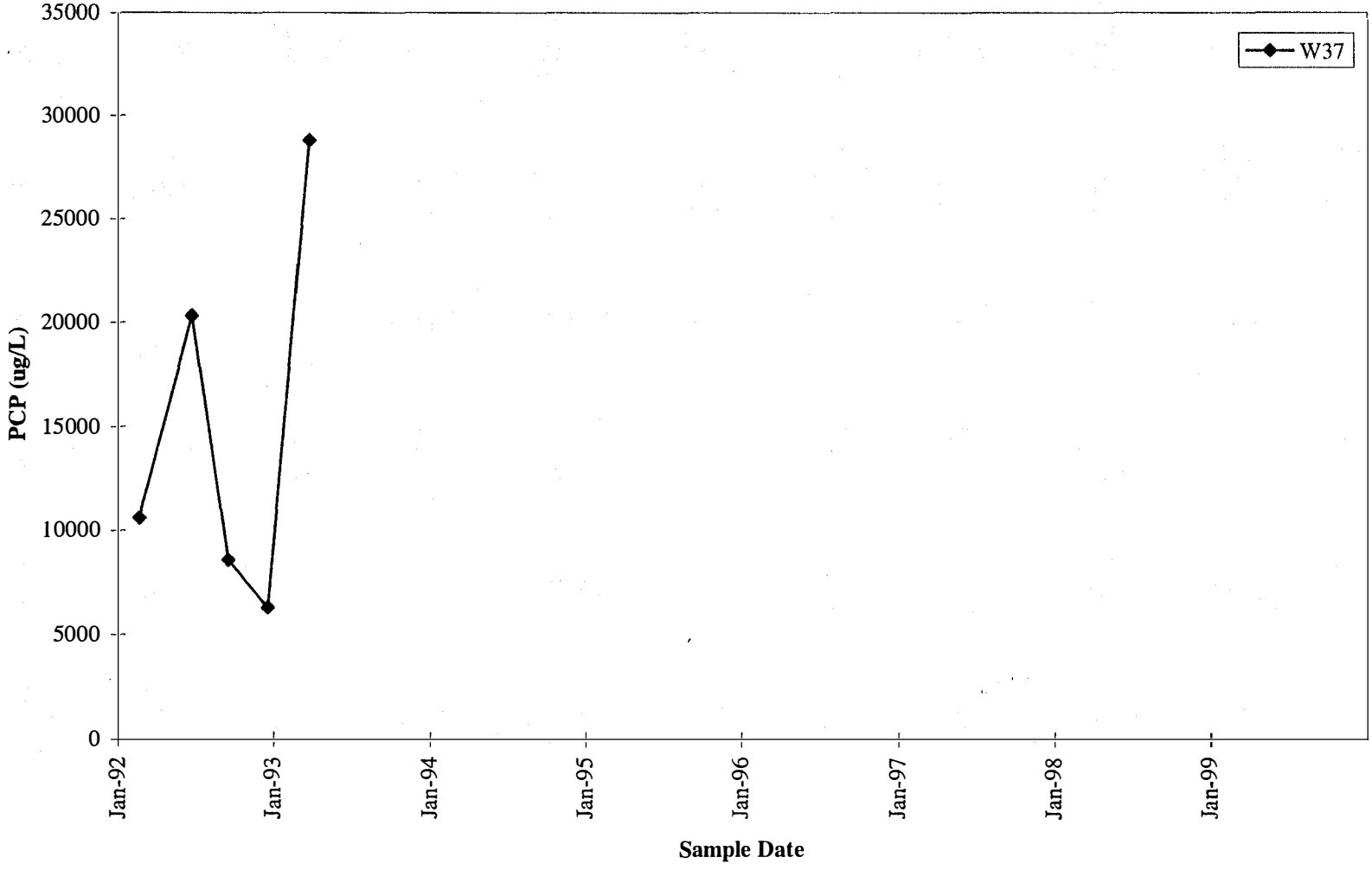
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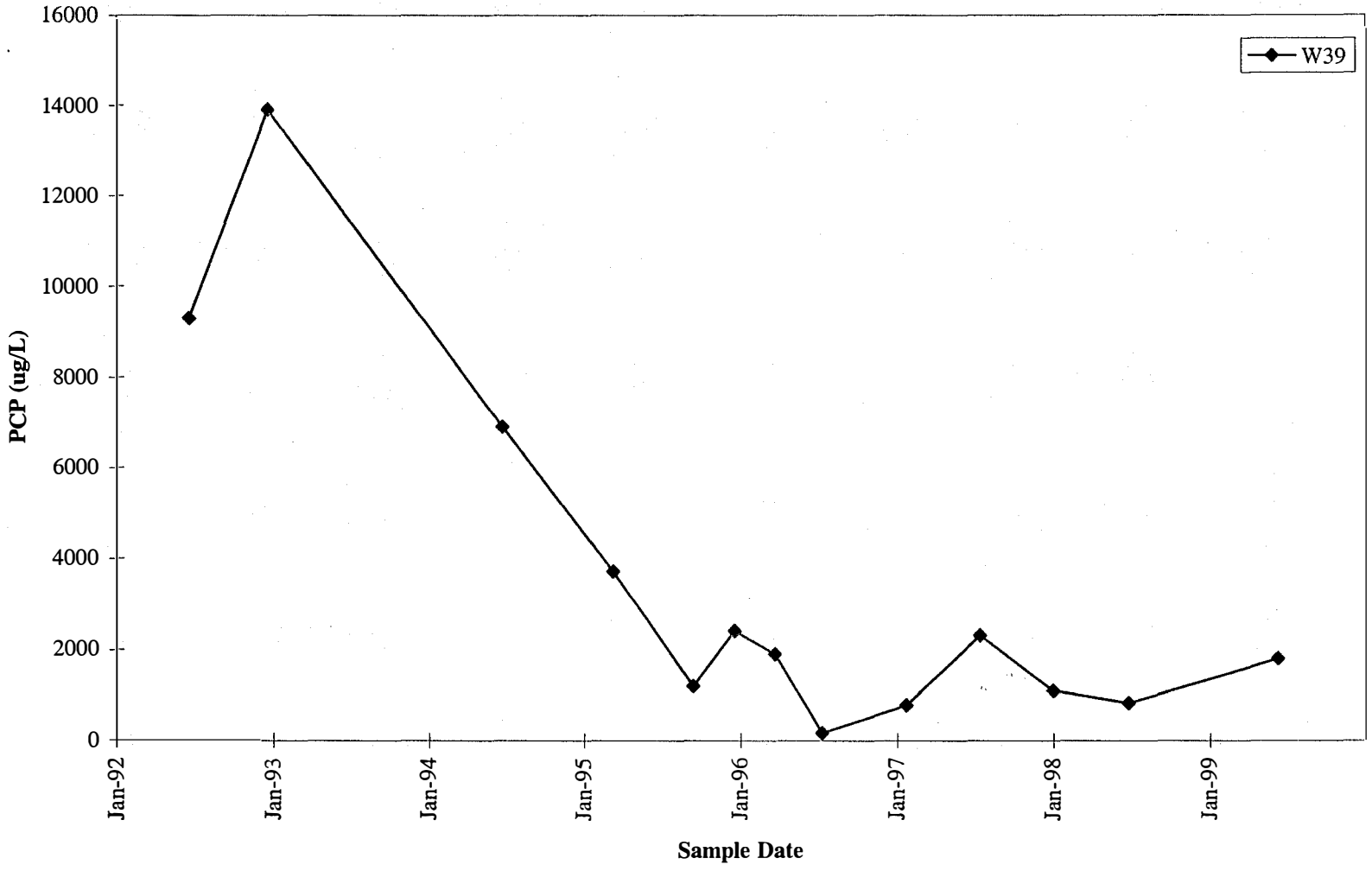
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Quarterly Groundwater Monitoring



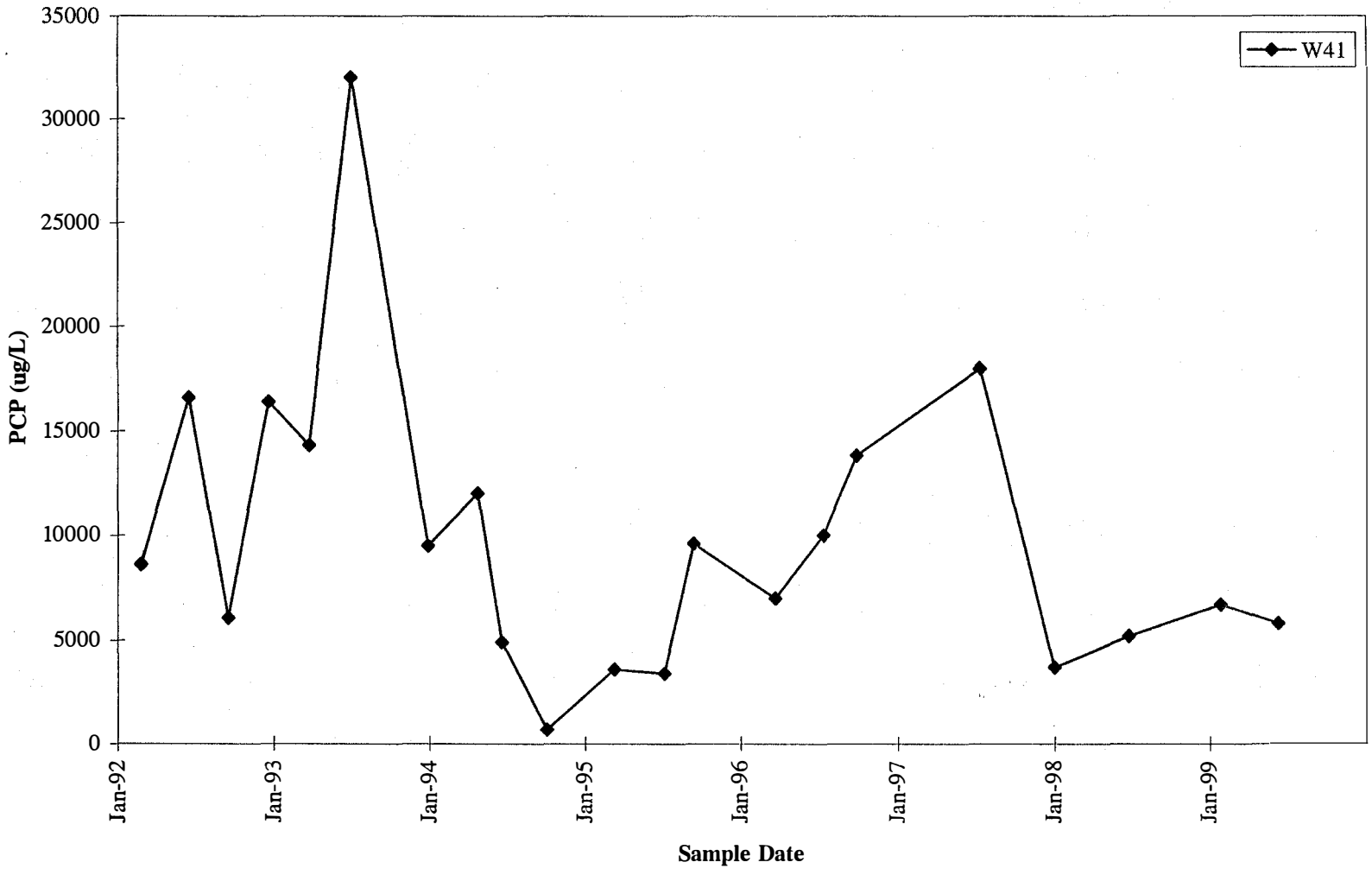
Pentachlorophenol Concentrations
Quarterly Groundwater Monitoring



Pentachlorophenol Concentrations
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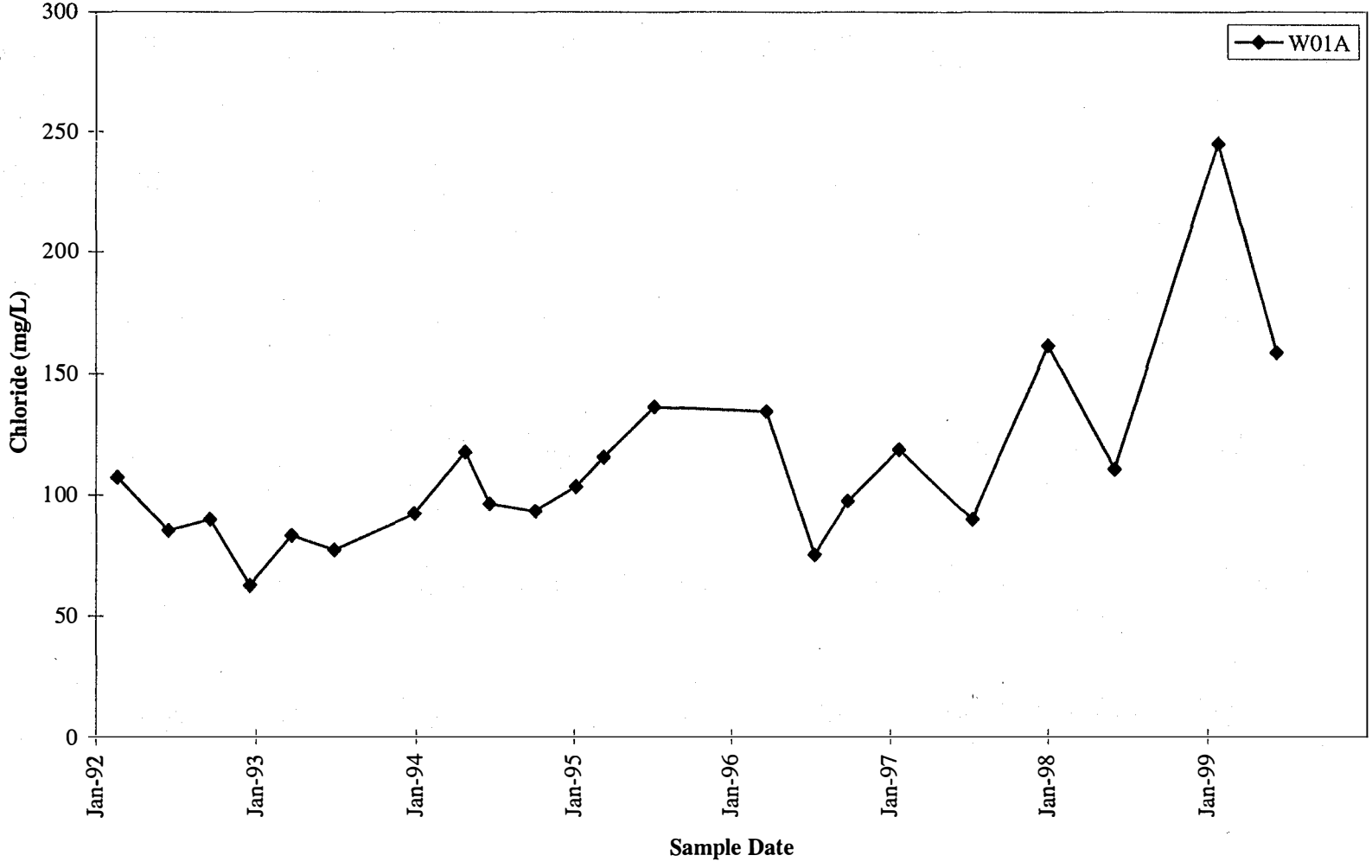
Pentachlorophenol Concentrations
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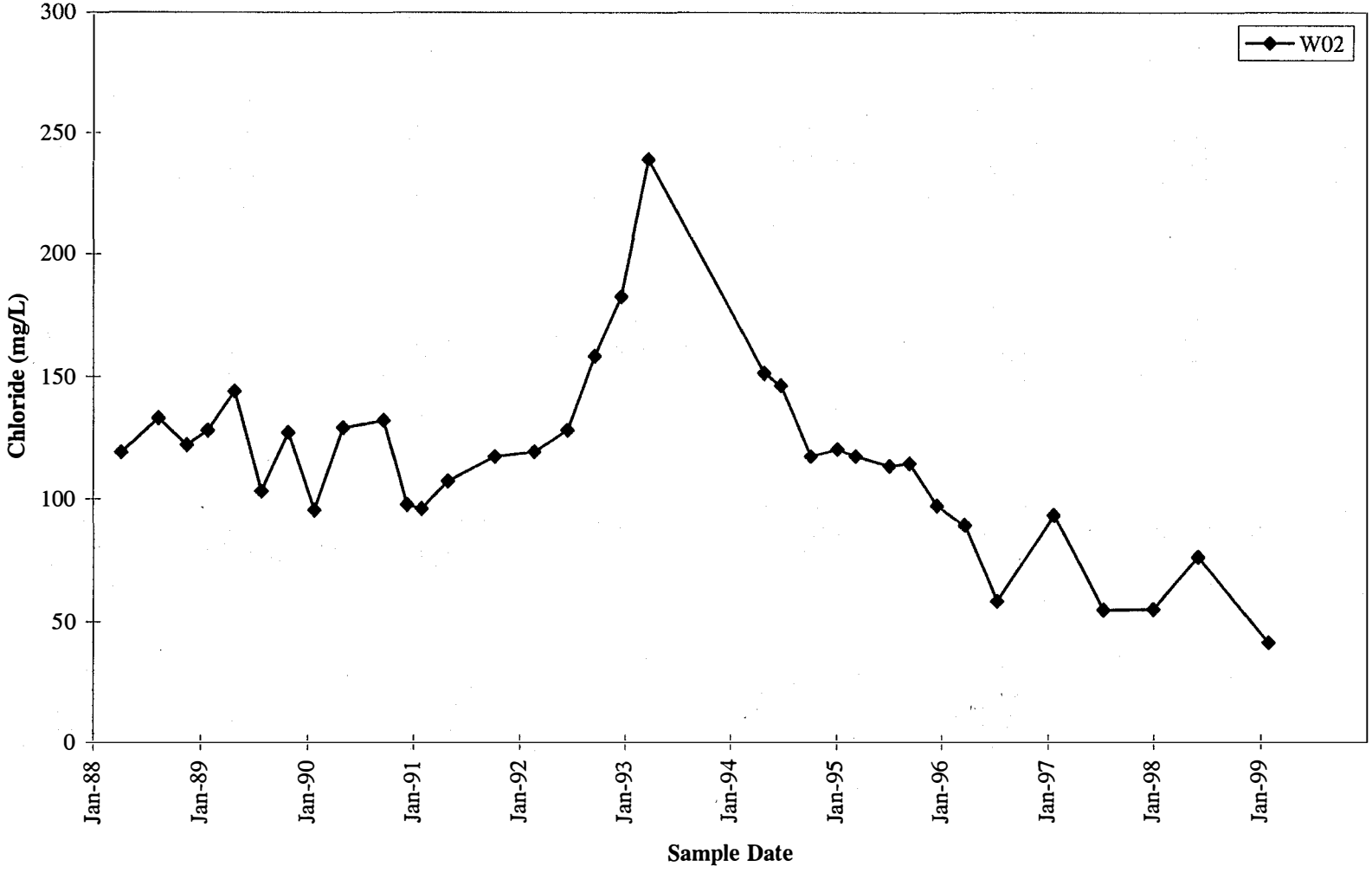
B2

