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STS Consultants Ltd.

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Groundwater Extraction Program

1986 Progress Report for
Wausau Chemical Corporation

GWPT operating as of Jan '87

Department of Natural Resources

Antigo, Wisconsin

Report



STS Consultants Ltd.
Consulting Engineers

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JAN 26 1987

Wis. Dept. of Natural Resources

JAN 16 1987

ANTIGO AREA HEADQUARTERS
ANTIGO, WISCONSIN

January 15, 1987

Department of Natural Resources
P.O. Box 310
Antigo, Wisconsin 54409

Attention: Mr. Jack Saltes

STS Job 12776-B

RE: Wausau Chemical Corporation Groundwater Extraction Program

Gentlemen:

On behalf of Wausau Chemical Corporation, we are submitting a progress report for 1986 concerning the above referenced project. Five copies of the report are enclosed.

Please contact us to arrange a meeting to discuss the extraction program. Also, if you have any questions concerning this report, please feel free to contact us at your convenience.

Yours very truly,

STS CONSULTANTS LTD.

Mark D. Millsop
Mark D. Millsop
Environmental Geologist

Douglas J. Hermann
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cc: Mr. Ray Krueger
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Report

Project

GROUNDWATER EXTRACTION PROGRAM

1986 PROGRESS REPORT

Client

WAUSAU CHEMICAL CORPORATION

P.O. BOX 953

WAUSAU, WISCONSIN 54401

Project #

12776-B

Date

JANUARY, 1987



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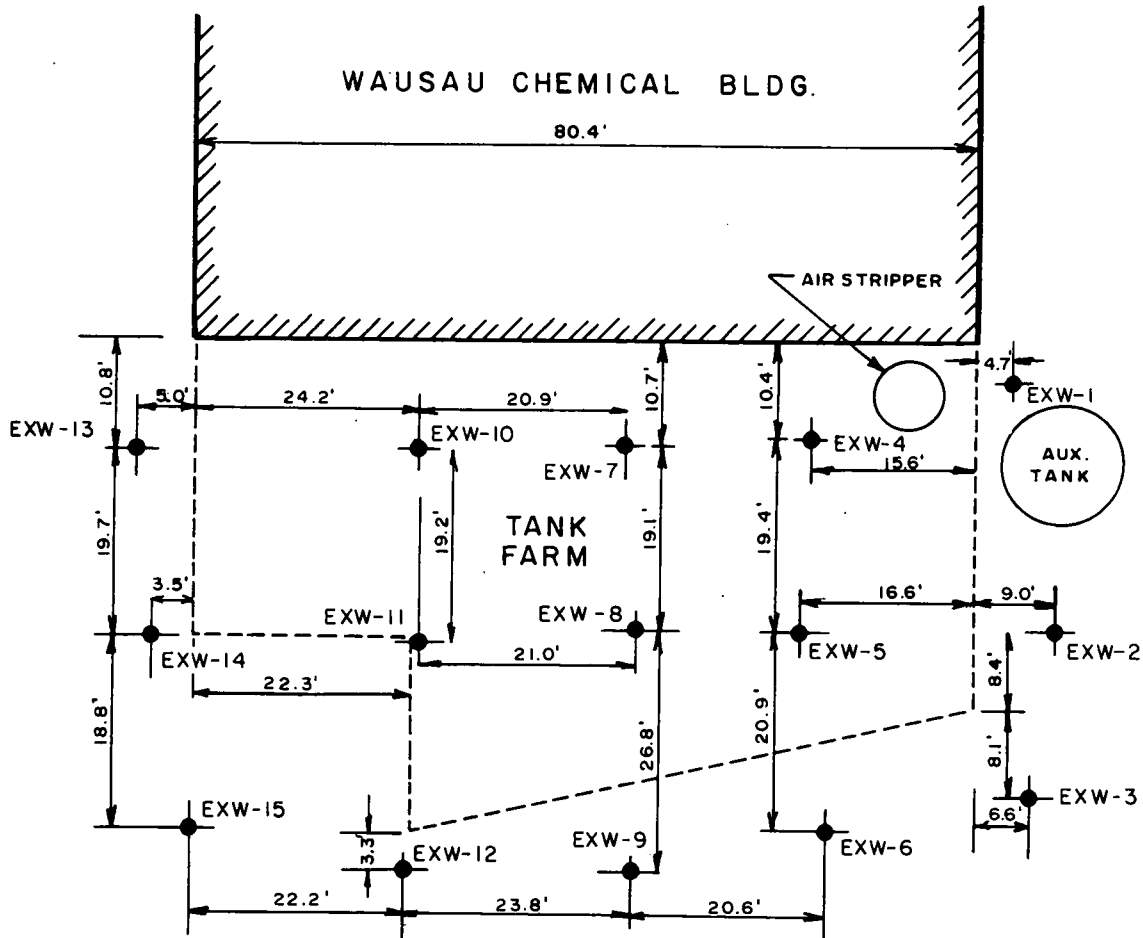
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I. INTRODUCTION

The purpose of this report is to summarize the Wausau Chemical Corporation groundwater extraction system data collected in 1986 and to evaluate the effectiveness of the system to date. The system was installed in 1985 for the purpose of cleaning up spilled tetrachloroethylene; other VOC contamination also has been cleaned up by the system. This report includes 1986 water quality, water level and quantitative pumping data.

The Wausau Chemical Corporation is located on the east bank of the Wisconsin River at 2001 River Drive which is in the NW 1/4 of the NW 1/4 of Section 25, T29N, R7E of the City of Wausau, Marathon County, Wisconsin. For historical information concerning the tetrachloroethylene (also known as perchloroethylene (PCE)) spill at the site, please refer to the STS reports dated July 25, 1984 and April 3, 1985. Soil boring logs and well installation diagrams concerning the extraction well installations are summarized in the STS December 17, 1985 report. Furthermore, the groundwater extraction, treatment and monitoring procedures, and the results of pumping from well cluster 1 were described in that report.



EXTRACTION WELL LOCATION DIAGRAM
WAUSAU CHEMICAL FACILITY
FIGURE 1



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II. PROCEDURES

A. Groundwater Extraction and Treatment

The groundwater extraction and treatment system was installed per the recommendations in STS's April 4, 1985 report. Figure 1 illustrates the locations of the systems's major components. Generally, the system consists of six 1-horsepower submersible pumps installed in a cluster of six wells and an air stripper. Prior to this fall, the extracted water was pumped through hoses to an auxiliary tank which was fitted with a 3-horsepower centrifugal pump. The water was pumped from the tank to the air stripper at a rate of approximately 145 gallons per minute (gpm). However, for winterization purposes, the tank was removed; now, the water is pumped from the six wells into a header pipe in the Wausau Chemical plant. After passing through a meter, the water is pumped back outside to the top of the air stripping tower. The pressure is totally supplied by the well pumps. Because of this, the ~~maximum pumping rate of the system has decreased to approximately 100 to 110 gpm.~~

After the extracted water is stripped, it is gravity drained through a 6-inch PVC pipe to a storm sewer from where it eventually is discharged into the Wisconsin River. The WPDES Discharge Permit was obtained in the spring of 1986; previously, the effluent from the air stripper was discharged into the Wausau City sewer system and was treated at the Wausau wastewater treatment plant. For winterization purposes, the PVC line was repiped this fall so that it passes into the heated Wausau Chemical plant prior to discharge into the storm sewer.

B. System Monitoring

During the extraction program, periodic water analyses were performed. The monitoring program primarily was undertaken to determine the contaminant level in the air stripper influent and effluent. The data obtained from that monitoring allowed calculation of the air stripper efficiency and, furthermore, it allowed checking of the discharge quality for compliance with the project requirements. Pumping rates were adjusted as needed to achieve compliance.

Water samples were obtained from the specially installed sample valves on the wells and were analyzed prior to a cluster move. When reasonably stable water quality was observed, extraction in a well cluster was terminated and the pumps were moved to a new well cluster (generally only 2 to 3 pumps were moved to make a new cluster).

All water samples were analyzed by Zimpro Laboratories in Rothschild, Wisconsin. In addition, pumping rates, pumping duration and water levels were measured regularly.

III. RESULTS

A. Extraction Program History

A generalized historical summary of the extraction program is presented in Table 1. Refer to the December 17, 1985 STS report for a comprehensive data summary concerning the 1985 extraction program and refer to Appendix A in this report for a comprehensive data summary of the 1986 extraction program. Thus far, as described in the table, there have been various minor problems, but overall the system has worked quite well.

The first cluster of wells that was pumped included extraction wells 10, 11, 12, 13, 14 and 15. They were pumped until November 15, 1985 when the pumps were removed from wells 13, 14 and 15, and were reinstalled in wells 7, 8 and 9. Thus, the second cluster of wells consisted of extraction wells 7, 8, 9, 10, 11 and 12. Because the system was not winterized in 1985, it was shutdown for the winter on December 5, 1985.

System start-up was attempted in late May and early June, 1986. However, difficulties were encountered because the areal groundwater table had been lowered due to increased pumping from approximately 1000 to 1400 gpm in municipal pumping well 4. The lower water table reduced the extraction well yields significantly. However, the original design concept for the extraction system provided flexibility in adapting to changes. To alleviate the problem, the submersible pumps and float controls were lowered. After a tuning period, the system was "officially" started on June 24, 1986. These operational problems generally were not encountered in 1985.

After start-up, the system was operated almost continuously until September 20 when the pumps were moved from wells 9 and 12 into wells 4 and 5. This move was based on the fact that PCE concentration stabilization had occurred in the cluster 2 configuration. Thus, on September 20, pumping commenced in cluster 3. Pumping in that cluster has continued to the present with periodic shutdowns primarily for system winterization.

TABLE 1
3

GENERALIZED EXTRACTION PROGRAM HISTORY

<u>Date</u>	<u>Activity</u>
<u>1985</u>	
Oct. 11	Stripper installation started
Oct. 23	Attempted start-up. Blower would not stay on. Determined that motor/blower combination designed incorrectly. Blower people were to install new blower Monday, October 28, but didn't come in until October 30.
Oct. 30	Started to operate but breakers would not stay on.
Oct. 31	Rewired - operated about 3 hours - mechanical operation checked out OK.
Nov. 1	Operated approximately 4 hours
Nov. 2	Operated approximately 4.5 hours
Nov. 3	Operated approximately 5 hours
Nov. 4 Nov. 5	Operated approximately a 4-hour morning - started again at 4 p.m. and operated all night and all day until 8 a.m., November 6.
Nov. 7 Nov. 8-9	Started only wells 10 and 11 at 2 p.m. and operated until system failed Friday night or Saturday morning due to snow storm. Everything had frozen.
Nov. 12	Thawed system out and restarted at 4:30 p.m.
Nov. 13	Operated only wells 10 and 11 all day.
Nov. 14	Shut system off at 2 p.m. Discussed water meter not working.
Nov. 15	Moved pumps from wells 13, 14 and 15 to wells 7, 8 and 9. Operated well 11 for only 2 hours to get water level readings.
Nov. 19	Could not start-up. Lines were frozen.
Nov. 20	Pulled pumps to remove check valves and thaw out lines. Installed heat tape on tank line valve and meter.

<u>Date</u>	<u>Activity</u>
Nov. 21	Started wells 7, 8 and 9 at 4 p.m. Operated until 4 p.m., November 22. Shutdown to take out water meter (the new meter was not working again).
Nov. 25	Meter repaired. Thanksgiving week - did not attempt to operate due to cold temperatures and manpower shortage.
Dec. 5	Started wells 7 and 10 at approximately 8:30 a.m. Operated until 10:30 a.m. when system was shutdown for the winter due to unfavorable weather conditions.
<u>1986</u>	
Jan. 9	Meeting with DNR to discuss extraction program.
April 7	WPDES Discharge Permit issued by DNR to allow discharge of treated contaminated groundwater into the Wisconsin River.
May/June	Start-up difficulties encountered due to low areal groundwater conditions.
384 hr June 24	System start-up.
17 hr July 10	System shutdown from 8 a.m. to 4 p.m. for system maintenance.
216 July 19	System shutdown from 9 a.m. to 2 p.m. for system maintenance.
744 Aug. 19	System shutdown from 7:30 a.m. to 11 a.m. for system maintenance.
92 Aug. 23	Control box burned out sometime over weekend. System shutdown for repair.
Aug. 26	System restarted at 10 a.m.
576 hr Sept. 20	Pumps removed from wells 9 and 12, and installed in wells 4 and 5 (cluster 3) at 10 a.m.
240 Oct. 1	System shutdown from 10 a.m. to 4 p.m. for winterization preparation.
0 Oct. 3-10	System partially shutdown for winterization preparation. System operation was sporadic.
336 Oct. 24- Nov. 2	Wisconsin River drawn down to allow repair of dam. Associated lower groundwater levels caused some cycling of pumps. Pumps had to be throttled back to alleviate cycling.

B. Air Stripper Efficiency

1. Well Cluster 2

PCE concentrations for some cluster 2 wells, and the air stripper influent and effluent for several sampling dates are presented in Table 2. PCE concentrations in samples collected from wells 10 and 11 showed a marked decrease with time.

Air stripper influent and effluent samples were collected on twelve occasions from late June through late August for PCE analysis. The influent concentrations ranged from 9.360 to 2.630 parts per million (ppm), whereas effluent concentrations ranged from 1.475 to 0.337 ppm. Figure 2 illustrates the decrease in PCE concentration with duration of pumping in well cluster 2. The influent and effluent concentrations were reasonably stable for approximately 2 months prior to commencement of pumping in well cluster 3. Also, note that the pumping rate was reasonably constant with time.

Air stripper efficiency calculated from the influent and effluent concentrations ranged from 82.5% to 88.2% and averaged 85.6%. Thus, on the average, 85.6% of the PCE that was introduced into the air stripper was removed.

The air stripper influent and effluent also were analyzed for twelve Volatile Organic Compounds (VOCs) on June 24 and ten VOCs on July 21, August 20, August 27, and August 29. The monitoring of those ten VOCs is required by the Department of Natural Resources (DNR) on a monthly basis to satisfy WPDES Permit compliance. The air stripper efficiency for removing the 10 to 12 VOCs ranged from 83.3% to 88.0% (Table 3).

TABLE 2

MEASURED PERCHLOROETHYLENE CONCENTRATIONS - WELL CLUSTER 2

Sampling Date	Extraction Well (ppm)			Stripper Influent(ppm)	Stripper Effluent(ppm)	Stripper Efficiency
	10	11	12			
10-3-85	144.0					
11-14-85		9.4				
12-5-85	6.0					
6-24-86				9.360	1.475	84.2%
6-27-86				7.770	1.350	82.5%
6-30-86				6.300	1.050	83.3%
7-7-86				5.290	0.815	84.6%
7-14-86				5.150	0.770	85.0%
7-21-86				3.870	0.605	84.4%
7-28-86				2.840	0.345	87.9%
8-4-86				3.240	0.410	87.3%
8-12-86				2.810	0.340	87.9%
8-20-86				3.140	0.370	88.2%
8-27-86	1.620	5.740	0.600	2.630	0.425	83.8%
8-29-86	2.210	5.820	0.797	2.840	0.337	88.1%

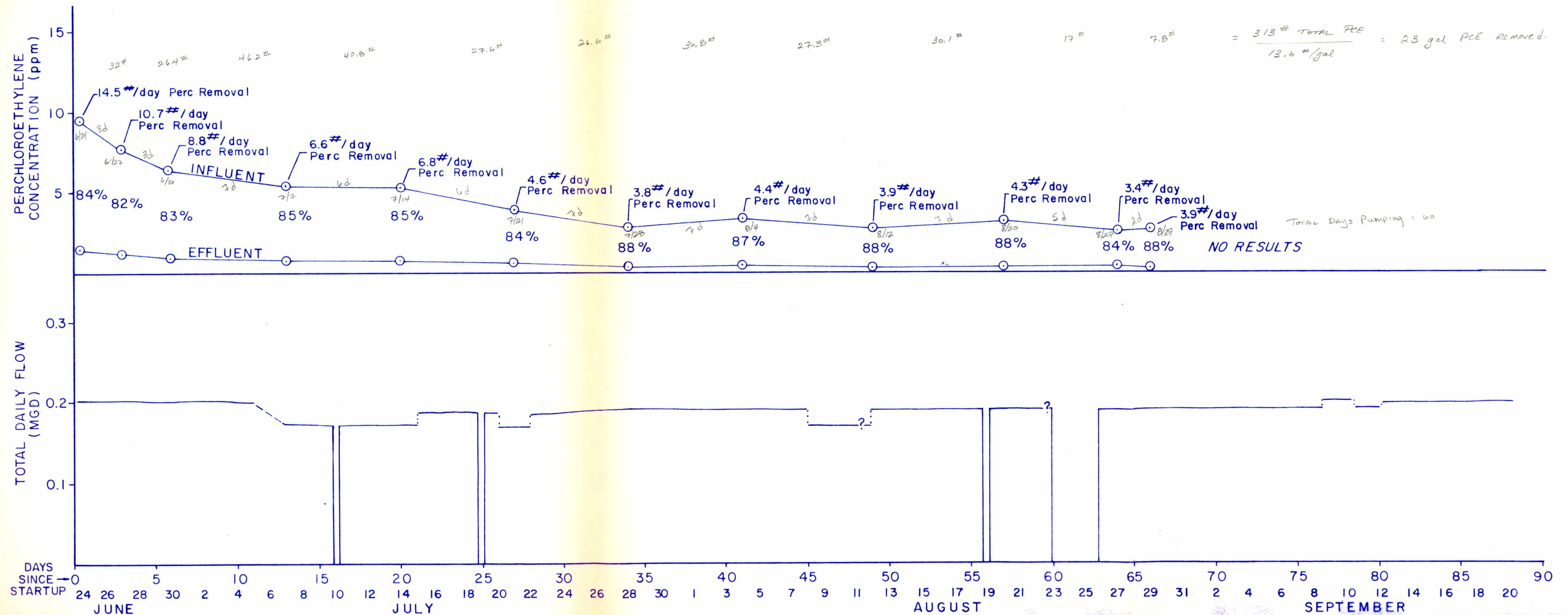


FIGURE 2: 1986 AIR STRIPPER ANALYSIS - WELL CLUSTER 2

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TABLE 3

VOC CONCENTRATIONS AND AIR EMISSIONS
WELL CLUSTER 2

<u>Sampling Date</u>	<u>Stripper Influent (ppm)</u>	<u>Stripper Effluent (ppm)</u>	<u>Stripper Efficiency (%)</u>	<u>Air Emissions (lbs/day)</u>
6-24-86	17.05	2.854	83.3	23.9
7-21-86	4.550	0.735	83.8	5.4
8-20-86	3.670	0.440	88.0	5.0
8-27-86	3.410	0.530	84.5	4.4
8-29-86	3.410	0.414	87.9	4.6

Chronological water quality, water level and pumping data for well cluster 2 is included in Appendix A.

2. Well Cluster 3

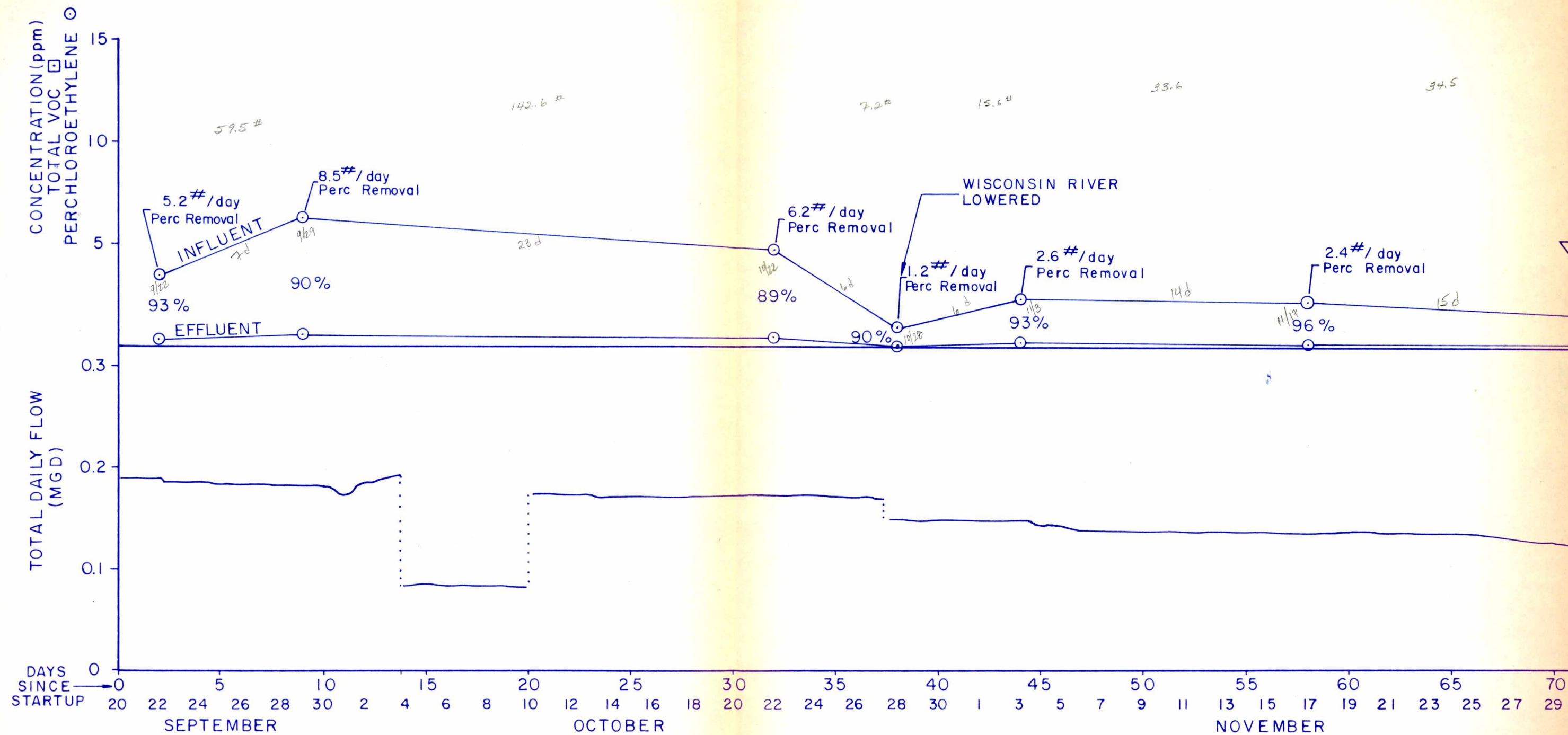
PCE concentrations for some wells in cluster 3, and air stripper influent and effluent are presented in Table 4. PCE concentrations have decreased significantly with time. This trend also is reflected in Figure 3, a graph of the influent and effluent concentrations, and associated pumping rates.

Air stripper influent and effluent samples were collected on 10 occasions from late September to late December for PCE analysis. The influent PCE concentrations ranged from 6.220 to 0.998 ppm, whereas effluent PCE concentrations ranged from 0.640 to 0.044 ppm (Table 4). Air stripper efficiency calculated from the influent and effluent concentrations ranged from 80.7% to 97.1% and averaged 92.2%.

TABLE 4

MEASURED PERCHLOROETHYLENE CONCENTRATIONS - WELL CLUSTER 3

<u>Sampling Date</u>	<u>Extraction Well (ppm)</u>				<u>Stripper Influent(ppm)</u>	<u>Stripper Effluent(ppm)</u>	<u>Stripper Efficiency</u>
	<u>4</u>	<u>5</u>	<u>10</u>	<u>11</u>			
10-3-85			144.0				
10-11-85		145.0					
11-14-85				9.4			
12-5-85		40.0	6.0				
8-27-86			1.620	5.740			
8-29-86			2.210	5.820			
9-22-86	1.420	4.460			3.540	0.255	92.8%
9-29-86					6.220	0.640	89.7%
10-22-86					4.820	0.520	89.2%
10-28-86					>0.998	0.097	90.2%
11-3-86					2.340	0.164	93.0%
11-17-86					2.115	0.0825	96.1%
12-2-86					1.510	0.0440	97.1%
12-9-86					1.940	0.0575	97.0%
12-15-86					2.295	0.443	80.7%
12-29-86					1.565	0.059	96.2%



15.4

12.6

$$22.1 = \frac{343\#}{13.6\#/gal} = 25\text{ gal PCE removed.}$$

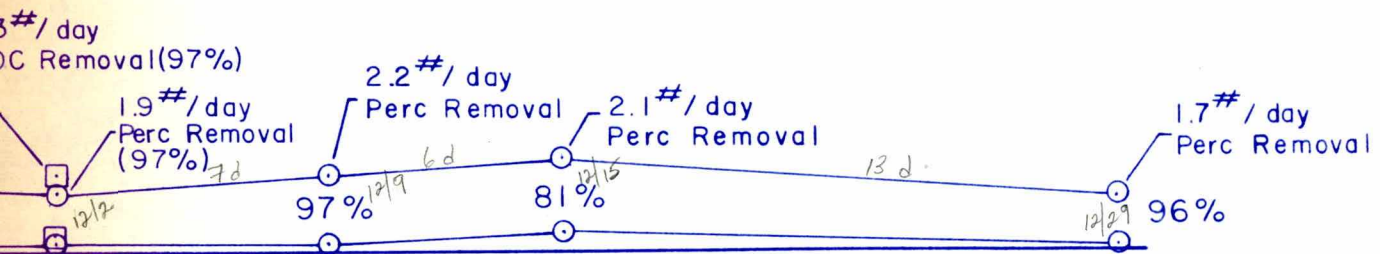


FIGURE 3 : 1986 AIR STRIPPER
ANALYSIS - WELL CLUSTER 3



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Air stripper influent and effluent samples were analyzed for a full scan of VOCs on December 2, 1986. The total VOC removal efficiency was 97.0% (Table 5).

TABLE 5
TOTAL VOC CONCENTRATIONS AND AIR EMISSIONS
WELL CLUSTER 3

<u>Sampling Date</u>	<u>Stripper Influent (ppm)</u>	<u>Stripper Effluent (ppm)</u>	<u>Stripper Efficiency (%)</u>	<u>Air Emissions (lbs/day)</u>
12/2/86	1.795	0.054	97.0	2.3

3. Overall

The overall PCE removal efficiency for 1986 ranged from 80.7% to 97.1% and averaged 88.6%. This is very comparable to the 88% average achieved in 1985.

VOC removal efficiencies are included in Tables 3 and 5. These values are very similar to the PCE removal efficiency values on those dates.

C. Air Emissions

1. Well Cluster 2

PCE emissions from the air stripper were calculated for dates that influent and effluent PCE concentrations were measured (Table 2). PCE emissions values per day were estimated by multiplying the pumping rate times 1440 minutes times the measured influent PCE concentration in parts per million times 8.33 pounds per gallon times the calculated air stripper efficiency for that date. PCE emissions for

= minutes in a day
= density of H₂O

cluster 2 ranged from 14.5 to 3.4 pounds per day (Figure 2 and Appendix A). These values are less than the maximum allowable emissions of 15 pounds per day.

Because there were no full scan VOC analyses conducted on any samples during the period that cluster 2 pumped, we cannot calculate total VOC emissions. However, selected VOCs were analyzed for on five different occasions. It is our opinion that these selected VOCs constitute the majority (at least 90%) of the VOCs in the groundwater underlying the former tank farm. Therefore, these results were utilized to estimate total VOC air emissions. Table 3 presents a summary of the influent and effluent estimated total VOC concentrations, the air stripper efficiency and the air emissions for those sampling dates. After start-up and system adjustment, the total VOC air emissions were much less than the maximum allowable emissions. However, it should be noted that the influent and effluent concentrations and consequently, air emissions, values in Table 3 probably are slightly lower than actual total concentrations and emissions. Water quality and pumping data on which all of the above calculations are based are included in Appendix A.

2. Well Cluster 3

Daily PCE emissions were calculated for the dates that influent and effluent PCE concentrations were measured (Figure 3 and Appendix B). PCE emissions ranged from 8.5 to 1.2 pounds per day. These values are much less than the maximum allowable limit of 15 pounds per day.

Total VOC emissions for cluster 3 are presented in Table 5. The December 2, 1986 results are from a full VOC scan; only PCE was analyzed for on the the other sampling dates.

3. Overall

For 1986, PCE air emissions ranged from 14.5 to 1.2 pounds per day. Generally, PCE emissions averaged about 3 to 5 pounds per day. VOC air emissions ranged from about 23.9 to 2.3 pounds per day (Tables 3 and 5); the anomalous 23.9 pounds per day reading was measured during system start-up and adjustment. During normal operation, measured VOC air emissions were 5.4 pounds per day or lower.

IV. CONCLUSIONS AND RECOMMENDATIONS

A. Air Stripper Efficiency

1. Well Cluster 2

On the average, 85.6% of the PCE that was introduced into the air stripper was removed. Air stripper efficiency can be affected by many parameters such as influent concentrations, temperature and humidity. A general trend apparent in the PCE concentration data from cluster 2 is one of increasing air stripper efficiency with decreasing influent concentration (Figure 2).

2. Well Cluster 3

Thus far, PCE removal has averaged 92.2%. Over the time that cluster 3 has been pumped, the total daily flow has gradually decreased and now is relatively constant around 95 to 100 gpm. Generally, the data indicate that, as pumping rates decreased, the air stripper efficiency increased.

3. Overall

Overall the air stripper efficiency has been relatively good. VOC removal efficiencies are very similar to calculated PCE removal rates.

B. Air Emissions

1. Well Cluster 2

After start-up and system adjustment, the PCE and total VOC air emissions were much less than the maximum allowable emissions.

2. Well Cluster 3

PCE and total VOC emissions were well within the compliance standards.

3. Overall

The extraction and air stripper system has been very successful in meeting the emission requirements to date. After system start-up and adjustment, the system can be pumped 24 hours per day without exceeding the maximum standards of 3 pounds per hour and 15 pounds per day.

C. Perchloroethylene Clean-up Efficiency

The extraction and air stripper system has been successful in cleaning up the spilled PCE. The following facts corroborate this statement.

1. Pumping in cluster 1 and cluster 2 areas has had a significant effect on the overall groundwater quality in the former tank farm area; the beginning influent concentrations for cluster 3 were much lower than the beginning influent concentrations for cluster 1 and cluster 2.

PCE Conc - Well B-3B

5/25/84 8.2

6/8/84 4.3

10/30/84 2.1

12/2/86 0.044

2. PCE concentrations in both pumped and unpumped wells have decreased significantly from the first 1985 sampling dates (Table 6).

TABLE 6

PCE CLEAN-UP ANALYSIS

<u>Well</u>	<u>Initial Concentration (ppm)/Date</u>	<u>Concentration at Last Analysis (ppm)/Date</u>	<u>Percent Clean-up</u>
5	145.0/10-11-85	4.460/9-22-86	96.9
7	50.2/10-11-85	3.100/12-5-85	93.8
10	144.0/10-3-85	2.210/8-29-86	98.5
11	9.4/11-14-85	5.820/8-29-86	38.1
15	8.0/10-11-85	1.200/12-5-85	85.0

3. The PCE concentration in monitoring well B-3B on May 25, 1984, June 8, 1984, and October 30, 1984 was 3.200, 4.300, and 2.100 ppm, respectively. Sampling of that well on December 2, 1986, revealed that the PCE concentration in that well had decreased significantly to 0.0442 ppm.

4. In late October 1986, the Wisconsin River water level was lowered (dam controlled) by the Wisconsin Valley Improvement Company. Consequently, this caused a similar decrease in the water level of the adjoining unconfined aquifer. Fortunately, influent and effluent samples were collected during the period that the river and well water levels were drawn down. Note the decrease in PCE concentration on October 28, 1986 (Figure 3). This data indicates that most of the contamination is in the upper portion of the "normal" saturated zone and/or the lower portion of the vadose or unsaturated zone. This is evidence that the extraction well

Disagree

*Decrease in
river level does
not prove wells
don't have to be installed
deeper.*

system is properly designed to extract the most contaminated PCE groundwater and the system does not have to be installed to a greater depth.

*Unlikely that it
volatilized. Amount
removed is
unknown.*

A maximum of approximately 900 gallons of PCE were spilled in 1983. To clean-up that spill the soils in the vadose zone were excavated. Later, the extraction and air stripper system were constructed. ~~We estimate that the majority of the PCE spill either volatilized or was excavated immediately after the spill. Through December, 1986, we estimate that approximately 70 to 75 gallons of PCE have been recovered through the extraction system.~~

D. Recommendations

We recommend that the following data be collected in the future:

1. Weekly influent and effluent samples should be analyzed for PCE. Once per month these influent and effluent samples should be analyzed for a full scan of VOCs.
2. Monitoring well B-3B should be sampled quarterly.
3. To determine when pumps may be moved to a new cluster, we suggest that all individual wells be sampled before moving the pumps to identify reasonably stabilized PCE water quality in each individual well.
4. Air stripper influent and effluent, and extraction wells within a cluster should be sampled during startup of a new cluster.
5. Flow rates should be monitored at least twice per week.

6. Groundwater elevations should be measured in all extraction wells and monitoring wells in the vicinity of the former tank farm on a semi-monthly basis.

*App. A + B
for gw levels*

V. GENERAL QUALIFICATIONS

The analysis and recommendations submitted in this report are based on data obtained by Wausau Chemical Corporation. Our interpretations and recommendations are limited to the available data. Some calculations and associated interpretations are estimated.

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 6-24-86												TIME (Hour)												DATE 6-25-86												Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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- *1 : Estimated pumping rate = 27 gpm/pump
- *2 : Limited by max. pumping capacity of 150 gpm
- *3 : Using initial concentration
- *4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE <u>6-24-86</u> TIME (Hour) <u>1:00 p.m.</u> DATE																								Comments				
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24					
Cluster No.:	Pumps On	7																												
		8																												
		9																												
		10																												
		11																												
		12																												
Total Pumping Rate (gpm) #1																														
Total VOCs (ppm)	Well																													
	Stripper	Inlet																												
		Outlet																												
		% Rem.																												
Total VOCs Emitted (lb/hr)																														

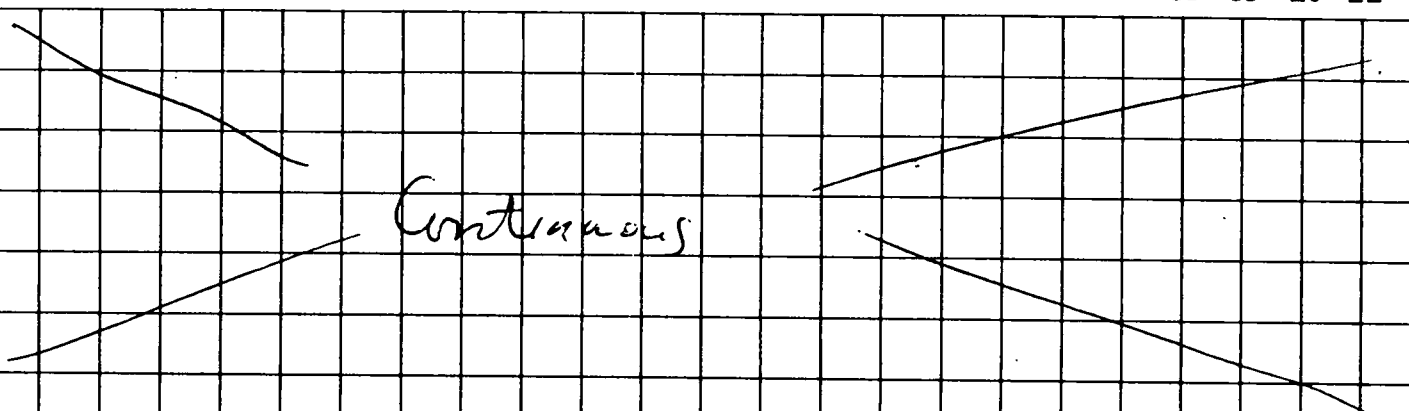
- *1 : Estimated pumping rate = 27 gpm/pump
- *2 : Limited by max. pumping capacity of 150 gpm
- *3 : Using initial concentration
- *4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 6-26-86												TIME (Hour)												DATE 6-27-86												Comments
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24													
Cluster No.	Pumps On	7	Continuous																								Meter 6-26-86 11:00 am 531,300 140 gpm											
		8																																				
		9																																				
		10																																				
		11																																				
		12																																				
Total Pumping Rate (gpm) #1																										Meter 6-27-86 9:30 am 722,000 141 gpm												
PCE (ppm)	Well	6-25 to 6-26 173,707 gal Elapsed Time 1245 min Flow Rate 139.5 gpm																								Sample 9:30 am 6-27-86												
	Stripper	Inlet	6-26 to 6-27 190,693 gal																																			
		Outlet	350 min																																			
		% Rem.	141 gpm																																			
PCE Emitted (lb/hr)																																						

- *1 : Estimated pumping rate = 27 gpm/pump
- *2 : Limited by max. pumping capacity of 150 gpm
- *3 : Using Initial concentration
- *4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 6-28-86												TIME (Hour) 6												DATE 6-29-86												Comments
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24													
Cluster No.	Pumps On	7																									<u>Meter</u> 3:30 p.m. 6-28-86 975,800 141 gpm											
		8																																				
		9																																				
		10																																				
		11																																				
		12																																				
Total Pumping Rate (gpm) #1																																						
PCE (ppm)	Well	6-27 to 6-28																								<u>Meter</u> 11:45 am 6-29-86 1,147,500 141 gpm												
		253800																																				
		1800 min																																				
		141 gpm																																				
		10.84 #/day Perc Removal																																				
		6-28 to 6-29																																				
	Stripper	Inlet	171,700																																			
		Outlet	1215 min																																			
		% Rem.	14 gpm																																			
		PCE Emitted (lb/hr)																																				

- *1 : Estimated pumping rate = 27 gpm/pump
- *2 : Limited by max. pumping capacity of 150 gpm
- *3 : Using initial concentration
- *4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

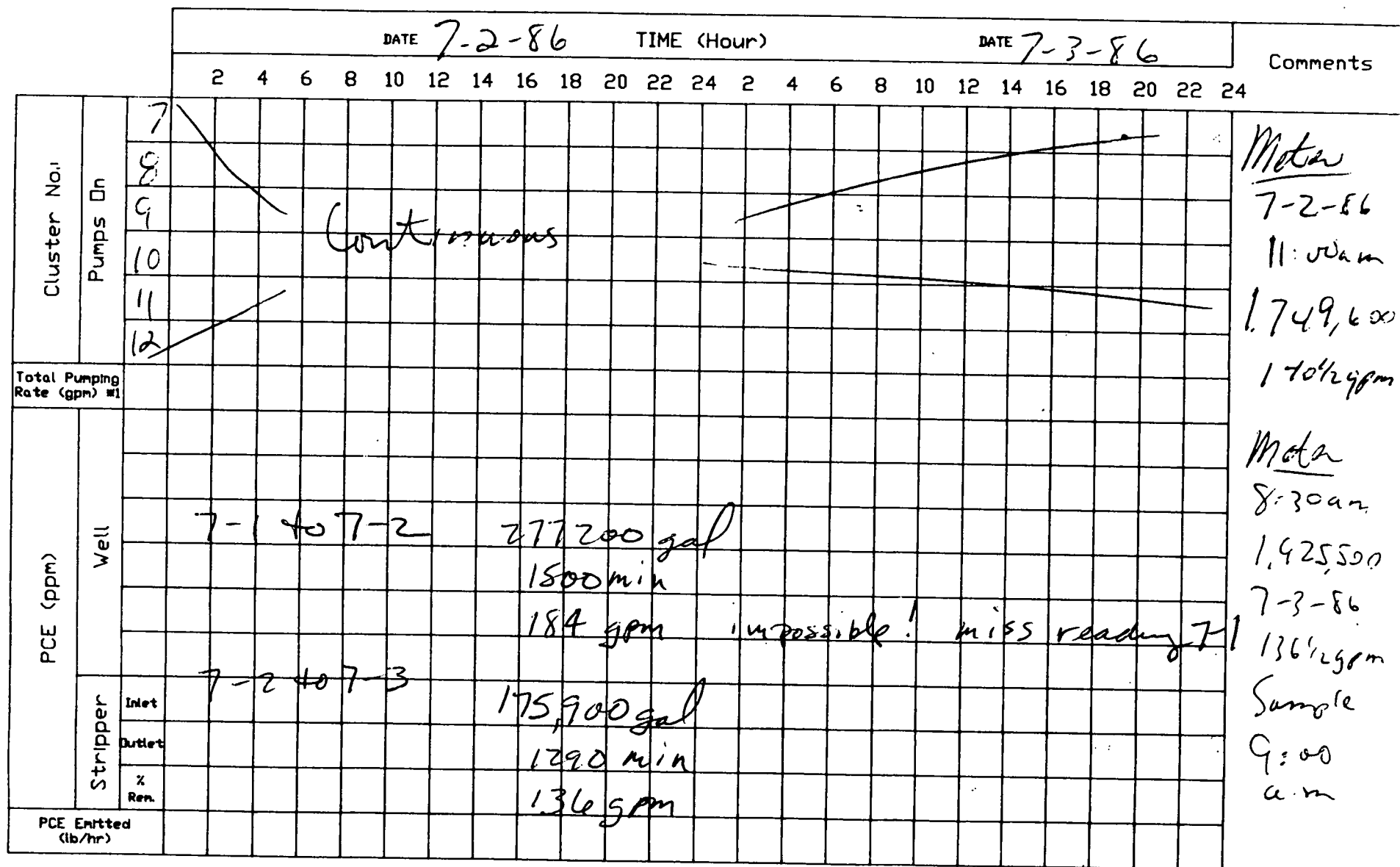
		DATE 6-30-86												TIME (Hour)												DATE 7-1-86												Comments
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24													
Cluster No.	Pumps On	7																									Meter											
		8																																				
		9																																				
		10																																				
		11																																				
		12																																				
Total Pumping Rate (gpm) #1																										7:30 a.m.												
PCE (ppm)	Well	6-29 to 6-30																								167,500 gal												
																										1185 min												
																										141 gpm												
																										miss reading												
																										Sample												
																										6-30-86												
Stripper	Inlet	6-30 to 7-1																								157400 gal												
	Outlet																									1590												
	% Rem.																									99 gpm												
PCE Emitted (lb/hr)																										which pumps off												
																										9:00 a.m.												

- ```

*1 : Estimated pumping rate = 27 gpm/pump
*2 : Limited by max. pumping capacity of 150 gpm
*3 : Using initial concentration
*4 : Using final concentration

```

# WAUSAU CHEMICAL EXTRACTION PROGRAM



- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE <u>7-4-86</u>                                                                                                                                                                                                            |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE <u>7-5-86</u> |                                                              |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|--------------------|--------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2                                                                                                                                                                                                                             | 4                                                                                                                                                                               | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.1                | Pumps On | 7                                                                                                                                                                                                                             | <div style="position: relative; height: 100px;"> <span style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; opacity: 0.3; font-size: 4em;">Continuous</span> </div> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    | Meter<br><u>Reading</u><br><u>Not taken</u><br><u>7-4-86</u> |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8                                                                                                                                                                                                                             |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 9                                                                                                                                                                                                                             |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 10                                                                                                                                                                                                                            |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 11                                                                                                                                                                                                                            |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 12                                                                                                                                                                                                                            |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |                                                                                                                                                                                                                               |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     |                                                                                                                                                                                                                               |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    | <u>7-5-86</u><br><br>2:30 pm<br><br>2,362,900<br><br>135 gpm |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                               |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                               |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                               |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                               |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | <div style="display: flex; justify-content: space-around;"> <div> <math>7-3 + 7-5</math><br/> <math>2880 + 240</math> </div> <div> <math>437400</math><br/> <math>3120</math><br/> <math>140 \text{ gpm}</math> </div> </div> |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper | Inlet                                                                                                                                                                                                                         |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Outlet                                                                                                                                                                                                                        |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | % Rem.                                                                                                                                                                                                                        |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                               |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |
| PCE Entitled (lb/hr)        |          |                                                                                                                                                                                                                               |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                    |                                                              |  |  |  |  |  |  |  |  |  |  |          |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 7-6-86            |                                                        |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 7-7-86 |  |  |  |  |  |  |  |  |  |  |  | Comments                                                                    |                                      |  |  |
|-----------------------------|----------|------------------------|--------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|-------------|--|--|--|--|--|--|--|--|--|--|--|-----------------------------------------------------------------------------|--------------------------------------|--|--|
|                             |          | 2                      | 4                                                      | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
| Cluster No.                 | Pumps On | 7                      | <div><div></div><div>Continuous</div><div></div></div> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             | Meter<br>7-6-86<br><u>No Reading</u> |  |  |
|                             |          | 8                      |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
|                             |          | 9                      |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
|                             |          | 10                     |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
|                             |          | 11                     |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
|                             |          | 12                     |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
| Total Pumping Rate (gpm) #1 |          |                        |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
| PCE (ppm)                   | Well     | 7-5 to 7-7 320,200 gal |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  | Meter<br>7-7-86<br>8:30am<br>2,683,100<br>127gpm.<br>Sample Taken<br>8:30am |                                      |  |  |
|                             |          | 2640                   |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
|                             |          | 121 gpm                |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
|                             |          | What happened here?    |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
|                             |          |                        |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
|                             | Stripper | Inlet                  |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
| Outlet                      |          |                        |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
| % Rem.                      |          |                        |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |
| PCE Effluent (lb/hr)        |          |                        |                                                        |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |                                                                             |                                      |  |  |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 7-8-86 |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 7-9-86 |  |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|-------------|--|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2           | 4                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |             |  |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.:                | Pumps On | 7           | <div style="position: relative; height: 200px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%); background-size: 200% 200%;"></div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">Continuous</div> </div> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8           |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 9           |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 10          |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 11          |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 12          |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper | Inlet       |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Outlet      |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | X           |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Rem.        |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE Emitted (lb/hr)         |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |  |  |  |  |  |  |  |  |  |  |  |          |

Meter  
 7-8-86  
 8:00am  
 2,857.300  
  
 7-9-86  
 9:00am  
 3,042.60

Elapsed Time = 1500 min  
 Volume = 185306 gal  
 Flow Rate = 123.5 gpm  
 Perc Removal = 12.6% / day

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                     |          | DATE 7-10-86                |   |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 7-11-86 |                                                        |  |  |  |  |  |  |  |  |  |  | Comments |
|---------------------|----------|-----------------------------|---|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|--------------|--------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|----------|
|                     |          | 2                           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.         | Pumps On | 7                           |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              | <u>Mtd</u><br>7-10-86<br>8:30am<br>3,217,291<br>124gpm |  |  |  |  |  |  |  |  |  |  |          |
|                     |          | 8                           |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                     |          | 9                           |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                     |          | 10                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                     |          | 11                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                     |          | 12                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                     |          | Total Pumping Rate (gpm) #1 |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)           | Well     |                             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              | 7-11-86<br>9:30am<br>3,403,200<br>124gpm               |  |  |  |  |  |  |  |  |  |  |          |
|                     |          |                             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                     |          |                             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                     |          |                             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                     |          |                             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                     |          |                             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                     | Stripper | Inlet                       |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
| Outlet              |          |                             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
| % Rem.              |          |                             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |
| PCE Emitted (lb/hr) |          |                             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                        |  |  |  |  |  |  |  |  |  |  |          |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 7-12-86         |                                                                     |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 7-13-86 |                                                                                        |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|----------------------|---------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|--------------|----------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2                    | 4                                                                   | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.                 | Pumps On | 7                    | <div style="font-size: 2em; font-family: cursive;">Continuous</div> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              | <div style="font-size: 1.5em; font-family: cursive;">No readings Taken — Weekend</div> |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8                    |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 9                    |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 10                   |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 11                   |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 12                   |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |                      |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     |                      |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                      |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                      |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                      |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                      |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                      |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper | Inlet                |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Outlet               |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | % Rem.               |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | PCE Entitled (lb/hr) |                                                                     |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                                                                                        |  |  |  |  |  |  |  |  |  |  |          |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 7-14-86                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 7-15-86 |  |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|--------------|--|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2                                                                                                                          | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |              |  |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No. 1               | Pumps On | 7                                                                                                                          | <div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to bottom right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> </div> <p style="font-size: 2em; font-weight: bold; margin-top: 10px;">Continuous</p> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 9                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 10                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 11                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 12                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     | <p>Elapsed time = 1560 min</p> <p>Volume = 201,900 gal</p> <p>Flow Rate = 129 gpm</p> <p>PCE Mass Removal = 16.8 #/day</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper | Inlet                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Outlet                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | X                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Rem.                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE Effluent (lb/hr)        |          |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