Chloride Time Trends

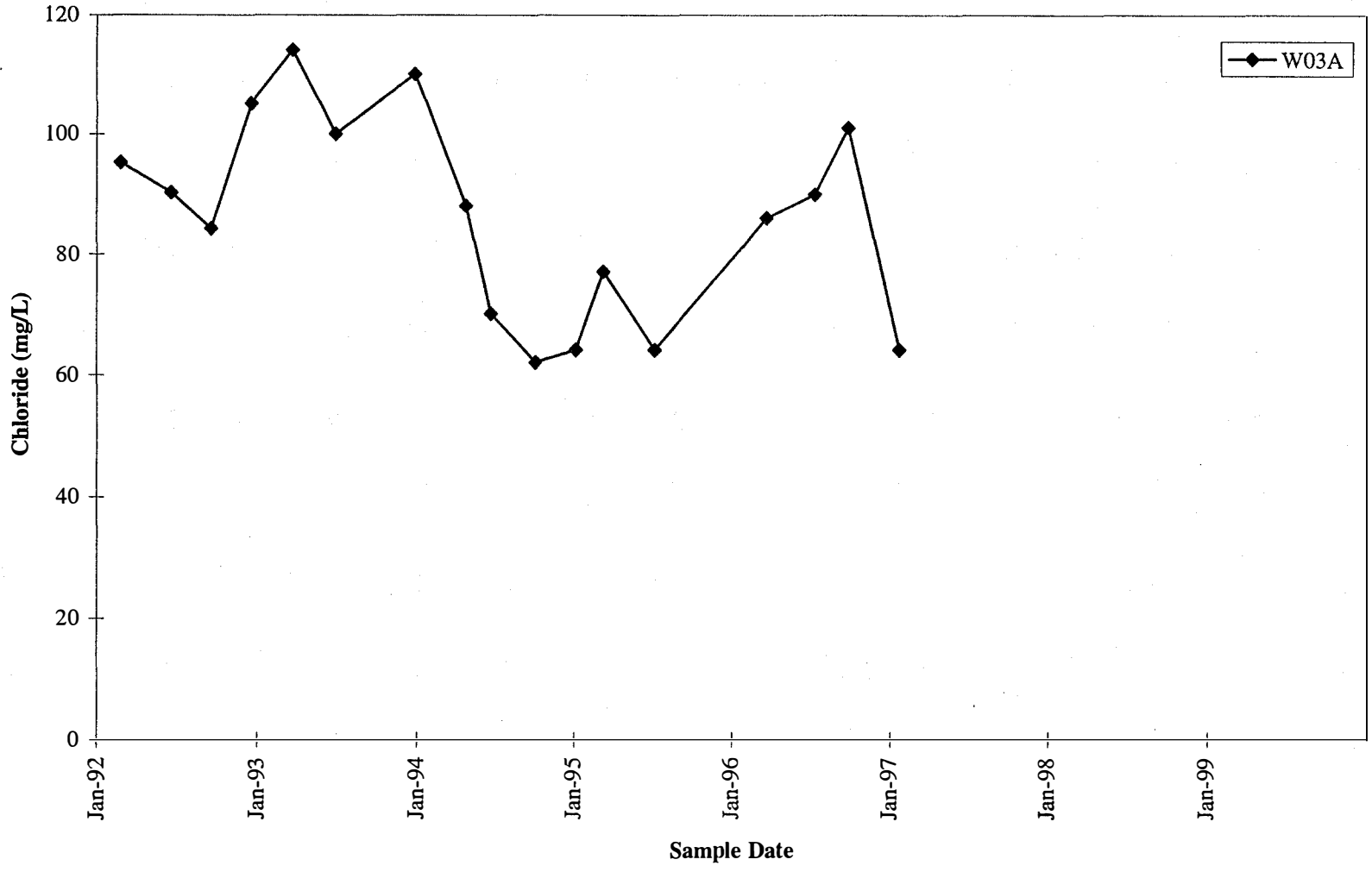
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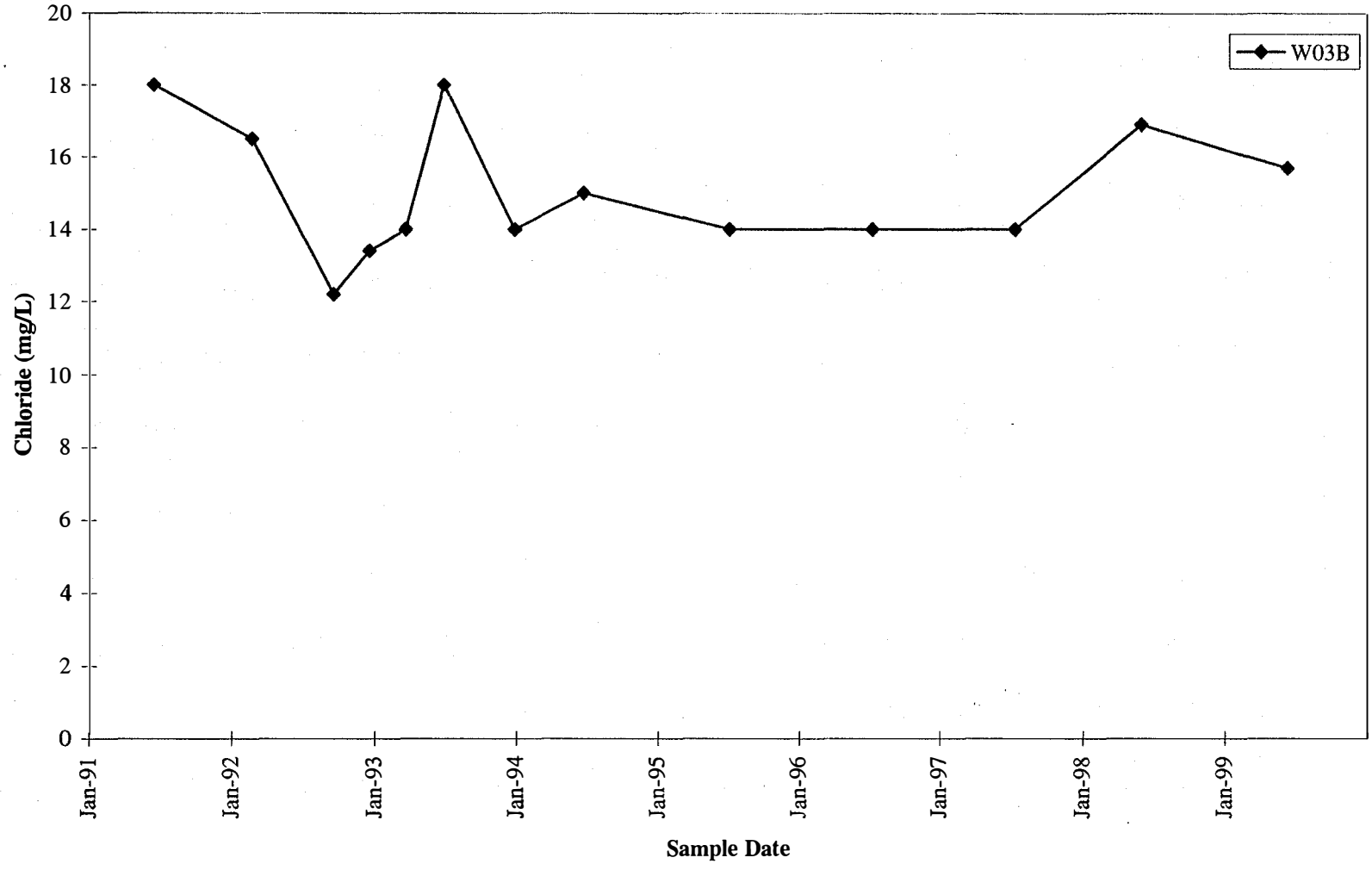
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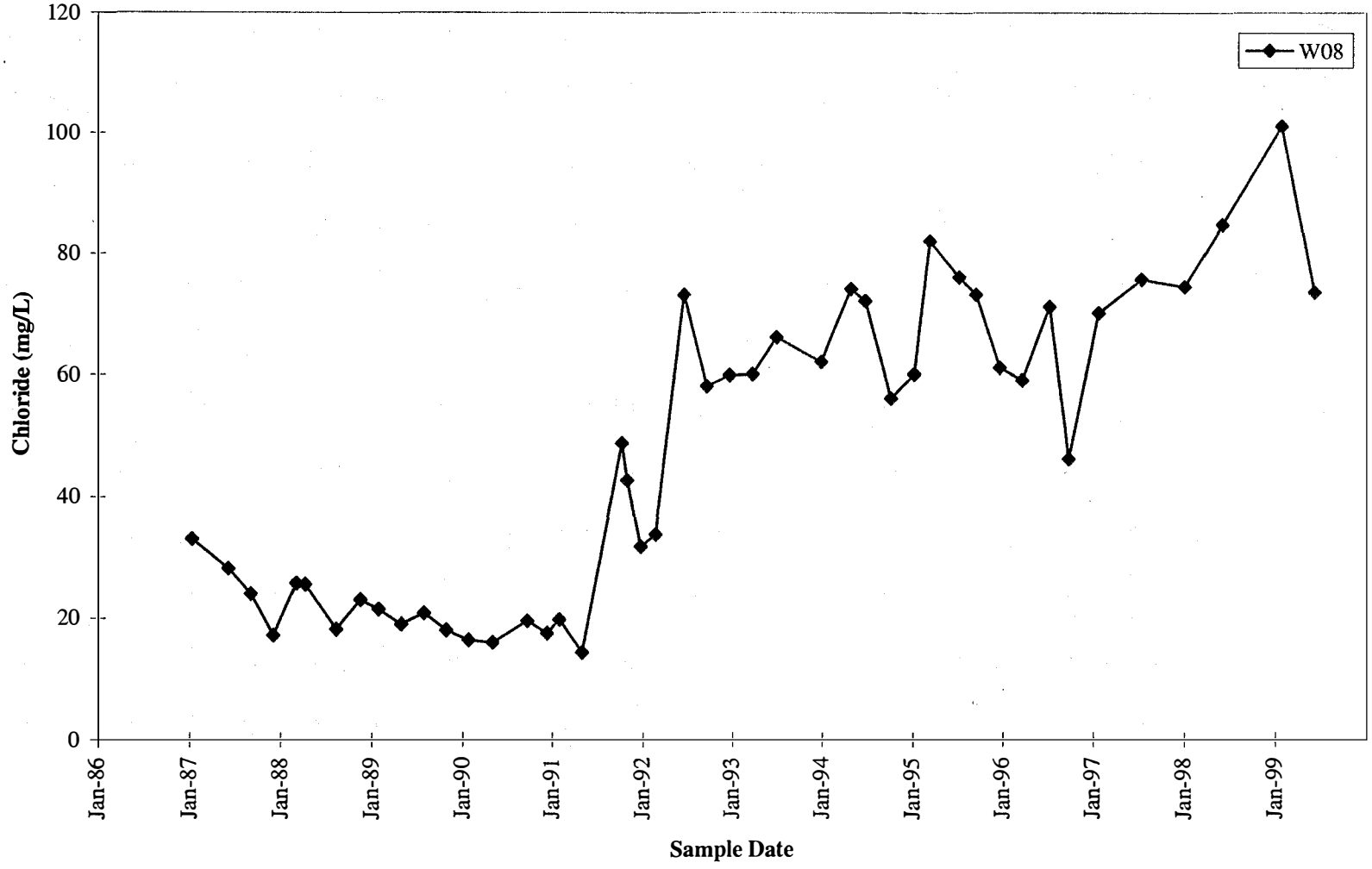
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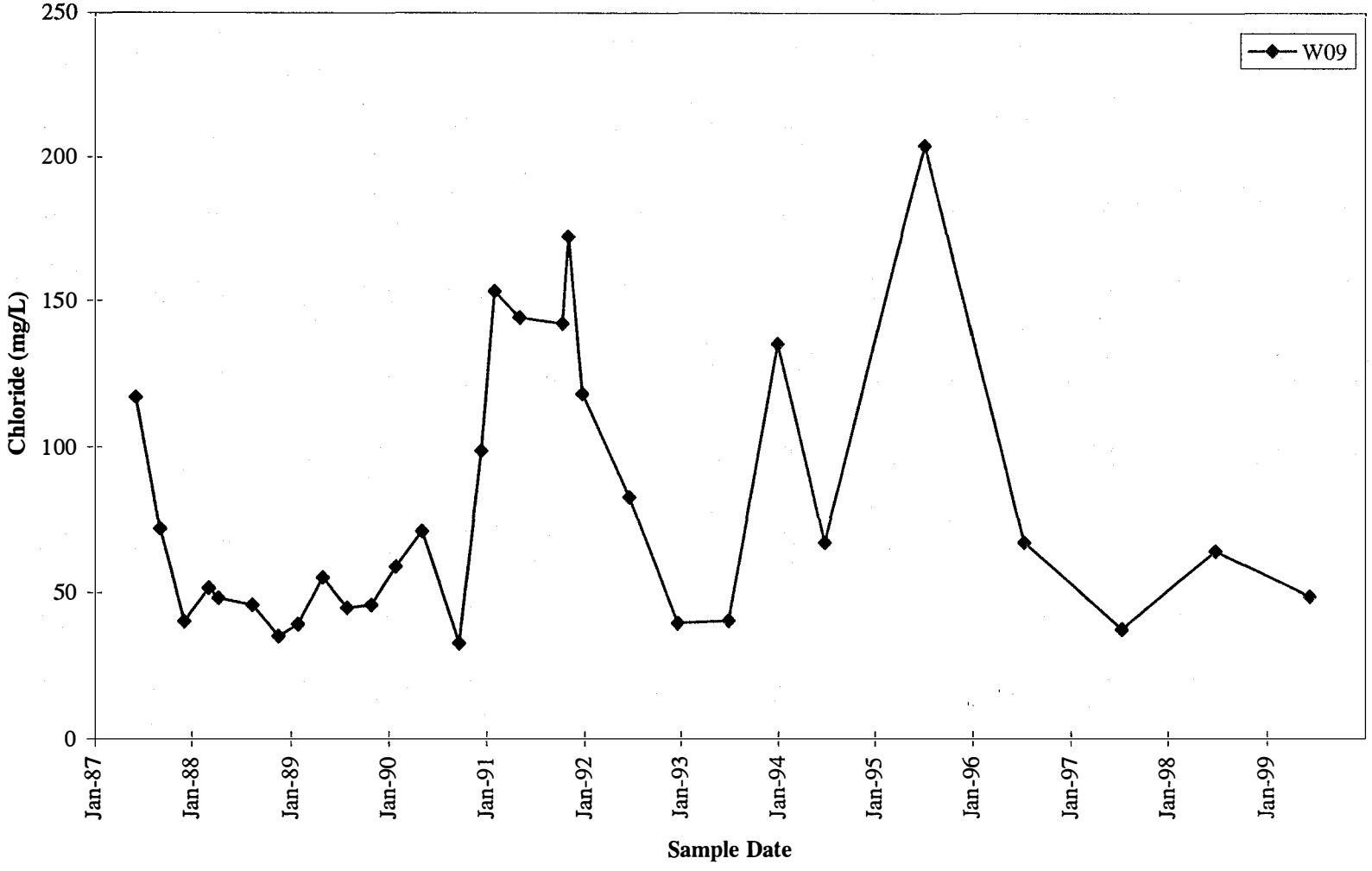
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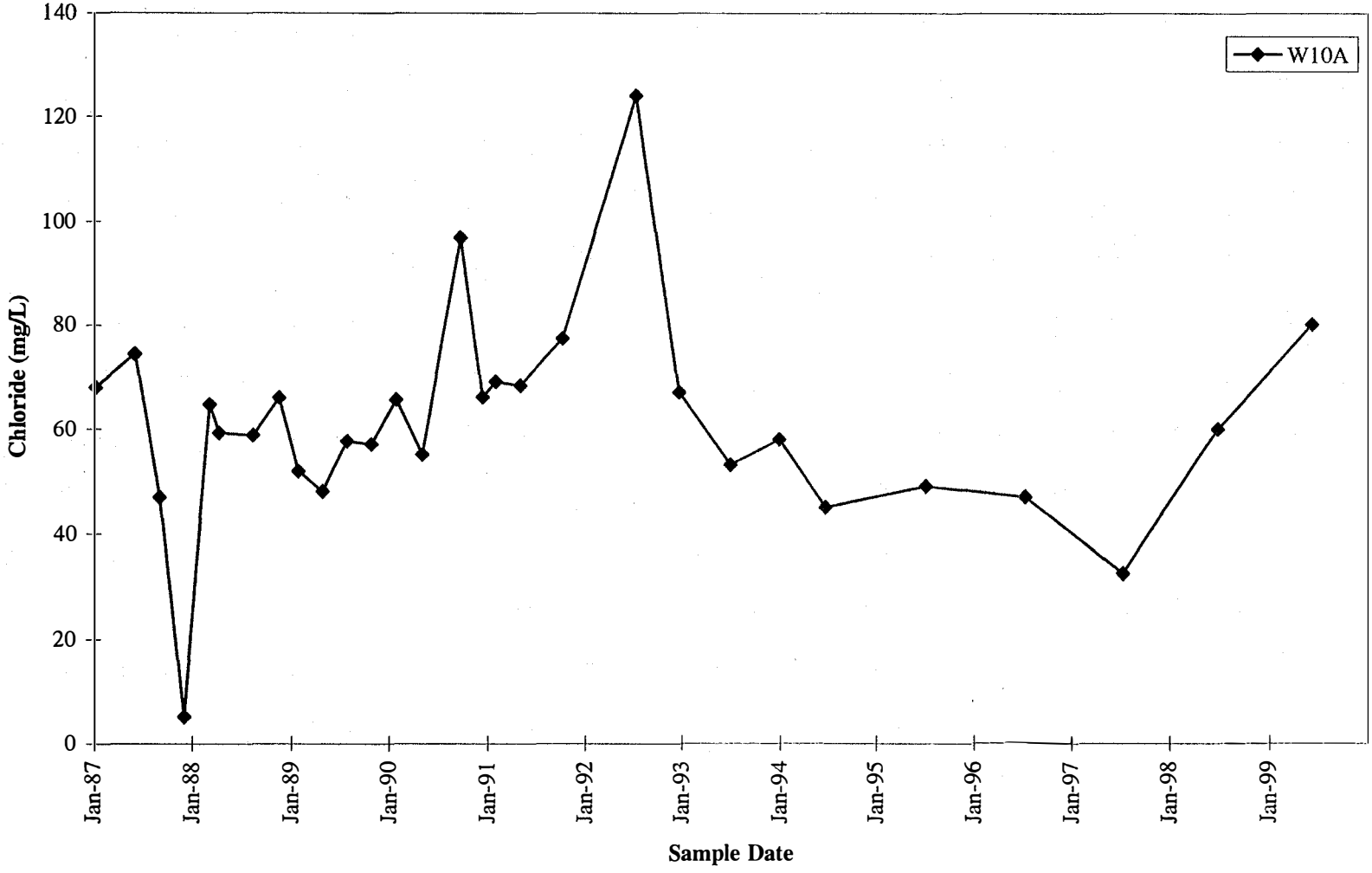
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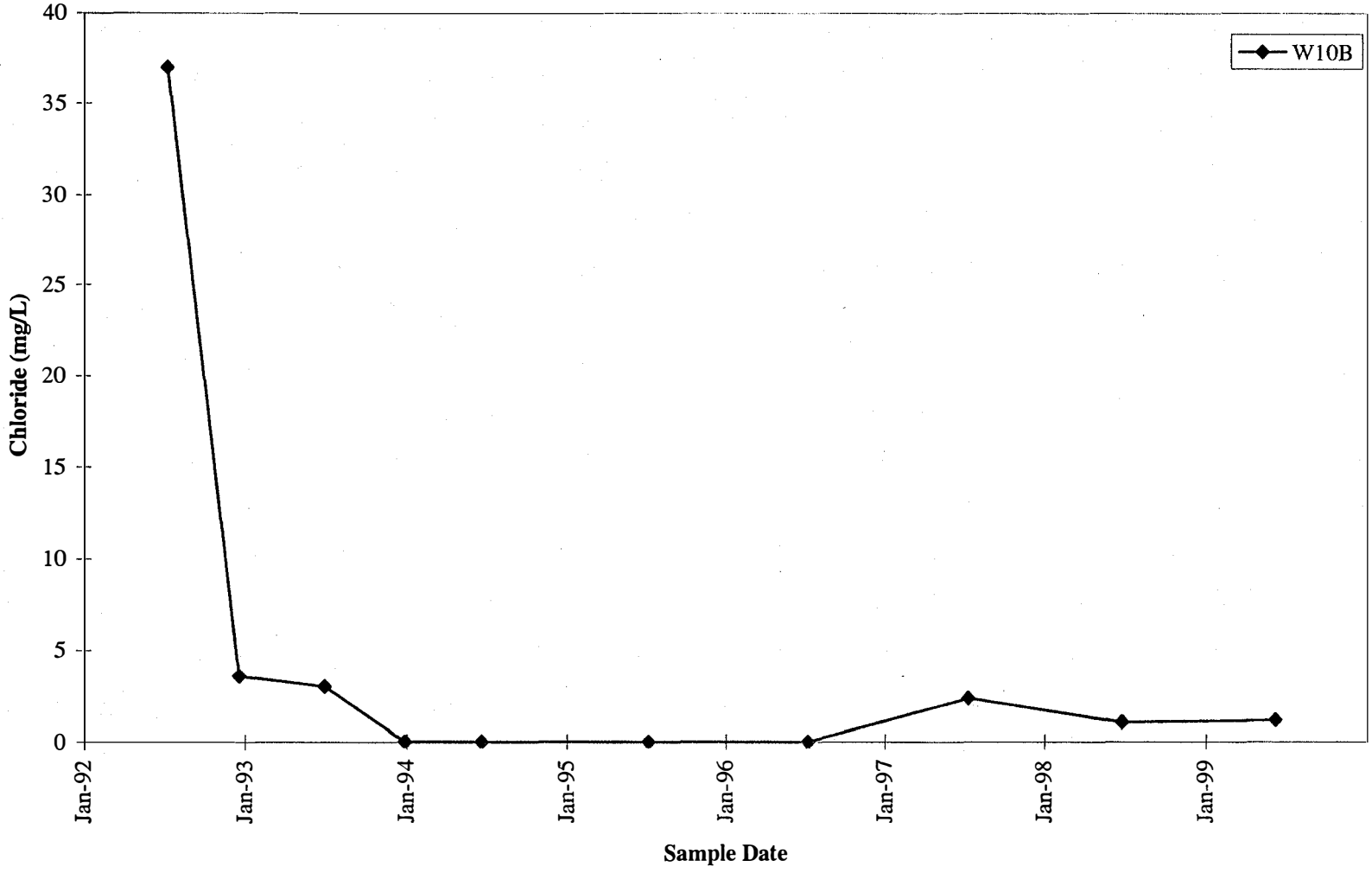
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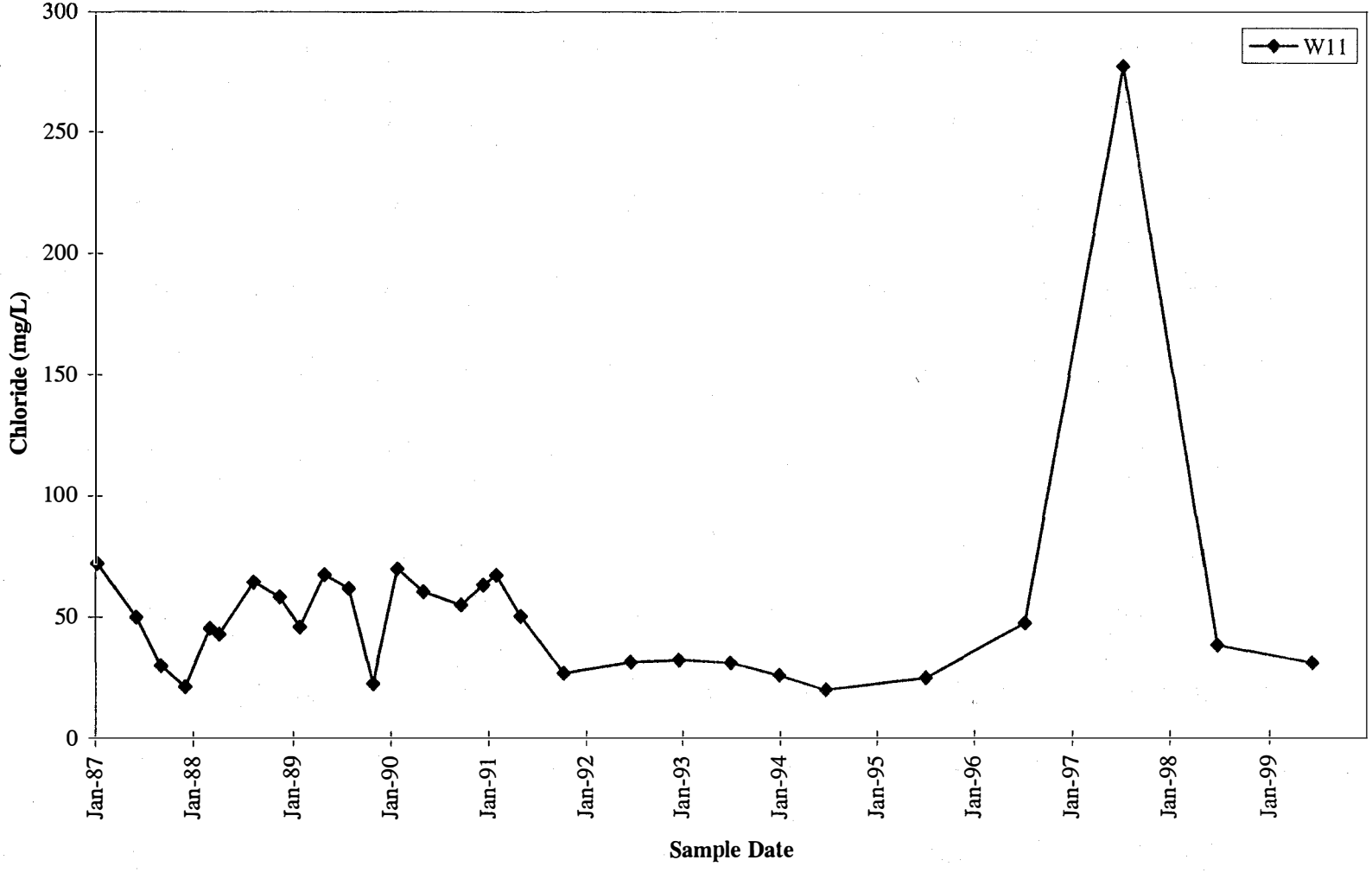