7-14-86  
Meter  
8:15am  
3,879,300

Sample  
11:30am

7-15-86  
Meter  
10:15am  
4,081,200

## WAUSAU CHEMICAL EXTRACTION PROGRAM

|              |          | DATE 7-16-86 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 7-17-86 |  |  |  |  |  |  |  |  |  |  |  | Comments |
|--------------|----------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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|              |          | 2            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |              |  |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.1 | Pumps On | 7            | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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|   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |

- ```

*1 : Estimated pumping rate = 27 gpm/pump
*2 : Limited by max. pumping capacity of 150 gpm
*3 : Using initial concentration
*4 : Using final concentration

```

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 7-18-86												TIME (Hour)												DATE 7-19-86												Comments					
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24																		
Cluster No.:	Pumps On	7	Continuous OFF at 9:00am till 2:00pm ON																								7-18-86 meta 4,622,700 8:00am 1284 ₂ gpm																
		8																																									
		9																																									
		10																																									
		11																																									
		12																																									
Total Pumping Rate (gpm) #1																																											
PCE (ppm)	Well		Elapsed Time = 1500 min Volume = 192800 gal Flow Rate = 128.5 gpm Perc Removal = 5.03 #/day (Used 7-21 influent)																								7-19-86 9:00am 4,815,500																
	Stripper	Inlet																																									
Outlet																																											
% Rem.																																											
PCE Effluent (lb/hr)																																											

- *1 : Estimated pumping rate = 27 gpm/pump
- *2 : Limited by max. pumping capacity of 150 gpm
- *3 : Using initial concentration
- *4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

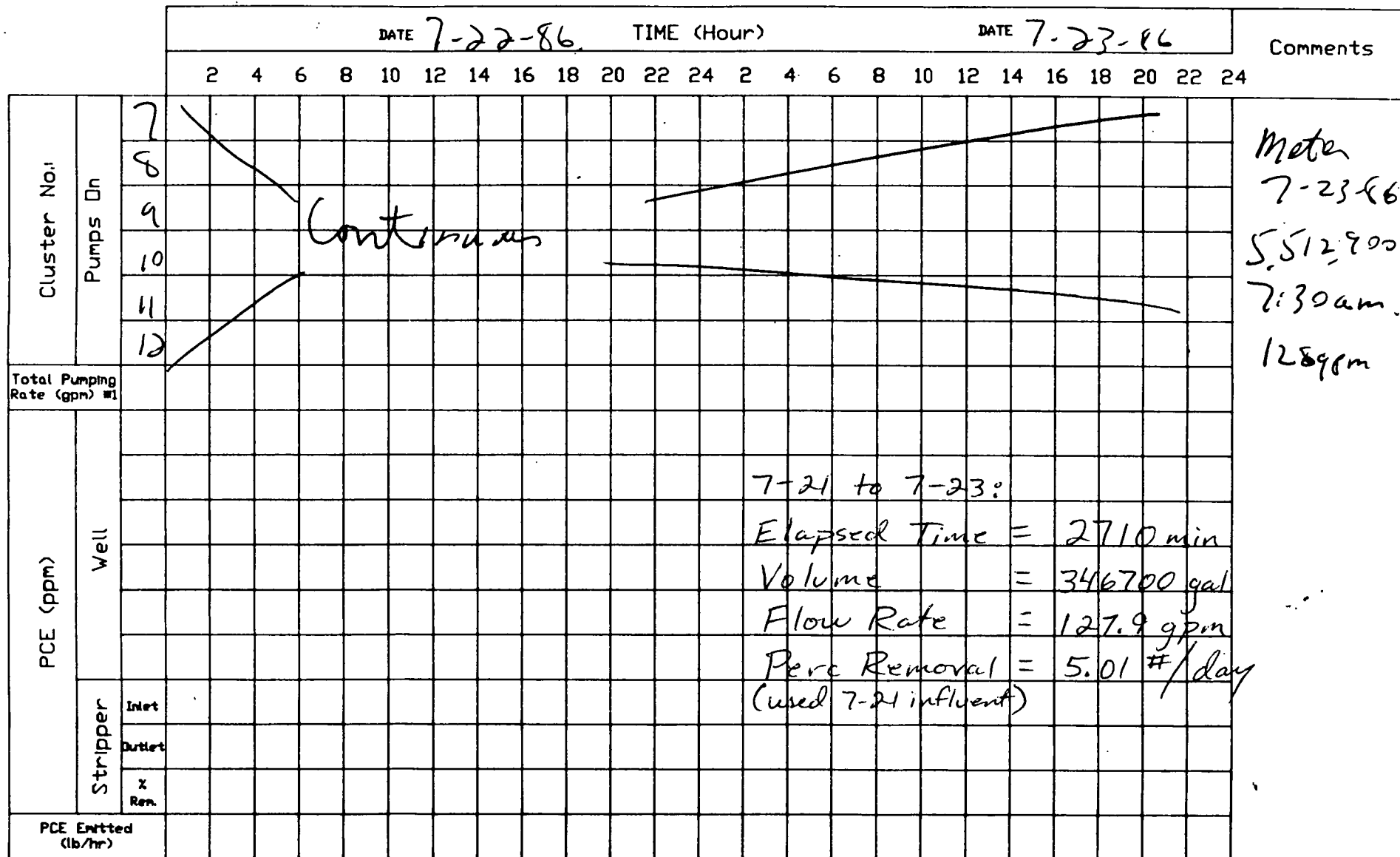
		DATE <u>7-20-86</u> TIME (Hour)												DATE <u>7-21-86</u>												Comments		
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24			
Cluster No.:	Pumps On	7																									No reading 7-20	
		8																										
		9																										
		10																										
		11																										
		12																										
Total Pumping Rate (gpm) #1																												
PCE (ppm)	Well	7-19 to 7-21: Elapsed Time = 2960 min Volume = 350700 gal Flow Rate = 118.5 gpm Perc Removal = 4.64 #/day (Used 7-21 influent)																										
	Stripper	Inlet																										
		Outlet																										
		% Rem.																										
		PCE Effluent (lb/hr)																										

meter
7-20-86
10:20am
5,166,200

Sample
1:45pm

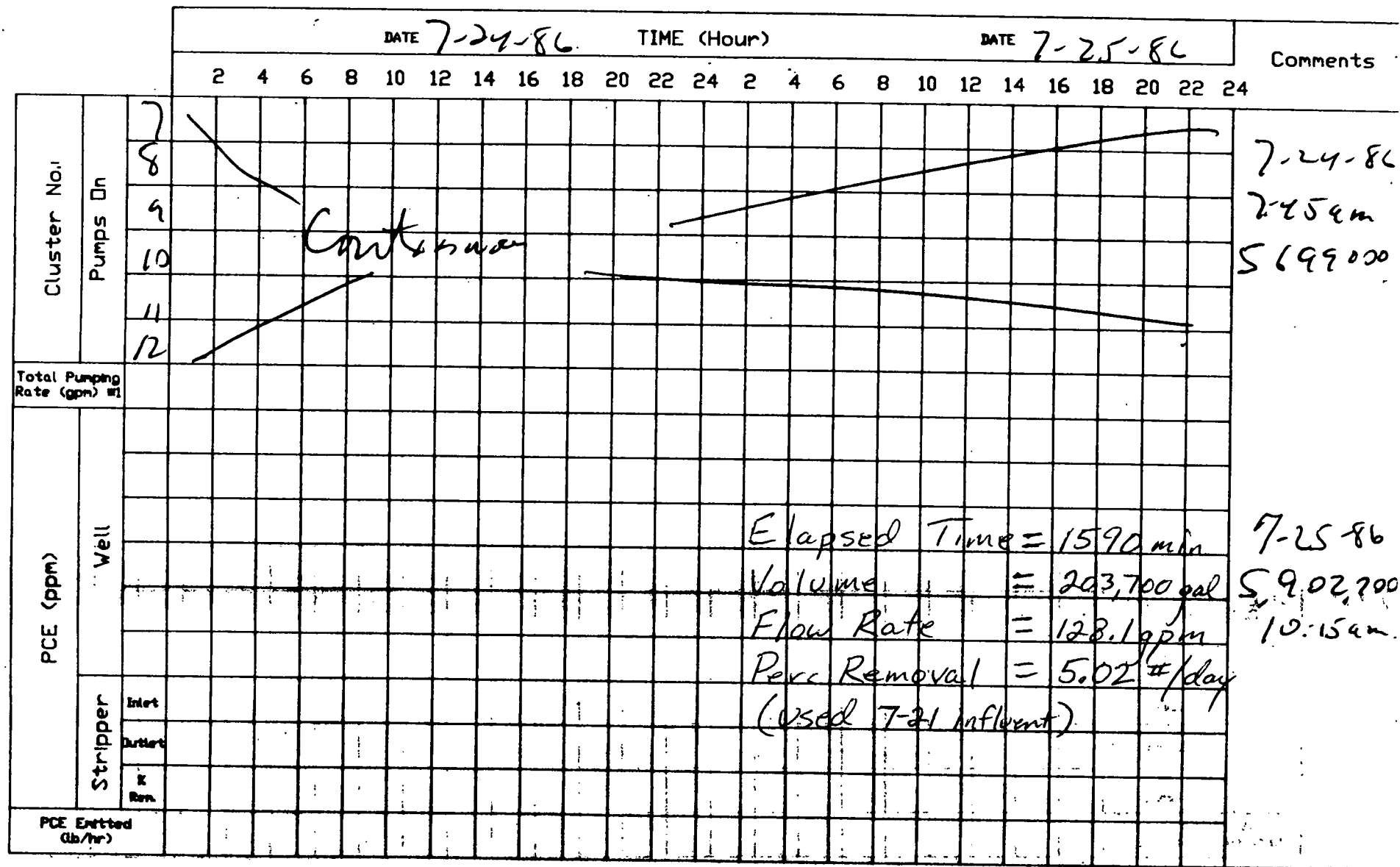
- *1 : Estimated pumping rate = 27 gpm/pump
- *2 : Limited by max. pumping capacity of 150 gpm
- *3 : Using initial concentration
- *4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM



- *1 : Estimated pumping rate = 27 gpm/pump
- *2 : Limited by max. pumping capacity of 150 gpm
- *3 : Using initial concentration
- *4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM



- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE <u>7-26-86</u>												TIME (Hour)												DATE <u>7-27-86</u>												Comments
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24													
Cluster No.	Pumps On	7	Continuous																																			
		8																																				
		9																																				
		10																																				
		11																																				
		12																																				
Total Pumping Rate (gpm) #1																																						
PCE (ppm)	Well																																					
	Stripper	Inlet																																				
		Outlet																																				
		% Rem.																																				
		PCE Effluent (lb/hr)																																				

No meta readings

- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 30 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 7-28-86												TIME (Hour)												DATE 7-29-86												Comments
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24													
Cluster No.	Pumps On	7	Continuous																								7-28-86 6,467,200 11:05 am <u>Sample 2</u> 11:30 am											
		8																																				
		9																																				
		10																																				
		11																																				
		12																																				
Total Pumping Rate (gpm) #1																																						
PCE (ppm)	Well																										Elapsed Time = 13.5 min Volume = 168400 gal Flow Rate = 128.1 gpm Perc Removal = 3.84 #/day (used 7-28 influent)	7-29-86 6,632,600 9:00 am										
	Stripper	Inlet																																				
		Outlet																																				
		X																																				
		Rem.																																				
PCE Effluent (lb/hr)																																						

- *1 : Estimated pumping rate = 27 gpm/pump
- *2 : Limited by max. pumping capacity of 150 gpm
- *3 : Using initial concentration
- *4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 7-30-86												TIME (Hour)												DATE 7-31-86												Comments
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24													
Cluster No.	Pumps On	7	Continuous																																			
		8																																				
		9																																				
		10																																				
		11																																				
		12																																				
Total Pumping Rate (gpm) #1																																						
PCE (ppm)	Well																																					
	Stripper	Inlet																																				
		Outlet																																				
		X																																				
		Rem.																																				
PCE Emitted (lb/hr)																																						

7-30-86
No Reading

7-31-86
 1.45 cm.
 7,041,100

(7-29 to 7-31):
 Elapsed Time = 3165 min
 Volume = 408,500 gal
 Flow Rate = 129.1 gpm
 Perc Removal = 3.87 #/day
 (used 7-28 influent)

- *1 : Estimated pumping rate = 27 gpm/pump
- *2 : Limited by max. pumping capacity of 150 gpm
- *3 : Using initial concentration
- *4 : Using final concentration

MAWAUSAU1CHEMICAL3 EXTRACTION PROGRAM

TIME

DATE

8-1-86

TIME (Hour)

DATE

8-2-86

Comments

2 4 6 8 10 12 14 16 18 20 22 24 2 4 6 8 10 12 14 16 18 20 22 24

Cluster No.

Pumps On

7
8
9
10
11
12

Continuous

8-1-86

8-0-0-0

152,100

Total Pumping Rate (gpm) @

PCE (gpm)

118A

118B

PCE (gpm)

(7-31 to 8-1):

Elapsed Time = 1095 min

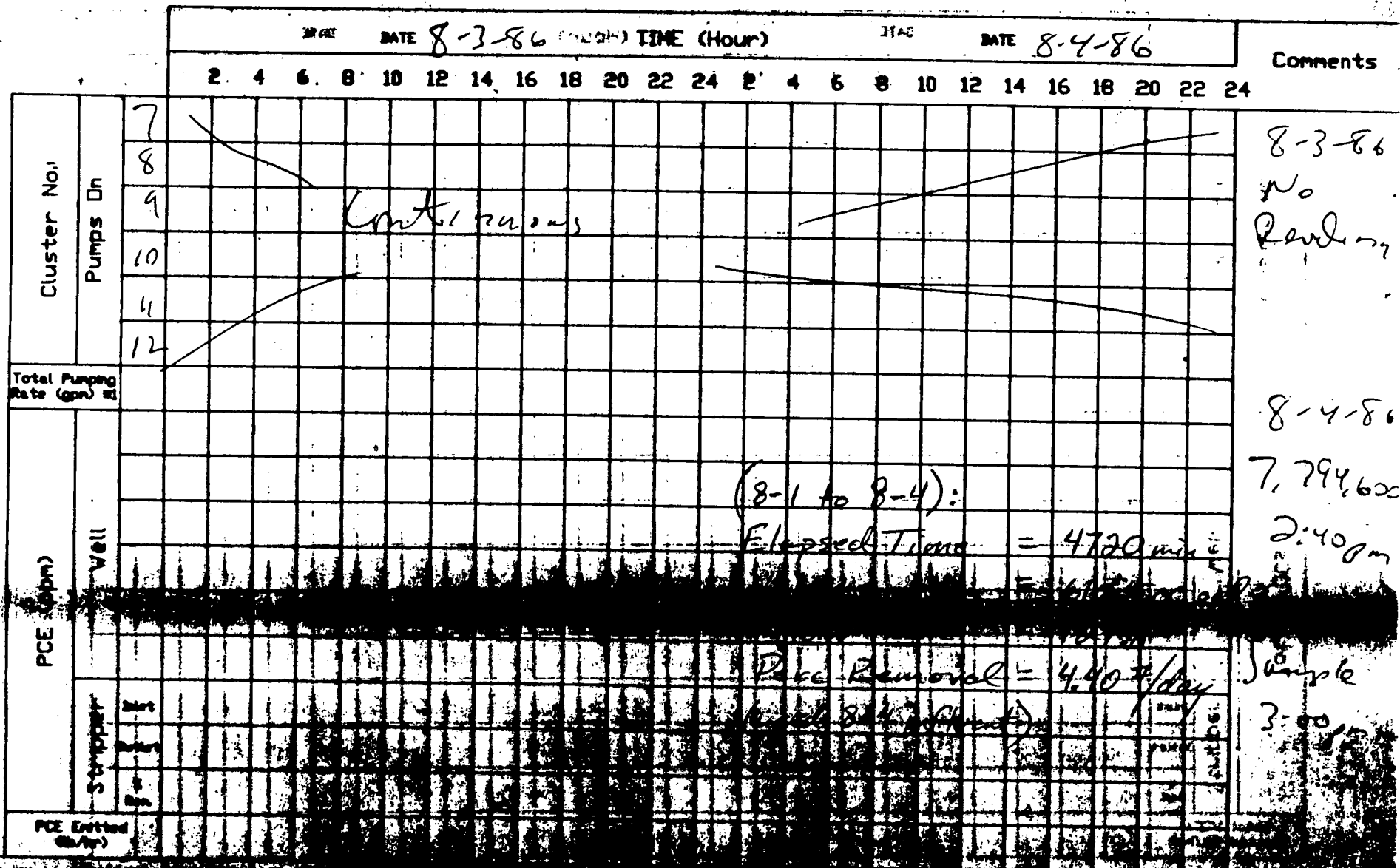
Volume = 118.8 gal

Flow Rate = 108.8 gpm

Pore Removal = 3.86 #/day

(based on 2.28 inch)

MAWADSAU CHEMICAL EXTRACTION PROGRAM



WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 8-5-86 TIME (Hour)												DATE 8-6-86												Comments	
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24		
Cluster No.	Pumps On	7																									8-5-86 No Reading
		8																									
		9																									
		10																									
		11																									
		12																									
Total Pumping Rate (gpm) #1																										8-6-86	
PCE (ppm)	Well																										(8-4 to 8-6): Elapsed Time = 2900 min Volume = 37720 gal PCE = 13000 ppm Perc Removal = 4.42 #/day (used 8-4 as influent)
Stripper	☐ Inlet ☐ Outlet ☐ #1 ☐ #2																										
PCE Stripped (lb/hr)																											

#1 : Influent Concentration

#2 : Effluent Concentration

#4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 8-7-86												TIME (Hour)												DATE 8-8-86												Comments
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24													
Cluster No.:	Pumps On	7	Continuation																																			
		8																																				
		9																																				
		10																																				
		11																																				
		12																																				
Total Pumping Rate (gpm) #1																										8-8-86 2.2 gpm 8,539.31												
PCE (ppm)	Well	(8-6 to 8-8): Elapsed Time = 2820 min Volume = 367000 gal Flow Rate = 130.1 gpm Perc Removal = 4.41 #/day (used 8-4 results)																																				
Stripper	Inlet																																					
	Outlet																																					
	% Rem.																																					
PCE Emitted (lb/hr)																																						

- *1 : Estimated pumping rate = 27 gpm/pump
- *2 : Limited by max. pumping capacity of 150 gpm
- *3 : Using initial concentration
- *4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE <u>8-9-86</u> TIME (Hour)												DATE <u>8-10-86</u>												Comments	
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24		
Cluster No.1	Pumps On	7																									
		8																									
		9																									
		10																									
		11																									
		12																									
Total Pumping Rate (gpm) #1																											
PCE (ppm)	Well																										
Stripper	Inlet																										
	Outlet																										
	X Rem.																										
PCE Entered (lb/hr)																											

- *1 : Estimated pumping rate = 27 gpm/pump
- *2 : Limited by max. pumping capacity of 150 gpm
- *3 : Using initial concentration
- *4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 8-11-86												TIME (Hour)												DATE 8-12-86												Comments
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24													
Cluster No.	Pumps On	7	8-11-86 3:00 pm 9,061,300																																			
		8																																				
		9																																				
		10																																				
		11																																				
		12																																				
Total Pumping Rate (gpm) in																																						
PCE (ppm)	Well	(8-8 to 8-11):												(8-11 to 8-12):																								
		Elapsed Time = 4380 min												Elapsed Time = 990 min																								
		Volume = 522,000 gal												Volume = 183400 gal																								
		Flow Rate = 119.2												Flow Rate = 185.3 gpm																								
		Perc Removal = 3.53%/day												Perc Removal = X																								
		(used 8-12 results)												(used 8-12 results)																								
Stripper	Inlet																																					
	Outlet																																					
	X																																					
	Rem.																																					
PCE Emitted (lb/hr)																																						

- 1 : Estimated pumping rate = 27 gpm/pump
- 2 : Limited by max. pumping capacity of 150 gpm
- 3 : Using initial concentration
- 4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

[illegible]

- ```

*1 : Estimated pumping rate = 27 gpm/pump
*2 : Limited by max. pumping capacity of 150 gpm
*3 : Using initial concentration
*4 : Using final concentration

```

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 8-15-86                                                                                                                                                               |   |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 8-16-86 |                               |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|--------------|-------------------------------|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2                                                                                                                                                                          | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |              |                               |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.:                | Pumps On | 7                                                                                                                                                                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              | 8-15-86<br>9:30am<br>9827,000 |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8                                                                                                                                                                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 9                                                                                                                                                                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 10                                                                                                                                                                         |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 11                                                                                                                                                                         |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 12                                                                                                                                                                         |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |                                                                                                                                                                            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     | <p>(8-13 to 8-15):</p> <p>Elapsed Time = 2910 min</p> <p>Volume = 382200 gal</p> <p>Flow Rate = 131.34 gpm</p> <p>Perc Removal = 3.89 #/day</p> <p>(used 8-12 results)</p> |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper | Inlet                                                                                                                                                                      |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Outlet                                                                                                                                                                     |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | X                                                                                                                                                                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Rem.                                                                                                                                                                       |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |
| PCE Entered (lb/hr)         |          |                                                                                                                                                                            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |                               |  |  |  |  |  |  |  |  |  |  |          |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 8-17-86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 8-18-86 |  |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|--------------|--|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |              |  |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.                 | Pumps On | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> <div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to bottom right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> </div> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpn) #1 |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     | <div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> <div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to bottom right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> </div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper | Inlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Outlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Rem.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE Emitted (lb/hr)         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |

8-18  
12:00 am  
10417600

(8-15 to 8-18):  
 Elapsed Time = 4470 min  
 Volume = 590600 gal  
 Flow Rate = 132.1 gpm  
 Perc Removal = 4.39 #/day  
 (used 8-20 results)

- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 8-19-86                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    | TIME (Hour) |    |    |    |    |    |  |  | DATE 8-20-86 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|---|---|---|---|----|----|-------------|----|----|----|----|----|--|--|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4                                                                                                                                                                  | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2 | 4 | 6 | 8 | 10 | 12 | 14          | 16 | 18 | 20 | 22 | 24 |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.                 | Pumps On | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <div style="display: flex; justify-content: space-around;"> <div> <p>ON</p> <p>F</p> <p>F</p> <p>7:30</p> <p>11:00</p> </div> <div> <p>Continuum</p> </div> </div> |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     | <div style="display: flex; justify-content: space-between;"> <div> <p>(8-18 to 8-19):</p> <p>Elapsed Time = 1170 min</p> <p>Volume = 153800 gal</p> <p>Flow Rate = 131.5 gpm</p> <p>Perc Removal = 4.37 #/day</p> <p>(used 8-20 results)</p> </div> <div> <p>(8-19 to 8-20):</p> <p>Elapsed Time = 1410 min</p> <p>Volume = 183000 gal</p> <p>Flow Rate = 129.8 gpm</p> <p>Perc Removal = 4.31 #/day</p> <p>(used 8-20 results)</p> </div> </div> |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper | Inlet                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Outlet                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | % Rem.                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | PCE Entered (lb/hr)                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                    |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |             |    |    |    |    |    |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