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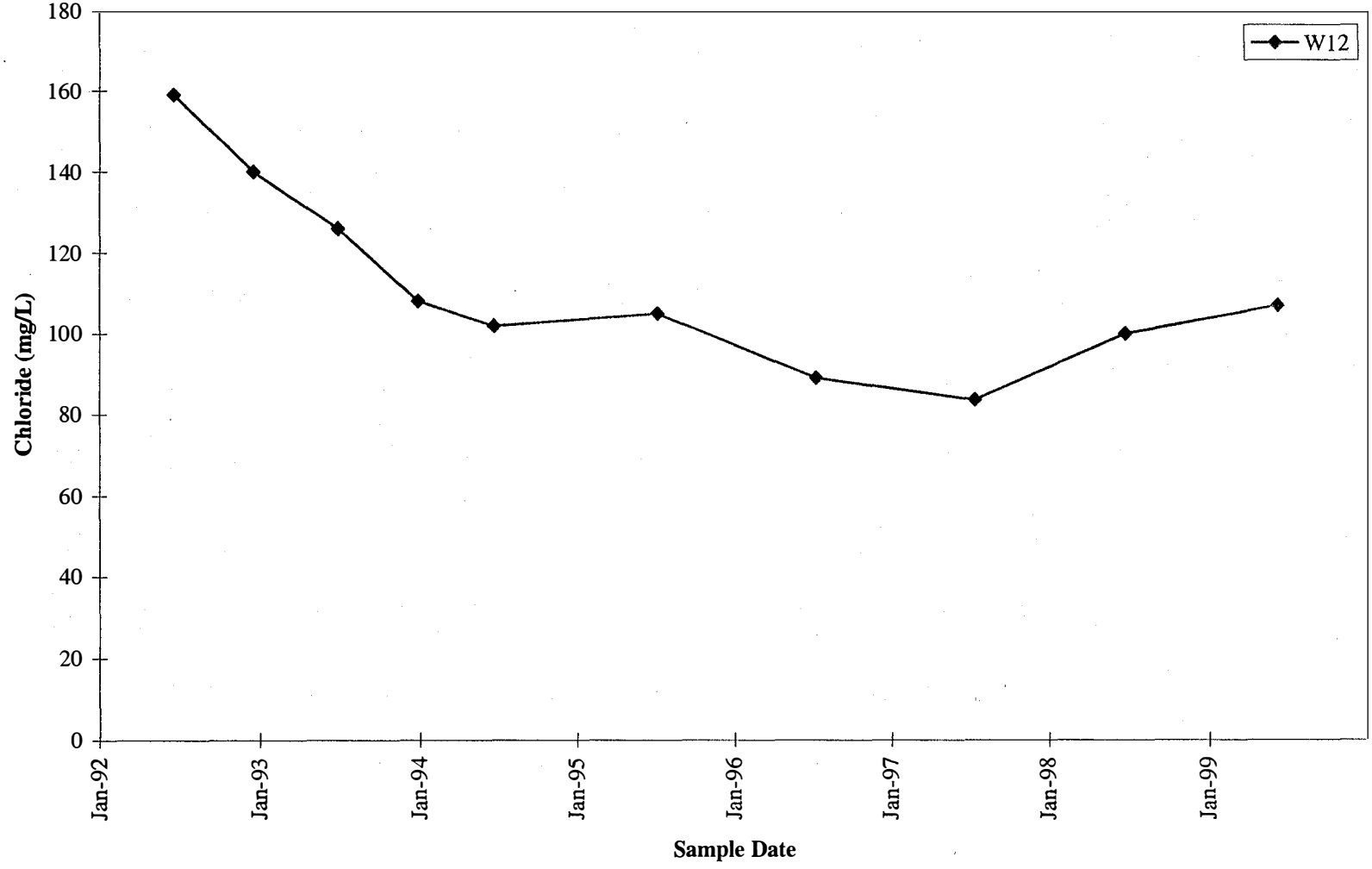
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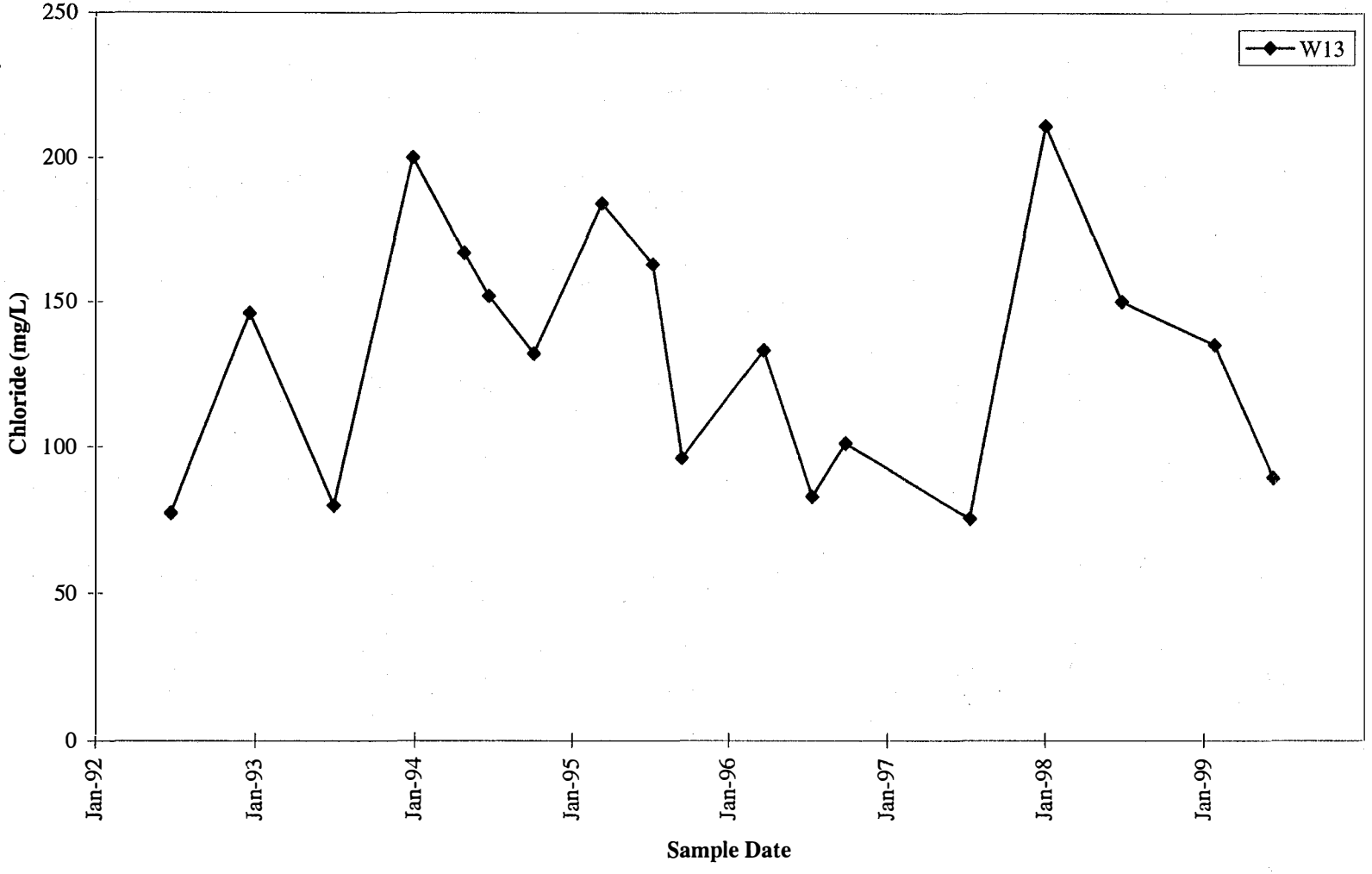
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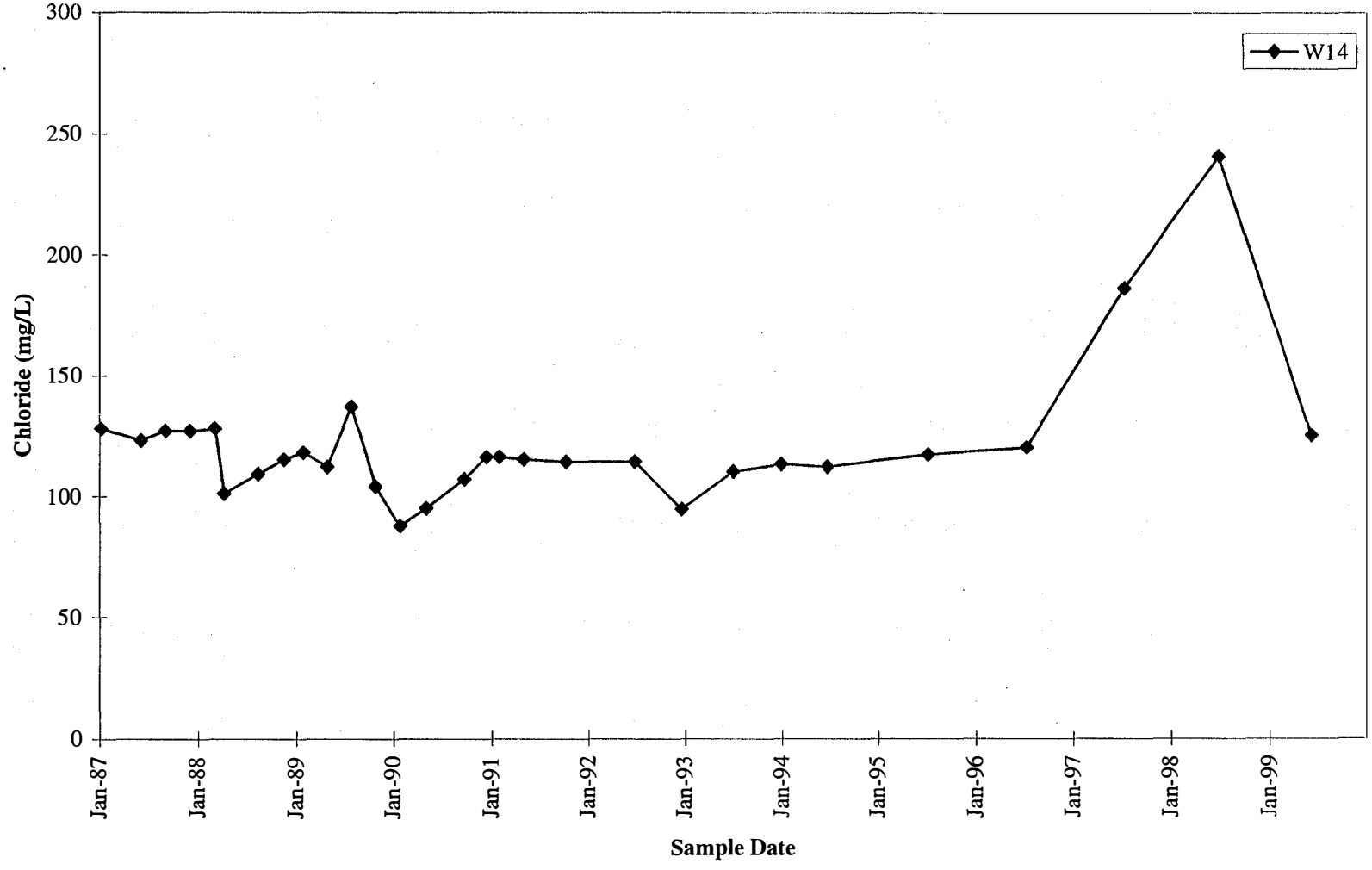
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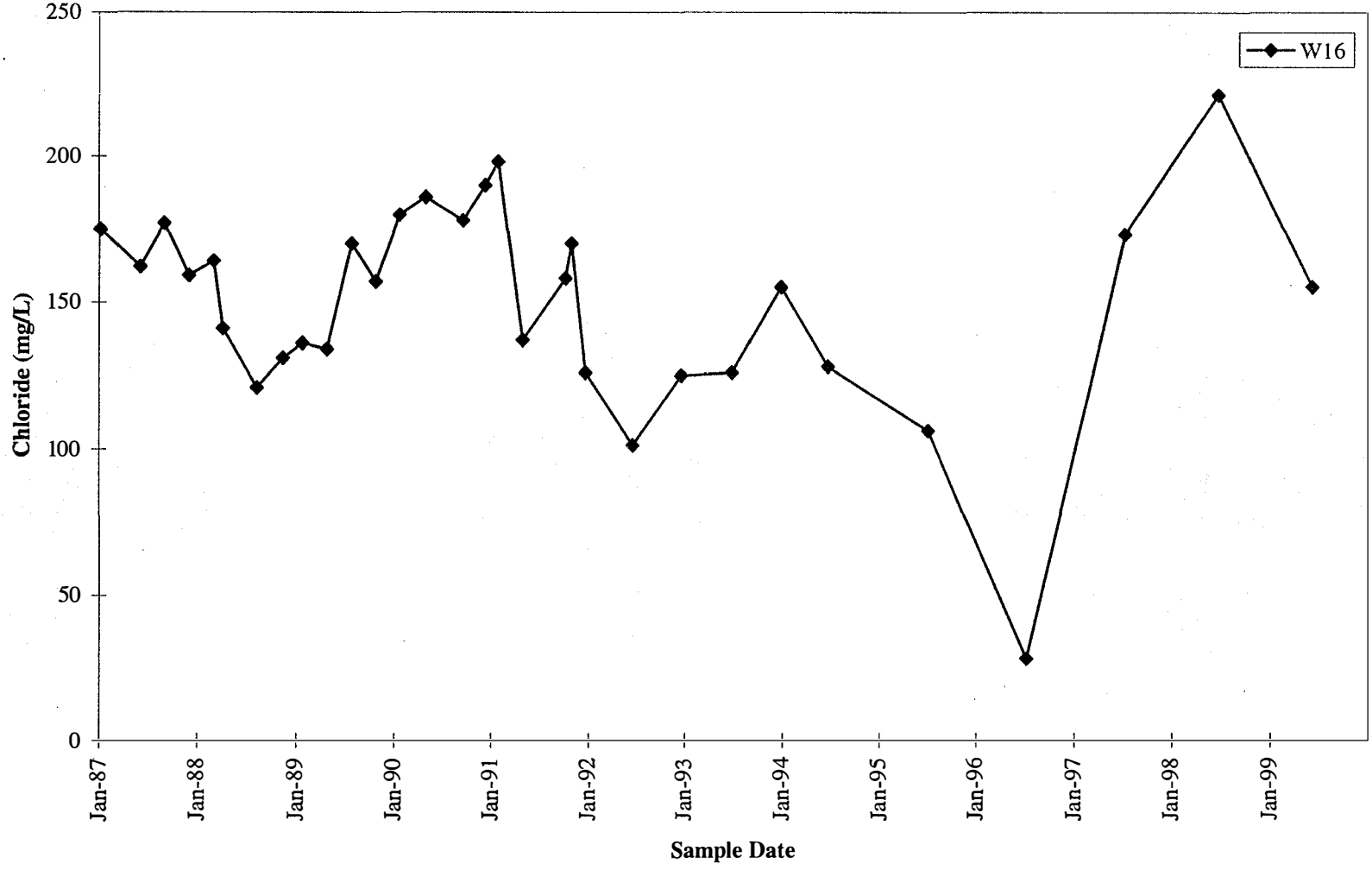
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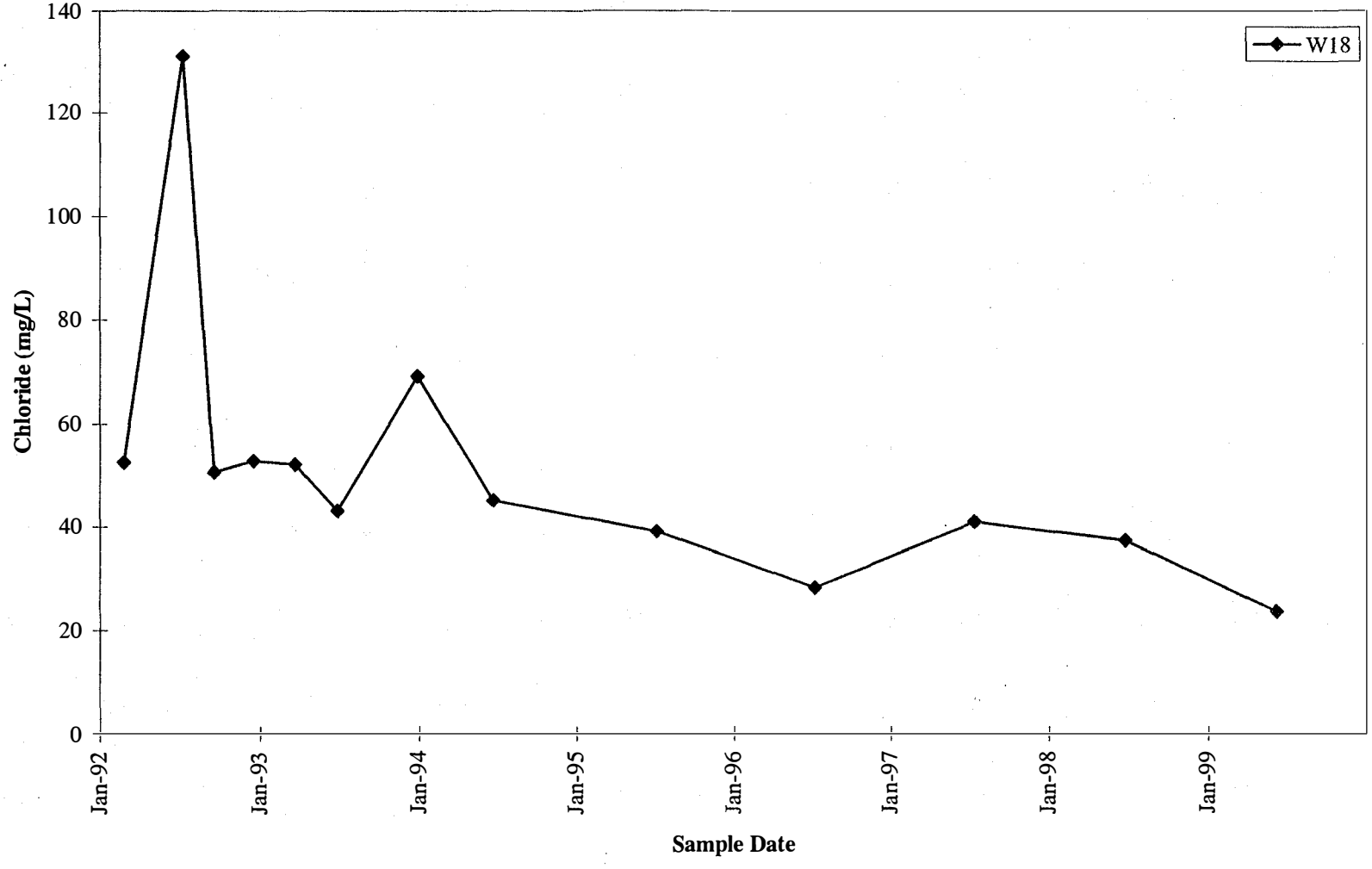
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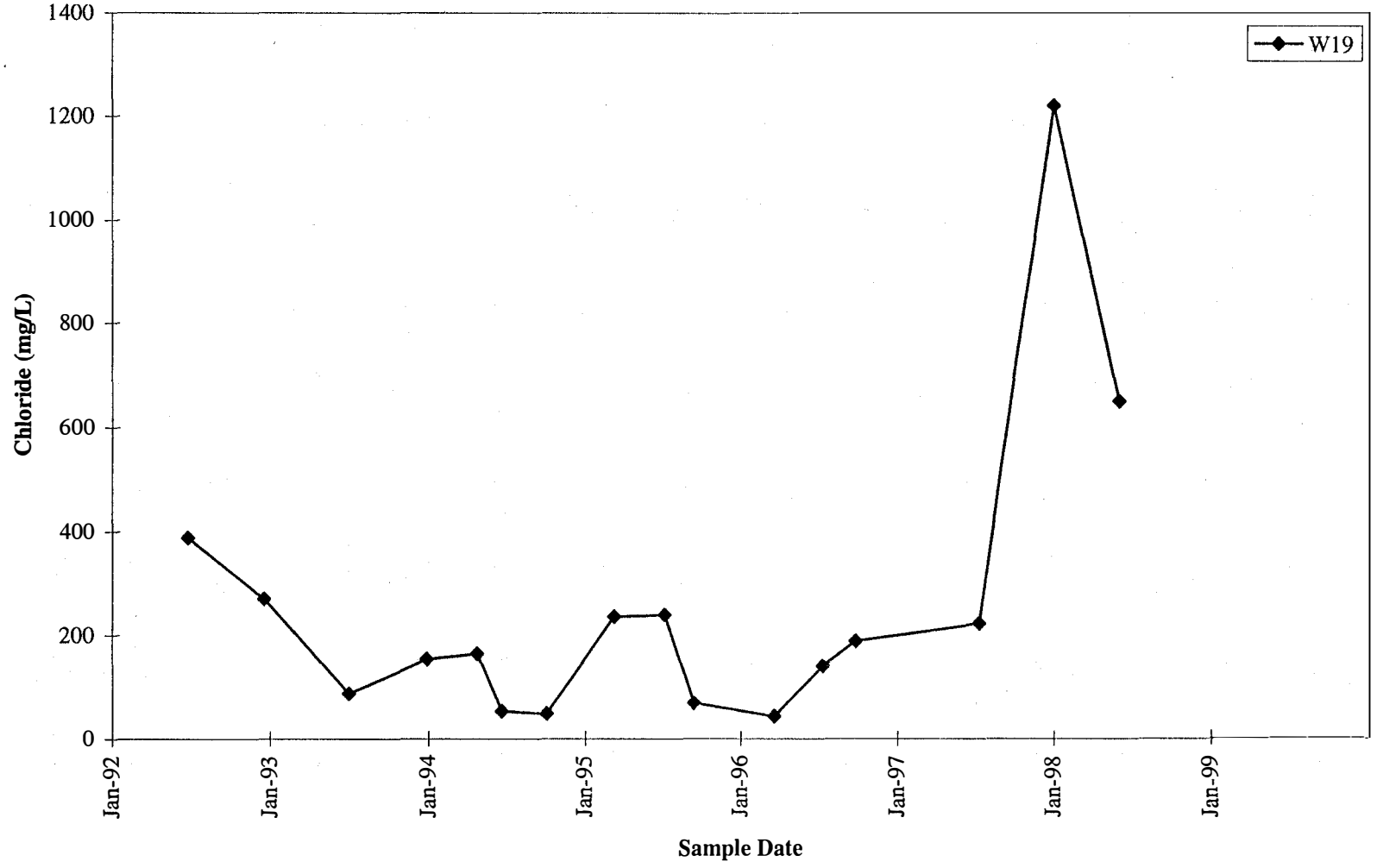
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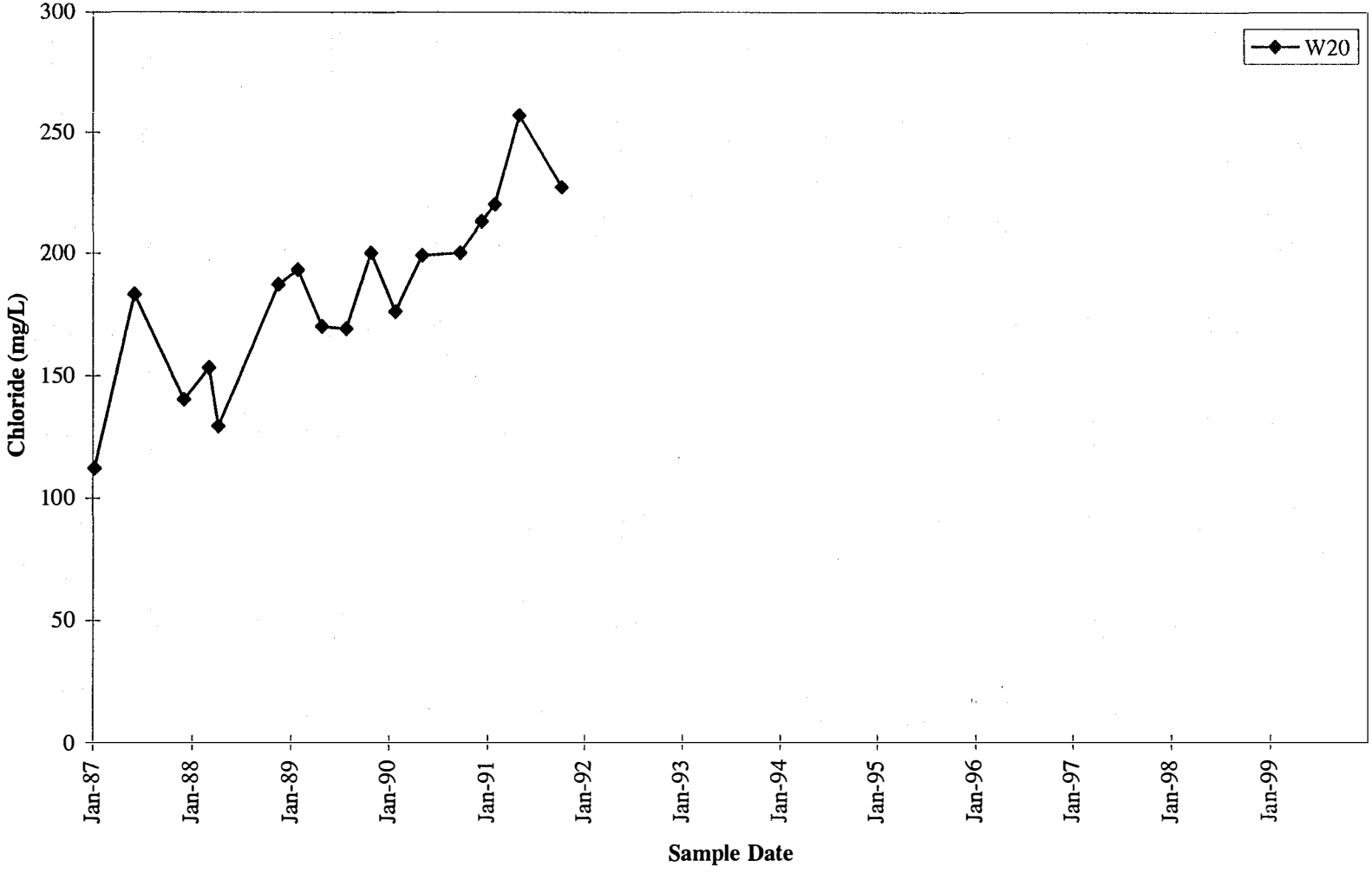
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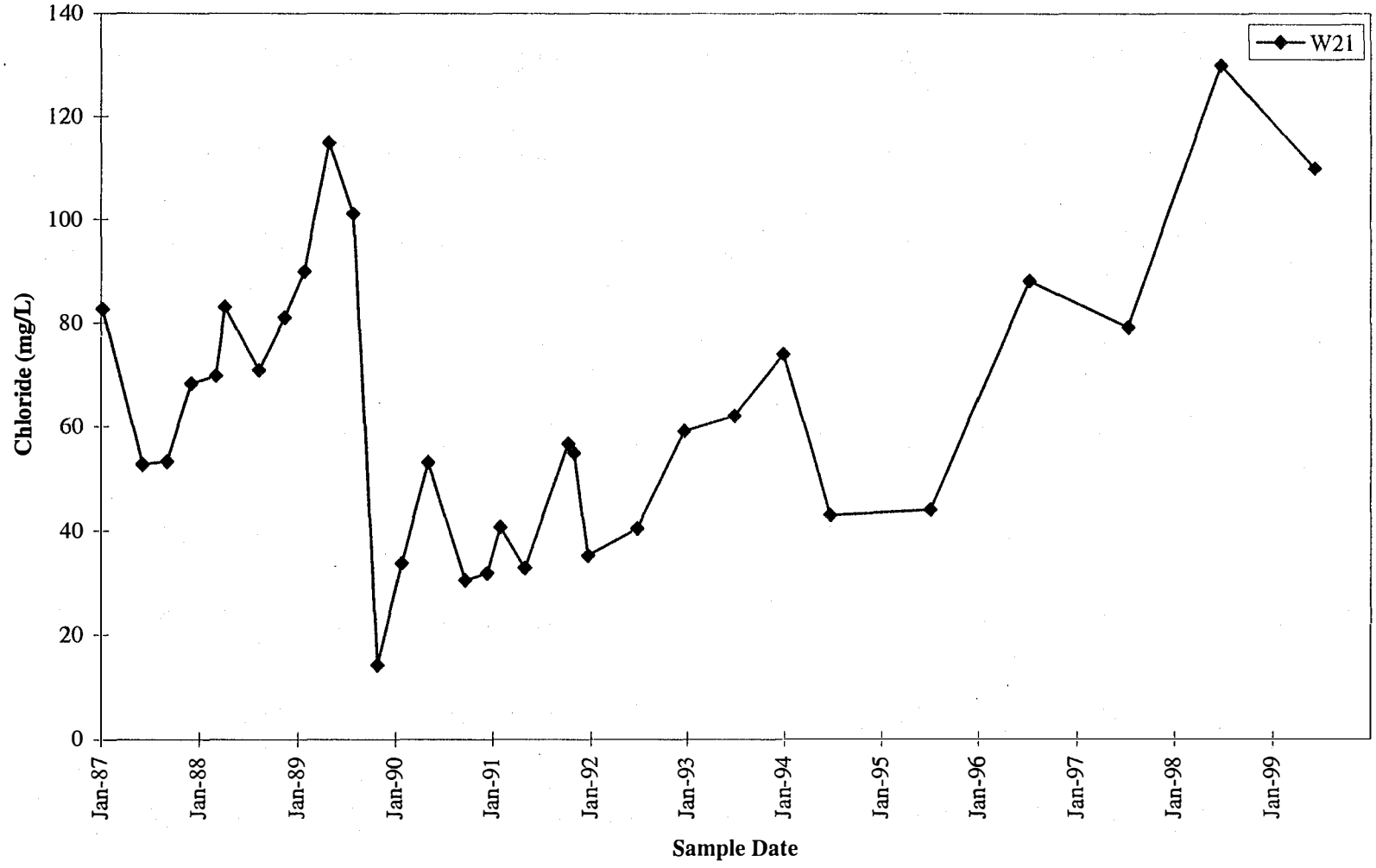
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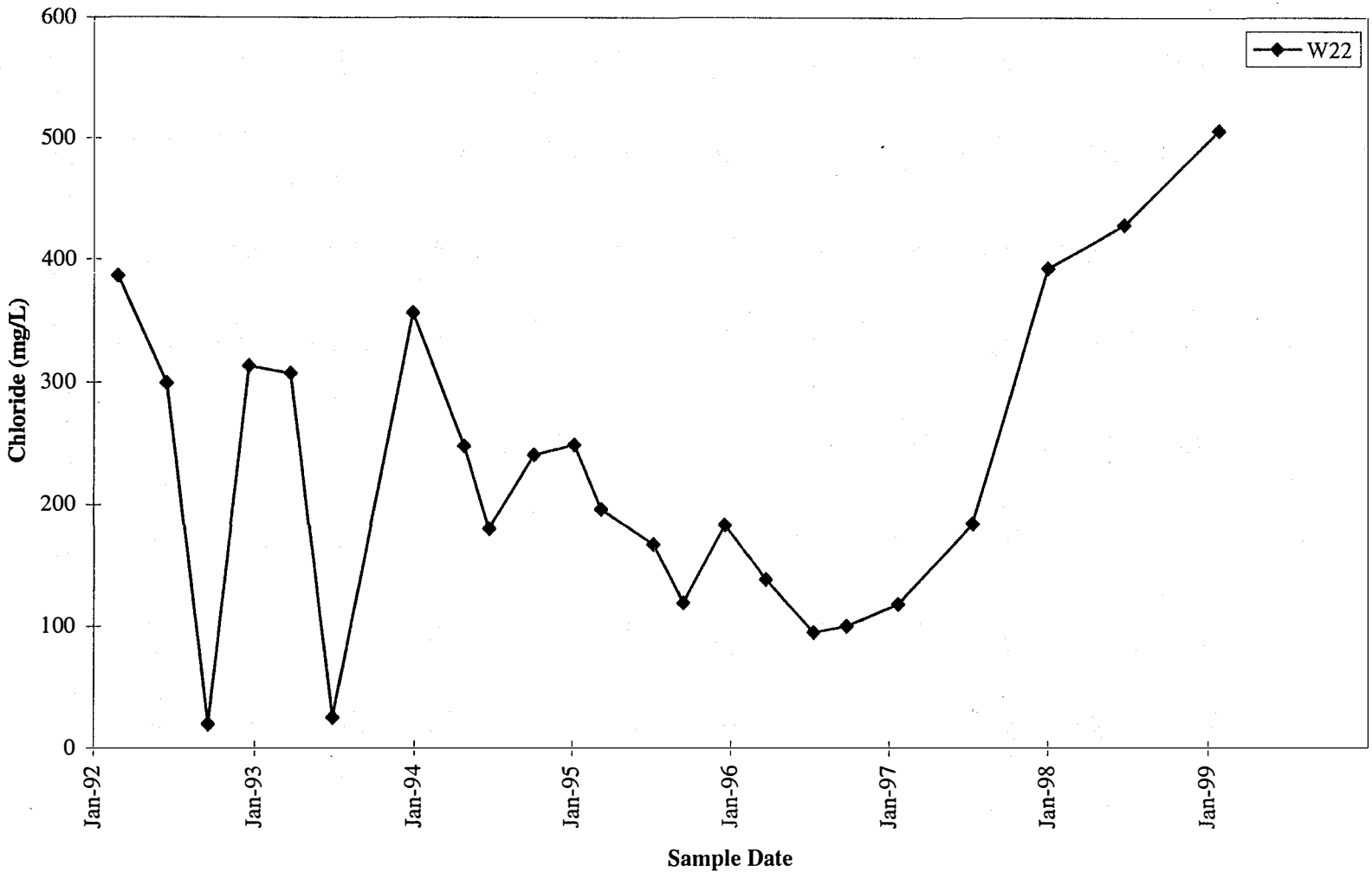
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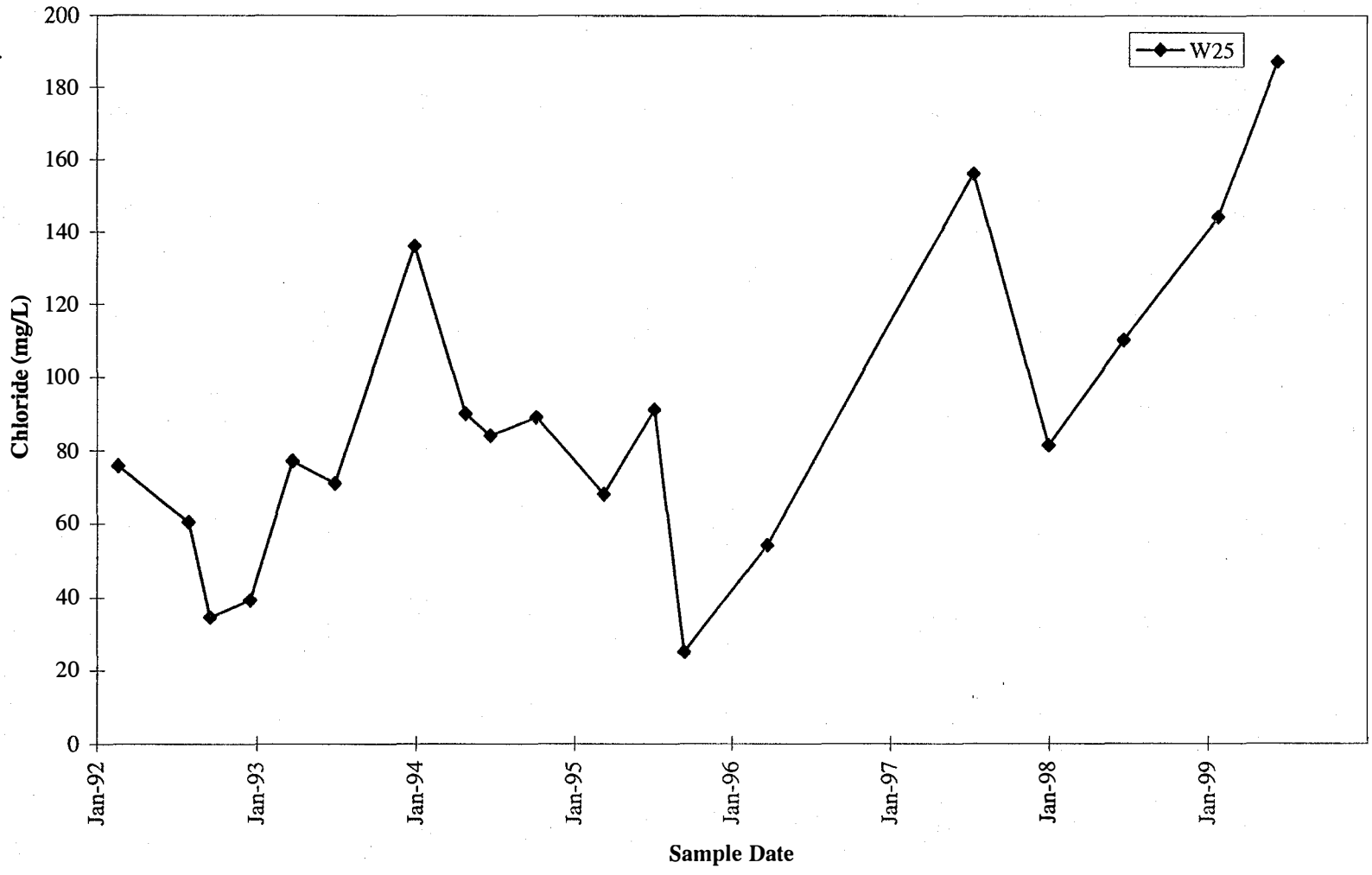
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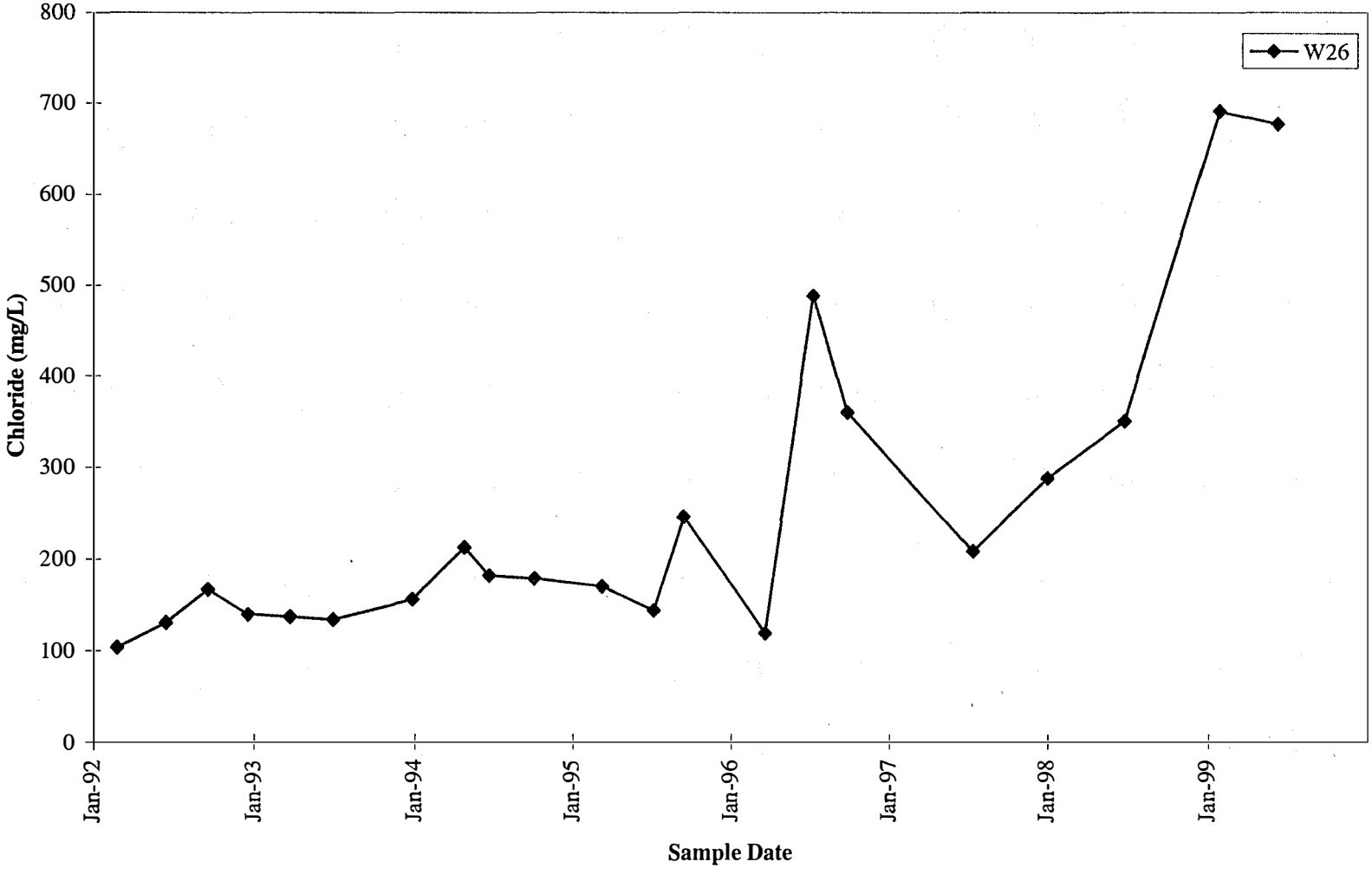
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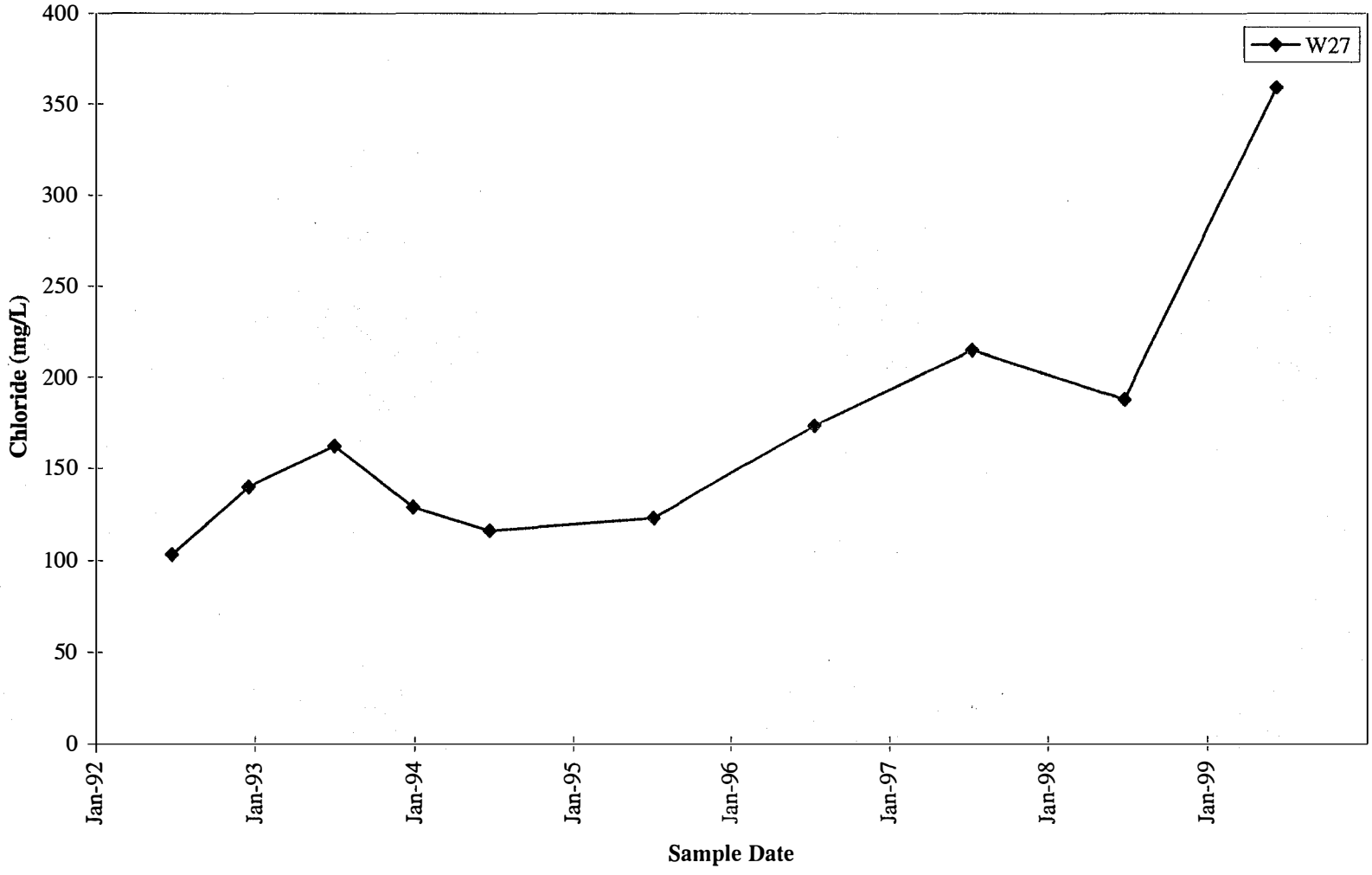
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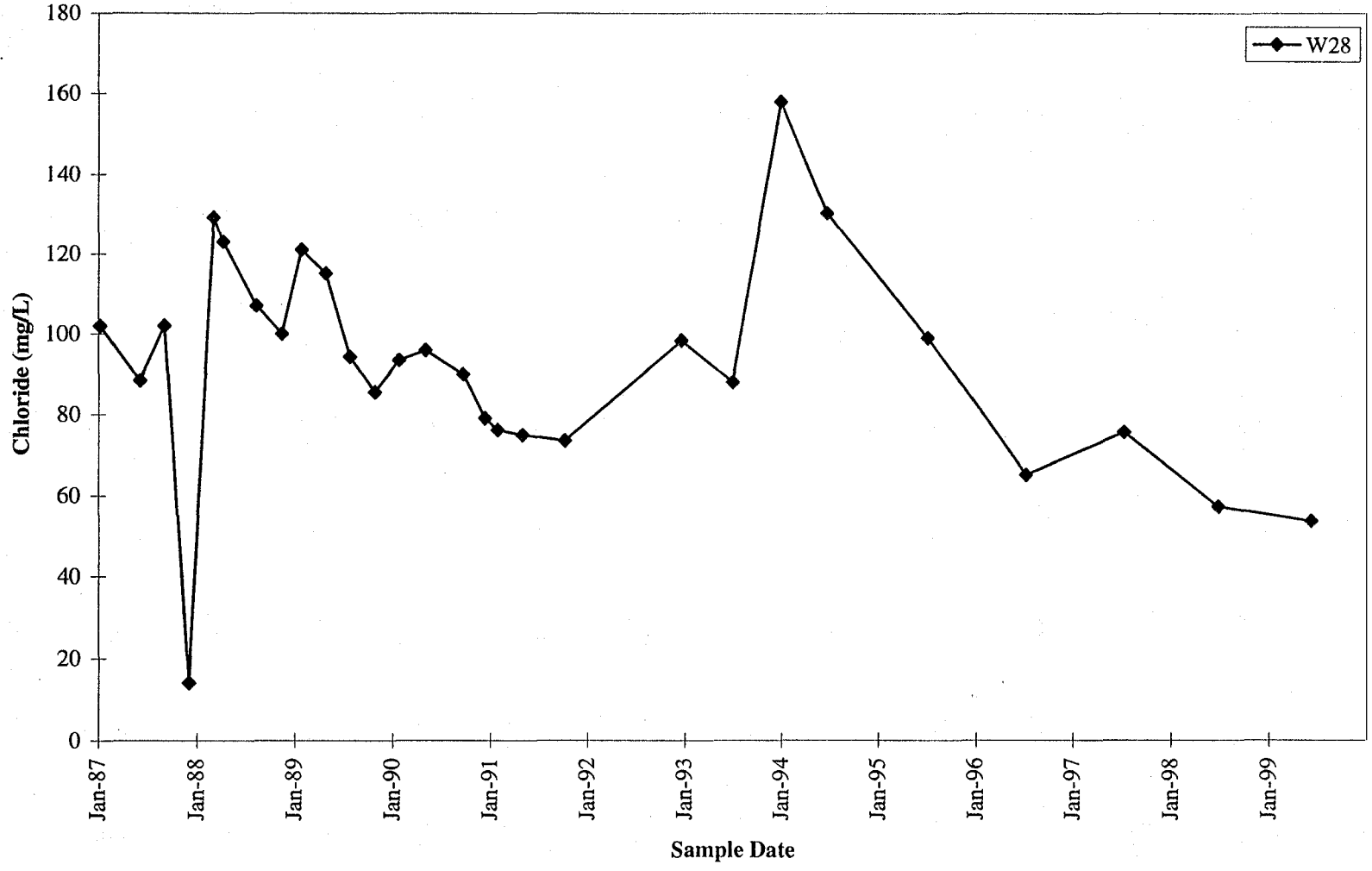
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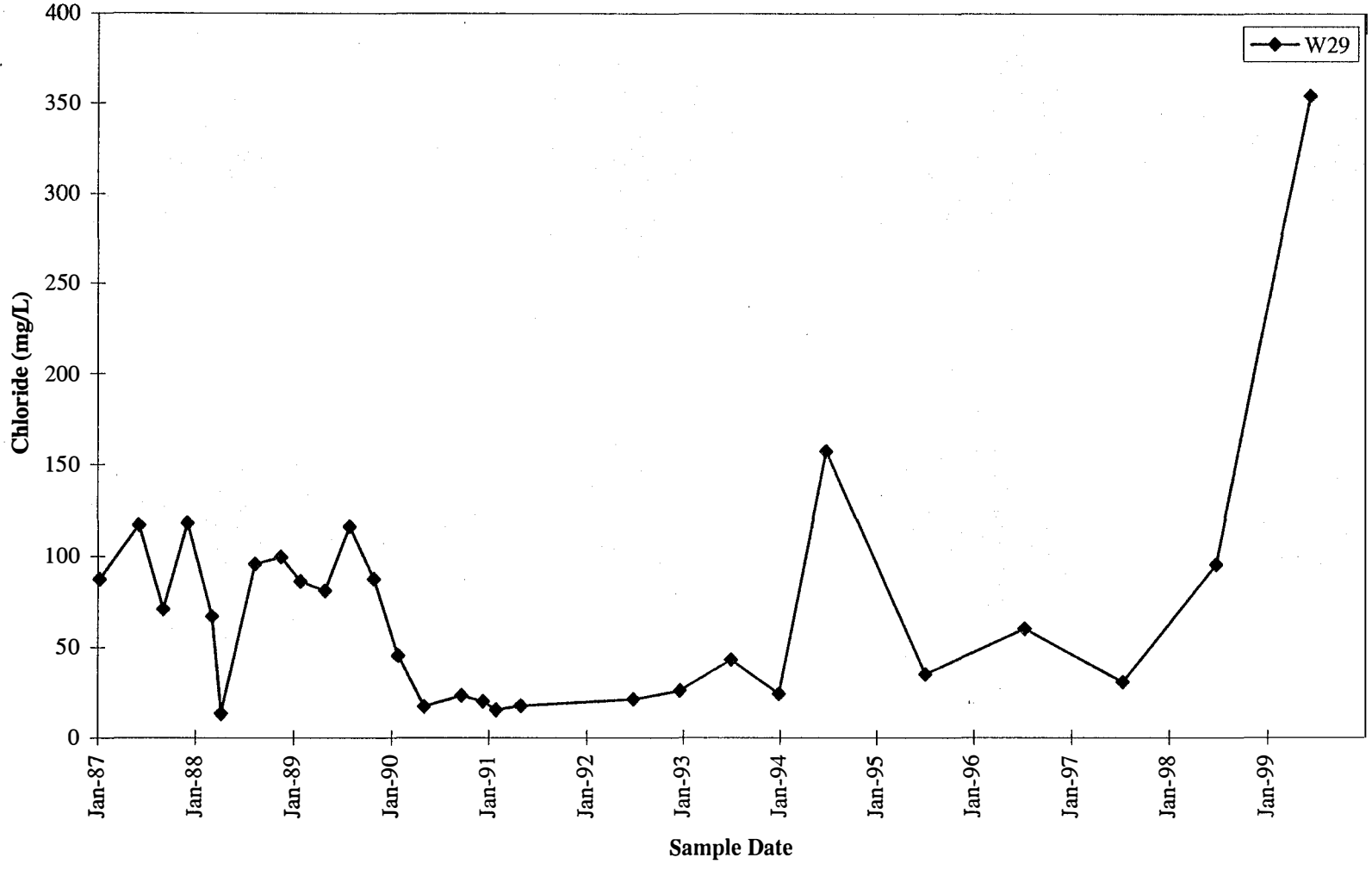
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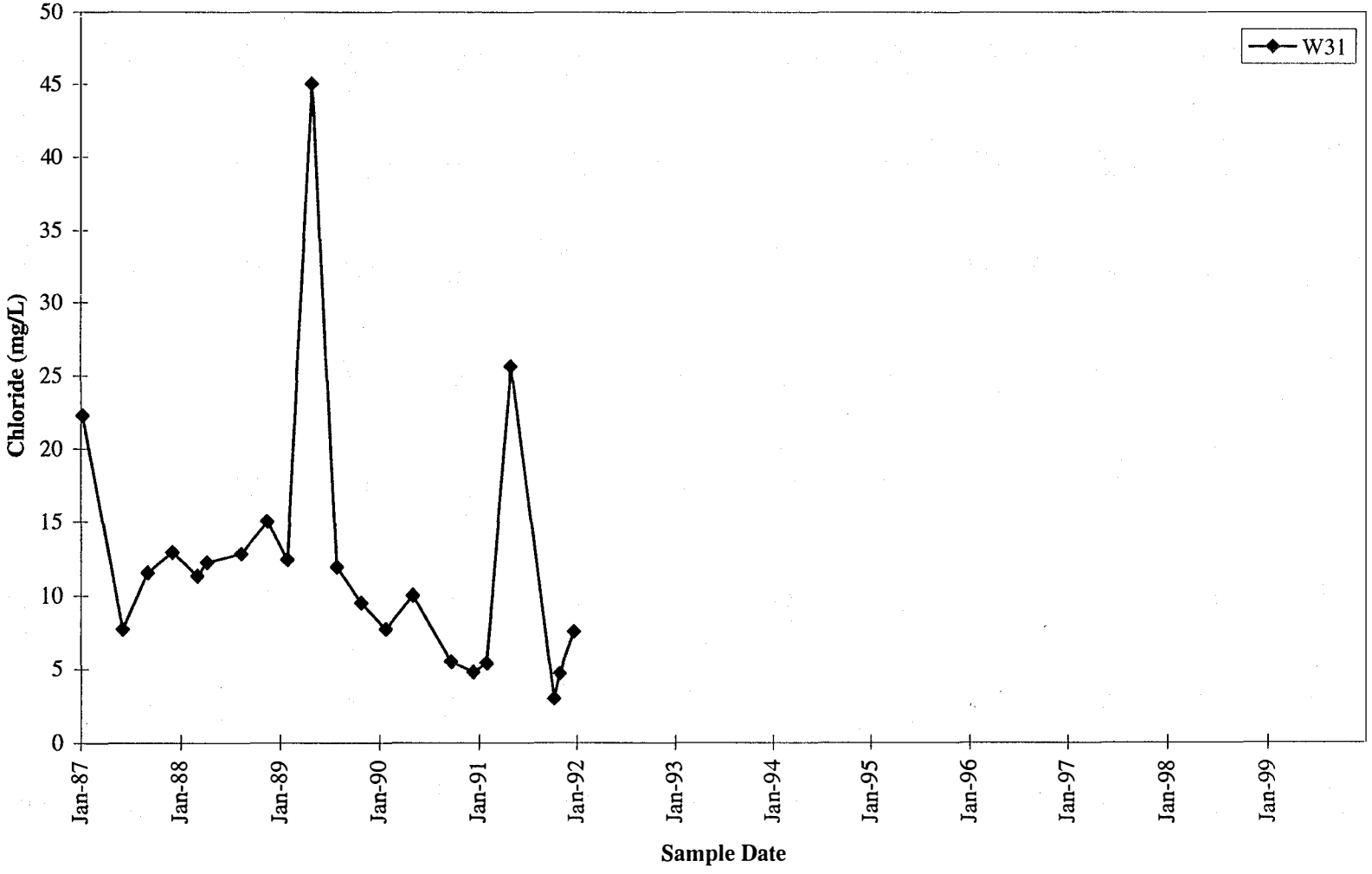