8-19  
7:30am  
10571400

8-20  
10784400  
10:30am  
X PIC  
Taken  
8-20-86

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE <u>8-21-86</u> TIME (Hour)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |   |   |    |    |    |    |    |    |    |    | DATE <u>8-27-86</u> |   |   |   |    |    |    |    |    |    |    |    | Comments                                            |                                                   |
|-----------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|---------------------|---|---|---|----|----|----|----|----|----|----|----|-----------------------------------------------------|---------------------------------------------------|
|                             |          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4                                                       | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2                   | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |                                                     |                                                   |
| Cluster No.:                | Pumps On | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <div style="position: relative; height: 100px;"> </div> |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     | <u>8-21-86</u><br><u>8:30am</u><br><u>1092500</u> |
|                             |          | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
|                             |          | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
|                             |          | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
|                             |          | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
|                             |          | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
| Total Pumping Rate (gpm) #1 |          | <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>(8-20 to 8-21):</p> <p>Elapsed Time = 1320 min</p> <p>Volume = 170600 gal</p> <p>Flow Rate = 129.2 gpm</p> <p>Perc Removal = 4.29 #/day</p> <p>(used 8-20 results)</p> </div> <div style="width: 48%;"> <p>(8-21 to 8-22):</p> <p>Elapsed Time = 1590 min</p> <p>Volume = 206700 gal</p> <p>Flow Rate = 130 gpm</p> <p>Perc Removal = 4.32 #/day</p> <p>(used 8-20 results)</p> </div> </div> |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    | <u>8-27-86</u><br><u>11:00am</u><br><u>11131700</u> |                                                   |
| PCE (ppm)                   | Well     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
|                             | Stripper | Inlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
|                             |          | Outlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
|                             |          | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
|                             |          | Rem.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |
| PCE Emitted (lb/hr)         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |                                                     |                                                   |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 8-23-86 TIME (Hour) |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    | DATE 8-24-86 |   |   |   |    |    |    |    |    |    |    |    | Comments |  |
|-----------------------------|----------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|--------------|---|---|---|----|----|----|----|----|----|----|----|----------|--|
|                             |          | 2                        | 4                                                                                                                                                                               | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2            | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |          |  |
| Cluster No.:                | Pumps On | 7                        | Sometime over weekend control<br>box shorted out & burned out wiring<br>which shut system down.<br>Discovered Monday morning 8-25-86<br>about 10:00am. Meter reading 11,230,400 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 8                        |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 9                        |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 10                       |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 11                       |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 12                       |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| Total Pumping Rate (gpm) #1 |          |                          |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| PCE (ppm)                   | Well     |                          |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                          |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                          |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                          |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                          |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                          |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             | Stripper | Inlet                    |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | Outlet                   |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | X                        |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | Res.                     |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| PCE Emitted (lb/hr)         |          |                          |                                                                                                                                                                                 |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |                      | DATE 8-25-86 TIME (Hour) |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    | DATE 8-26-86 |   |   |   |    |    |    |    |    |    |    |    | Comments |  |
|-----------------------------|----------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|--------------|---|---|---|----|----|----|----|----|----|----|----|----------|--|
|                             |                      | 2                        | 4                                                                                                                                                                                                                                                                                                            | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2            | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |          |  |
| Cluster No.                 | Pumps On             | 7                        | <div style="position: relative; width: 100%; height: 100%;"> <p style="font-size: 2em; opacity: 0.5; position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);">Down for Repair</p> <p style="font-size: 2em; opacity: 0.5; position: absolute; top: 30%; left: 70%;">Continuous</p> </div> |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      | 8                        |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      | 9                        |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      | 10                       |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      | 11                       |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      | 12                       |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| Total Pumping Rate (gpm) #1 |                      |                          |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| PCE (ppm)                   | Well                 |                          |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      |                          |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      |                          |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      |                          |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      |                          |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| Stripper                    | Inlet                |                          |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             | Outlet               |                          |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             | % Rem.               |                          |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             | PCE Effluent (lb/hr) |                          |                                                                                                                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |

Start up  
10:00 am  
11,230,40

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 8-27-86                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 8-28-86 |  |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|--------------|--|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                                                                                                                                                                              | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |              |  |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No:                 | Pumps On | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <div style="position: relative; height: 100px;"> <span style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; font-size: 4em; opacity: 0.3;">Continues</span> </div> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     | <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>(8-26 to 8-27):</p> <p>Elapsed Time = 1680 min</p> <p>Volume = 213100 gal</p> <p>Flow Rate = 126.8 gpm</p> <p>Perc Removal = 3.35 #/day</p> <p>(used 8-27 results)</p> </div> <div style="width: 48%;"> <p>(8-27 to 8-28):</p> <p>Elapsed Time = 1305 min</p> <p>Volume = 168100 gal</p> <p>Flow Rate = 128.8 gpm</p> <p>Perc Removal = 3.41 #/day</p> <p>(used 8-27 results)</p> </div> </div> |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper | Inlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Outlet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | X Rem.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | PCE Entitled (lb/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

8-27-86  
2:00pm  
11,443.500  
Samples  
Taken  
1:30 pm  
Influent  
effluent  
Well #1's  
10, 11, 12  
  
8-28-86  
11611600  
11:45am

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 8-29-86                                                                                                                                   |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 8-30-86                          |                                            |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|---------------------------------------|--------------------------------------------|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2                                                                                                                                              | 4                                                                                                                                                                                                                                                                                                                             | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.                 | Pumps On | 7                                                                                                                                              | <div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; border-radius: 50%; opacity: 0.5;"></div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">Continue</div> </div> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       | 8-29<br><u>Metan</u><br>3:30pm<br>11826100 |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8                                                                                                                                              |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 9                                                                                                                                              |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 10                                                                                                                                             |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 11                                                                                                                                             |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 12                                                                                                                                             |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     | (8-28 to 8-29):<br>Elapsed Time = 1665 min<br>Volume = 214500 gal<br>Flow Rate = 128.8 gpm<br>Perc Removal = 3.87 %/day<br>(used 8-29 results) |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    | Samples<br>Taken<br>8-29-86<br>4:00pm |                                            |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper | Inlet                                                                                                                                          |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Outlet                                                                                                                                         |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | X                                                                                                                                              |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Rem.                                                                                                                                           |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |
| PCE Entitled (lb/hr)        |          |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                               |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                       |                                            |  |  |  |  |  |  |  |  |  |  |          |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |                      | DATE 8-31-86 TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 9-1-86 |   |   |   |    |    |    |    |    |    |    |    | Comments |  |
|-----------------------------|----------------------|--------------------------|---|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|----------|--|
|                             |                      | 2                        | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |          |  |
| Cluster No.:                | Pumps On             | 7                        |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      | 8                        |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      | 9                        |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      | 10                       |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      | 11                       |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      | 12                       |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
| Total Pumping Rate (gpm) #1 |                      |                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
| PCE (ppm)                   | Well                 |                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      |                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      |                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      |                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      |                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      |                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             | Stripper             | Inlet                    |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      | Outlet                   |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |                      | X Ren.                   |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             | PCE Entitled (lb/hr) |                          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |  |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 9-2-86                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    | TIME (Hour) |    |   |   |   |   |    |    |    |    | DATE 9-3-86 |    |    |    |  |                                    |  |  |  |  | Comments |
|-----------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|-------------|----|---|---|---|---|----|----|----|----|-------------|----|----|----|--|------------------------------------|--|--|--|--|----------|
|                             |          | 2                                                                                                                                             | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22          | 24 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18          | 20 | 22 | 24 |  |                                    |  |  |  |  |          |
| Cluster No. 1               | Pumps On | 7                                                                                                                                             | <div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> <div style="position: absolute; top: 0; left: 50%; width: 50%; height: 100%; border: 1px solid black; background: linear-gradient(to bottom right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> </div> |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  | 9-2-86<br>12,544,50<br><u>noon</u> |  |  |  |  |          |
|                             |          | 8                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
|                             |          | 9                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
|                             |          | 10                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
|                             |          | 11                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
|                             |          | 12                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
| PCE (ppm)                   | Well     | (8-29 to 9-2):<br>Elapsed Time = 5550 min<br>Volume = 718400 gal<br>Flow Rate = 129.4 gpm<br>Perc Removal = 3.88 #/day<br>(used 8-29 results) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
|                             |          |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
|                             |          |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
|                             |          |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
|                             |          |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
|                             |          |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
|                             | Stripper | Inlet                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
|                             |          | Outlet                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
|                             |          | X                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
|                             |          | Rem.                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |
| PCE Entered (lb/hr)         |          |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |             |    |    |    |  |                                    |  |  |  |  |          |

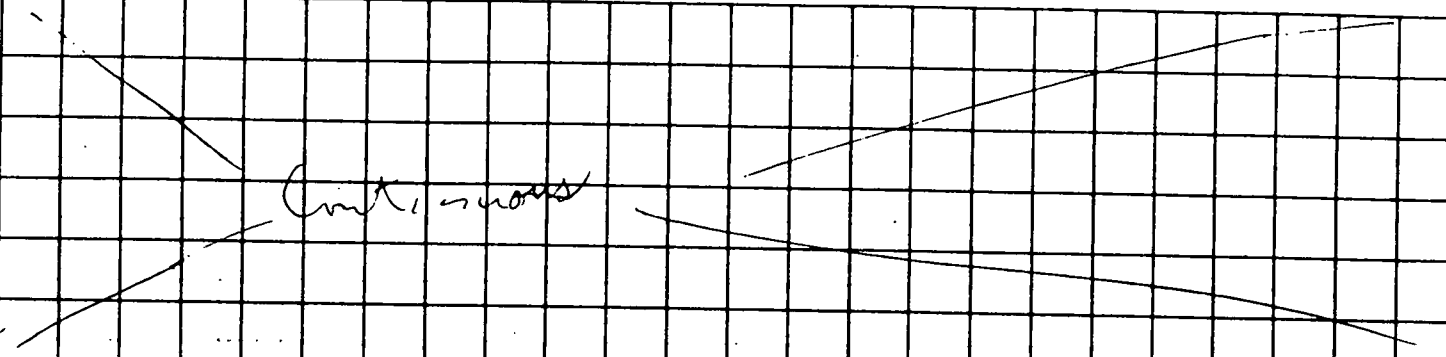
- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 9-4-86 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 9-5-86 |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2           | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.                 | Pumps On | 7           | <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; transform: rotate(45deg);"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; transform: rotate(-45deg);"></div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">Continuous</div> </div> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 9           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 10          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 11          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 12          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             | <p>(9-2 to 9-4) :</p> <p>Elapsed Time = 2760 min</p> <p>Volume = 358800 gal</p> <p>Flow Rate = 130.0 gpm</p> <p>Perc Removal = 3.90 %/day</p> <p>(used 8-29 results)</p> |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper | Inlet       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Outlet      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | X           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Rem.        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |
| PCE Entered (lb/hr)         |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |          |

- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 9-6-86                                                                                                                                                    |                                                                                    |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 9-7-86 |                               |  |  |  |  |  |  |  |  |  |  | Comments |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|-------------|-------------------------------|--|--|--|--|--|--|--|--|--|--|----------|--|--|--|--|--|--|--|--|--|--|--|--|
|                             |          | 2                                                                                                                                                              | 4                                                                                  | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |             |                               |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |
| Cluster No.                 | Pumps On | 7                                                                                                                                                              |  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             | 9-6-86<br>9.00am<br>13,272.70 |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |
|                             |          | 8                                                                                                                                                              |                                                                                    |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                               |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |
|                             |          | 9                                                                                                                                                              |                                                                                    |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                               |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |
|                             |          | 10                                                                                                                                                             |                                                                                    |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                               |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |
|                             |          | 11                                                                                                                                                             |                                                                                    |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                               |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |
|                             |          | 12                                                                                                                                                             |                                                                                    |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                               |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Pumping Rate (gpm) #1 |          |                                                                                                                                                                |                                                                                    |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                               |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |
| PCE (ppm)                   | Well     | <p>(9-4 to 9-6):</p> <p>Elapsed Time = 2820 min</p> <p>Volume = 369400 gal</p> <p>Flow Rate = 130.0 gpm</p> <p>Perc Removal = 7</p> <p>(no recent results)</p> |                                                                                    |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                               |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |
|                             |          |                                                                                                                                                                |                                                                                    |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    | Stripper    | Inlet                         |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |
|                             |          |                                                                                                                                                                |                                                                                    |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             | Outlet                        |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |
|                             |          |                                                                                                                                                                |                                                                                    |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             | 2 Rem.                        |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |
|                             |          |                                                                                                                                                                |                                                                                    |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             | PCE Entered (lb/hr)           |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |

- #1 : Estimated pumping rate = 27 gpm/pump  
 #2 : Limited by max. pumping capacity of 150 gpm  
 #3 : Using initial concentration  
 #4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 9-8-86 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 9-9-86 |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|-------------|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2           | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.:                | Pumps On | 7           | <div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to bottom right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> </div> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             | 9-8-86<br>8:30 am<br>13,657,400                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 9           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 10          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 11          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 12          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             | (9-6 to 9-8):<br>Elapsed Time = 2850 min<br>Volume = 384700 gal<br>Flow Rate = 135.0 gpm<br>Perc Removal = 7<br>(no recent results) |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper | Inlet       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Outlet      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | X           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Rem.        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |
| PCE Entered (lb/hr)         |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |             |                                                                                                                                     |  |  |  |  |  |  |  |  |  |  |          |

- #1 : Estimated pumping rate = 27 gpm/pump  
 #2 : Limited by max. pumping capacity of 150 gpm  
 #3 : Using initial concentration  
 #4 : Using final concentration

## WAUSAU CHEMICAL EXTRACTION PROGRAM

[illegible]

- ```

#1 : Estimated pumping rate = 27 gpm/pump
#2 : Limited by max. pumping capacity of 150 gpm
#3 : Using initial concentration
#4 : Using final concentration

```

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 9-12-86												TIME (Hour)												DATE 9-13-86												Comments
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24													
Cluster No.	Pumps On	7	Contaminant																																			
		8																																				
		9																																				
		10																																				
		11																																				
		12																																				
Total Pumping Rate (gpm) #1																																						
PCE (ppm)	Well	(9-10 to 9-12): Elapsed Time = 3180 min Volume = 414500 gal Flow Rate = 130.3 gpm Perc Removal = , (no recent results)																																				
	Stripper	Inlet																																				
		Outlet																																				
		% Rem.																																				
	PCE Emitted (lb/hr)																																					

- *1 : Estimated pumping rate = 27 gpm/pump
- *2 : Limited by max. pumping capacity of 150 gpm
- *3 : Using initial concentration
- *4 : Using final concentration

9-12-86
 14,503.50
 3:15 pm



STS Consultants Ltd.
Green 895 100
240 Lamson St
A1A 1A4-1005

RECORD OF PHONE CALL

JOB NO.

1 D466B

DATE

7-26-86

START

10:30

FINISH

TO

A.H.P.

FROM

MDM

CONVERSATION

ME

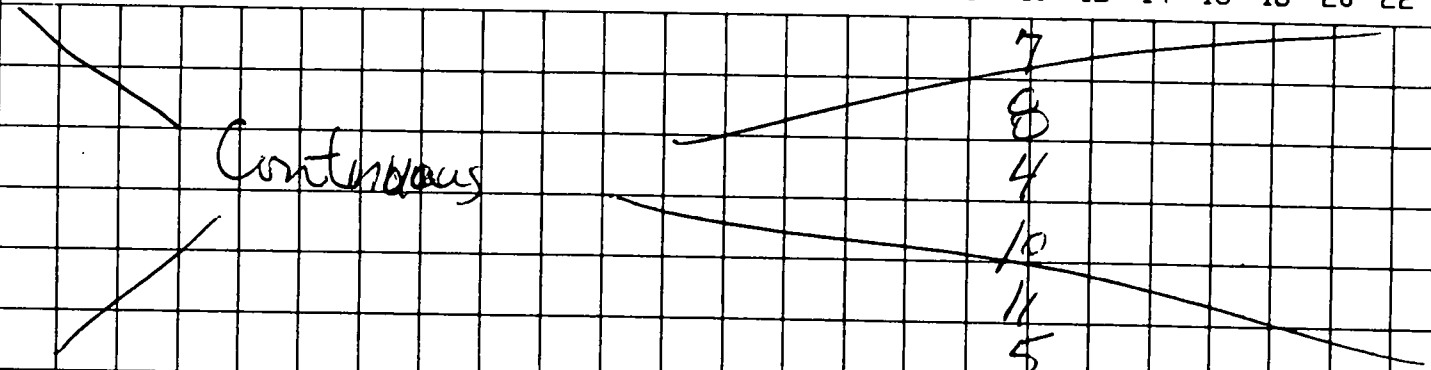
OTHER PARTY

Why no data from 9-15 to 9-20

system ran continuously
but it didn't take any
readings
moved two pumps on
9-20. those 2 pumps
were shut off for 1.5
to 2 hrs but everything
else ran continuously
with a stop just for
maintenance winter

REMARKS / ACTION

WAUSAU CHEMICAL EXTRACTION PROGRAM

						DATE 9-14-86												TIME (Hour)												DATE 9-20-86												Comments
						2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24													
Cluster No.	Pumps On	7																									9-20-86 16,041,20 10:00a. Pumps in wells # 9 & 12 moved To Well #8 4 & 5. =															
		8																																								
		9																																								
		10																																								
		11																																								
		12																																								
Total Pumping Rate (gpm) #1																																										
PCE (ppm)	Well	(9-12 to 9-20): Elapsed Time = 11205 min Volume = 1537700 gal Flow Rate = 137.2 gpm Perc Removal = (no recent results)																																								
	Stripper	Inlet																																								
Outlet																																										
% Rem.																																										
PCE Entitled (lb/hr)																																										

- ```

*1 : Estimated pumping rate = 27 gpm/pump
*2 : Limited by max. pumping capacity of 150 gpm
*3 : Using initial concentration
*4 : Using final concentration

```





RECEIVED JUN 27 1986

June 26, 1986

Wausau Chemical  
2001 N. River Drive  
Wausau, WI 54401

Attn: Art Flashinski

Re: VOC Analysis

Attached are the results for samples taken June 24,  
1986. EPA Method 601 was used to complete the analysis.

If you have any questions, please call.

Sincerely,

ZIMPRO INC.

*Mary C. Christie Heuser*  
Mary C. Christie Heuser  
Instrumentation Chemist

MCCH/lb

cc: J.W. Barr  
J.R. Salkowski

Wausau Chemical  
 VOC Analysis (ug/l)

|                       | <u>Effluent</u><br><u>6-24-86</u> |
|-----------------------|-----------------------------------|
| Chloroform            | <5.                               |
| 1,1-Dichlorethane     | <5.                               |
| 1,1-Dichloroethylene  | <25.                              |
| 1,2-Dichloroethylene  | 230.                              |
| Ethylbenzene          | 16.                               |
| 1,1,1-Trichloroethane | 10.                               |
| Vinyl Chloride        | <100.                             |
| Analytical No.        | 19606                             |

|                       | <u>Influent</u><br><u>6-24-86</u> |
|-----------------------|-----------------------------------|
| Chloroform            | <10.                              |
| 1,1-Dichlorethane     | <10.                              |
| 1,1-Dichloroethylene  | <50.                              |
| 1,2-Dichloroethylene  | 1,180.                            |
| Ethylbenzene          | 330.                              |
| 1,1,1-Trichloroethane | 90.                               |
| Vinyl Chloride        | <200.                             |
| Analytical No.        | 19605                             |

| <u>Sample</u> | <u>Date</u> | <u>Perc</u> | <u>Analytical No.</u> |
|---------------|-------------|-------------|-----------------------|
| Influent      | 6-27-86     | 7,700.      | 19715                 |
| Effluent      | 6-27-86     | 1,350.      | 19716                 |
| Influent      | 6-30-86     | 6,300.      | 19731                 |
| Effluent      | 6-30-86     | 1,050.      | 19732                 |

Wausau Chemical  
VOC Analysis (ug/l)

|                               | <u>Influent</u><br><u>6-24-86</u> | <u>Effluent</u><br><u>6-24-86</u> |
|-------------------------------|-----------------------------------|-----------------------------------|
| Perc                          | 9,360.                            | 1,475.                            |
| Toluene                       | 3,400.                            | 550.                              |
| TCE                           | 1,680.                            | 360.                              |
| m-Xylene                      | 450.                              | 77.                               |
| o & p-Xylene<br>(as o-Xylene) | 560.                              | 136.                              |
| Analytical No.                | 19605                             | 19606                             |



RECEIVED JUL 14 1986

July 11, 1986

Wausau Chemical Corp.  
2001 N. River Drive  
Wausau, WI 54401

Attn: Art Flashinski

Re: VOC Analysis

Attached are the results for the July 7, 1986 water samples. EPA Method 601 was used to complete the analysis.

|                | Influent | Effluent |
|----------------|----------|----------|
| Perc (ug/l)    | 5,290.   | 815.     |
| Analytical No. | 19830    | 19831    |

If you have any questions, please call.

Sincerely,

ZIMPRO INC.

*Mary C. Christie Heuser*

Mary C. Christie Heuser  
Instrumentation Chemist

MCCH/lr

cc: J.W. Barr  
J.R. Salkowski



RECEIVED JUL 21 1986

July 18, 1986

Wausau Chemical Corp.  
2001 N. River Drive  
Wausau, WI 54401

Attn: Art Flashinski

Re: VOC Analysis

Listed below are the results for the July 14, 1986 water samples. EPA Method 601 was used to complete the analysis.

|                | Influent | Effluent |
|----------------|----------|----------|
| Perc (ug/l)    | 5,150.   | 770.     |
| Analytical No. | 19991    | 19992    |

If you have any questions, please call.

Sincerely,

ZIMPRO INC.

*Mary C. Christie Heuser*

Mary C. Christie Heuser  
Instrumentation Chemist

MCCH/lis

cc: J.W. Barr  
J.R. Salkowski

Wausau Chemical  
VOC Analysis (ug/l)

|                       | <u>Detection<br/>Limit</u> | <u>Influent<br/>7-21-86</u> |
|-----------------------|----------------------------|-----------------------------|
| Chloroform            | 10                         | 30                          |
| 1,1-Dichlorethane     | 10                         | X                           |
| 1,1-Dichloroethylene  | 50                         | X                           |
| 1,2-Dichloroethylene  | 30                         | 130                         |
| Ethylbenzene          | 20                         | X                           |
| Tetrachloroethylene   | 10                         | 3,870                       |
| Toluene               | 10                         | 20                          |
| 1,1,1-Trichloroethane | 10                         | 10                          |
| Trichloroethylene     | 10                         | 490                         |
| Vinyl Chloride        | 200                        | X                           |
| Analytical No.        |                            | 20159                       |

X = Analyzed but not detected

Wausau Chemical  
VOC Analysis (ug/l)

|                       | <u>Detection<br/>Limit</u> | <u>Effluent<br/>7-21-86</u> |
|-----------------------|----------------------------|-----------------------------|
| Chloroform            | 5                          | 15                          |
| 1,1-Dichlorethane     | 5                          | X                           |
| 1,1-Dichloroethylene  | 25                         | X                           |
| 1,2-Dichloroethylene  | 15                         | 35                          |
| Ethylbenzene          | 10                         | X                           |
| Tetrachloroethylene   | 5                          | 605                         |
| Toluene               | 5                          | X                           |
| 1,1,1-Trichloroethane | 5                          | X                           |
| Trichloroethylene     | 5                          | 80                          |
| Vinyl Chloride        | 100                        | X                           |
| Analytical No.        |                            | 20160                       |

X = Analyzed but not detected

RECEIVED AUG 18 1986



August 15, 1986

Wausau Chemical Corp.  
2001 N. River Drive  
Wausau, WI 54401

Attn: Jim Cherwinka

Re: VOC Analysis

Attached are the results for the July 28 - August 12, 1986 water samples. EPA Method 601 was used for the analysis.

If you have any questions, please call.

Sincerely,

ZIMPRO INC.

*Mary C. Christie Heuser*

Mary C. Christie Heuser  
Instrumentation Chemist

MCCH/lb

cc: J.W. Barr  
J.R. Salkowski

Wausau Chemical  
VOC Analysis (ug/l)

| <u>Sample</u> | <u>Date</u> | <u>Perc</u> | <u>Analytical No.</u> |
|---------------|-------------|-------------|-----------------------|
| Influent      | 7-28-86     | 2,840       | 20366                 |
| Effluent      | 7-28-86     | 345         | 20367                 |
| Influent      | 8-4-86      | 3,240       | 20580                 |
| Effluent      | 8-4-86      | 410         | 20581                 |
| Influent      | 8-12-86     | 2,810       | 20758                 |
| Effluent      | 8-12-86     | 340         | 20759                 |



RECEIVED SEP 4 1986

September 3, 1986

Wausau Chemical Corp.  
2001 N. River Drive  
Wausau, WI 54401

Attn: Art Flashinski

Re: VOC Analysis

Attached are the results for August 20, 1986 water samples. The analysis was done according to EPA Method 601.