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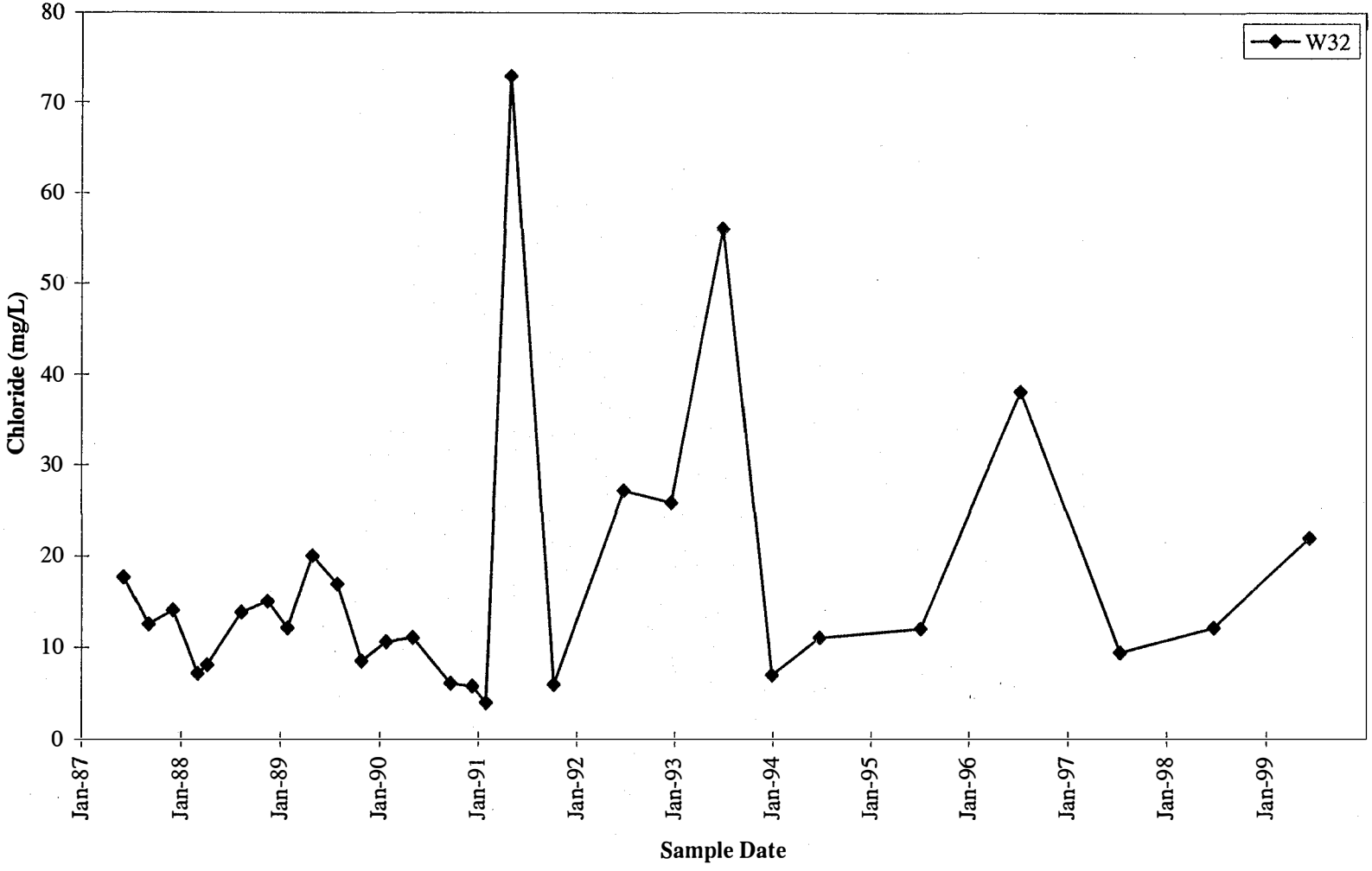
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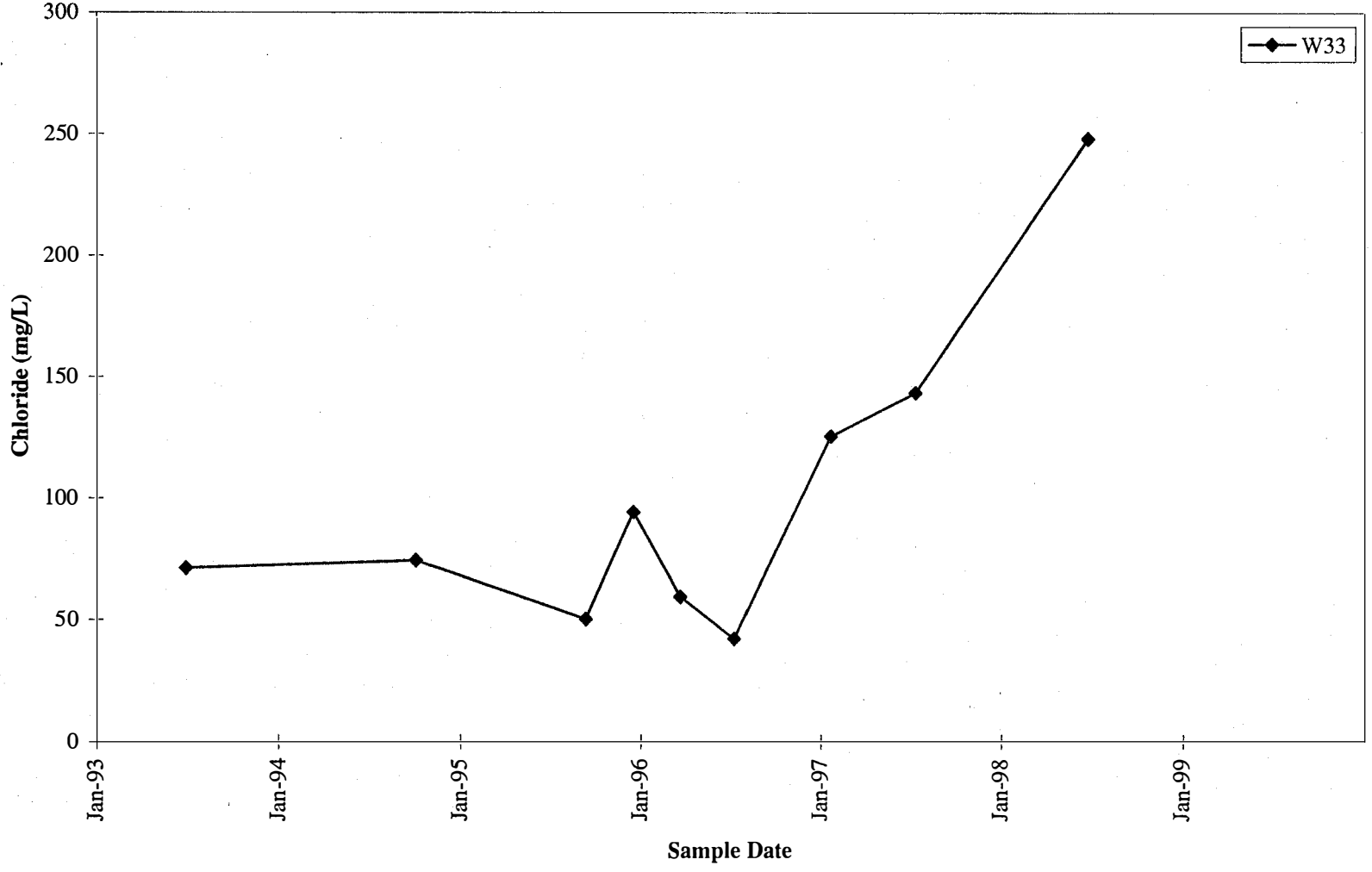
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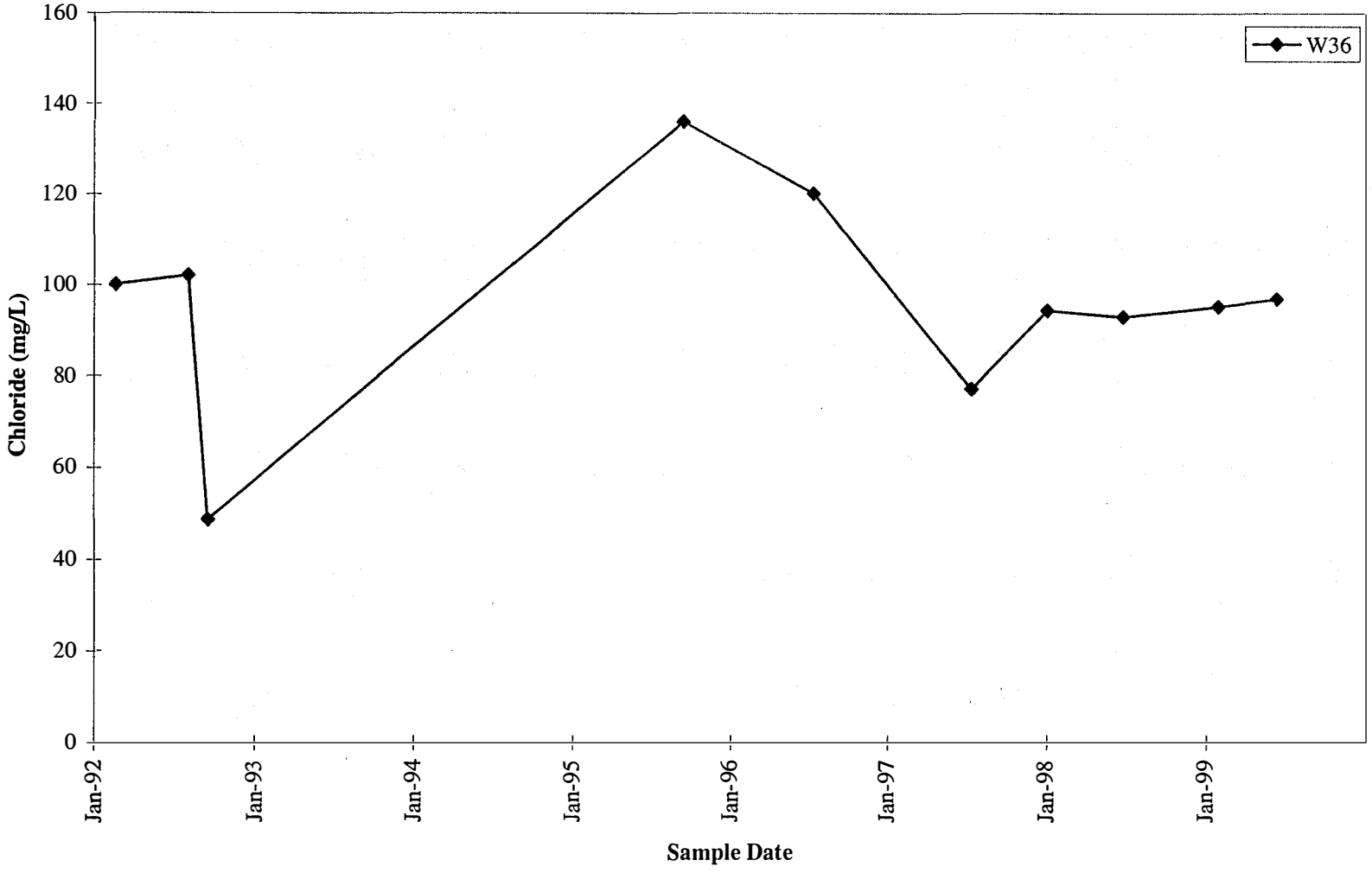
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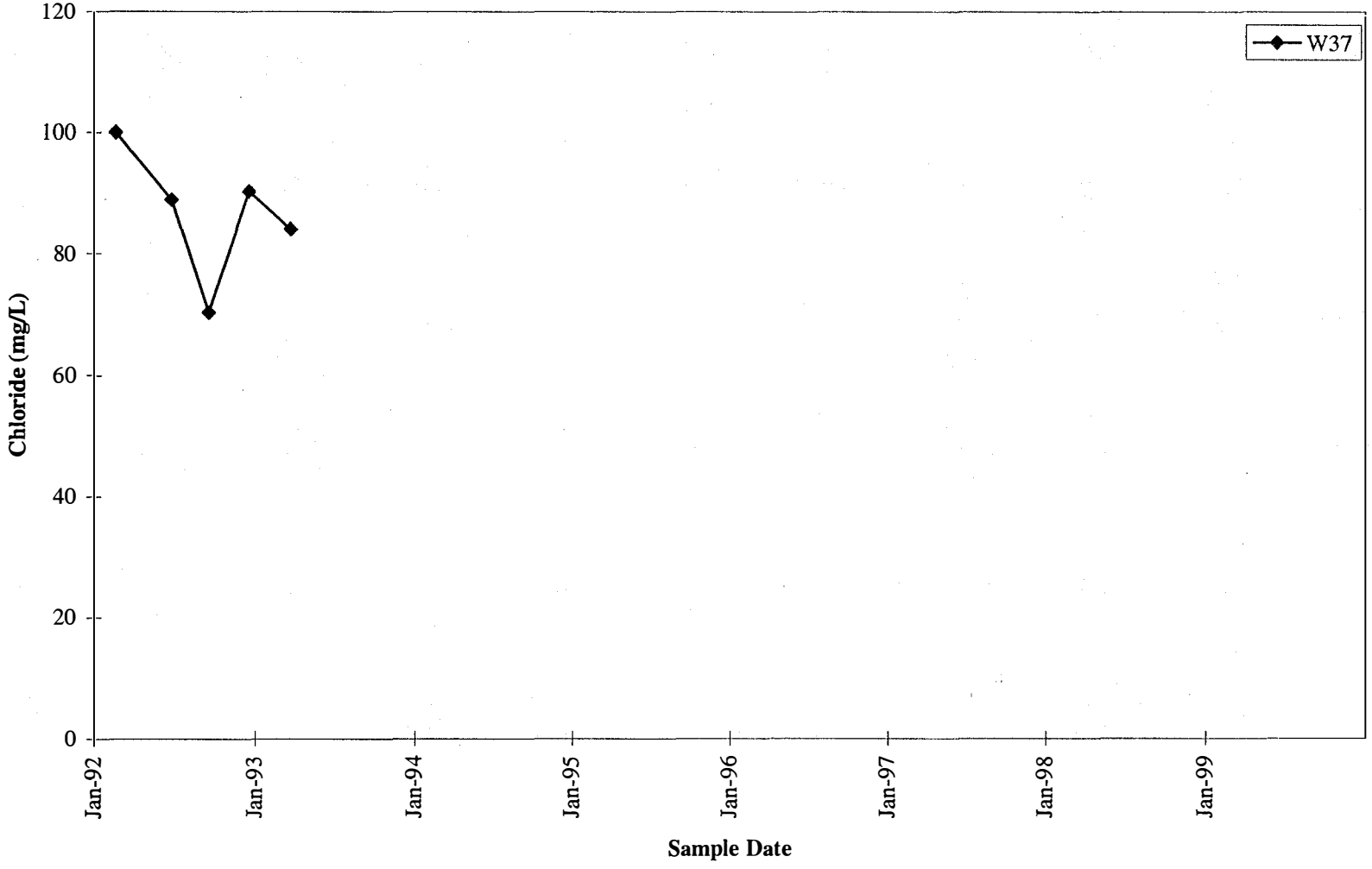
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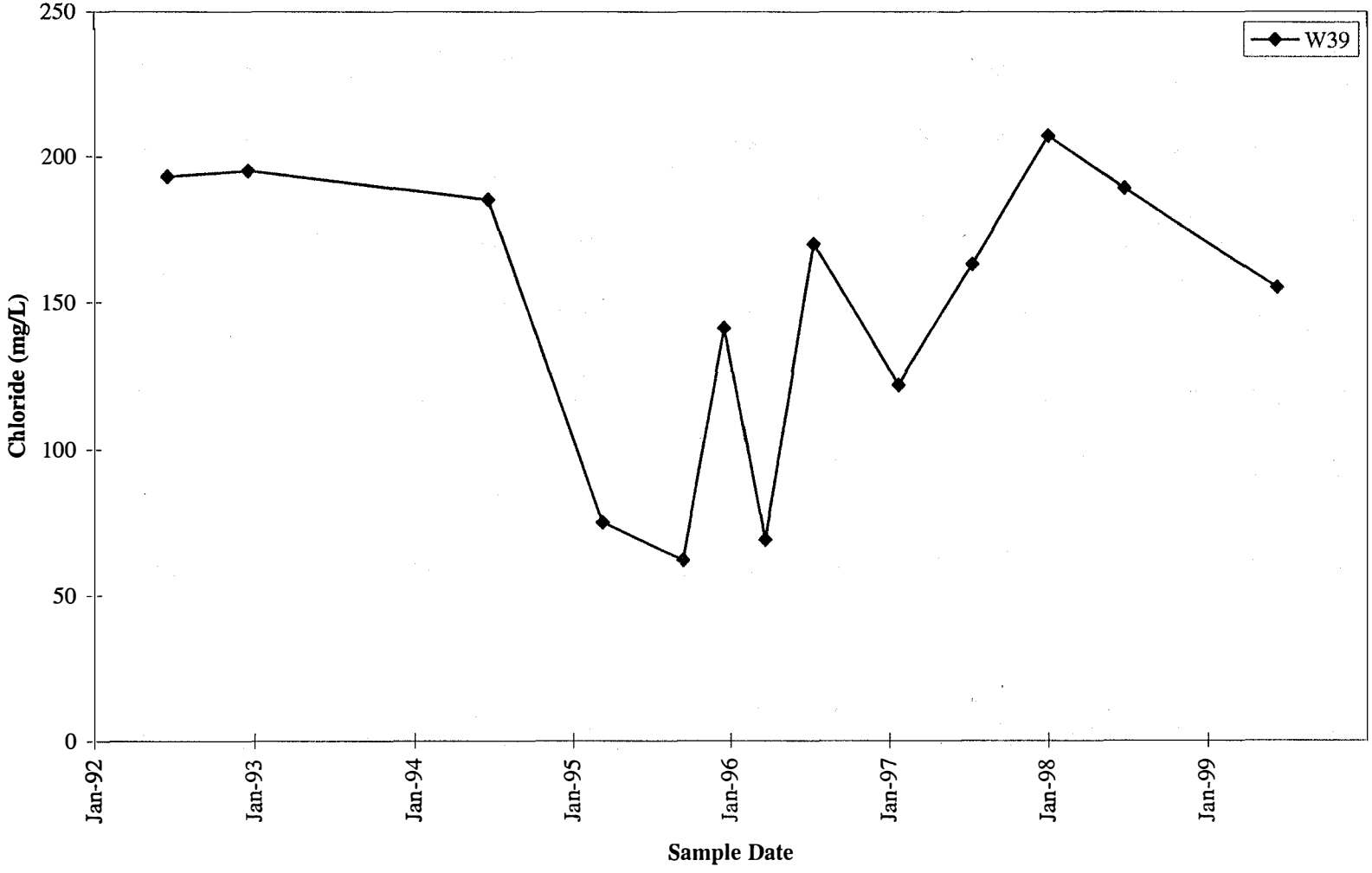
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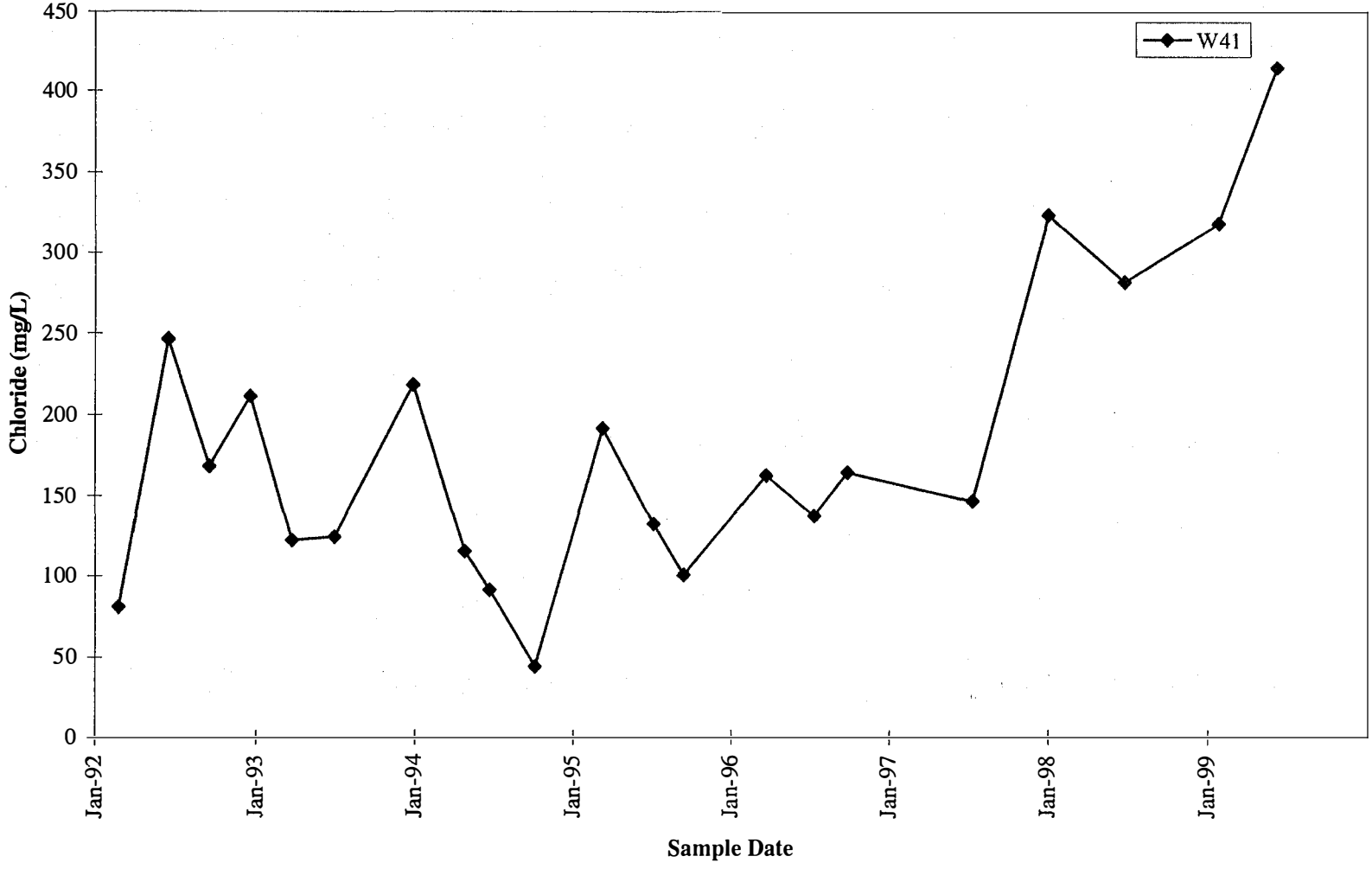
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WAUSAU DNR

March 6, 2000

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: January Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the January Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

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

Sincerely,

MONTGOMERY WATSON

Patrick H. Lytle
Environmental Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek – MW Wauleco (1)

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WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
JANUARY 2000

SUMMARY OF JANUARY 2000 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Table 1 summarizes extraction and treatment system performance data for this reporting period. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 16 ug/L for the month of January, with a maximum single day concentration of 48 ug/L. The laboratory result for PCP in the system effluent was 20 ug/L on January 13, 2000. The on-site result for the same period ranged from 11 to 19 ug/L. Both these results indicate PCP concentrations were well below the permit levels of 150 ug/L (monthly average) and 300 ug/L (daily maximum).

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on January 13 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was 0.2 ug/L.

PCP influent concentrations ranged from 4,680 ug/L to 11,486 ug/L during January (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as a 30-day moving average in Figure 1. As shown in Figure 1, influent PCP concentrations decreased slightly during January, while effluent PCP concentrations increased. The average PCP removal efficiency for the FBR during January was 77% compared to an average of 85% during the previous year.

Daily groundwater flow through the treatment system (Table 2) ranged from 35 to 51 gallons per minute (gpm) during January. The treatment system flowrate averaged 39 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site remained stable during January, following a sharp decrease in November. Product recovery totaled 2,378 gallons in January. Increased product recovery is likely the result of lower water levels attained during recent months, as the extraction and treatment system came completely back on-line and was fine-tuned for optimal product recovery.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis. Extraction wells PW-28 and PW-29 are not included in this figure, as their cumulative product recovery totals are relatively low at this time (see Table 3).

Groundwater Monitoring

Groundwater elevation and product thickness data for November, December, and January are summarized in Table 4.

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TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Biological Oxygen Demand	mg/L	01/13/00	19	16				2	
Chemical Oxygen Demand	mg/L	01/13/00	58	52				20	
Chloride	mg/L	01/13/00	192	196				195	
Dissolved Oxygen	mg/L	01/03/00	6.3	3.2	3.5				
	mg/L	01/11/00	6.8	6.5	3.8				
	mg/L	01/18/00	6.6	4.6	3				
	mg/L	01/24/00	4.6	2.1	2.4				
Nitrogen, Ammonia	mg/L	01/03/00	2	1	1				
	mg/L	01/11/00	2	0.3	0.3				
	mg/L	01/18/00	2	0.2	0.5				
	mg/L	01/24/00	2	0.4	0.4				
Nitrogen, Nitrate	mg/L	01/03/00	<	<	<				
	mg/L	01/11/00	0.1	0.1	0.1				
	mg/L	01/18/00	<	<	<				
	mg/L	01/24/00	<	<	<				
Nitrogen, Nitrate + Nitrite	mg/L	01/13/00	0.456	0.681				<	
Nitrogen, Total Kjeldahl	mg/L	01/13/00	1.93	0.890				0.610	
Pentachlorophenol-Screen	µg/L	01/01/00						7	
	µg/L	01/02/00						7	
	µg/L	01/03/00	9604	1495	1119			7	
	µg/L	01/04/00						3	
	µg/L	01/05/00						11	
	µg/L	01/06/00						15	
	µg/L	01/07/00						1	
	µg/L	01/08/00						4	
	µg/L	01/09/00						4	
	µg/L	01/10/00						4	
	µg/L	01/11/00	10676	1952	5202			9	
	µg/L	01/12/00						4	
	µg/L	01/13/00						11	
	µg/L	01/14/00						19	
	µg/L	01/15/00						21	
	µg/L	01/16/00						21	
	µg/L	01/17/00						21	
	µg/L	01/18/00	4680	2118	548			21	
	µg/L	01/19/00						10	
	µg/L	01/20/00						9	
	µg/L	01/21/00						9	

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Pentachlorophenol-Screen	µg/L	01/22/00						25	
	µg/L	01/23/00						25	
	µg/L	01/24/00	11486	1702	1965			25	
	µg/L	01/25/00						9	
	µg/L	01/26/00						9	
	µg/L	01/27/00						9	
	µg/L	01/28/00						26	
	µg/L	01/29/00						48	
	µg/L	01/30/00						48	
	µg/L	01/31/00						48	
pH	S.U.	01/03/00	6.2	6.3	6.3				
	S.U.	01/11/00	6.3	6.3	6.3				
	S.U.	01/18/00	6.3	6.3	6.3				
	S.U.	01/24/00	6.4	6.4	6.5				
Phosphorus, Ortho	mg/L	01/13/00	0.750	0.600				0.780	
Phosphorus, Phosphate	mg/L	01/03/00	2	2	2				
	mg/L	01/11/00	2	2	2				
	mg/L	01/18/00	2.5	2.5	2.5				
	mg/L	01/24/00	2.5	2.5	2.5				
Solids, Total Suspended	mg/L	01/13/00	5	5		9	6	<	
Mercury	µg/L	01/13/00	1.1	0.81				0.20	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	01/13/00	<	<	<	<	<	<	<
2,4,5-Trichlorophenol	µg/L	01/13/00	<	<	<	<	<	<	<
2,4,6-Trichlorophenol	µg/L	01/13/00	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	01/13/00	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	01/13/00	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	01/13/00	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	01/13/00	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	01/13/00	<	<	<	<	<	<	<
2-Methylphenol	µg/L	01/13/00	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	01/13/00	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	01/13/00	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	01/13/00	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	01/13/00	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	01/13/00	<	<	<	<	<	<	<
Pentachlorophenol	µg/L	01/13/00	9400	2500	2300	2400	920	20	19
Phenol	µg/L	01/13/00	<	<	<	<	<	<	<

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate [1] (gpm)	POTW Discharge Flow Rate [1] (gpm)	POTW Totalized Discharge (gal)
01/01/00	38.63	31.12	20,564,045
01/02/00	38.29	31.12	20,564,045
01/03/00	37.73	31.12	20,473,950
01/04/00	38.81	31.12	20,518,762
01/05/00	38.81	31.50	20,564,126
01/06/00	38.84	29.97	20,607,280
01/07/00	38.79	32.27	20,653,749
01/08/00	38.92	32.16	20,700,053
01/09/00	38.60	32.05	20,746,209
01/10/00	37.43	31.21	20,791,149
01/11/00	38.17	31.59	20,836,644
01/12/00	38.07	31.56	20,882,090
01/13/00	37.01	29.54	20,924,628
01/14/00	36.82	31.75	20,970,354
01/15/00	37.46	30.91	21,014,863
01/16/00	37.32	30.57	21,058,877
01/17/00	37.91	31.16	21,103,747
01/18/00	37.54	30.76	21,148,044
01/19/00	37.43	30.74	21,192,304
01/20/00	37.17	30.46	21,236,171
01/21/00	36.48	29.94	21,279,283
01/22/00	36.43	30.14	21,322,688
01/23/00	36.42	30.19	21,366,160
01/24/00	36.34	29.98	21,409,328
01/25/00	35.96	29.84	21,452,298
01/26/00	35.47	29.68	21,495,038
01/27/00	35.40	29.14	21,537,001
01/28/00	48.15	41.82	21,597,216
01/29/00	51.41	46.20	21,663,740
01/30/00	51.04	44.98	21,728,517
01/31/00	50.87	44.89	21,793,162
Average	39.15	32.56	
Total [2]:			1,229,122

Footnotes:

(1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.

(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
01/01/00	0	0	0	0	0	13.8	0	1.7	0	0	0	10.3	0	1.7	0	0	0	0	12	12	0	0	0	51.5
01/02/00	0	0	0	0	0	10.3	0	1.7	0	0	0	10.3	0	0	0	0	0	0	13.8	13.8	1.7	0	1.7	53.3
01/03/00	0	0	0	0	0	12	0	1.7	0	0	0	10.3	0	1.7	0	0	0	0	13.8	13.8	0	0	0	53.3
01/04/00	0	0	0	0	0	12	0	1.7	0	0	1.7	10.3	0	1.7	0	0	0	0	17.2	13.8	1.7	0	1.7	61.8
01/05/00	1.7	0	0	0	0	13.8	0	1.7	0	0	0	13.8	1.7	1.7	0	0	0	3.4	17.2	12	1.7	0	1.7	70.4
01/06/00	0	0	0	0	0	13.8	0	3.4	0	0	1.7	12	1.7	3.4	0	0	0	3.4	17.2	13.8	1.7	0	1.7	73.8
01/07/00	0	0	0	0	0	13.8	0	3.4	0	0	0	13.8	0	3.4	0	0	0	1.7	17.2	12	1.7	0	3.4	70.4
01/08/00	1.7	0	0	0	0	12	0	3.4	0	0	0	12	1.7	3.4	0	0	0	3.4	17.2	13.8	1.7	0	3.4	73.7
01/09/00	0	0	0	0	0	13.8	0	1.7	0	0	1.7	13.8	0	3.4	0	0	0	3.4	17.2	12	1.7	0	3.4	72.1
01/10/00	0	0	0	0	0	12	0	3.4	0	0	0	12	1.7	3.4	0	0	0	1.7	17.2	13.8	3.4	0	1.7	70.3
01/11/00	0	0	0	0	0	13.8	0	1.7	0	0	1.7	13.8	0	3.4	0	0	0	1.7	17.2	6.9	3.4	0	3.4	67
01/12/00	0	0	0	0	0	12	0	1.7	0	0	1.7	12	0	1.7	0	0	0	0	17.2	5.2	3.4	0	0	54.9
01/13/00	0	0	0	0	0	13.8	0	1.7	0	0	1.7	8.6	0	1.7	0	0	0	0	10.3	6.9	3.4	0	1.7	49.8
01/14/00	0	0	0	0	0	12	0	1.7	0	0	1.7	12	0	1.7	0	0	0	0	10.3	6.9	3.4	0	0	49.7
01/15/00	0	0	0	0	0	17.2	0	5.2	0	0	3.4	13.8	3.4	0	0	0	0	1.7	6.9	12	1.7	0	0	65.3
01/16/00	0	0	0	0	0	17.2	0	5.2	0	0	3.4	17.2	1.7	0	0	0	0	1.7	8.6	13.8	1.7	0	0	70.5
01/17/00	0	0	0	0	0	17.2	0	5.2	0	0	3.4	12	1.7	1.7	0	0	0	3.4	6.9	12	1.7	0	0	65.2
01/18/00	0	0	0	0	0	17.2	0	5.2	0	0	3.4	12	3.4	1.7	0	0	0	1.7	8.6	13.8	1.7	0	1.7	70.4
01/19/00	0	0	0	0	0	17.2	0	1.7	0	0	1.7	8.6	0	0	0	0	0	0	17.2	20.6	1.7	0	0	68.7
01/20/00	0	0	0	0	0	17.2	0	1.7	0	0	1.7	8.6	0	0	0	0	0	0	17.2	17.2	1.7	0	1.7	67
01/21/00	0	0	0	0	0	25.5	0	3.4	0	0	1.7	10.3	0	0	0	0	0	1.7	17.2	8.6	3.4	0	0	71.8
01/22/00	0	0	0	0	0	25.8	0	1.7	0	0	0	17.2	0	3.4	0	0	0	5.2	17.2	12	0	0	0	82.5
01/23/00	0	0	0	0	0	25.5	0	3.4	0	0	0	17.2	0	5.2	0	0	0	5.2	17.2	12	1.7	0	1.7	89.1
01/24/00	0	0	0	0	0	25.8	0	3.4	0	0	0	17.2	0	6.9	0	0	0	5.2	17.2	10.3	0	0	0	86
01/25/00	1.7	0	0	0	0	17.2	0	5.2	0	0	1.7	25.5	0	10.3	0	0	0	3.4	17.2	3.4	0	0	0	85.6
01/26/00	0	0	0	0	0	17.2	0	6.9	0	0	1.7	25.8	0	10.3	0	0	0	3.4	17.2	3.4	0	0	0	85.9
01/27/00	0	0	0	0	0	17.2	0	15.5	0	0	3.4	25.5	0	10.3	0	0	0	3.4	17.2	1.7	1.7	0	0	95.9
01/28/00	0	0	0	0	0	51.6	0	13.8	0	0	1.7	25.8	0	10.3	0	0	0	3.4	25.5	10.3	3.4	0	1.7	147.5
01/29/00	0	0	0	0	0	51.6	0	10.3	0	0	1.7	25.5	0	3.4	0	0	0	0	25.8	10.3	3.4	0	0	132
01/30/00	0	0	0	0	0	25.5	0	12	0	0	1.7	25.8	0	3.4	0	0	0	1.7	25.5	10.3	3.4	0	0	109.3
01/31/00	0	0	0	0	0	25.8	0	13.8	0	0	3.4	25.5	0	3.4	0	0	0	1.7	25.8	10.3	3.4	0	0	113.1
Well Total	5.1	0	0	0	0	590.8	0	144.2	0	0	45.9	478.5	17	102.6	0	0	0	61.5	503.4	338.7	59.5	0	30.6	2377.8

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	November 15 1999		December 13 1999		January 10 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	0.09	1160.66	0.07	1161.50	0.05	1161.34
PW02	-----	1161.73	-----	1161.52	-----	1161.38
PW03	-----	1161.93	-----	1161.65	-----	1161.48
PW3S	-----	-----	-----	-----	0.34	1158.87
PW04	0.52	1154.95	0.81	1154.65	0.24	1154.06
PW05	-----	1147.26	-----	1147.20	0.49	1152.70
PW06	-----	-----	-----	-----	0.47	1160.50
PW07	0.06	1156.86	-----	1156.64	-----	1157.02
PW08	-----	-----	-----	-----	0.36	1159.59
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1163.91	-----	1162.30	-----	1161.62
PW10	-----	1158.37	0.86	1157.21	0.64	1156.87
PW11	0.01	1158.50	0.86	1155.72	0.52	1155.85
PW12	-----	1161.88	-----	1161.64	-----	1161.49
PW13	0.39	1157.57	0.24	1158.26	0.87	1157.44
PW14	-----	-----	-----	-----	0.12	1159.99
PW15	0.12	1160.17	0.15	1159.83	0.05	1159.93
PW16	0.06	1158.80	0.25	1158.63	0.24	1158.43
PW17	0.24	1157.65	0.58	1158.22	1.04	1155.94
PW18	0.08	1159.37	0.78	1158.98	0.93	1158.83
PW19	0.08	1159.89	0.69	1159.44	0.76	1159.31
PW20	0.59	1159.12	1.37	1158.42	0.62	1159.23
PW21	0.05	1159.66	0.48	1159.54	0.09	1159.81
PW22	-----	1156.89	0.34	1157.60	-----	1160.40
PW23	0.36	1158.65	0.32	1158.44	0.35	1158.78
PW24	0.46	1158.82	0.45	1158.70	0.52	1158.65
PW25	0.68	1158.31	2.21	1156.70	0.53	1158.06
PW26	0.41	1158.27	1.89	1156.77	0.31	1158.00
PW27	0.37	1158.21	0.35	1157.89	0.31	1158.53
PW28	-----	-----	0.04	-----	0.12	-----
PW29	0.02	-----	0.36	-----	0.35	-----
P01	0.42	1159.80	0.40	1159.83	0.40	1159.79
OW01	-----	-----	-----	-----	-----	1161.84
W01A	-----	-----	-----	-----	-----	1161.98
W01B	-----	-----	-----	-----	-----	1161.98
W02	-----	-----	0.12	1161.31	0.03	1161.35
W03A	0.43	1159.97	0.39	1159.56	0.42	1159.53
W03B	-----	1160.91	-----	1160.74	-----	1160.78
W04A	0.27	1160.93	0.29	1160.74	0.39	1160.56
W04B	-----	-----	-----	-----	0.17	1160.73
W05	0.62	1159.54	0.52	1159.71	0.57	1159.62
W06R	0.36	1161.95	0.22	1161.81	0.32	1161.55
W07	-----	-----	-----	-----	-----	Frozen
W08	-----	-----	-----	-----	-----	1169.85
W09	-----	-----	-----	-----	-----	1161.30
W10A	-----	-----	-----	-----	-----	1160.66
W10B	-----	-----	-----	-----	-----	1160.68
W11	-----	-----	-----	-----	-----	1160.63