If you have any questions, please call.

Sincerely,

ZIMPRO INC.

Mary C. Christie Heuser  
Instrumentation Chemist

MCCH/lis

cc: J.W. Barr  
J.R. Salkowski

Wausau Chemical  
VOC Analysis (ug/l)

|                       | <u>Detection<br/>Limit</u> | <u>Effluent<br/>8-20-86</u> | <u>Influent<br/>8-20-86</u> |
|-----------------------|----------------------------|-----------------------------|-----------------------------|
| Chloroform            | 5                          | 5                           | 10                          |
| 1,1-Dichlorethane     | 5                          | X                           | X                           |
| 1,1-Dichloroethylene  | 25                         | X                           | X                           |
| 1,2-Dichloroethylene  | 15                         | 20                          | 120                         |
| Ethylbenzene          | 10                         | X                           | X                           |
| Tetrachloroethylene   | 5                          | 370                         | 3,140                       |
| Toluene               | 5                          | X                           | X                           |
| 1,1,1-Trichloroethane | 5                          | X                           | 10                          |
| Trichloroethylene     | 5                          | 45                          | 390                         |
| Vinyl Chloride        | 100                        | X                           | X                           |
| Analytical No.        |                            | 21050                       | 21049                       |

X = Analyzed but not detected



RECEIVED SEP 8 1986

September 5, 1986

Wausau Chemical Corp.  
2001 N. River Drive  
Wausau, WI 54401

Attn: Art Flashinski

Re: VOC Analysis

Attached are the results for August 27, 1986 water samples. The analysis was done according to EPA Method 601.

If you have any questions, please call.

Sincerely,

ZIMPRO INC.

Mary C. Christie Heuser  
Instrumentation Chemist

MCCH/lrs

cc: J.W. Barr  
J.R. Salkowski

Wausau Chemical  
VOC Analysis (ug/l)

|                     | <u>Well #10</u><br><u>8-27-86</u> | <u>Well #11</u><br><u>8-27-86</u> | <u>Well #12</u><br><u>8-27-86</u> |
|---------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Tetrachloroethylene | 1,620                             | 5,740                             | 600                               |
| Analytical No.      | 21368                             | 21369                             | 21370                             |

Wausau Chemical  
VOC Analysis (ug/l)

|                       | <u>Detection</u><br><u>Limit</u> | <u>Influent</u><br><u>8-27-86</u> | <u>Effluent</u><br><u>8-27-86</u> |
|-----------------------|----------------------------------|-----------------------------------|-----------------------------------|
| Chloroform            | 10                               | 30                                | 10                                |
| 1,1-Dichlorethane     | 10                               | X                                 | X                                 |
| 1,1-Dichloroethylene  | 50                               | X                                 | X                                 |
| 1,2-Dichloroethylene  | 30                               | 150                               | 27                                |
| Ethylbenzene          | 20                               | X                                 | X                                 |
| Tetrachloroethylene   | 10                               | 2,630                             | 425                               |
| Toluene               | 10                               | 200                               | X                                 |
| 1,1,1-Trichloroethane | 10                               | 20                                | X                                 |
| Trichloroethylene     | 10                               | 380                               | 68                                |
| Vinyl Chloride        | 200                              | X                                 | X                                 |
| Analytical No.        |                                  | 21371                             | 21372                             |

X = Analyzed but not detected



RECEIVED SEP 17 1986

September 16, 1986

Wausau Chemical Corp.  
2001 N. River Drive  
Wausau, WI 54401

Attn: Art Flashinski

Re: VOC Analysis

Attached are the results for August 29, 1986 water samples. The analysis was done according to EPA Method 601.

If you have any questions, please call.

Sincerely,

ZIMPRO INC.

*Mary C. Christie Heuser*

Mary C. Christie Heuser  
Instrumentation Chemist

MCCH/lis

cc: J.W. Barr  
J.R. Salkowski

Wausau Chemical  
VOC Analysis (ug/l)

|                | <u>Well #10</u><br><u>8-29-86</u> | <u>Well #11</u><br><u>8-29-86</u> | <u>Well #12</u><br><u>8-29-86</u> |
|----------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Perc           | 2,210                             | 5,820                             | 797                               |
| Analytical No. | 21437                             | 21438                             | 21439                             |

Wausau Chemical  
VOC Analysis (ug/l)

|                       | <u>Detection<br/>Limit</u> | <u>Influent<br/>8-29-86</u> |
|-----------------------|----------------------------|-----------------------------|
| Chloroform            | 10                         | X                           |
| 1,1-Dichlorethane     | 10                         | X                           |
| 1,1-Dichloroethylene  | 50                         | X                           |
| 1,2-Dichloroethylene  | 30                         | 160                         |
| Ethylbenzene          | 20                         | X                           |
| Tetrachloroethylene   | 10                         | 2,840                       |
| Toluene               | 10                         | X                           |
| 1,1,1-Trichloroethane | 10                         | 10                          |
| Trichloroethylene     | 10                         | 400                         |
| Vinyl Chloride        | 200                        | X                           |
| Analytical No.        |                            | 21435                       |

X = Analyzed but not detected

Wausau Chemical  
VOC Analysis (ug/l)

|                       | <u>Detection<br/>Limit</u> | <u>Effluent<br/>8-29-86</u> |
|-----------------------|----------------------------|-----------------------------|
| Chloroform            | 5                          | X                           |
| 1,1-Dichlorethane     | 5                          | X                           |
| 1,1-Dichloroethylene  | 25                         | X                           |
| 1,2-Dichloroethylene  | 15                         | 27                          |
| Ethylbenzene          | 10                         | X                           |
| Tetrachloroethylene   | 5                          | 337                         |
| Toluene               | 5                          | X                           |
| 1,1,1-Trichloroethane | 5                          | X                           |
| Trichloroethylene     | 5                          | 50                          |
| Vinyl Chloride        | 100                        | X                           |
| Analytical No.        |                            | 21436                       |

X = Analyzed but not detected



# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 6-4-86

Technician: Art Flashinski

| Technician: <i>Hrt. Flashinski</i>                                                                                                         |    |         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|--------------------------------------------------------------------------------------------------------------------------------------------|----|---------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|                                                                                                                                            |    | Time:   |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|                                                                                                                                            |    | W.L.    | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF |          |
| Pumping Wells                                                                                                                              | 1  | 15' 11" |         |         | OFF    |       |         |         |        |       |         |         |        |       |         |         |        |          |
|                                                                                                                                            | 2  | 16' 2"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|                                                                                                                                            | 3  | 16' 2"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|                                                                                                                                            | 4  | 18' 9"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|                                                                                                                                            | 5  | 20' 0"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|                                                                                                                                            | 6  | 16' 4"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells                                                                                                                                | 7  | 18' 11" | 17'     | 22' 8"  |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|                                                                                                                                            | 8  | 18' 8"  | 17'     | 23' 4"  |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|                                                                                                                                            | 9  | 15' 9"  | 14'     | 18' 4"  |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|                                                                                                                                            | 10 | 19' 10" | 17'     | 22' 9"  |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|                                                                                                                                            | 11 | 20' 2"  | 17'     | 24' 1"  |        | 1     | 13' 5"  |         |        |       |         |         |        |       |         |         |        |          |
|                                                                                                                                            | 12 | 16' 2"  | 14'     | 20' 9"  |        | 2     | 14' 7"  |         |        |       |         |         |        |       |         |         |        |          |
|                                                                                                                                            | 13 | 15' 10" |         |         |        | 3     | 14' 10" |         |        |       |         |         |        |       |         |         |        |          |
|                                                                                                                                            | 14 | 15' 8"  |         |         |        | 5     | 12' 10" |         |        |       |         |         |        |       |         |         |        |          |
|                                                                                                                                            | 15 | 15' 6"  |         |         |        | 6     | 15' 8"  |         |        |       |         |         |        |       |         |         |        |          |
| <div>Test Wells</div> <div>T.F.C. Top float control set at</div> <div>B.F.C. Bottom float control set at</div> <div>W.L. Water level</div> |    |         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Pumps all lowered to bottom of wells  
on 6-13-86 - about one (1) foot in every case

Date: 6-24-86  
Technician: A. J. R. S.

|               |    | Time: 11:00 a.m. |         |         |        | Time:      |         |         |        | Time: 11:00 a.m. |         |         |        | Time: 6-25-86 |         |         |        | Comments                                                                                          |  |
|---------------|----|------------------|---------|---------|--------|------------|---------|---------|--------|------------------|---------|---------|--------|---------------|---------|---------|--------|---------------------------------------------------------------------------------------------------|--|
|               |    | W.L.             | T. F.C. | B. F.C. | ON/OFF | W.L.       | T. F.C. | B. F.C. | ON/OFF | W.L.             | T. F.C. | B. F.C. | ON/OFF | W.L.          | T. F.C. | B. F.C. | ON/OFF |                                                                                                   |  |
| Pumping Wells | 7  | 17' 8"           | 21'     | 24' 8"  | OFF    |            |         |         |        | 21' 7"           |         |         | ON     |               |         |         |        |                                                                                                   |  |
|               | 8  | 17' 5"           | 21'     | 23' 0"  |        |            |         |         |        | 20' 9"           |         |         |        |               |         |         |        |                                                                                                   |  |
|               | 9  | 14' 11"          | 19'     | 21' 4"  |        |            |         |         |        | 17' 5"           |         |         |        |               |         |         |        |                                                                                                   |  |
|               | 10 | 18' 7"           | 21'     | 24' 9"  |        |            |         |         |        | 23' 0"           |         |         |        |               |         |         |        |                                                                                                   |  |
|               | 11 | 19' 0"           | 21'     | 22' 6"  |        |            |         |         |        | 20' 4"           |         |         |        |               |         |         |        |                                                                                                   |  |
|               | 12 | 15' 2"           | 19'     | 21' 9"  | ↓      |            |         |         |        | 18' 4"           |         |         | ↓      |               |         |         |        |                                                                                                   |  |
| Other Wells   | 1  | 15' 0"           |         |         |        |            |         |         |        | 15' 3"           |         |         |        |               |         |         |        |                                                                                                   |  |
|               | 2  | 15' 2"           |         |         |        |            |         |         |        | 15' 7"           |         |         |        |               |         |         |        |                                                                                                   |  |
|               | 3  | 15' 7"           |         |         |        |            |         |         |        | 16' 0"           |         |         |        |               |         |         |        |                                                                                                   |  |
|               | 4  | 17' 6"           |         |         |        |            |         |         |        | 18' 5"           |         |         |        |               |         |         |        |                                                                                                   |  |
|               | 5  | 18' 9"           |         |         |        |            |         |         |        | 19' 8"           |         |         |        |               |         |         |        |                                                                                                   |  |
|               | 6  | 15' 7"           |         |         |        |            |         |         |        | 16' 1"           |         |         |        |               |         |         |        |                                                                                                   |  |
|               | 13 | 14' 16"          |         |         |        |            |         |         |        | 15' 7"           |         |         |        |               |         |         |        |                                                                                                   |  |
|               | 14 | 14' 9"           |         |         |        |            |         |         |        | 15' 2"           |         |         |        |               |         |         |        |                                                                                                   |  |
|               | 15 | 14' 8"           |         |         |        |            |         |         |        | 15' 1"           |         |         |        |               |         |         |        |                                                                                                   |  |
|               |    |                  |         |         |        |            |         |         |        |                  |         |         |        |               |         |         |        |                                                                                                   |  |
|               |    |                  |         |         |        | Test Wells |         |         |        |                  |         |         |        | Test Wells    |         |         |        | T.F.C. Top float control set at<br><br>B.F.C. Bottom float control set at<br><br>W.L. Water level |  |
|               |    |                  |         |         |        | 1          |         |         |        | 12' 6"           |         |         |        | 1             |         |         |        |                                                                                                   |  |
|               |    |                  |         |         |        | 2          |         |         |        | 13' 9"           |         |         |        | 2             |         |         |        |                                                                                                   |  |
|               |    |                  |         |         |        | 3          |         |         |        | 14' 0"           |         |         |        | 3             |         |         |        |                                                                                                   |  |
|               |    |                  |         |         |        | 5          |         |         |        | 12' 0"           |         |         |        | 5             |         |         |        |                                                                                                   |  |
|               |    |                  |         |         |        | 6          |         |         |        | 15' 0"           |         |         |        | 6             |         |         |        |                                                                                                   |  |

Date: 6-27-86  
Technician: R9

T.F.C. Top float  
control set at

B.F.C. Bottom float  
control set at

W.L. Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 6-30-86  
Technician: R.C.

|               |    | Time:   |         |         |        | Time:      |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments                                                                                             |
|---------------|----|---------|---------|---------|--------|------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|------------------------------------------------------------------------------------------------------|
|               |    | W.L.    | T. F.C. | B. F.C. | DN/OFF | W.L.       | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF |                                                                                                      |
| Pumping Wells | 7  | 21' 10" | Same    |         | ON     |            |         |         |        |       |         |         |        |       |         |         |        | T.F.C.: Top float control set at<br><br>B.F.C.: Bottom float control set at<br><br>W.L.: Water level |
|               | 8  | 21' 0"  | as      |         | ↓      |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               | 9  | 17' 5"  |         |         | ↓      |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               | 10 | 23' 2"  | Lost    |         | ↓      |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               | 11 | 22' 3"  | ↓       |         | ↓      |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               | 12 | 18' 3"  | ↓       |         | ↓      |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
| Other Wells   | 1  | 15' 5"  |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               | 2  | 15' 7"  |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               | 3  | 16' 1"  |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               | 4  | 18' 8"  |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               | 5  | 19' 9"  |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               | 6  | 16' 4"  |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               | 13 | 15' 4"  |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               | 14 | 15' 5"  |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               | 15 | 15' 1"  |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               |    |         |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               |    |         |         |         |        | Test Wells |         |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               |    |         |         |         |        | 1          | 12' 11" |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               |    |         |         |         |        | 2          | 14' 0"  |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               |    |         |         |         |        | 3          | 14' 6"  |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               |    |         |         |         |        | 5          | 13' 10" |         |        |       |         |         |        |       |         |         |        |                                                                                                      |
|               |    |         |         |         |        | 6          | 14' 11" |         |        |       |         |         |        |       |         |         |        |                                                                                                      |

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 7-3-86  
Technician: R. J.

|               |    | Time: 12:30pm |         |         |        | Time:      |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments                                                                                          |
|---------------|----|---------------|---------|---------|--------|------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|---------------------------------------------------------------------------------------------------|
|               |    | W.L.          | T. F.C. | B. F.C. | DN/OFF | W.L.       | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF |                                                                                                   |
| Pumping Wells | 7  | 21' 4"        |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        | T.F.C. Top float control set at<br><br>B.F.C. Bottom float control set at<br><br>W.L. Water level |
|               | 8  | 19' 11"       |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 9  | 18' 0"        |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 10 | 22' 0"        |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 11 | 22' 6"        |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 12 | 17' 3"        |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
| Other Wells   | 1  | 15' 0"        |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 2  | 15' 3"        |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 3  | 15' 7"        |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 4  | 17' 11"       |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 5  | 19' 8"        |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 6  | 15' 11"       |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 13 | 15' 0"        |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 14 | 15' 1"        |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 15 | 14' 11"       |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               |    |               |         |         |        |            |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               |    |               |         |         |        | Test Wells |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               |    |               |         |         |        | 1          | 12' 7"  |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               |    |               |         |         |        | 2          | 13' 7"  |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               |    |               |         |         |        | 3          | 13' 7"  |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               |    |               |         |         |        | 5          | 11' 10" |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               |    |               |         |         |        | 6          | 15' 0"  |         |        |       |         |         |        |       |         |         |        |                                                                                                   |

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 7-7-86  
Technician: R.F.

Technician: K.F.

|               |        | Time: 3:00 pm |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|---------------|--------|---------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|               |        | W.L.          | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF |          |
| Pumping Wells | 7      | 21' 5"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 8      | 19' 11"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 9      | 18' 2"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 10     | 21' 11"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 11     | 22' 5"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 12     | 17' 7"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells   | 1      | 15' 4"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 2      | 15' 6"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 3      | 15' 7"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 4      | 18' 1"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 5      | 19' 6"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 6      | 16' 1"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 13     | 15' 3"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 14     | 15' 0"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| 15            | 15' 0" |               |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

T.F.C. Top float control set at

B.F.C. Bottom float control set at

W.L. Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 7-9-86  
Technician: RF

[illegible]

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 7-10-86 11:30am  
Technician: R.F.

|               |         | Time:   |         |         |         | Time: |         |         |         | Time: |         |         |         | Time: |         |         |         | Comments |
|---------------|---------|---------|---------|---------|---------|-------|---------|---------|---------|-------|---------|---------|---------|-------|---------|---------|---------|----------|
|               |         | W.L.    | T. F.C. | B. F.C. | DN/ OFF | W.L.  | T. F.C. | B. F.C. | DN/ OFF | W.L.  | T. F.C. | B. F.C. | DN/ OFF | W.L.  | T. F.C. | B. F.C. | DN/ OFF |          |
| Pumping Wells | 7       | 18' 1"  |         |         | OFF     |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 8       | 17' 10" |         |         | ↓       |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 9       | 15' 0"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 10      | 18' 11" |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 11      | 19' 2"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 12      | 15' 5"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
| Other Wells   | 1       | 15' 3"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 2       | 15' 6"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 3       | 15' 2"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 4       | 17' 11" |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 5       | 19' 0"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 6       | 15' 9"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 13      | 15' 2"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 14      | 15' 0"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
| 15            | 14' 10" |         |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |

Technician: K.T.

Date: 11/1/78

T.F.C. Top float control set at

B.F.C. Bottom float control set at

W.L. Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 7-14-86 9:30 am.  
Technician: B.F.

|               |    | Time:   |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|---------------|----|---------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|               |    | W.L.    | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF |          |
| Pumping Wells | 7  | 21' 10" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 8  | 19' 10" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 9  | 18' 0"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 10 | 22' 0"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 11 | 22' 2"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 12 | 17' 10" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells   | 1  | 15' 4"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 2  | 15' 5"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 3  | 15' 8"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 4  | 18' 0"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 5  | 14' 8"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 6  | 16' 1"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 13 | 15' 2"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 14 | 15' 2"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 15 | 15' 1"  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

T.F.C. Top float control set at

B.F.C. Bottom float control set at

W.L. Water level

Date: 7-19-86  
Technician: RZ

T.F.C. Top float  
control set at

B.F.C. Bottom float  
control set at

W.L. Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 7-24-86  
Technician: RZ.

|               |    | Time:   |         |         |         | Time: |         |         |         | Time: |         |         |         | Time: |         |         |         | Comments |
|---------------|----|---------|---------|---------|---------|-------|---------|---------|---------|-------|---------|---------|---------|-------|---------|---------|---------|----------|
|               |    | W.L.    | T. F.C. | B. F.C. | DN/ OFF | W.L.  | T. F.C. | B. F.C. | DN/ OFF | W.L.  | T. F.C. | B. F.C. | DN/ OFF | W.L.  | T. F.C. | B. F.C. | DN/ OFF |          |
| Pumping Wells | 7  | 21' 9"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 8  | 20' 0"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 9  | 17' 2"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 10 | 21' 9"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 11 | 22' 0"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 12 | 17' 8"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
| Other Wells   | 1  | 15' 3"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 2  | 15' 5"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 3  | 15' 11" |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 4  | 18' 2"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 5  | 19' 9"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 6  | 16' 2"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 13 | 15' 2"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 14 | 15' 2"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               | 15 | 15' 3"  |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |
|               |    |         |         |         |         |       |         |         |         |       |         |         |         |       |         |         |         |          |

T.F.C. Top float control set at

B.F.C. Bottom float control set at

W.L. Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 7-28-86

Technician: RR

|               |    | Time:  |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|---------------|----|--------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|               |    | W.L.   | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF |          |
| Pumping Wells | 7  | 20' 2" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 8  | 20' 5" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 9  | 18' 8" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 10 | 22' 2" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 11 | 22' 9" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 12 | 18' 3" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells   | 1  | 16' 0" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 2  | 16' 1" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 3  | 16' 6" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 4  | 18' 9" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 5  | 20' 0" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 6  | 16' 2" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 13 | 15' 6" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 14 | 15' 2" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 15 | 15' 4" |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

T.F.C., Top float control set at

B.F.C., Bottom float control set at

W.L., Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 8-7-86  
Technician:

|               |        | Time: 3:00 pm |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|---------------|--------|---------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|               |        | VL            | T. F.C. | B. F.C. | DN/OFF | VL    | T. F.C. | B. F.C. | DN/OFF | VL    | T. F.C. | B. F.C. | DN/OFF | VL    | T. F.C. | B. F.C. | DN/OFF |          |
| Pumping Wells | 7      | 1' 8"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 8      | 0"            |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 9      | 12' 4"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 10     | 22' 5"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 11     | 22' 1"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 12     | 17' 7"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells   | 1      | 15' 4"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 2      | 15' 5"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 3      | 16' 0"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 4      | 16' 5"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 5      | 18' 2"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 6      | 26' 0"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 13     | 15' 4"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 14     | 15' 3"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| 15            | 15' 1" |               |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

T.F.C. Top float control set at

B.F.C. Bottom float control set at

V.L. Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 8-12-86  
Technician: JZ

|               |    | Time: 7:30am |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|---------------|----|--------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|               |    | W.L.         | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF |          |
| Pumping Wells | 7  | 21' 15"      |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 8  | 25' 3"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 9  | 27' 6"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 10 | 22' 0"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 11 | 22' 0"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 12 | 17' 5"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells   | 1  | 15' 2"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 2  | 15' 4"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 3  | 15' 4"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 4  | 15' 4"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 5  | 11' 6"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 6  | 12' 10"      |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 13 | 15' 3"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 14 | 15' 3"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 15 | 15' 0"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

T.F.C. Top float control set at

B.F.C. Bottom float control set at

W.L. Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 8-15-86

Technician: AD

|               |    | Time: 12:30 p.m. |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|---------------|----|------------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|               |    | W.L.             | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF |          |
| Pumping Wells | 7  | 21'6"            |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 8  | 20'0"            |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 9  | 16'6"            |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 10 | 21'7"            |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 11 | 22'2"            |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 12 | 17'4"            |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells   | 1  | 15'0"            |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 2  | 15'5"            |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 3  | 15'11"           |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 4  | 18'0"            |         |         |        | 1     | 12'9"   |         |        |       |         |         |        |       |         |         |        |          |
|               | 5  | 19'4"            |         |         |        | 2     | 13'7"   |         |        |       |         |         |        |       |         |         |        |          |
|               | 6  | 15'11"           |         |         |        | 3     | 14'2"   |         |        |       |         |         |        |       |         |         |        |          |
|               | 13 | 15'2"            |         |         |        | 5     | 12'0"   |         |        |       |         |         |        |       |         |         |        |          |
|               | 14 | 15'11"           |         |         |        | 6     | 15'0"   |         |        |       |         |         |        |       |         |         |        |          |
|               | 15 | 15'0"            |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               |    |                  |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

Monitoring Wells

T.F.C. Top float control set at

B.F.C. Bottom float control set at

W.L. Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 8-19-86

Technician: J.W.

|               |    | Time: 10:30am |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments                                                                                                                                                                                         |
|---------------|----|---------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |    | W.L.          | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF |                                                                                                                                                                                                  |
| Pumping Wells | 7  | 18'0"         |         |         | 0      |       |         |         |        |       |         |         |        |       |         |         |        | Wells shut down<br>7:30am<br>Revised<br>10:30am<br>Restarted 11:00am<br>Flow rate reduced<br>to create<br>cycling<br><br>2:30 Back to full<br>flow after phone<br>discussion<br>w/ Mark<br>m/spp |
|               | 8  | 17'7"         |         |         | F      |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                                                                                                                  |
|               | 9  | 14'11"        |         |         | F      |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                                                                                                                  |
|               | 10 | 19'11"        |         |         | I      |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                                                                                                                  |
|               | 11 | 19'8"         |         |         | I      |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                                                                                                                  |
|               | 12 | 15'4"         |         |         | V      |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                                                                                                                  |
| Other Wells   | 1  | 15'11"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        | Monitor<br>Wells<br><br>1 12'8"<br>2 13'10"<br>3 13'11"<br>5 10'1"<br>6 14'11"                                                                                                                   |
|               | 2  | 15'3"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                                                                                                                  |
|               | 3  | 15'7"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                                                                                                                  |
|               | 4  | 17'9"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                                                                                                                  |
|               | 5  | 15'1"         |         |         |        | 1     |         |         |        |       |         |         |        |       |         |         |        |                                                                                                                                                                                                  |
|               | 6  | 15'9"         |         |         |        | 2     |         |         |        |       |         |         |        |       |         |         |        |                                                                                                                                                                                                  |
|               | 13 | 14'8"         |         |         |        | 3     |         |         |        |       |         |         |        |       |         |         |        |                                                                                                                                                                                                  |
|               | 14 | 14'7"         |         |         |        | 5     |         |         |        |       |         |         |        |       |         |         |        |                                                                                                                                                                                                  |
|               | 15 | 14'5"         |         |         |        | 6     |         |         |        |       |         |         |        |       |         |         |        |                                                                                                                                                                                                  |

T.F.C. Top float control set at

B.F.C. Bottom float control set at

W.L. Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 8-27-86  
Technician: R.F.

|               |    | Time: 12:30pm |            |            |            | Time: |            |            |            | Time: |            |            |            | Time: |            |            |            | Comments                                                                                                 |
|---------------|----|---------------|------------|------------|------------|-------|------------|------------|------------|-------|------------|------------|------------|-------|------------|------------|------------|----------------------------------------------------------------------------------------------------------|
|               |    | V.L.          | T.<br>F.C. | B.<br>F.C. | ON/<br>OFF | V.L.  | T.<br>F.C. | B.<br>F.C. | ON/<br>OFF | V.L.  | T.<br>F.C. | B.<br>F.C. | ON/<br>OFF | V.L.  | T.<br>F.C. | B.<br>F.C. | ON/<br>OFF |                                                                                                          |
| Pumping Wells | 7  | 21'5"         |            |            | ON         |       |            |            |            |       |            |            |            |       |            |            |            | <p>T.F.C. Top float control set at</p> <p>B.F.C. Bottom float control set at</p> <p>W.L. Water level</p> |
|               | 8  | 20'7"         |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
|               | 9  | 17'7"         |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
|               | 10 | 22'2"         |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
|               | 11 | 18'7"         |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
|               | 12 | 17'6"         |            |            | ✓          |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
| Other Wells   | 1  | 15'2"         |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
|               | 2  | 15'2"         |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
|               | 3  | 15'11"        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
|               | 4  | 18'0"         |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
|               | 5  | 19'1"         |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
|               | 6  | 16'0"         |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
|               | 13 | 15'0"         |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
|               | 14 | 15'0"         |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
|               | 15 | 14'10"        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |
|               |    |               |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                          |

Monitoring Wells

1 12'5"

2 13'9"

3 13'11"

5 12'0"

6 14'7"

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 8-29-86  
Technician: R.F.

|               |    | Time: 2:30 p.m. |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments                                                                                          |
|---------------|----|-----------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|---------------------------------------------------------------------------------------------------|
|               |    | V.L.            | T. F.C. | B. F.C. | ON/OFF | V.L.  | T. F.C. | B. F.C. | ON/OFF | V.L.  | T. F.C. | B. F.C. | ON/OFF | V.L.  | T. F.C. | B. F.C. | ON/OFF |                                                                                                   |
| Pumping Wells | 7  | 21'7"           |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        | T.F.C. Top float control set at<br><br>B.F.C. Bottom float control set at<br><br>V.L. Water level |
|               | 8  | 25'6"           |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 9  | 17'5"           |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 10 | 21'9"           |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 11 | 22'0"           |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 14 | 17'8"           |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
| Other Wells   | 1  | 15'4"           |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 2  | 15'4"           |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 3  | 15'9"           |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 4  | 18'4"           |         |         |        | 1     | 12'10"  |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 5  | 19'2"           |         |         |        | 2     | 13'9"   |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 6  | 16'0"           |         |         |        | 3     | 14'0"   |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 13 | 15'3"           |         |         |        | 5     | 12'2"   |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 14 | 15'1"           |         |         |        | 6     | 14'9"   |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 15 | 15'1"           |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 9-6-76  
Technician: RZ

|               |    | Time: 9.00 am |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|---------------|----|---------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|               |    | V.L.          | T. F.C. | B. F.C. | ON/OFF | V.L.  | T. F.C. | B. F.C. | ON/OFF | V.L.  | T. F.C. | B. F.C. | ON/OFF | V.L.  | T. F.C. | B. F.C. | ON/OFF |          |
| Pumping Wells | 7  | 21' 6"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 8  | 23' 8"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 9  | 17' 8"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 10 | 21' 6"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 11 | 22' 1"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 12 | 17' 7"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells   | 1  | 15' 4"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 2  | 15' 7"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 3  | 15' 11"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 4  | 18' 1"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 5  | 19' 6"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 6  | 16' 0"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 13 | 15' 2"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 14 | 15' 2"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 15 | 15' 0"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               |    |               |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

T.F.C. Top float control set at

B.F.C. Bottom float control set at

W.L. Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 9-13-86  
Technician: RZ

|               |    | Time: 11:30am |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|---------------|----|---------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|               |    | W.L.          | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF |          |
| Pumping Wells | 7  | 21'0"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 8  | 20'1"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 9  | 16'5"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 10 | 21'4"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 4  | 21'6"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 12 | 16'10"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells   | 1  | 14'11"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 2  | 15'1"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 3  | 15'7"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 4  | 12'9"         | 1       |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 5  | 18'11"        | 2       |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 6  | 15'6"         | 3       |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 13 | 14'11"        | 5       |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 14 | 14'9"         | 6       |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 15 | 14'9"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               |    |               |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

Monitor  
Not  
Read

T.F.C.: Top float control set at

B.F.C.: Bottom float control set at

W.L.: Water level



# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 9-14-86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    | TIME (Hour) |    |   |   |   |   |    |    |    |    | DATE 9-20-86 |    |    |    |  |   |   |   |    |    | Comments |   |
|-----------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|-------------|----|---|---|---|---|----|----|----|----|--------------|----|----|----|--|---|---|---|----|----|----------|---|
|                             |          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22          | 24 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18           | 20 | 22 | 24 |  |   |   |   |    |    |          |   |
| Cluster No.                 | Pumps On | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%); background-size: 200% 200%;"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background: linear-gradient(to bottom right, transparent 49%, black 49%, black 51%, transparent 51%); background-size: 200% 200%;"></div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">Continuous</div> </div> |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  | 7 | 8 | 4 | 10 | 11 | 12       | 5 |
|                             |          | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
|                             |          | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
|                             |          | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
|                             |          | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
|                             |          | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
| Total Pumping Rate (gpm) #1 |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
| PCE (ppm)                   | Well     | <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%); background-size: 200% 200%;"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background: linear-gradient(to bottom right, transparent 49%, black 49%, black 51%, transparent 51%); background-size: 200% 200%;"></div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 1.2em;">           (9-12 to 9-20):<br/>           Elapsed Time = 11205 min<br/>           Volume = 1537700 gal<br/>           Flow Rate = 137.2 gpm<br/>           Perc Removal =<br/>           (no recent results)         </div> </div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
|                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
| Stripper                    | Inlet    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
|                             | Outlet   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
|                             | X Rem.   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |
| PCE Entered (lb/hr)         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |             |    |   |   |   |   |    |    |    |    |              |    |    |    |  |   |   |   |    |    |          |   |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

9-20-8  
 16,041,20  
 10:00a  
 Pumps  
 in wells  
 # 9 & 12  
 moved  
 To  
 well #5  
 4 & 5.  
 II

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |                     | DATE 9-21-86 TIME (Hour)                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    | DATE 9-22-86 |   |   |   |    |    |    |    |    |    |    |    | Comments |  |  |
|-----------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|--------------|---|---|---|----|----|----|----|----|----|----|----|----------|--|--|
|                             |                     | 2                                                                                                                                                                         | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2            | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |          |  |  |
| Cluster No.:                | Pumps On            | 4                                                                                                                                                                         | <div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%); background-size: 200% 200%;"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to bottom right, transparent 49%, black 49%, black 51%, transparent 51%); background-size: 200% 200%;"></div> </div> <p style="font-size: 2em; margin-top: 10px;">Continuous</p> |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
|                             |                     | 5                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
|                             |                     | 7                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
|                             |                     | 8                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
|                             |                     | 10                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
|                             |                     | 11                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
| Total Pumping Rate (gpm) #1 |                     |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
| PCE (ppm)                   | Well                | <p>(9-20 to 9-22):</p> <p>Elapsed Time = 2760 min</p> <p>Volume = 365500 gal</p> <p>Flow Rate = 132.4 gpm</p> <p>Perc Removal = 5.22 #/day</p> <p>(used 9-22 results)</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
|                             |                     |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
|                             |                     |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
|                             |                     |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
|                             |                     |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
|                             |                     |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
| Stripper                    | Inlet               |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
|                             | Outlet              |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
|                             | % Rem.              |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |
|                             | PCE Emitt'd (lb/hr) |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |  |

9-22-86  
16,406.7  
8:00am

Samples  
Taken  
8:40am

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                     |          | DATE 9-23-86 TIME (Hour) |                                                                     |   |   |    |    |    |    |    |    |    |    | DATE 9-24-86 |   |   |   |    |    |    |    |    |    |    |    | Comments |  |
|---------------------|----------|--------------------------|---------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|--------------|---|---|---|----|----|----|----|----|----|----|----|----------|--|
|                     |          | 2                        | 4                                                                   | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2            | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |          |  |
| Cluster No.:        | Pumps On | 5                        | <div style="font-size: 2em; font-family: cursive;">Continuous</div> |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                     |          | 6                        |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                     |          | 7                        |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                     |          | 8                        |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                     |          | 10                       |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| PCE (ppm)           | Well     | 11                       |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                     |          |                          |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                     |          |                          |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                     |          |                          |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                     |          |                          |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| Stripper            | Inlet    |                          |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                     | Outlet   |                          |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                     | % Rem.   |                          |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                     |          |                          |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| PCE Emitted (lb/hr) |          |                          |                                                                     |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |

(9-22 to 9-24):

Elapsed Time = 3060 min

Volume = 396100 gal

Flow Rate = 129.4 gpm

Perc Removal = 5.10 #/day

(used 9-22 results)

9-24-86

11:00 am

6,803.80

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 9-25-86 |   |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 9-26-86 |  |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|--------------|---|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|--------------|--|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2            | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |              |  |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No. 11              | Pumps On | 4            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 5            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 7            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 10           |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 11           |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |              |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     |              |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |              |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |              |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |              |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |              |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |              |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper | Inlet        |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Outlet       |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | X            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | Rem.         |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE Emitted (lb/hr)         |          |              |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |

(9-24 to 9-26):  
 Elapsed Time = 3030 min  
 Volume = 385200 gal  
 Flow Rate = 127.1 gpm  
 Perc Removal = 5.01 #/day  
 (used 9-22 results)

9-26-86  
 1:30 pm  
 17,188,000

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 9-27-86 TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 9-28-86 |   |   |   |    |    |    |    |    |    |    |    | Comments |  |
|-----------------------------|----------|--------------------------|---|---|---|----|----|----|----|----|----|----|----|--------------|---|---|---|----|----|----|----|----|----|----|----|----------|--|
|                             |          | 2                        | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2            | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |          |  |
| Cluster No.:                | Pumps On | 4                        |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 5                        |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 7                        |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 8                        |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 10                       |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 11                       |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| Total Pumping Rate (gpm) #1 |          |                          |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| PCE (ppm)                   | Well     |                          |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                          |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                          |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                          |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                          |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                          |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             | Stripper | Inlet                    |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | Outlet                   |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | X                        |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | Rem.                     |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| PCE Entitled (lb/hr)        |          |                          |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE <u>9-29-86</u> TIME (Hour) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    | DATE <u>9-30-86</u> |   |   |   |    |    |    |    |    |    |    |    | Comments |                                                                                 |
|-----------------------------|----------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|---------------------|---|---|---|----|----|----|----|----|----|----|----|----------|---------------------------------------------------------------------------------|
|                             |          | 2                               | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2                   | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |          |                                                                                 |
| Cluster No.:                | Pumps On | 4                               | <div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> <div style="position: absolute; top: 0; left: 50%; width: 50%; height: 100%; border: 1px solid black; background: linear-gradient(to bottom right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> </div> <p style="font-size: 2em; margin-top: 10px;">Cont. x 4 runs</p> |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          | <p>29<br/><del>28</del>-86</p> <p>3:00pm</p> <p>17745000</p>                    |
|                             |          | 5                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
|                             |          | 7                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
|                             |          | 8                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
|                             |          | 10                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
|                             |          | 11                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
| Total Pumping Rate (gpm) #1 |          |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
| PCE (ppm)                   | Well     |                                 | <p>(9-26 to 9-29):</p> <p>Elapsed Time = 4410 min</p> <p>Volume = 557000 gal</p> <p>Flow Rate = 126.3 gpm</p> <p>(used 9-29 results) ← Perc Removal = 8.45 #/day</p> <p>(9-29 to 9-30):</p> <p>Elapsed Time = 1200 min</p> <p>Volume = 152000 gal</p> <p>Flow Rate = 126.7 gpm</p> <p>Perc Removal = 8.48 #/day</p> <p>(used 9-29 results)</p>                                                                                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          | <p>Sample Taken</p> <p>3:30pm</p> <p>9-30-86</p> <p>11:00am</p> <p>17897000</p> |
|                             |          |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
|                             |          |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
|                             |          |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
|                             |          |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
|                             |          |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
|                             | Stripper | Inlet                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
|                             |          | Outlet                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
|                             |          | X                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
|                             |          | Rem.                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |
| PCE Emitted (lb/hr)         |          |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |    |    |    |    |    |    |    |    |                     |   |   |   |    |    |    |    |    |    |    |    |          |                                                                                 |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

## WAUSAU CHEMICAL EXTRACTION PROGRAM

|                            |                      | DATE 10-1-86                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 10-2-86                    |                                                                    |  |  |  |  |  |  |  |  |  |  | Comments |
|----------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|---------------------------------|--------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|----------|
|                            |                      | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4                                                                                                                                                | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.                | Pumps On             | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <div style="display: flex; justify-content: space-between;"> <div> <p>Shut Down</p> <p>Continues</p> </div> <div> <p>Continues</p> </div> </div> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 | 10-1-86<br>3:30 pm<br>18,065.4<br>Shut Down For Winter Preparation |  |  |  |  |  |  |  |  |  |  |          |
|                            |                      | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
|                            |                      | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
|                            |                      | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
|                            |                      | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
|                            |                      | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) = |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                  | Well                 | <div style="display: flex; justify-content: space-between;"> <div> <p>(9-30 to 10-1):</p> <p>Elapsed Time = 1380 min</p> <p>Volume = 168400 gal</p> <p>Flow Rate = 122.0 gpm</p> <p>Perc Removal = 8.16 #/day</p> <p>(used 9-29 results)</p> </div> <div> <p>(10-1 to 10-2):</p> <p>Elapsed Time = 1170 min</p> <p>Volume = 151000 gal</p> <p>Flow Rate = 129.1 gpm</p> <p>Perc Removal = 8.64 #/day</p> <p>(used 9-29 results)</p> </div> </div> |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    | 10-2-86<br>11:00 am<br>18,216.4 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
|                            |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
|                            |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
|                            |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
|                            |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
|                            |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
|                            |                      | Stripper                                                                                                                                                                                                                                                                                                                                                                                                                                          | Inlet                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
|                            |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Outlet                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
|                            |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X Ren.                                                                                                                                           |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |
|                            | PCE Entitled (lb/hr) |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                 |                                                                    |  |  |  |  |  |  |  |  |  |  |          |

- ```

#1 : Estimated pumping rate = 27 gpm/pump
#2 : Limited by max. pumping capacity of 150 gpm
#3 : Using initial concentration
#4 : Using final concentration

```

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 10-3-86												TIME (Hour)												DATE 10-4-86												Comments
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24													
Cluster No. 1	Pumps On	4																									10-3-86 8:00 am 18,384 gal											
		5																																				
		7																																				
		8																																				
		11																																				
		12																																				
Total Pumping Rate (gpm) #1																																						
PCE (ppm)	Well																																					
Stripper	Inlet																																					
	Outlet																																					
	X																																					
	Rem.																																					
PCE Entitled (lb/hr)																																						

(10-2 to 10-3):
 Elapsed Time = 1260 min
 Volume = 167600 gal
 Flow Rate = 133.0 gpm
 Perc Removal = 8.90 #/day
 (used 7-27 results)

Partial
 shut down
 due
 to
 attempt
 to
 close
 plastic
 bulbs

- *1 : Estimated pumping rate = 27 gpm/pump
- *2 : Limited by max. pumping capacity of 150 gpm
- *3 : Using initial concentration
- *4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 9-5-86												TIME (Hour)												DATE 10-6-86												Comments
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24													
Cluster No. 1	Pumps On	4																																				
		5																																				
		7																																				
		8																																				
		11																																				
		12																																				
Total Pumping Rate (gpm) #1																																						
PCE (ppm)	Well																																					
	Stripper	Inlet																																				
		Outlet																																				
		x Rem.																																				
	PCE Entitled (lb/hr)																																					

- ```

#1 : Estimated pumping rate = 27 gpm/pump
#2 : Limited by max. pumping capacity of 150 gpm
#3 : Using initial concentration
#4 : Using final concentration

```

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 10-7-86 TIME (Hour)                                                                                                                         |   |   |   |    |    |    |    |    |    |    |    | DATE 10-8-86 |   |   |   |    |    |    |    |    |    |    |    | Comments                  |                                  |
|-----------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|----|----|----|----|----|----|----|----|--------------|---|---|---|----|----|----|----|----|----|----|----|---------------------------|----------------------------------|
|                             |          | 2                                                                                                                                                | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2            | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |                           |                                  |
| Cluster No.:                | Pumps On | 4                                                                                                                                                |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           | 10-7-86<br>11:30 am<br>18,743.00 |
|                             |          | 5                                                                                                                                                |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
|                             |          | 7                                                                                                                                                |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
|                             |          | 8                                                                                                                                                |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
|                             |          | 11                                                                                                                                               |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
|                             |          | 12                                                                                                                                               |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
| Total Pumping Rate (gpm) #1 |          |                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
| PCE (ppm)                   | Well     | (10-3 to 10-7):<br>Elapsed Time = 5970 min<br>Volume = 359000 gal<br>Flow Rate = 60.1 gpm<br>Perc Removal = $\rightarrow$<br>(no recent results) |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    | No Sample Taken this week |                                  |
|                             |          |                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
|                             |          |                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
|                             |          |                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
|                             |          |                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
|                             |          |                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
| Stripper                    | Inlet    |                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
|                             | Outlet   |                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
|                             | X        |                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
|                             | Rem.     |                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |
| PCE Emitted (lb/hr)         |          |                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |                           |                                  |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |                     | DATE 10-9-86                                                                                                                                                                                                |                                                                                                            |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 10-10-86 |                                           |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|---------------|-------------------------------------------|--|--|--|--|--|--|--|--|--|--|----------|
|                             |                     | 2                                                                                                                                                                                                           | 4                                                                                                          | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.:                | Pumps On            | 4                                                                                                                                                                                                           | <div style="font-size: 2em; font-family: cursive;"> Partial Shutdown<br/> Prep for Winter Operation </div> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               | 10-10-86<br><br>12:00hr<br><br>18,918,700 |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 5                                                                                                                                                                                                           |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 7                                                                                                                                                                                                           |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 8                                                                                                                                                                                                           |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 11                                                                                                                                                                                                          |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 12                                                                                                                                                                                                          |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |                     |                                                                                                                                                                                                             |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well                | <div style="font-size: 1.2em; font-family: cursive;"> (10-7 to 10-10) :<br/> Elapsed Time = 2910 min<br/> Volume = 175700 gal<br/> Flow Rate = 60.4 gpm<br/> Perc Removal =<br/> (no recent results) </div> |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     |                                                                                                                                                                                                             |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     |                                                                                                                                                                                                             |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     |                                                                                                                                                                                                             |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     |                                                                                                                                                                                                             |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     |                                                                                                                                                                                                             |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper            | Inlet                                                                                                                                                                                                       |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | Outlet                                                                                                                                                                                                      |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | X Rem.                                                                                                                                                                                                      |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |
|                             | PCE Emitted (lb/hr) |                                                                                                                                                                                                             |                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |                                           |  |  |  |  |  |  |  |  |  |  |          |

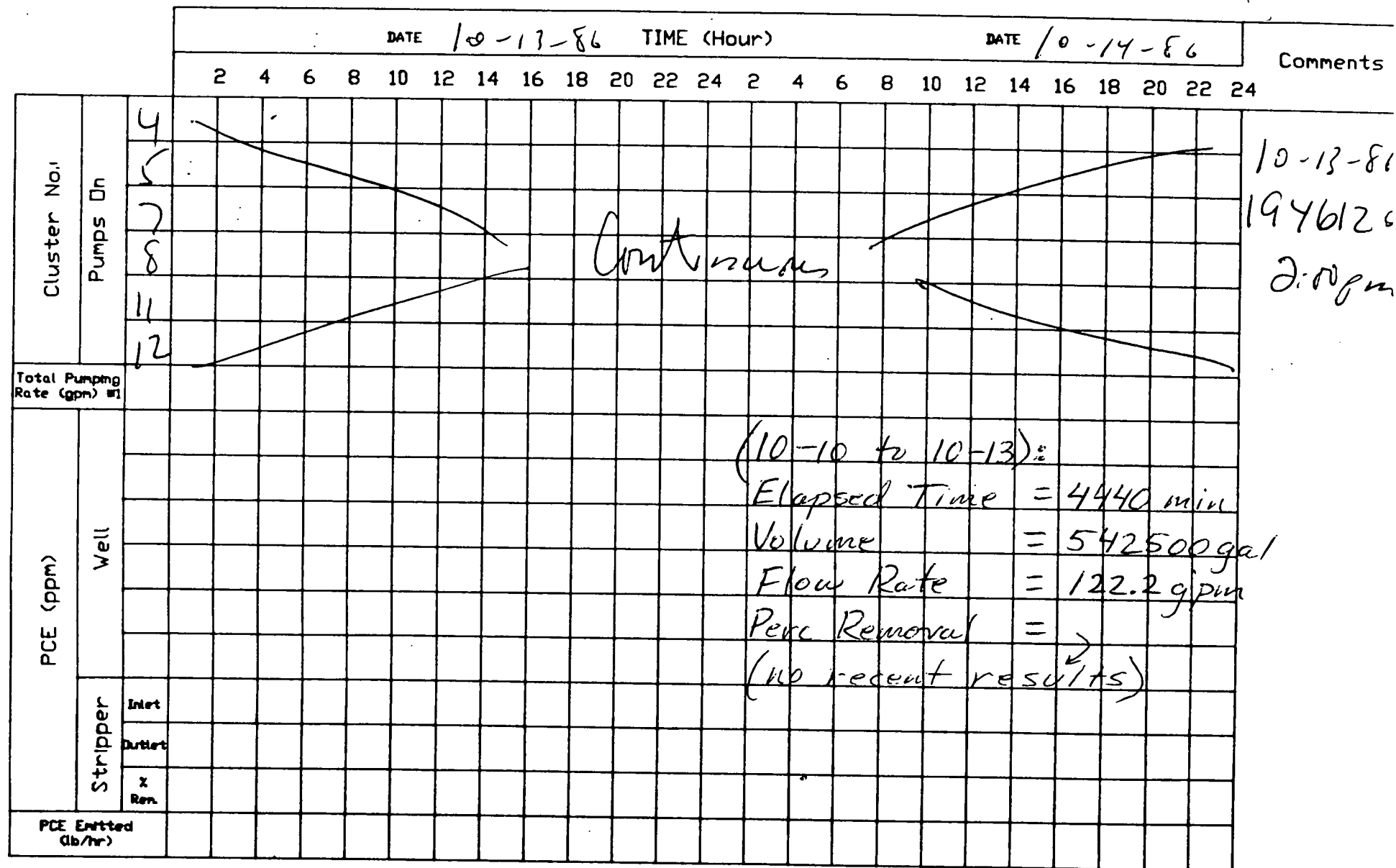
- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 10-11-86 TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 10-12-86 |   |   |   |    |    |    |    |    |    |    |    | Comments |
|-----------------------------|----------|---------------------------|---|---|---|----|----|----|----|----|----|----|----|---------------|---|---|---|----|----|----|----|----|----|----|----|----------|
|                             |          | 2                         | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2             | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |          |
| Cluster No.:                | Pumps On | 4                         |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |          |
|                             | 5        |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |          |
|                             | 7        |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |          |
|                             | 8        |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |          |
|                             | 11       |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |          |
|                             | 12       |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |          |
| Total Pumping Rate (gpm) #1 |          |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |          |
| PCE (ppm)                   | Well     |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |          |
|                             | Stripper | Inlet                     |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |          |
|                             |          | Outlet                    |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |          |
|                             |          | % Rem.                    |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |          |
| PCE Entered (lb/hr)         |          |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |          |