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	November 15 1999		December 13 1999		January 10 2000	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	-----	-----	-----	-----	1160.32
W13	-----	-----	-----	-----	-----	1160.76
W14	-----	-----	-----	-----	-----	1159.37
W16	-----	-----	-----	-----	-----	1160.95
W17	-----	-----	-----	-----	0.39	1159.71
W18	-----	-----	-----	-----	-----	1160.66
W19	-----	-----	-----	-----	0.03	1161.24
W21	-----	-----	-----	-----	-----	1160.55
W22	0.14	1160.66	0.10	1160.04	0.25	1159.90
W23	-----	-----	-----	-----	-----	1160.50
W24A	-----	-----	-----	-----	-----	1160.49
W25	-----	-----	-----	-----	-----	1161.94
W26	-----	-----	-----	-----	-----	1160.59
W27	-----	-----	-----	-----	-----	1160.76
W28	-----	-----	-----	-----	-----	1160.74
W29	-----	-----	-----	-----	-----	1160.61
W30	0.72	1159.42	0.83	1159.32	0.76	1159.37
W31	-----	-----	-----	-----	-----	1160.68
W32	-----	-----	-----	-----	-----	1160.69
W33	-----	-----	-----	-----	0.27	1160.40
W34	0.21	1157.31	0.21	1157.21	0.26	1157.04
W35	0.37	1159.90	0.41	1159.86	0.51	1159.73
W36	-----	1161.01	-----	1160.90	-----	1160.88
W39	-----	-----	-----	-----	0.08	1160.60
W40	-----	-----	-----	-----	0.61	1159.83
W41	-----	-----	-----	-----	-----	1160.97
W42	-----	-----	-----	-----	0.19	1161.08
W44	0.41	1160.05	0.49	1159.94	0.49	1159.91
W45	0.06	1160.33	0.06	1160.31	0.03	1160.28
W46	0.93	1159.19	0.72	1159.48	0.82	1159.33
W47	0.05	1156.51	1.52	1154.47	1.94	1154.21
W48	0.03	1156.55	0.11	1156.15	0.14	1156.17
W49	0.73	1156.29	0.56	1156.19	0.57	1156.16
W66	-----	1162.22	-----	1161.96	-----	1161.82
W67	-----	1162.19	-----	1161.93	-----	1161.79
W68A	-----	-----	-----	-----	0.81	1161.11
W68B	-----	-----	-----	-----	-----	1161.78
W69	0.85	1160.10	0.72	1160.10	0.64	1160.10
W70B	-----	-----	-----	-----	-----	1161.52
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:
ft msl = feet mean sea level

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

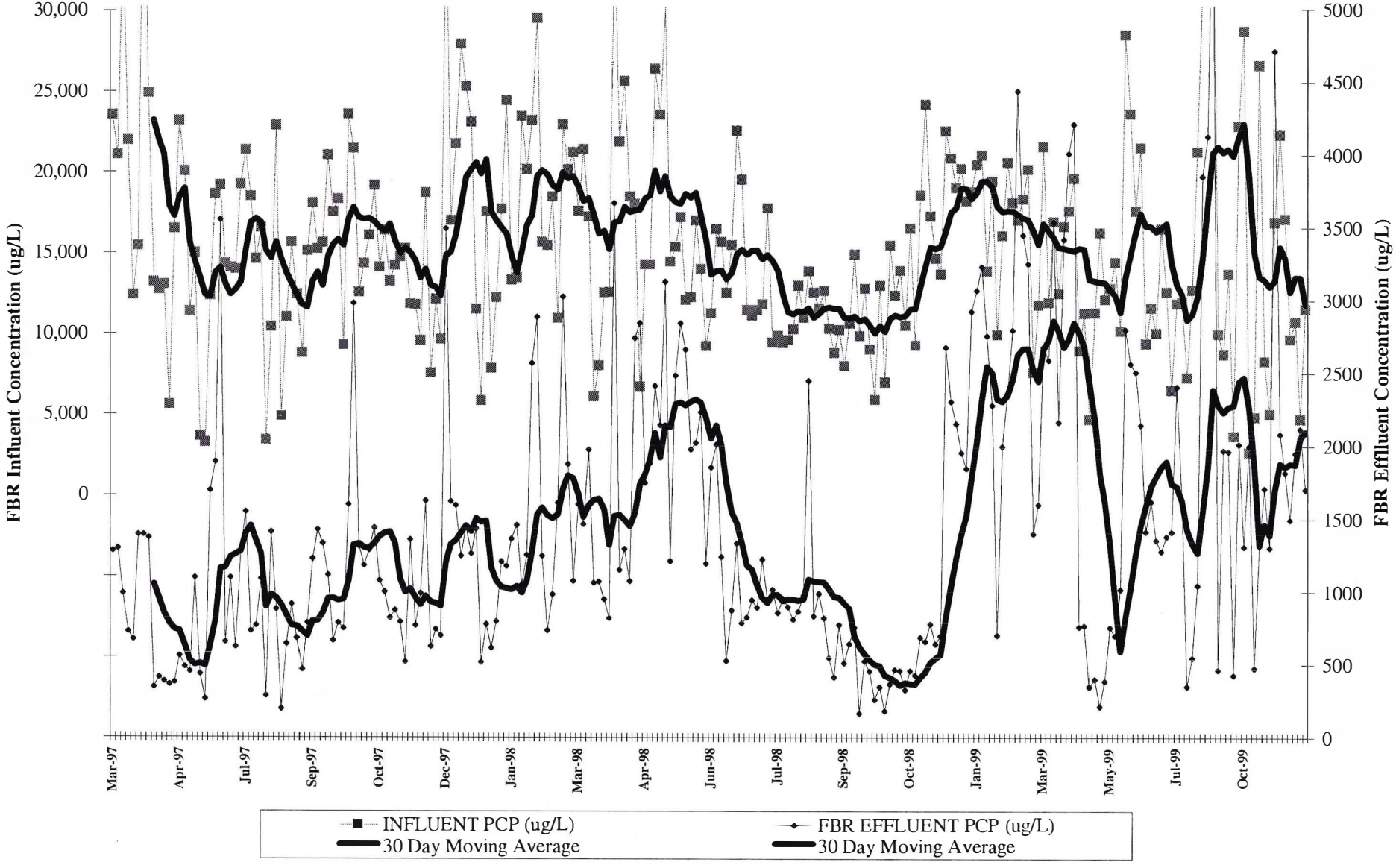
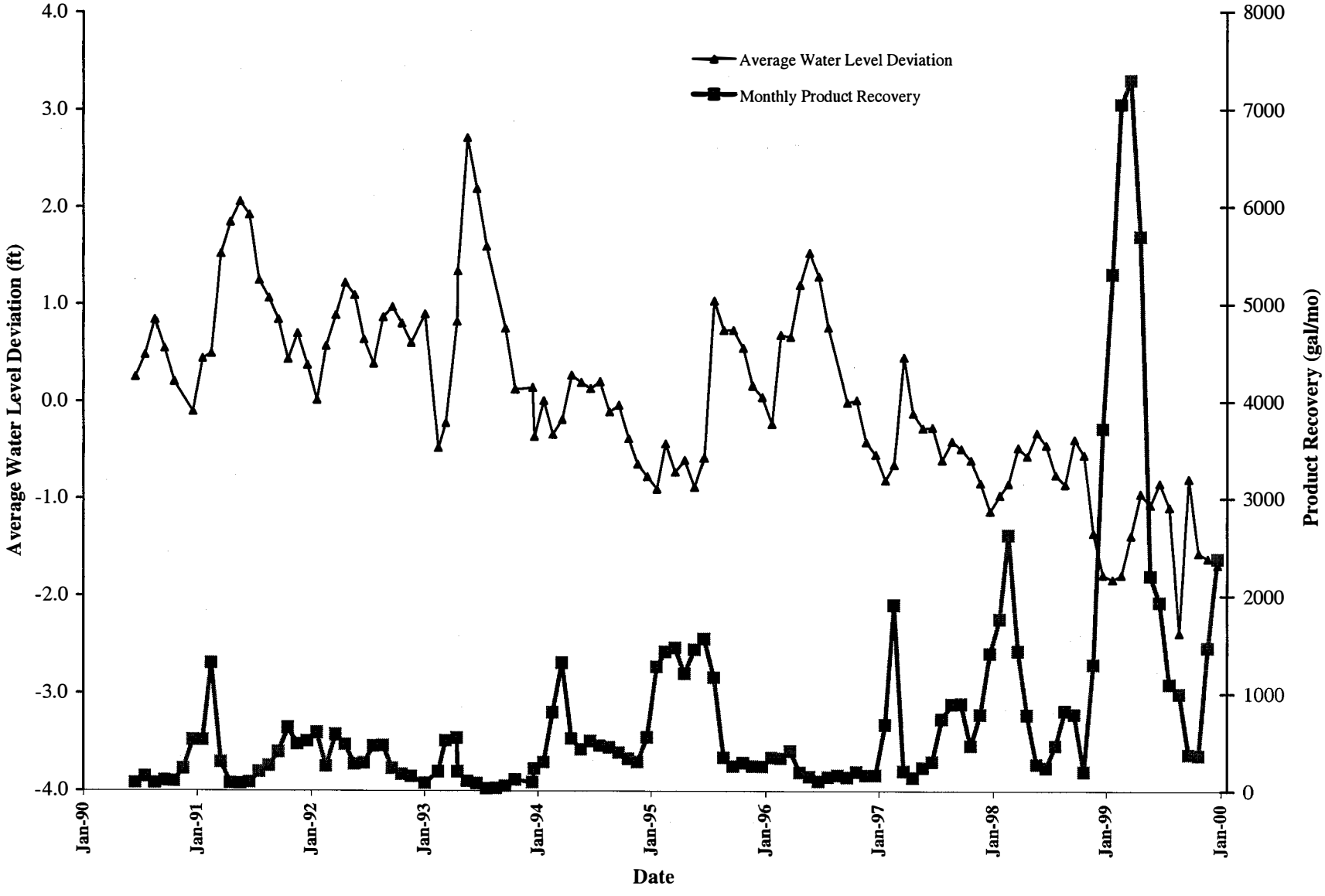


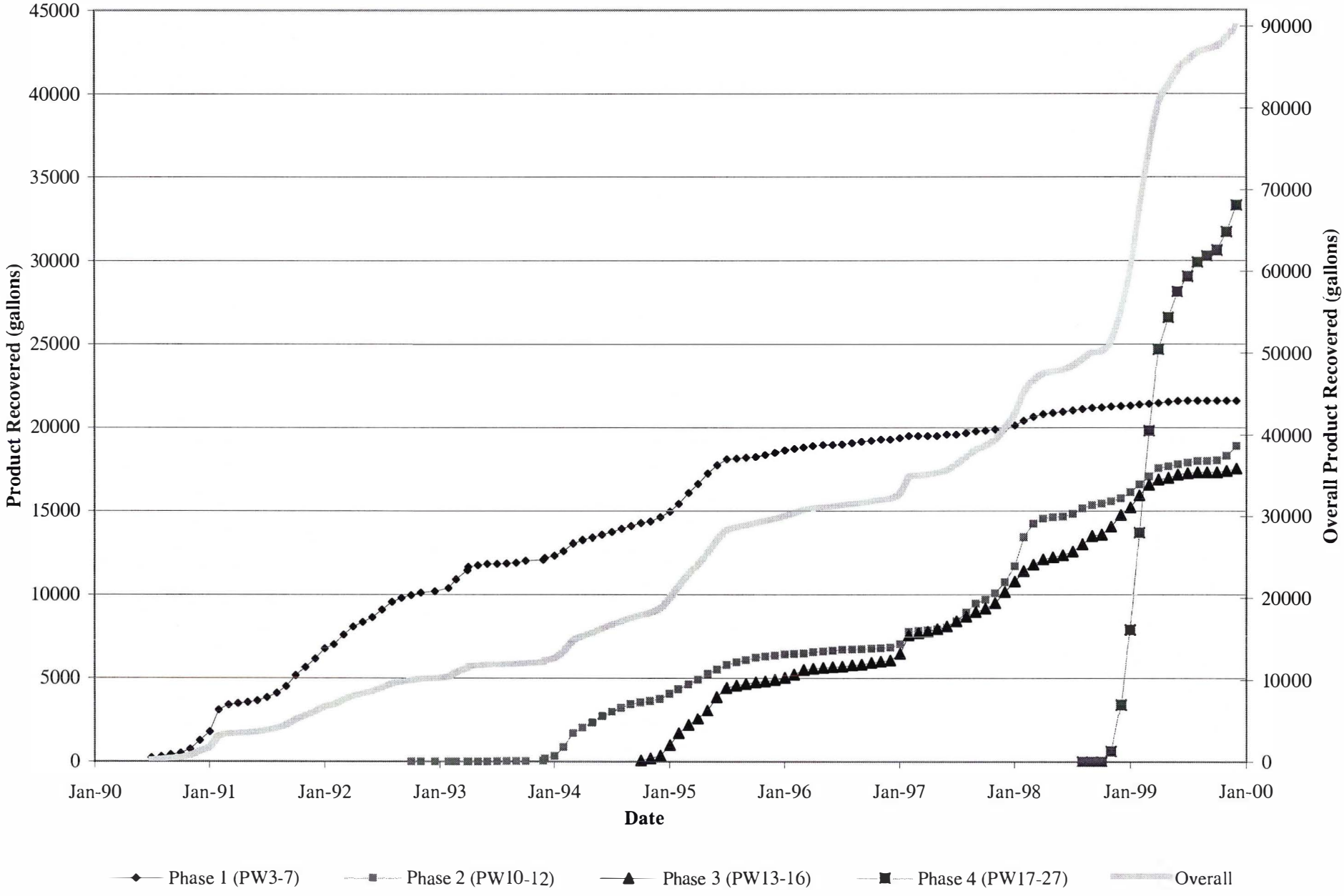
FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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2/29/00

FIGURE 3
Cumulative Product Recovery by Phase and Overall



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2/29/00

MONTGOMERY WATSON

RECEIVED
JAN 31 2000
WAUSAU DNR

January 28, 2000

Ms. Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Re: December Progress Report
WAULECO, Inc.
Wausau, Wisconsin
Administrative Order No. NCD-91-04

BRRTS# 02-37-000006

Dear Ms. Gutknecht:

On behalf of WAULECO, Montgomery Watson is submitting two copies (enclosed) of the December Progress Report for the WAULECO, Inc. site in Wausau, Wisconsin. The report is submitted in fulfillment of Paragraph 41 of Administrative Order No. NCD-91-04.

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

Sincerely,

MONTGOMERY WATSON

Patrick H. Lytle
Associate Engineer

Douglas J. Bach, P.E.
Project Manager

Enclosures: Monthly Report

cc: Wastewater Engineer - WDNR (Wausau, WI) (1)
J. Gehin - Wausau Utilities Director (1)
P. Peshek (3)
R. Brandt (1)
T. Dushek – MW Wauleco (1)

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One Science Court
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Tel: 608 231 4747
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WAULECO INCORPORATED
WAUSAU, WISCONSIN
MONTHLY REPORT
DECEMBER 1999

SUMMARY OF DECEMBER 1999 ACTIVITIES

Groundwater Extraction and Treatment System Operation

Treatment system performance data for this reporting period are summarized in Table 1. PCP screening (on-site gas chromatograph) results for the system effluent samples, which represent the water discharged to the municipal sewer, averaged 5 ug/L for the month of December, with a maximum single day concentration of 9 ug/L. The laboratory result for PCP in the system effluent was 12 ug/L on December 15, 1999. The on-site result for the same day was 5 ug/L. Both these results indicate PCP concentrations were well below the permit levels of 150 ug/L (monthly average) and 300 ug/L (daily maximum).

Laboratory results for mercury analyses of the FBR influent, FBR effluent, and system effluent samples collected on December 15 are included in Table 1. The mercury concentration in the system effluent samples (discharged to the sanitary sewer) was <0.2 ug/L.

PCP influent concentrations ranged from 5,000 ug/L to 22,245 ug/L during December (Table 1). PCP influent and effluent concentrations in the FBR are presented graphically both as individual data points and as a 30-day moving average in Figure 1. As shown in Figure 1, influent and effluent PCP concentrations increased slightly during December. The average PCP removal efficiency for the FBR during December was 81% compared to an average of 86% during the previous year.

Daily groundwater flow through the treatment system (Table 2) ranged from 32 to 56 gallons per minute (gpm) during December. The treatment system flowrate averaged 41 gpm. Total treatment system efficiency (including carbon polishing units) continues to be greater than 99%.

Product Recovery

Product recovery data for the reporting period are presented in Table 3. Historic product recovery (since July 1990) compared to average water level deviation is presented in Figure 2. Water levels in the vicinity of the site stabilized during December, following a sharp decrease in November. Product recovery totaled 1,471 gallons in December. Increased product recovery is likely the result of lower water levels attained during November and December, as the treatment system came completely back on-line.

A comparison of the product recovery of each phase of well installations is presented in Figure 3. This figure illustrates the historical productivity of each phase of well installations. Cumulative product recovery of all wells is plotted on the secondary vertical axis. Extraction

wells PW-28 and PW-29 are not included in this figure, as their cumulative product recovery totals are relatively low at this time (see Table 3).

Groundwater Monitoring

Groundwater elevation and product thickness data for October, November, and December are summarized in Table 4.

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TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Biological Oxygen Demand	mg/L	12/15/99	20	6				2	
Chemical Oxygen Demand	mg/L	12/15/99	43	32				22	
Chloride	mg/L	12/15/99	200	193				196	
Dissolved Oxygen	mg/L	12/06/99	6.7	3.2	4.8				
	mg/L	12/14/99	6.7	4.6	4.9				
	mg/L	12/21/99	7.6	4.5	5.6				
	mg/L	12/28/99	6.7	5.9	4.1				
Nitrogen, Ammonia	mg/L	12/06/99	1	0.6	0.4				
	mg/L	12/14/99	1.5	0.4	0.4				
	mg/L	12/21/99	1.5	0.4	0.4				
	mg/L	12/28/99	1.5	0.4	0.4				
Nitrogen, Nitrate	mg/L	12/06/99	<	<	<				
	mg/L	12/14/99	0.2	<	<				
	mg/L	12/21/99	<	<	<				
	mg/L	12/28/99	0.6	0.4	0.1				
Nitrogen, Nitrate + Nitrite	mg/L	12/15/99	0.540	0.310				<	
Nitrogen, Total Kjeldahl	mg/L	12/15/99	1.13	0.990				0.770	
Pentachlorophenol-Screen	µg/L	12/01/99						4	
	µg/L	12/02/99						3	
	µg/L	12/03/99						3	
	µg/L	12/04/99						9	
	µg/L	12/05/99						9	
	µg/L	12/06/99	5000	1302	2925			9	
	µg/L	12/07/99						2	
	µg/L	12/08/99						2	
	µg/L	12/09/99						3	
	µg/L	12/10/99						3	
	µg/L	12/11/99						4	
	µg/L	12/12/99						4	
	µg/L	12/13/99	16829	4711	1180			4	
	µg/L	12/14/99						5	
	µg/L	12/15/99						5	
	µg/L	12/16/99						6	
	µg/L	12/17/99						8	
	µg/L	12/18/99						7	
	µg/L	12/19/99						7	
	µg/L	12/20/99	22245	2082	2367			7	
	µg/L	12/21/99						7	

TABLE 1

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

Parameter	UNIT	DATE	FBR Influent	FBR Effluent	FFR Effluent	Bag Filter Effluent	Filters1+2 Effluent	System Effluent	System Eff Dup
Pentachlorophenol-Screen	µg/L	12/22/99						7	
	µg/L	12/23/99						4	
	µg/L	12/24/99						1	
	µg/L	12/25/99						1	
	µg/L	12/26/99						1	
	µg/L	12/27/99						1	
	µg/L	12/28/99	17049	1820	1574			3	
	µg/L	12/29/99						2	
	µg/L	12/30/99						3	
	µg/L	12/31/99						6	
pH	S.U.	12/06/99	6.7	6.6	6.7				
	S.U.	12/14/99	6.6	6.6	6.7				
	S.U.	12/21/99	6.6	6.6	6.6				
	S.U.	12/28/99	6.6	6.6	6.5				
Phosphorus, Ortho	mg/L	12/15/99	0.680	0.650				0.820	
Phosphorus, Phosphate	mg/L	12/06/99	2.5	2.5	2.5				
	mg/L	12/14/99	2.5	2.5	2.5				
	mg/L	12/21/99	2.5	2.5	2.5				
	mg/L	12/28/99	3.5	3.5	3.5				
Solids, Total Suspended	mg/L	12/15/99	13	15		26	5	4	
Mercury	ug/L	12/15/99	0.79	0.55				<	
Phenols									
2,3,4,6-Tetrachlorophenol	µg/L	12/15/99	<	<	<	230	110	<	<
2,4,5-Trichlorophenol	µg/L	12/15/99	<	<	<	<	<	<	<
2,4,6-Trichlorophenol	µg/L	12/15/99	<	<	<	<	<	<	<
2,4-Dichlorophenol	µg/L	12/15/99	<	<	<	<	<	<	<
2,4-Dimethylphenol	µg/L	12/15/99	<	<	<	<	<	<	<
2,4-Dinitrophenol	µg/L	12/15/99	<	<	<	<	<	<	<
2,6-Dichlorophenol	µg/L	12/15/99	<	<	<	<	<	<	<
2-Chlorophenol	µg/L	12/15/99	<	<	<	<	<	<	<
2-Methylphenol	µg/L	12/15/99	<	<	<	<	<	<	<
2-Nitrophenol	µg/L	12/15/99	<	<	<	<	<	<	<
3&4-Methylphenol	µg/L	12/15/99	<	<	<	<	<	<	<
4,6-Dinitro-2-Methylphenol	µg/L	12/15/99	<	<	<	<	<	<	<
4-Chloro-3-Methylphenol	µg/L	12/15/99	<	<	<	<	<	<	<
4-Nitrophenol	µg/L	12/15/99	<	<	<	<	<	<	<
Pentachlorophenol	µg/L	12/15/99	5100	1100	1100	1900	880	12	13
Phenol	µg/L	12/15/99	<	<	<	<	<	<	<

TABLE 2

Treatment System Flows
Wauleco, Inc.
Wausau, Wisconsin

Date	Influent Groundwater Flow Rate [1] (gpm)	POTW Discharge Flow Rate [1] (gpm)	POTW Totalized Discharge (gal)
12/1/99	43.41	25.04	20,123,063
12/2/99	43.75	24.97	20,159,024
12/3/99	43.19	25.25	20,195,377
12/4/99	32.42	24.84	20,231,141
12/5/99	39.81	24.84	20,266,905
12/6/99	56.09	24.84	20,302,669
12/7/99	41.89	25.38	20,339,219
12/8/99	41.96	24.56	20,374,590
12/9/99	41.45	27.84	20,414,677
12/10/99	40.92	22.93	20,447,690
12/11/99	41.27	24.15	20,482,472
12/12/99	41.23	23.34	20,516,074
12/13/99	50.41	23.54	20,549,971
12/14/99	39.86	25.59	20,586,816
12/15/99	41.35	24.22	20,621,696
12/16/99	42.10	24.56	20,657,067
12/17/99	41.78	23.68	20,691,160
12/18/99	40.68	24.15	20,725,942
12/19/99	40.10	24.15	20,760,724
12/20/99	39.90	23.92	20,795,161
12/21/99	39.66	24.01	20,829,736
12/22/99	41.66	24.54	20,865,068
12/23/99	40.75	24.19	20,899,895
12/24/99	40.62	24.27	20,934,849
12/25/99	38.18	24.00	20,969,412
12/26/99	40.32	24.15	21,004,194
12/27/99	40.69	24.14	21,038,953
12/28/99	40.11	24.13	21,073,699
12/29/99	39.04	24.13	21,108,445
12/30/99	39.46	24.13	21,143,190
12/31/99	39.38	24.13	21,177,936
Average	41.40	24.44	
Total [2]:			1,101,969

Footnotes:

(1) Influent and POTW flow rates are daily averages. These may not be equal due to balancing in the treatment system and calibration of individual flowmeters.