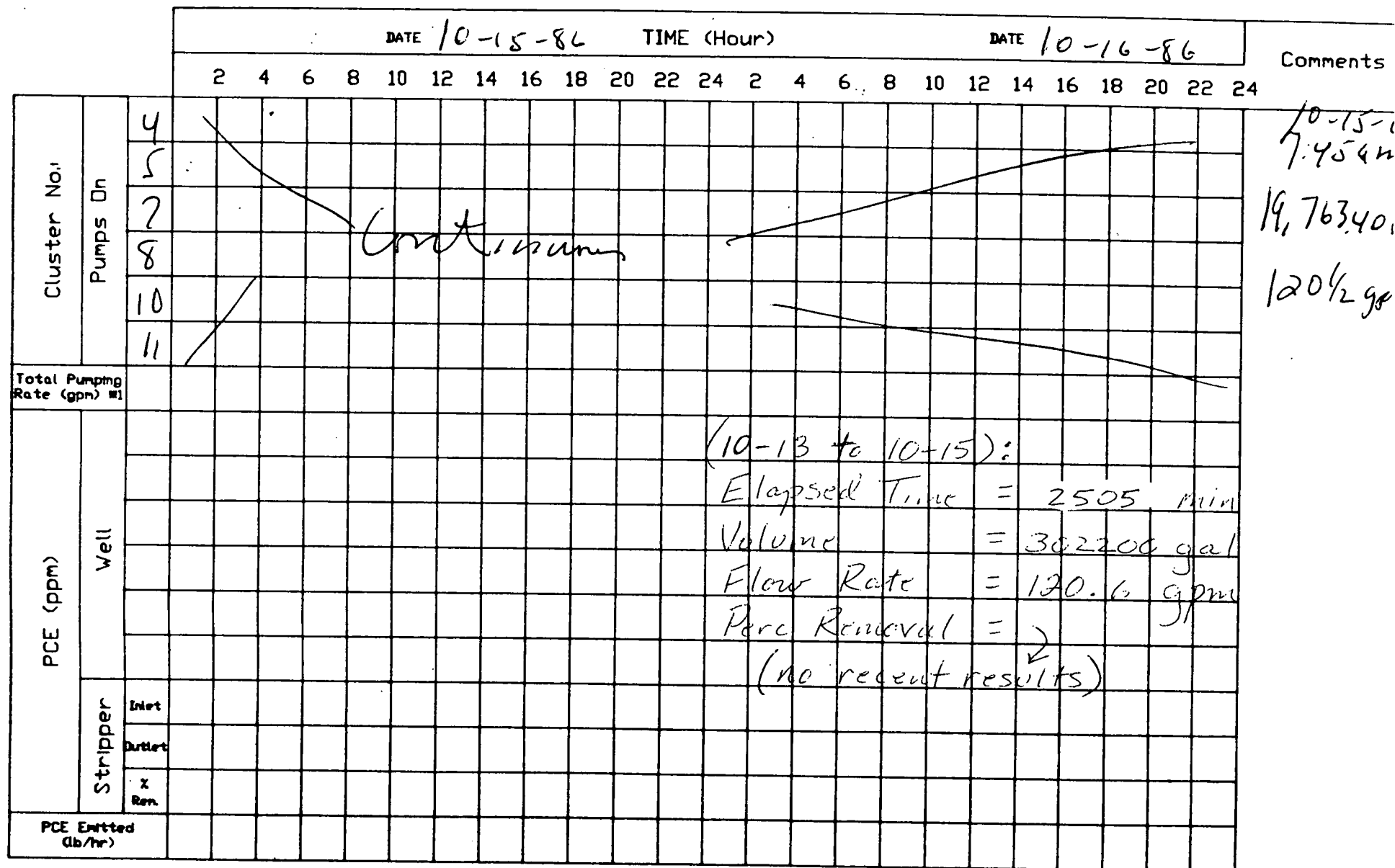
- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM



- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM



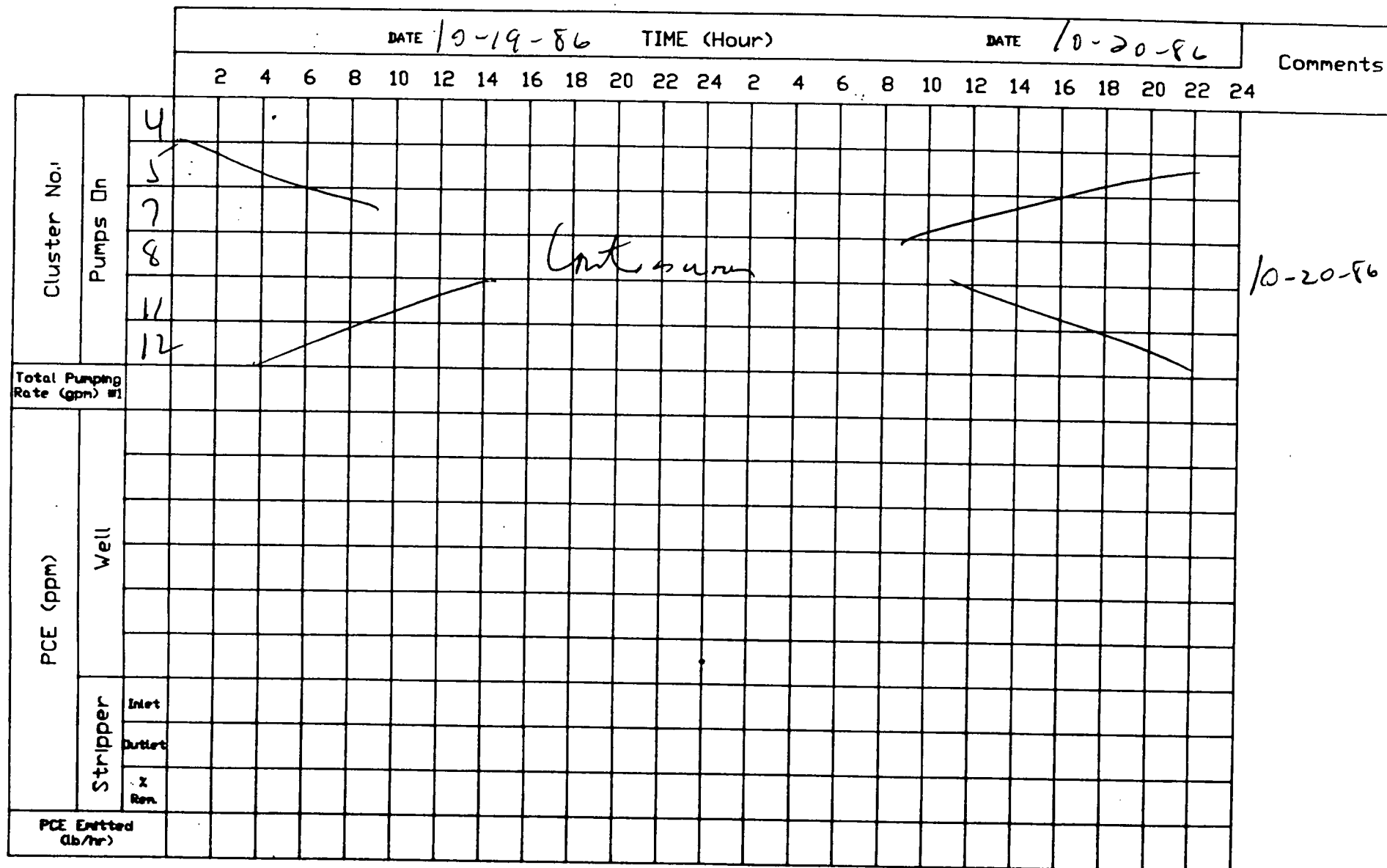
- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 10-17-86 |   |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 10-18-86 |  |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|---------------|---|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|---------------|--|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2             | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |               |  |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No. 1               | Pumps On | 4             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 5             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 7             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 11            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 12            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
| Stripper                    | Inlet    |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | Outlet   |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | % Rem.   |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE Entitled (lb/hr)        |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |               |  |  |  |  |  |  |  |  |  |  |  |          |

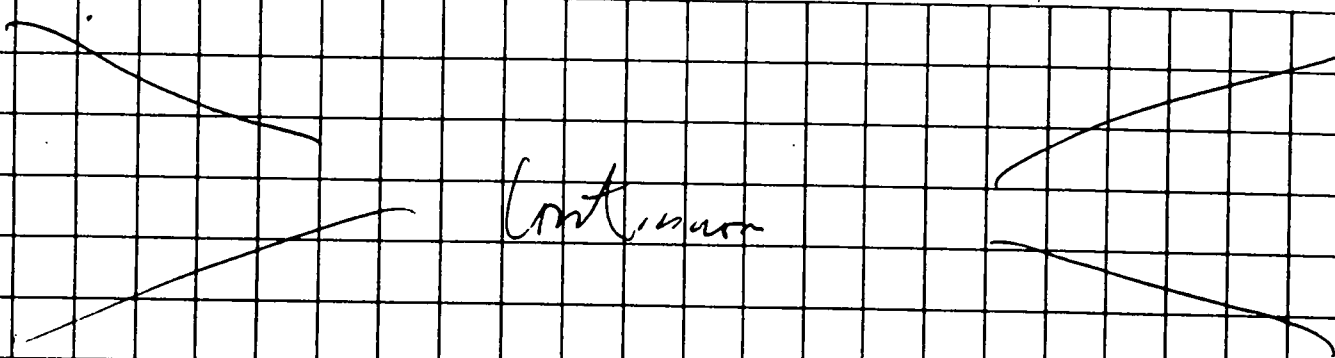
- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM



- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

## WAUSAU CHEMICAL EXTRACTION PROGRAM

|                              |          | DATE 10-21-86           |                                                                                    |   |   |    |    |    |    |    |    |    |    | TIME (Hour)               |   |   |   |    |    |    |    |    |    |    |    | DATE 10-22-86                      |                                  |  |  |  |  |  |  |  |  |  |  | Comments |
|------------------------------|----------|-------------------------|------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|---------------------------|---|---|---|----|----|----|----|----|----|----|----|------------------------------------|----------------------------------|--|--|--|--|--|--|--|--|--|--|----------|
|                              |          | 2                       | 4                                                                                  | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2                         | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No. 1                | Pumps On | 4                       |  |   |   |    |    |    |    |    |    |    |    |                           |   |   |   |    |    |    |    |    |    |    |    |                                    | 10/21/86<br>2:30 PM<br>20,844.00 |  |  |  |  |  |  |  |  |  |  |          |
|                              |          | 5                       |                                                                                    |   |   |    |    |    |    |    |    |    |    |                           |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
|                              |          | 7                       |                                                                                    |   |   |    |    |    |    |    |    |    |    |                           |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
|                              |          | 6                       |                                                                                    |   |   |    |    |    |    |    |    |    |    |                           |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
|                              |          | 11                      |                                                                                    |   |   |    |    |    |    |    |    |    |    |                           |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
|                              |          | 12                      |                                                                                    |   |   |    |    |    |    |    |    |    |    |                           |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) [ ] |          | (10-15 to 10-21) :      |                                                                                    |   |   |    |    |    |    |    |    |    |    | (10-21 to 10-22) :        |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                    | Well     | Elapsed Time = 9045 min |                                                                                    |   |   |    |    |    |    |    |    |    |    | Elapsed Time = 1230 min   |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
|                              |          | Volume = 1080600 gal    |                                                                                    |   |   |    |    |    |    |    |    |    |    | Volume = 147700 gal       |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
|                              |          | Flow Rate = 119.5 gpm   |                                                                                    |   |   |    |    |    |    |    |    |    |    | Flow Rate = 120.1 gpm     |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
|                              |          | Perc Removal =          |                                                                                    |   |   |    |    |    |    |    |    |    |    | Perc Removal = 6.19 #/day |   |   |   |    |    |    |    |    |    |    |    | 10/22/86<br>11:00 AM<br>20,991.700 |                                  |  |  |  |  |  |  |  |  |  |  |          |
|                              |          | (no recent results)     |                                                                                    |   |   |    |    |    |    |    |    |    |    | (used 10-22 results)      |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
|                              |          | Stripper                | Inlet                                                                              |   |   |    |    |    |    |    |    |    |    |                           |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
| Outlet                       |          |                         |                                                                                    |   |   |    |    |    |    |    |    |    |    |                           |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
| % Rem.                       |          |                         |                                                                                    |   |   |    |    |    |    |    |    |    |    |                           |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |
| PCE Entitled (lb/hr)         |          |                         |                                                                                    |   |   |    |    |    |    |    |    |    |    |                           |   |   |   |    |    |    |    |    |    |    |    |                                    |                                  |  |  |  |  |  |  |  |  |  |  |          |

- ```

#1 : Estimated pumping rate = 27 gpm/pump
#2 : Limited by max. pumping capacity of 150 gpm
#3 : Using initial concentration
#4 : Using final concentration

```

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 10-23-86 TIME (Hour)												DATE 10-24-86												Comments	
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24		
Cluster No.	Pumps On	4																									
		5																									
		7																									
		8																									
		10																									
		11																									
Total Pumping Rate (gpm) #1																											
PCE (ppm)	Well																										
	Stripper	Inlet																									
		Outlet																									
		X																									
		Rem.																									
PCE Entitled (lb/hr)																											

- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 10/25/86												TIME (Hour)												DATE 10/26/86												Comments
		2	4	6	8	10	12	14	16	18	20	22	24	2	4	6	8	10	12	14	16	18	20	22	24													
Cluster No.	Pumps On	4																																				
		5																																				
		7																																				
		8																																				
		10																																				
		11																																				
Total Pumping Rate (gpm) #1																																						
PCE (ppm)	Well																																					
	Stripper	Inlet																																				
		Outlet																																				
		X																																				
		Rem.																																				
PCE Emitted (lb/hr)																																						

- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

WAUSAU CHEMICAL EXTRACTION PROGRAM

		DATE 10/27/86												TIME (Hour)												DATE 10/28/86												Comments
		2 4 6 8 10 12 14 16 18 20 22 24 2 4 6 8 10 12 14 16 18 20 22 24																																				
Cluster No.1	Pumps On	4	Continuum Some cycling of well #4 & 7 due to low water level. River brought down by Wise Valley Improvement Co. (10-23 to 10-27): Elapsed Time = 5505 min Volume = 674,000 gal Flow Rate = 122.4 gpm Perc Removal = 2 (recent results too different, e.g. 10-22 vs. 10-28)																								10/27/86											
		5																																				
		7																																				
		8																																				
		10																																				
		11																																				
Total Pumping Rate (gpm) #1																										21,867,000												
PCE (ppm)	Well																									122 gpm												
	Stripper	Inlet																																				
		Outlet																																				
		x																																				
		Rem.																																				
PCE Entered (lb/hr)																																						

- ```

#1 : Estimated pumping rate = 27 gpm/pump
#2 : Limited by max. pumping capacity of 150 gpm
#3 : Using initial concentration
#4 : Using final concentration

```

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE <u>10/29/86</u> TIME (Hour) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    | DATE <u>10/30/86</u> |   |   |   |    |    |    |    |    |    |    |    | Comments |  |
|-----------------------------|----------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|----------------------|---|---|---|----|----|----|----|----|----|----|----|----------|--|
|                             |          | 2                                | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2                    | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |          |  |
| Cluster No.                 | Pumps On | 4                                | <div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to bottom right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to bottom left, transparent 49%, black 49%, black 51%, transparent 51%);"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to top left, transparent 49%, black 49%, black 51%, transparent 51%);"></div> </div> <p style="font-size: 2em; margin-top: 10px;">Continuum</p> <p style="font-size: 1.5em; margin-top: 10px;">Turned off High Level<br/>Two Low<br/>Throttled to reduce flow<br/>to avoid cycling.</p> |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 5                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 7                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 8                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 10                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 11                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
| Total Pumping Rate (gpm) #1 |          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
| PCE (ppm)                   | Well     |                                  | <p>(10-27 to 10-30):</p> <p>Elapsed Time = 4425 min</p> <p>Volume = 496,500 gal</p> <p>Flow Rate = 110.7 gpm</p> <p>Perc Removal = 1.20 #/day</p> <p>(used 10-28 results)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             | Stripper | Inlet                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | Outlet                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | X                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | Rem.                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |
| PCE Entitled (lb/hr)        |          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |    |          |  |

- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 10/31/86 TIME (Hour) |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    | DATE 11/1/86 |   |   |   |    |    |    |    |    |    |    |    | Comments |  |
|-----------------------------|----------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|--------------|---|---|---|----|----|----|----|----|----|----|----|----------|--|
|                             |          | 2                         | 4                                                                                                                                            | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2            | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |          |  |
| Cluster No.                 | Pumps On | 5                         | <div style="position: relative; width: 100%; height: 100%;"> <span style="position: absolute; top: 10%; left: 10%;">Continuous</span> </div> |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 7                         |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 8                         |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 10                        |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          | 11                        |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| Total Pumping Rate (gpm) #1 |          |                           |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| PCE (ppm)                   | Well     |                           |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                           |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                           |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             |          |                           |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| Stripper                    | Inlet    |                           |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             | Outlet   |                           |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
|                             | X Rem.   |                           |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |
| PCE Emitted (lb/hr)         |          |                           |                                                                                                                                              |   |   |    |    |    |    |    |    |    |    |              |   |   |   |    |    |    |    |    |    |    |    |          |  |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

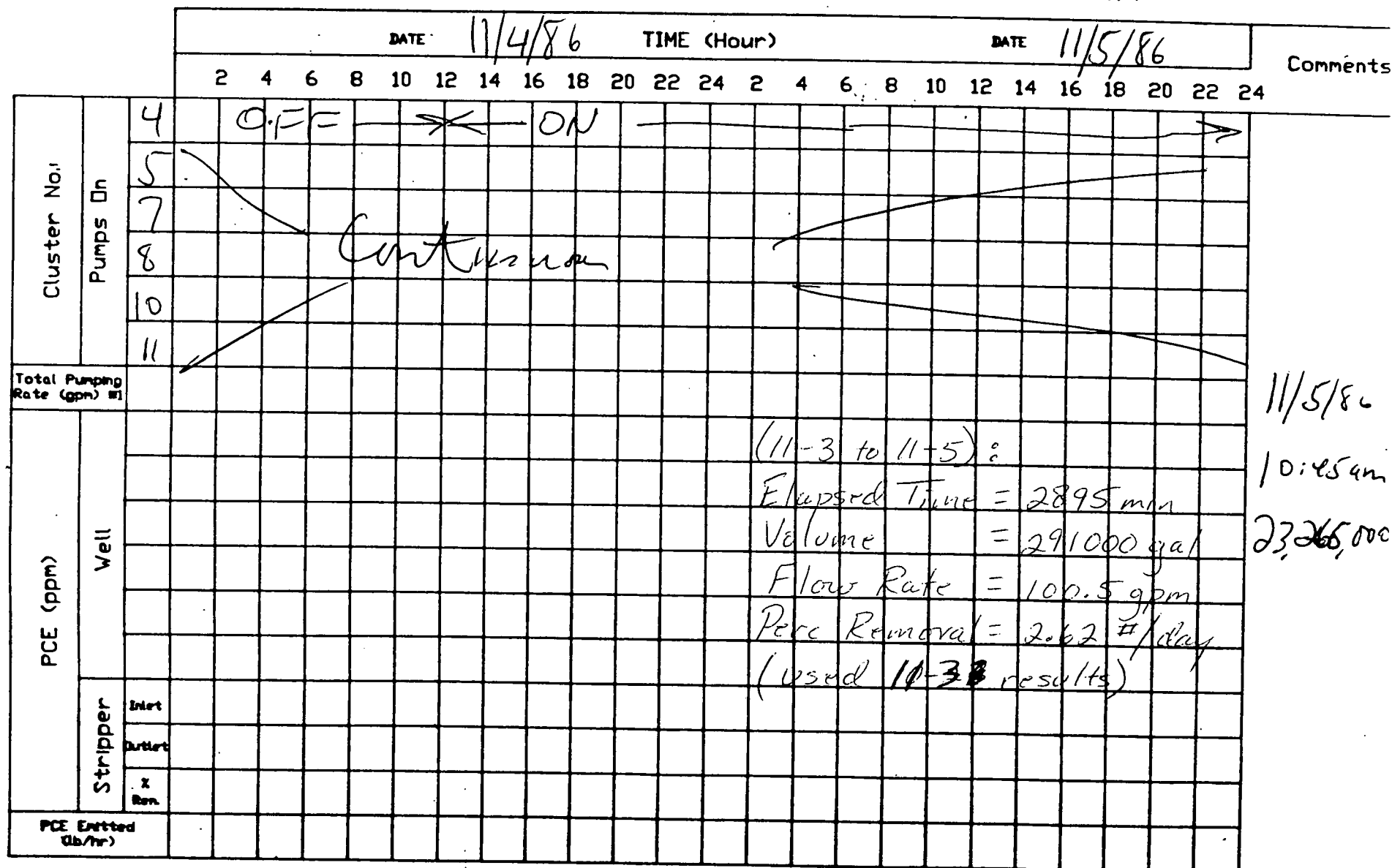
# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |                     | DATE 11/2/86                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 11/3/86 |  |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|--------------|--|--|--|--|--|--|--|--|--|--|--|----------|
|                             |                     | 2                                                                                                                                                 | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |              |  |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No. 1               | Pumps On            | 5                                                                                                                                                 | <div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to bottom right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> </div> <p style="font-size: 2em; margin-top: 10px;">Continued</p> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 7                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 8                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 10                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 11                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |                     |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well                | (10-30 to 11-3) :<br>Elapsed Time = 5610 min<br>Volume = 610,500 gal<br>Flow Rate = 108.8 gpm<br>Perc Removal = 2.84 #/day<br>(used 11-3 results) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper            | Inlet                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | Outlet                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | % Rem.                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | PCE Emitted (lb/hr) |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |              |  |  |  |  |  |  |  |  |  |  |  |          |

10:30 am  
11/3/86  
22,977.5

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM



- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 11/6/86 |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 11/7/86                                                                                                                                                             |  |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|----------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|----------|
|                             |          | 2            | 4                                                                                                                                                                                                                                                                                                                                                                        | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.:                | Pumps On | 4            | <div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; background: linear-gradient(to top right, transparent 49%, black 49%, black 51%, transparent 51%);"></div> <div style="position: absolute; top: 0; left: 50%; transform: translateX(-50%);">Continued</div> </div> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 5            |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 7            |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 8            |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 10           |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          | 11           |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |          |              |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    | <p>(11-5 to 11-6):</p> <p>Elapsed Time = 1755 min</p> <p>Volume = 170800 gal</p> <p>Flow Rate = 97.3 gpm</p> <p>Perc Removal = 2.54 #/day</p> <p>(used 11-3 results)</p> |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well     |              |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |              |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |              |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |              |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |              |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |          |              |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
| Stripper                    | Inlet    |              |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | Outlet   |              |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | X Ren.   |              |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE Emitted (lb/hr)         |          |              |                                                                                                                                                                                                                                                                                                                                                                          |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |          |