(2) Total is the cumulative POTW discharge during the reporting period.

TABLE 3

Product Removal
(gallons per day)
Wauleco, Inc.
Wausau, Wisconsin

Date	PW04	PW05	PW07	PW09	PW10	PW11	PW12	PW13	PW15	PW16	PW17	PW18	PW19	PW20	PW21	PW22	PW23	PW24	PW25	PW26	PW27	PW28	PW29	Date Total
12/01/99	0	0	0	0	0	4	0	1.7	0	0	0	8	0	1.7	0	0	0	1.7	15	8.6	3.4	0	0	44.1
12/02/99	0	0	0	0	0	5.2	0	1.7	0	0	0	6.9	0	1.7	0	0	0	1.7	13.8	8.6	3.4	0	0	43
12/03/99	0	0	0	0	3.4	3.4	0	1.7	0	0	0	6.9	0	1.7	0	0	1.7	0	8.6	8.6	0	0	0	36
12/04/99	0	0	0	0	3.4	3.4	0	3.4	0	0	0	8.6	0	1.7	0	0	0	0	13.8	5.2	0	0	0	39.5
12/05/99	0	0	0	0	1.7	5.2	0	1.7	0	0	0	6.9	0	1.7	3.4	0	0	0	10.2	5.2	1.7	0	0	37.7
12/06/99	0	0	0	0	1.7	3.4	0	0	0	0	0	8.6	0	1.7	0	0	0	0	3.4	5.2	0	0	0	24
12/07/99	1.7	0	0	0	0	5.2	0	1.7	0	0	0	6.9	0	1.7	0	0	0	0	3.4	6.9	1.7	0	0	29.2
12/08/99	0	0	0	0	0	5.2	0	0	0	0	0	6.9	0	1.7	0	0	0	0	3.4	6.9	0	0	0	24.1
12/09/99	0	0	0	0	0	3.4	0	1.7	0	0	0	6.9	0	1.7	0	0	0	0	3.4	6.9	0	0	1.7	25.7
12/10/99	0	0	0	0	0	17.2	0	1.7	0	0	0	6.9	0	1.7	0	0	0	1.7	5.2	5.2	1.7	0	0	41.3
12/11/99	0	0	0	0	0	17.2	0	0	0	0	0	12	0	1.7	0	0	0	0	8.6	10.3	0	0	0	49.8
12/12/99	0	0	0	0	0	17.2	0	0	0	0	0	12	0	3.4	0	0	0	1.7	8.6	8.6	0	0	0	51.5
12/13/99	0	0	0	0	1.7	6.9	0	0	0	0	0	8.6	0	3.4	0	0	0	1.7	8.6	8.6	0	0	1.7	41.2
12/14/99	0	0	0	0	0	6.9	0	0	0	0	0	6.9	0	1.7	0	0	0	1.7	6.9	8.6	0	0	0	32.7
12/15/99	0	0	0	0	0	8.6	0	6.9	0	0	0	6.9	0	6.9	0	0	0	0	17.2	13.8	0	0	0	60.3
12/16/99	0	0	0	0	0	10.3	0	6.9	0	0	0	6.9	0	8.6	0	0	0	0	17.2	12	0	0	0	61.9
12/17/99	0	0	0	0	0	10.3	0	5.2	0	0	0	8.6	0	6.9	0	0	0	0	17.2	6.9	0	0	0	55.1
12/18/99	0	0	0	0	0	5.2	0	1.7	0	0	0	6.9	0	0	0	0	0	1.7	22.1	10.3	0	0	1.7	49.6
12/19/99	0	0	0	0	0	3.4	0	1.7	0	0	0	6.9	0	1.7	0	0	0	1.7	20.6	10.3	0	0	0	46.3
12/20/99	0	0	0	0	0	3.4	0	1.7	0	0	0	8.6	0	0	0	0	0	0	8.6	12	0	0	0	34.3
12/21/99	0	0	0	0	0	10.3	0	0	0	0	0	8.6	0	0	0	0	0	0	23.8	12	0	0	0	54.7
12/22/99	0	0	0	0	0	17.2	0	8.6	0	0	0	12	0	0	0	0	0	3.4	27.5	10.3	1.7	0	0	80.7
12/23/99	0	0	0	0	0	20.6	0	5.2	0	0	0	12	0	0	0	0	0	5.2	25.5	10.3	1.7	0	1.7	82.2
12/24/99	0	0	0	0	0	8.6	0	1.7	0	0	0	10.3	0	3.4	0	0	0	1.7	13.8	10.3	1.7	0	0	51.5
12/25/99	0	0	0	0	0	8.6	0	1.7	0	0	0	8.6	0	3.4	0	0	0	1.7	12	10.3	3.4	0	1.7	51.4
12/26/99	0	0	0	0	0	8.6	0	1.7	0	0	0	8.6	0	3.4	0	0	0	1.7	13.8	10.3	1.7	0	0	49.8
12/27/99	0	0	0	0	0	8.6	0	1.7	0	0	0	8.6	0	3.4	0	0	0	1.7	13.8	8.6	0	0	1.7	48.1
12/28/99	0	0	0	0	0	8.6	0	1.7	0	0	0	8.6	0	3.4	0	0	0	1.7	13.8	8.6	0	0	0	46.4
12/29/99	0	0	0	0	0	8.6	0	5.2	0	0	5.2	8.6	0	3.4	0	0	0	1.7	5.2	17.2	1.7	0	0	56.8
12/30/99	1.7	0	0	0	0	13.8	0	5.2	0	0	5.2	8.6	0	3.4	0	0	0	3.4	5.2	17.2	1.7	0	0	65.4
12/31/99	0	0	0	0	0	13.8	0	3.4	0	0	0	10.3	0	3.4	0	0	0	0	12	12	0	0	1.7	56.6
Well Total	3.4	0	0	0	11.9	272.3	0	75.5	0	0	10.4	262.6	0	78.5	3.4	0	1.7	35.8	382.2	295.8	25.5	0	11.9	1470.9

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	October 21 1999		November 15 1999		December 13 1999	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
PW01	0.08	1162.12	0.09	1160.66	0.07	1161.50
PW02	-----	1162.14	-----	1161.73	-----	1161.52
PW03	-----	1162.20	-----	1161.93	-----	1161.65
PW3S	0.04	1160.15	-----	-----	-----	-----
PW04	-----	1156.72	0.52	1154.95	0.81	1154.65
PW05	-----	1147.24	-----	1147.26	-----	1147.20
PW06	0.43	1161.26	-----	-----	-----	-----
PW07	-----	1156.88	0.06	1156.86	-----	1156.64
PW08	0.37	1160.29	-----	-----	-----	-----
PW9I	-----	-----	-----	-----	-----	-----
PW9O	-----	1161.24	-----	1163.91	-----	1162.30
PW10	-----	1159.64	-----	1158.37	0.86	1157.21
PW11	-----	1160.67	0.01	1158.50	0.86	1155.72
PW12	-----	1162.18	-----	1161.88	-----	1161.64
PW13	-----	1161.06	0.39	1157.57	0.24	1158.26
PW14	0.21	1160.46	-----	-----	-----	-----
PW15	0.09	1160.49	0.12	1160.17	0.15	1159.83
PW16	-----	1159.61	0.06	1158.80	0.25	1158.63
PW17	-----	1159.44	0.24	1157.65	0.58	1158.22
PW18	0.22	1160.18	0.08	1159.37	0.78	1158.98
PW19	-----	1160.47	0.08	1159.89	0.69	1159.44
PW20	0.55	1160.03	0.59	1159.12	1.37	1158.42
PW21	-----	1160.51	0.05	1159.66	0.48	1159.54
PW22	1.26	1156.52	-----	1156.89	0.34	1157.60
PW23	0.26	1159.12	0.36	1158.65	0.32	1158.44
PW24	0.36	1159.54	0.46	1158.82	0.45	1158.70
PW25	0.06	1159.53	0.68	1158.31	2.21	1156.70
PW26	1.05	1158.20	0.41	1158.27	1.89	1156.77
PW27	0.31	1158.08	0.37	1158.21	0.35	1157.89
PW28	-----	-----	-----	-----	0.04	-----
PW29	-----	-----	0.02	-----	0.36	-----
P01	0.41	1160.59	0.42	1159.80	0.40	1159.83
OW01	-----	1162.52	-----	-----	-----	-----
W01A	-----	1162.85	-----	-----	-----	-----
W01B	-----	1162.73	-----	-----	-----	-----
W02	0.16	1161.88	-----	-----	0.12	1161.31
W03A	0.39	1160.20	0.43	1159.97	0.39	1159.56
W03B	-----	1161.10	-----	1160.91	-----	1160.74
W04A	0.23	1161.39	0.27	1160.93	0.29	1160.74
W04B	0.11	1161.54	-----	-----	-----	-----
W05	0.53	1160.70	0.62	1159.54	0.52	1159.71
W06R	-----	1162.42	0.36	1161.95	0.22	1161.81
W07	0.34	1162.02	-----	-----	-----	-----
W08	-----	1172.29	-----	-----	-----	-----
W09	-----	1161.72	-----	-----	-----	-----
W10A	-----	1160.69	-----	-----	-----	-----
W10B	-----	1160.72	-----	-----	-----	-----
W11	-----	1160.62	-----	-----	-----	-----

TABLE 4

Groundwater Elevation Data
Wauleco, Inc.
Wausau, Wisconsin

Well	October 21 1999		November 15 1999		December 13 1999	
	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)	Oil Thickness (ft)	Water Elevation (ft msl)
W12	-----	1160.34	-----	-----	-----	-----
W13	-----	1160.92	-----	-----	-----	-----
W14	-----	1159.46	-----	-----	-----	-----
W16	-----	1161.22	-----	-----	-----	-----
W17	0.26	1160.29	-----	-----	-----	-----
W18	-----	1160.74	-----	-----	-----	-----
W19	-----	1162.07	-----	-----	-----	-----
W21	-----	1160.61	-----	-----	-----	-----
W22	0.13	1160.72	0.14	1160.66	0.10	1160.04
W23	-----	1160.57	-----	-----	-----	-----
W24A	-----	1160.54	-----	-----	-----	-----
W25	-----	1162.71	-----	-----	-----	-----
W26	-----	1160.66	-----	-----	-----	-----
W27	-----	1160.97	-----	-----	-----	-----
W28	-----	1160.77	-----	-----	-----	-----
W29	-----	1160.64	-----	-----	-----	-----
W30	0.40	1160.48	0.72	1159.42	0.83	1159.32
W31	-----	1160.70	-----	-----	-----	-----
W32	-----	1160.70	-----	-----	-----	-----
W33	0.10	1161.25	-----	-----	-----	-----
W34	0.13	1157.92	0.21	1157.31	0.21	1157.21
W35	0.74	1160.52	0.37	1159.90	0.41	1159.86
W36	-----	1161.80	-----	1161.01	-----	1160.90
W39	-----	1161.32	-----	-----	-----	-----
W40	0.74	1160.32	-----	-----	-----	-----
W41	-----	1162.27	-----	-----	-----	-----
W42	-----	1161.91	-----	-----	-----	-----
W44	0.05	1161.07	0.41	1160.05	0.49	1159.94
W45	0.06	1161.11	0.06	1160.33	0.06	1160.31
W46	0.81	1160.39	0.93	1159.19	0.72	1159.48
W47	-----	1157.35	0.05	1156.51	1.52	1154.47
W48	-----	1156.81	0.03	1156.55	0.11	1156.15
W49	0.09	1157.19	0.73	1156.29	0.56	1156.19
W66	-----	1162.52	-----	1162.22	-----	1161.96
W67	-----	1162.44	-----	1162.19	-----	1161.93
W68A	0.34	1162.18	-----	-----	-----	-----
W68B	-----	1162.44	-----	-----	-----	-----
W69	0.52	1161.00	0.85	1160.10	0.72	1160.10
W70B	-----	1162.29	-----	-----	-----	-----
River	-----	No Gage	-----	No Gage	-----	No Gage

Notes:
ft msl = feet mean sea level

FIGURE 1
FBR Influent and Effluent
PCP Concentrations

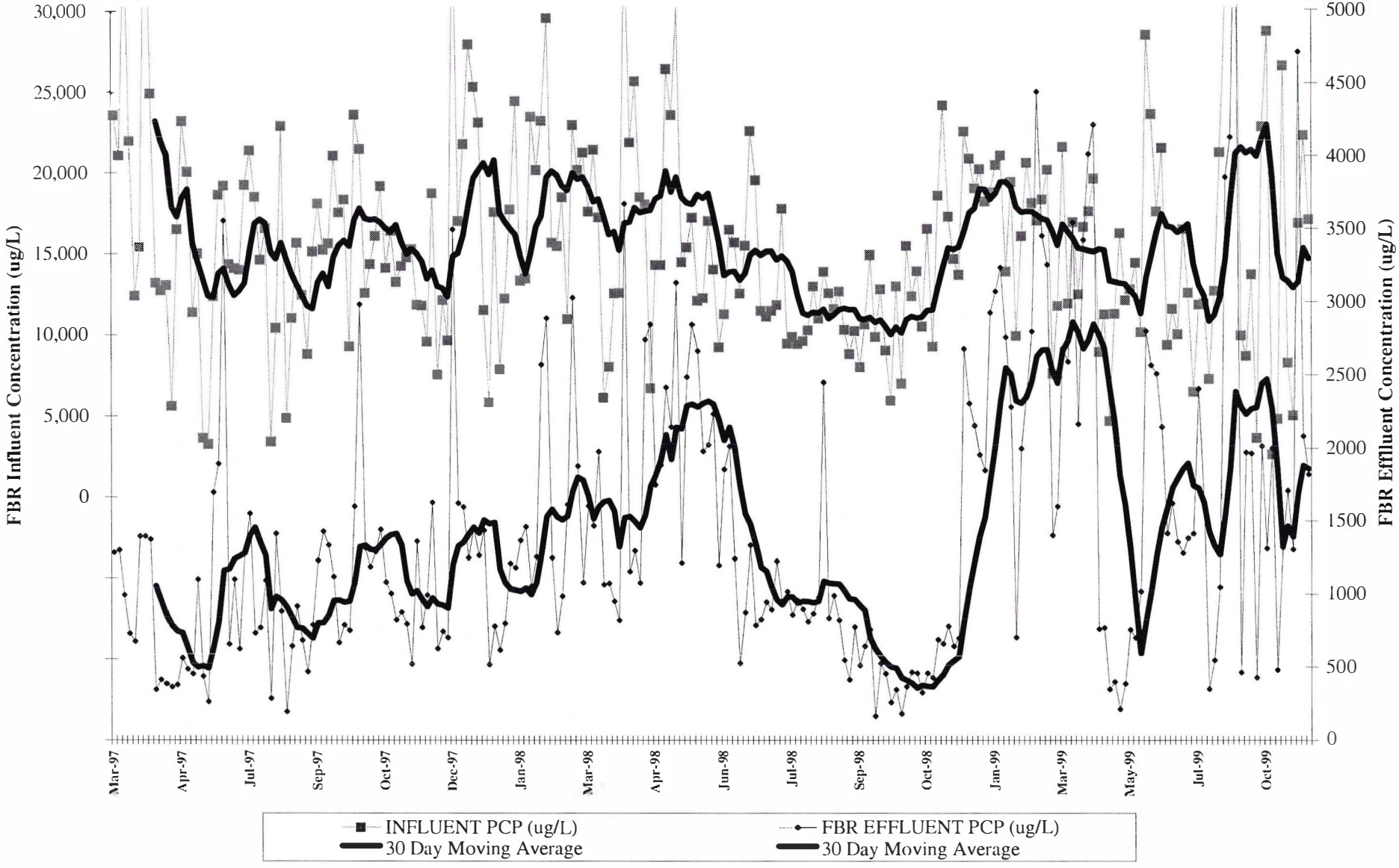
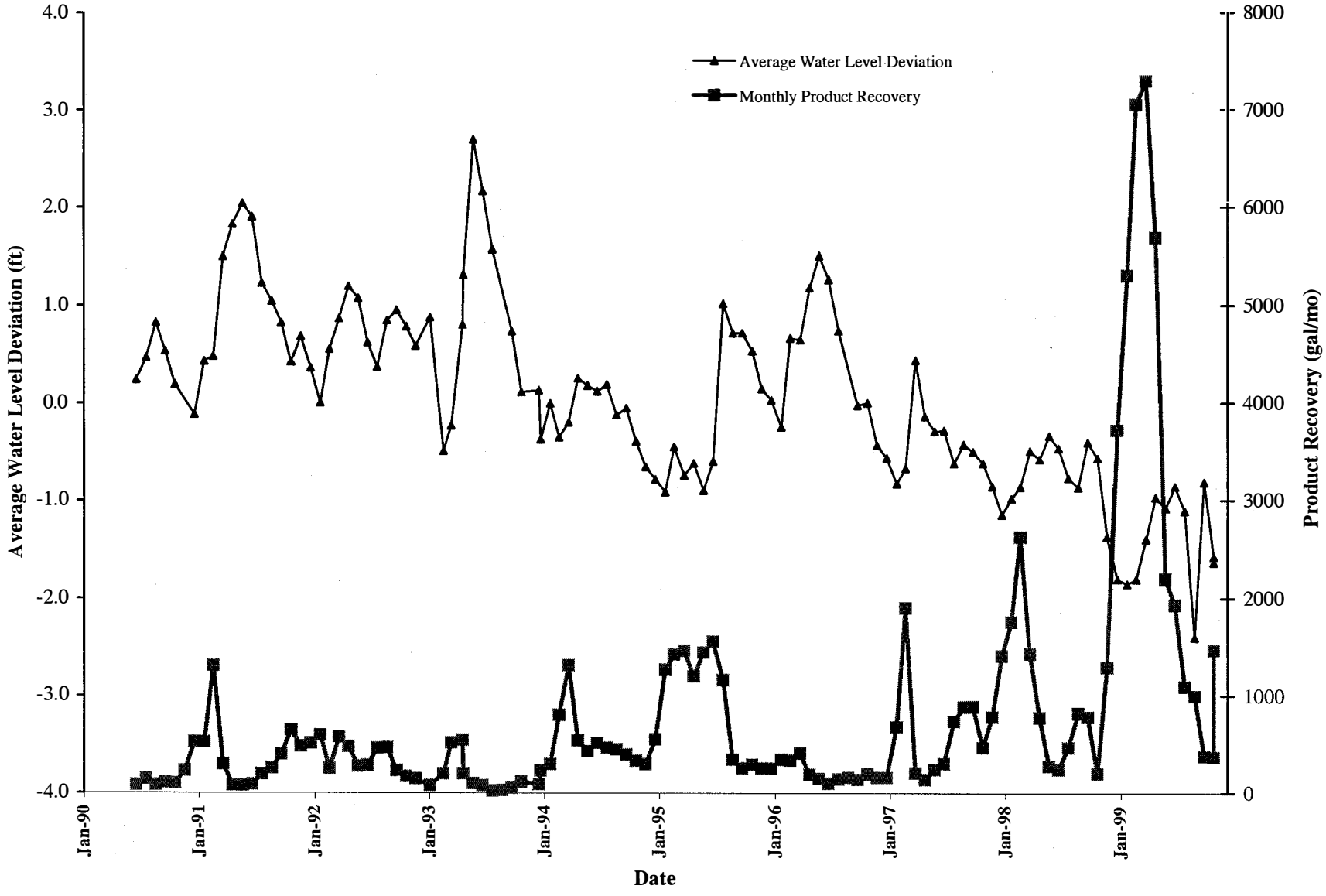


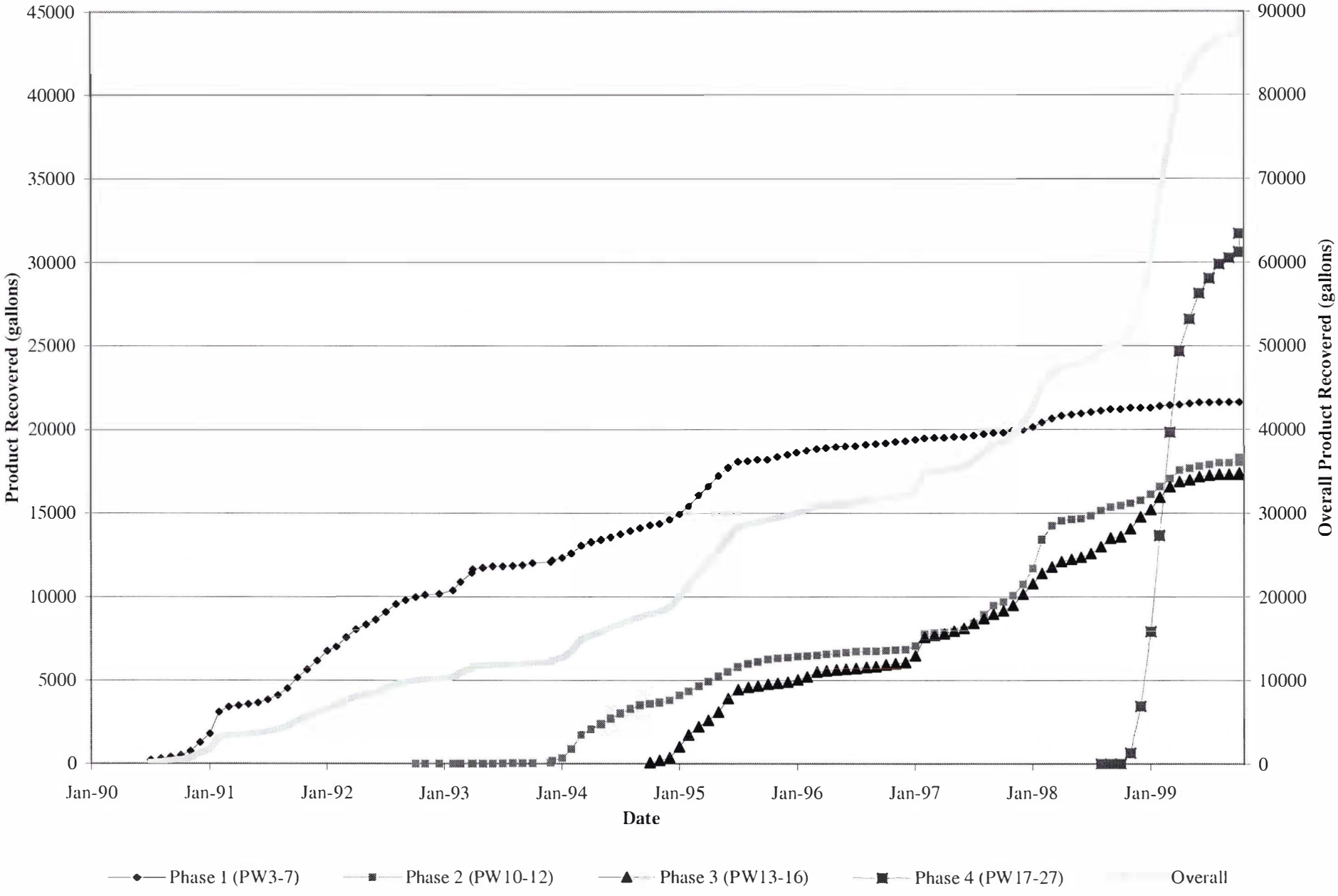
FIGURE 2
Average Water Level Deviation Versus Product Recovery Rates



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1/27/00

FIGURE 3
Cumulative Product Recovery by Phase and Overall



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