11/6/86  
4:00 p.m.  
23,435.8

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                                     |                 | <u>11/8/86</u> |   | <small>DATE</small> | <small>TIME (Hour)</small> |    | <small>DATE</small> | <u>11/9/86</u> |    | <small>Comments:</small> |    |    |    |    |
|-------------------------------------|-----------------|----------------|---|---------------------|----------------------------|----|---------------------|----------------|----|--------------------------|----|----|----|----|
|                                     |                 | 2              | 4 | 6                   | 8                          | 10 | 12                  | 14             | 16 |                          | 18 | 20 | 22 | 24 |
| <b>Cluster No.</b>                  | Pumps On        | 4              |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     |                 | 5              |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     |                 | 7              |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     |                 | 8              |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     |                 | 10             |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     |                 | 11             |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
| <b>Total Pumping Rate (gpm) [ ]</b> |                 |                |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
| <b>PCE (ppm)</b>                    | <b>Well</b>     |                |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     |                 |                |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     |                 |                |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     |                 |                |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     |                 |                |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     |                 |                |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     | <b>Stripper</b> | Inlet          |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     |                 | Outlet         |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     |                 | X              |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
|                                     |                 | Ran            |   |                     |                            |    |                     |                |    |                          |    |    |    |    |
| <b>PCE Entitled (lb/hr)</b>         |                 |                |   |                     |                            |    |                     |                |    |                          |    |    |    |    |

*(Handwritten note across grid: Continuation)*

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                              |          | PUMP SCHEDULE |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    | Comment: |                                |  |  |  |  |  |  |  |  |
|------------------------------|----------|---------------|---|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|----------|--------------------------------|--|--|--|--|--|--|--|--|
|                              |          | DATE 11/10/86 |   |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    |          | DATE 11/11/86                  |  |  |  |  |  |  |  |  |
|                              |          | 2             | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |          |                                |  |  |  |  |  |  |  |  |
| Cluster No.                  | Pumps On | 4             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          | 11/10/86<br>2:00 pm<br>2398700 |  |  |  |  |  |  |  |  |
|                              |          | 5             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          | 6             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          | 7             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          | 8             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          | 10            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
| Total Pumping Rate (gpm) [ ] | Well     | 11            |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
| PCE (ppm)                    | Stripper | Inlet         |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          | Outlet        |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          | X             |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          | Rem.          |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
|                              |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |
| PCE Emitted (lb/hr)          |          |               |   |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |          |                                |  |  |  |  |  |  |  |  |

- \*1 : Estimated pumping rate = 27 gpm/pump
- \*2 : Limited by max. pumping capacity of 150 gpm
- \*3 : Using initial concentration
- \*4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

[illegible]

- 1 : Estimated pumping rate = 27 gpm/pump
- 2 : Limited by max. pumping capacity of 150 gpm
- 3 : Using initial concentration
- 4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE 11/14/86 TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE 11/15/86 |   |   |   |    |    |    |    |    |    |    |    | Comments                                                                                                                              |
|-----------------------------|----------|---------------------------|---|---|---|----|----|----|----|----|----|----|----|---------------|---|---|---|----|----|----|----|----|----|----|----|---------------------------------------------------------------------------------------------------------------------------------------|
|                             |          | 2                         | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2             | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |                                                                                                                                       |
| Cluster No.                 | Pumps On | 4                         |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    | 11/14/86<br>2:40pm<br>24,549,200<br>1                                                                                                 |
|                             |          | 5                         |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
|                             |          | 7                         |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
|                             |          | 8                         |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
|                             |          | 10                        |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
|                             |          | 11                        |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
| Total Pumping Rate (gpm) #1 |          |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
| PCE (ppm)                   | Well     |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    | (11-10 to 11-14):<br>Elapsed Time = 5800 min<br>Volume = 562,200 gal<br>Flow Rate = 96.9 gpm<br>Perc Removal =<br>(no recent results) |
|                             |          |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
|                             |          |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
|                             |          |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
|                             |          |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
|                             | Stripper | Inlet                     |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
|                             |          | Outlet                    |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
|                             |          | X                         |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
|                             |          | Rem.                      |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
|                             |          |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |
| PCE Emitted (lb/hr)         |          |                           |   |   |   |    |    |    |    |    |    |    |    |               |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                       |

- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |                     | DATE <u>11/16/86</u> |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    | TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE <u>11/17/86</u> |  |  |  |  |  |  |  |  |  |  |  | Comments |
|-----------------------------|---------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|----|----|-------------|---|---|---|----|----|----|----|----|----|----|----|----------------------|--|--|--|--|--|--|--|--|--|--|--|----------|
|                             |                     | 2                    | 4                                                                                                                                                                                                                                                                                                                                                                | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |                      |  |  |  |  |  |  |  |  |  |  |  |          |
| Cluster No.:                | Pumps On            | 4                    | <div style="font-size: 2em; font-family: cursive;">Continuation</div>                                                                                                                                                                                                                                                                                            |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 5                    |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 7                    |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 8                    |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 10                   |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | 11                   |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
| Total Pumping Rate (gpm) #1 |                     |                      |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
| PCE (ppm)                   | Well                |                      | <div style="font-size: 1.2em; font-family: cursive;">                     (11-14 to 11-17) :<br/>                     Elapsed Time = 3920 min<br/>                     Volume = 379,000 gal<br/>                     Flow Rate = 96.7 gpm<br/>                     Perc Removal = 2.36%/day<br/>                     (used 11-17 results)                 </div> |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     |                      |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     |                      |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     |                      |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     |                      |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | Stripper            | Inlet                |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | Outlet               |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
|                             |                     | X<br>Rem.            |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |
|                             | PCE Entered (lb/hr) |                      |                                                                                                                                                                                                                                                                                                                                                                  |   |   |    |    |    |    |    |    |    |    |             |   |   |   |    |    |    |    |    |    |    |    |                      |  |  |  |  |  |  |  |  |  |  |  |          |

11/17/86  
 24,928.2  
 8:00 am  
  
 Sample  
 11/17/86  
 2:30 pm

- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | DATE <u>11/18/86</u> TIME (Hour) |   |   |   |    |    |    |    |    |    |    |    | DATE <u>11/24/86</u> |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     | Comment                                                             |                                                           |
|-----------------------------|----------|----------------------------------|---|---|---|----|----|----|----|----|----|----|----|----------------------|---|---|---|----|----|----|----|----|----|----|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------|
|                             |          | 2                                | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2                    | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24                                                                                                                                                  |                                                                     |                                                           |
| Cluster No.                 | Pumps On | 4                                |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     | <div style="font-size: 2em; font-family: cursive;">Continuous</div> | 11/24/86<br>25,897.00<br>8:00 am<br><br>Sample<br>8:00 am |
|                             |          | 5                                |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
|                             |          | 2                                |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
|                             |          | 8                                |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
|                             |          | 10                               |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
|                             |          | 11                               |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
| Total Pumping Rate (gpm) #1 |          |                                  |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
| PCE (ppm)                   | Well     |                                  |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    | (11-17 to 11-24):<br>Elapsed Time = 10,020 min<br>Volume = 96,880 gal<br>Flow Rate = 96.1 gpm<br>Perc. Removal = 2.34 %/day<br>(used 11-17 results) |                                                                     |                                                           |
|                             |          |                                  |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
|                             |          |                                  |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
|                             |          |                                  |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
|                             |          |                                  |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
|                             |          |                                  |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
|                             | Stripper | Inlet                            |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
|                             |          | Outlet                           |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
|                             |          | X                                |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
|                             |          | Rem.                             |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |
| PCE Entitled (lb/hr)        |          |                                  |   |   |   |    |    |    |    |    |    |    |    |                      |   |   |   |    |    |    |    |    |    |    |                                                                                                                                                     |                                                                     |                                                           |

- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

[illegible]

- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

[illegible]

- #1 : Estimated pumping rate = 27 gpm/pump
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# WAUSAU CHEMICAL EXTRACTION PROGRAM

[illegible]

- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

|                             |          | <div style="display: flex; justify-content: space-between;"> <span>DATE <u>12-16-86</u></span> <span>TIME (Hour)</span> <span>DATE <u>12-27-86</u></span> </div> |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    | Comments                                                                                                                                                            |
|-----------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|----|----|----|----|----|----|----|----|---|---|---|---|----|----|----|----|----|----|----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |          | 2                                                                                                                                                                | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |                                                                                                                                                                     |
| Cluster No.                 | Pumps On | 4                                                                                                                                                                |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    | <u>12-27-86</u><br>9:40 am<br>29, 92, 570c                                                                                                                          |
|                             |          | 5                                                                                                                                                                |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
|                             |          | 7                                                                                                                                                                |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
|                             |          | 8                                                                                                                                                                |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
|                             |          | 10                                                                                                                                                               |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
|                             |          | 11                                                                                                                                                               |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
| Total Pumping Rate (gpm) #1 |          |                                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
| PCE (ppm)                   | Well     |                                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    | No Sample<br><br>(12-15 to 12-23):<br>Elapsed Time = 11590 min<br>Volume = 1110900 gal<br>Flow Rate = 95.8 gpm<br>Perc Removal = 2.13 #/day<br>(used 12-15 results) |
|                             |          |                                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
|                             |          |                                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
|                             |          |                                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
|                             |          |                                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
|                             |          |                                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
|                             | Stripper | Inlet                                                                                                                                                            |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
|                             |          | Outlet                                                                                                                                                           |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
|                             |          | X                                                                                                                                                                |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
|                             |          | Rem.                                                                                                                                                             |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |
| PCE Emitted (lb/hr)         |          |                                                                                                                                                                  |   |   |   |    |    |    |    |    |    |    |    |   |   |   |   |    |    |    |    |    |    |    |    |                                                                                                                                                                     |

- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration

# WAUSAU CHEMICAL EXTRACTION PROGRAM

[illegible]

- #1 : Estimated pumping rate = 27 gpm/pump
- #2 : Limited by max. pumping capacity of 150 gpm
- #3 : Using initial concentration
- #4 : Using final concentration





RECEIVED OCT 6 1986

October 3, 1986

Wausau Chemical Corp.  
2001 N. River Drive  
Wausau, WI 54401

Attn: Art Flashinski

Re: VOC Analysis

Attached are the results for September 22, 1986 water samples. EPA Method 601 was used to complete the analysis.

If you have any questions, please call.

Sincerely,

ZIMPRO INC.

Mary C. Christie Heuser  
Instrumentation Chemist

MCCH/lc

SENT TO STS  
10-6-86  
10AM  
JRE

Wausau Chemical  
VOC Analysis (ug/l)

|                       | <u>Detection<br/>Limit</u> | <u>Well 4<br/>9-22-86</u> | <u>Well 5<br/>9-22-86</u> |
|-----------------------|----------------------------|---------------------------|---------------------------|
| Chloroform            | 20                         | X                         | X                         |
| 1,1-Dichloroethane    | 20                         | X                         | X                         |
| 1,1-Dichloroethylene  | 100                        | X                         | X                         |
| 1,2-Dichloroethylene  | 60                         | 240                       | 120                       |
| Ethylbenzene          | 40                         | 340                       | 160                       |
| Tetrachloroethylene   | 20                         | 1,420                     | 4,460                     |
| Toluene               | 20                         | X                         | 280                       |
| 1,1,1-Trichloroethane | 20                         | X                         | X                         |
| Trichloroethylene     | 20                         | 160                       | 220                       |
| Vinyl chloride        | 400                        | X                         | X                         |
| Analytical No.        |                            | 22019                     | 22020                     |

0 X = Analyzed but not detected

Wausau Chemical  
VOC Analysis (ug/l)

|                | <u>Influent</u> | <u>Effluent</u> |
|----------------|-----------------|-----------------|
| Perc (ug/l)    | 3,540           | 255             |
| Analytical No. | 22017           | 22018           |

92.8%



RECEIVED OCT 9 1986

October 8, 1986

Wausau Chemical Corp.  
2001 N. River Drive  
Wausau, WI 54401

Attn: Art Flashinski

Re: VOC Analysis

Listed below are the results for the September 29, 1986 water samples. EPA Method 601 was used to complete the analysis.

|                | <u>Influent</u> | <u>Effluent</u> |
|----------------|-----------------|-----------------|
| Perc (ug/l)    | 6,220.          | 640.            |
| Analytical No. | 22273           | 22274           |

If you have any questions, please call.

Sincerely,

ZIMPRO INC.

*Mary C. Christie Heuser*

Mary C. Christie Heuser  
Instrumentation Chemist

MCCH/lis

SENT TO  
MILSOP  
10-9-86



RECEIVED OCT 29 1986

October 28, 1986

Wausau Chemical Corp.  
2001 N. River Drive  
Wausau, WI 54401

Attn: Art Flashinski

Re: VOC Analysis

Listed below are the results for the October 22, 1986 water samples. EPA Method 601 was used to complete the analysis.

|                | <u>Influent</u> | <u>Effluent</u> |
|----------------|-----------------|-----------------|
| Perc (ug/l)    | 4,820.          | 520.            |
| Analytical No. | 22903           | 22904           |

89.2%

If you have any questions, please call.

Sincerely,

ZIMPRO INC.

*Mary C. Christie Heuser*  
Mary C. Christie Heuser  
Instrumentation Chemist

MCCH/lis

Copy  
SENT TO  
MARK MILLER  
10/29/86  
11:30 AM



RECEIVED NOV 4 1986

November 3, 1986

Wausau Chemical Corp.  
2001 N. River Drive  
Wausau, WI 54401

Attn: Art Flashinski

Re: VOC Analysis

Listed below are the results for the October 28, 1986  
water samples. EPA Method 601 was used to complete the  
analysis.

|                | <u>Influent</u> | <u>Effluent</u> |
|----------------|-----------------|-----------------|
| Perc (ug/l)    | 998.            | 97.             |
| Analytical No. | 22300           | 22301           |

If you have any questions, please call.

Sincerely,

ZIMPRO INC.

*Mary C. Christie Heuser*

Mary C. Christie Heuser  
Instrumentation Chemist

MCCH/lrs

SENT TO  
SITS  
11-4-86

RECEIVED 11-10-86

  
ZIMPRO

November 6, 1986

Wausau Chemical Corp.  
2001 N. River Drive  
Wausau, WI 54401

Attn: Art Flashinski

Re: VOC Analysis

Listed below are the results for the November 3, 1986  
water samples. EPA Method 601 was used to complete the  
analysis.

|                | <u>Influent</u> | <u>Effluent</u> |       |
|----------------|-----------------|-----------------|-------|
| Perc (ug/l)    | 2,340.          | 164.            | 93.0% |
| Analytical No. | 23177           | 23178           |       |

If you have any questions, please call.

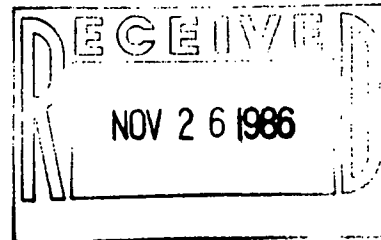
Sincerely,

ZIMPRO INC.

Mary C. Christie Heuser  
Instrumentation Chemist

MCCH/lis

SENT TO  
STS-MARK MILES?  
11-10-86



November 25, 1986

Wausau Chemical Corp.  
2001 N. River Drive  
Wausau, WI 54401

Attn: Art Flashinski

Re: VOC Analysis

Listed below are the results for the November 17, 1986 water samples. EPA Method 601 was used to complete the analysis.

|                | <u>Influent</u> | <u>Effluent</u> |
|----------------|-----------------|-----------------|
| Perc (ug/l)    | 2,115.          | 82.5            |
| Analytical No. | 23563           | 23564           |

96.1%

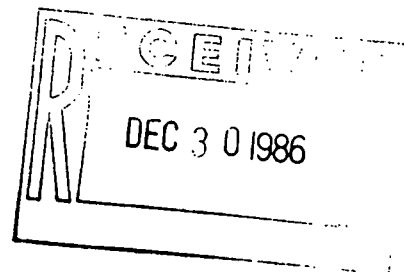
If you have any questions, please call.

Sincerely,

ZIMPRO INC.

*Mary C. Christie Heuser / lls*  
Mary C. Christie Heuser  
Instrumentation Chemist

MCCH/lis



December 23, 1986

Wausau Chemical Corp.  
2001 N. River Dr.  
Wausau, WI 54401

Attention: Mr. Art Flashinski

Reference: VOC Analysis

Gentlemen:

Attached are the results for samples taken December 2, 9, and 15, 1986. EPA Method 601 with PID (10.2 eV) and Hall detectors in series was used to complete the analysis.

If you have any questions, please call.

Sincerely,

ZIMPRO INC.

*Mary C. Christie Heuser*  
Mary C. Christie Heuser

kfc

Attachment

SENT TO MARK MILLER  
12-30-86  
JRC

WAUSAU CHEMICAL  
VOC ANALYSIS (ug/l)

|                           | <u>Detection<br/>Limits</u> | <u>Influent<br/>12-2-86</u> |
|---------------------------|-----------------------------|-----------------------------|
| Benzene                   | 5.0                         | X                           |
| Bromoform                 | 12.5                        | X                           |
| Bromomethane              | 25.0                        | X                           |
| Carbo Tetrachloride       | 2.5                         | X                           |
| Chlorobenzene             | 2.5                         | X                           |
| Chloroethane              | 25.0                        | X                           |
| 2-Chloroethylvinyl Ether  | 50.0                        | X                           |
| Chloroform                | 2.5                         | X                           |
| Chloromethane             | 150.                        | X                           |
| Dibromochloromethane      | 2.5                         | X                           |
| 1,2-Dichlorobenzene       | 7.5                         | X                           |
| 1,3-Dichlorobenzene       | 7.5                         | X                           |
| 1,4-Dichlorobenzene       | 7.5                         | X                           |
| Dichlorobromomethane      | 2.5                         | X                           |
| 1,1-Dichloroethane        | 2.5                         | X                           |
| 1,2-Dichloroethane        | 7.5                         | X                           |
| 1,1-Dichloroethylene      | 12.5                        | X                           |
| 1,2-Dichloroethylene      | 7.5                         | 90.0                        |
| Dichloromethane           | 5.0                         | X                           |
| 1,2-Dichloropropane       | 12.5                        | X                           |
| cis-1,3-Dichloropropene   | 7.5                         | X                           |
| trans-1,3-Dichloropropene | 25.0                        | X                           |
| Ethylbenzene              | 5.0                         | X                           |
| 1,1,2,2-Tetrachloroethane | 2.5                         | X                           |
| Tetrachloroethylene       | 2.5                         | 1,510                       |
| Toluene                   | 2.5                         | X                           |
| 1,1,1-Trichloroethane     | 2.5                         | 5.0                         |
| 1,1,2-Trichloroethane     | 2.5                         | X                           |
| Trichloroethylene         | 2.5                         | 190                         |
| Vinyl Chloride            | 50.0                        | X                           |
| Trichlorofluoromethane    | 5.0                         | X                           |
| Dichlorodifluoromethane   | 50.0                        | X                           |

Analytical No.

23857

X = Analyzed but not detected.

TO  
STS  
12-30-86  
JRE

WAUSAU CHEMICAL  
VOC ANALYSIS (ug/l)

|                           | Detection<br>Limit | B-3 <sup>2</sup><br>12-2-86 | Effluent<br>12-2-86 |
|---------------------------|--------------------|-----------------------------|---------------------|
| Benzene                   | 2.0                | X                           | X                   |
| Bromoform                 | 5.0                | X                           | X                   |
| Bromomethane              | 10.0               | X                           | X                   |
| Carbo Tetrachloride       | 1.0                | X                           | X                   |
| Chlorobenzene             | 1.0                | X                           | X                   |
| Chloroethane              | 10.0               | X                           | X                   |
| 2-Chloroethylvinyl Ether  | 20.0               | X                           | X                   |
| Chloroform                | 1.0                | X                           | X                   |
| Chloromethane             | 60.0               | X                           | X                   |
| Dibromochloromethane      | 1.0                | X                           | X                   |
| 1,2-Dichlorobenzene       | 3.0                | X                           | X                   |
| 1,3-Dichlorobenzene       | 3.0                | X                           | X                   |
| 1,4-Dichlorobenzene       | 3.0                | X                           | X                   |
| Dichlorobromomethane      | 1.0                | X                           | X                   |
| 1,1-Dichloroethane        | 1.0                | X                           | X                   |
| 1,2-Dichloroethane        | 3.0                | X                           | X                   |
| 1,1-Dichloroethylene      | 5.0                | X                           | X                   |
| 1,2-Dichloroethylene      | 3.0                | 3.5                         | 4.0                 |
| Dichloromethane           | 2.0                | X                           | X                   |
| 1,2-Dichloropropane       | 5.0                | X                           | X                   |
| cis-1,3-Dichloropropene   | 3.0                | X                           | X                   |
| trans-1,3-Dichloropropene | 10.0               | X                           | X                   |
| Ethylbenzene              | 2.0                | X                           | X                   |
| 1,1,2,2-Tetrachloroethane | 1.0                | X                           | X                   |
| Tetrachloroethylene       | 1.0                | 44.2                        | 44.0                |
| Toluene                   | 1.0                | X                           | 1.0                 |
| 1,1,1-Trichloroethane     | 1.0                | X                           | 1.0                 |
| 1,1,2-Trichloroethane     | 1.0                | X                           | X                   |
| Trichloroethylene         | 1.0                | 55.3                        | 4.0                 |
| Vinyl Chloride            | 20.0               | X                           | X                   |
| Trichlorofluoromethane    | 2.0                | X                           | X                   |
| Dichlorodifluoromethane   | 20.0               | X                           | X                   |

Analytical No.

23856

23858

X = Analyzed but not detected.

54 = Total  
PCE<sup>90</sup> = 77.1  
Total<sup>90</sup> = 17.0

TO  
STS  
12-30-86  
gfk

WAUSAU CHEMICAL  
VOC ANALYSIS (ug/l)

| <u>Sample</u> | <u>Date</u> | <u>PCE</u> | <u>Analytical No.</u> |       |
|---------------|-------------|------------|-----------------------|-------|
| Influent      | 12-9-86     | 1,940      | 24074                 | 97.0% |
| Effluent      | 12-9-86     | 57.5       | 24075                 |       |
| Influent      | 12-15-86    | 2,295      | 24155                 | 80.7% |
| Effluent      | 12-15-86    | 443        | 24156                 |       |

TO  
STS  
12-30-86  
JGA



STS Consultants Ltd.  
Green Bay  
540 Lambton 54303  
(416) 484-8800

# RECORD OF PHONE CALL

JOB NO. 12776B

DATE 1-9-87 START 3:15 FINISH 3:18

TO: Mary Meuser FROM: Mark Millsop  
Zimpro

## CONVERSATION

ME

Any results for late Dec  
for Wausan Chem?

OK, Thanks

OTHER PARTY.

→ Dec 29 sampling:  
→ PCE Inflant = 1565 ppb  
+ " Effluent = 59 ppb

REMARKS/ACTION



# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 9-22-86

Technician:

|               |    | Time: 7:30 am |            |            |            | Time: |            |            |            | Time: |            |            |            | Time: |            |            |            | Comments                                                                                                    |
|---------------|----|---------------|------------|------------|------------|-------|------------|------------|------------|-------|------------|------------|------------|-------|------------|------------|------------|-------------------------------------------------------------------------------------------------------------|
|               |    | W.L.          | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF | W.L.  | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF | W.L.  | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF | W.L.  | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF |                                                                                                             |
| Pumping Wells | 7  | 17' 11"       |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               | 8  | 20' 3"        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               | 9  | 14' 11"       |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               | 10 | 18' 4"        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               | 11 | 19' 0"        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               | 12 | 15' 5"        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
| Other Wells   | 1  | 15' 1"        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               | 2  | 15' 2"        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               | 3  | 15' 8"        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               | 4  | 19' 5"        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               | 5  | 21' 4"        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               | 6  | 15' 10"       |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               | 13 | 14' 11"       |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               | 14 | 14' 9"        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               | 15 | 14' 8"        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               |    |               |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            | <p>T.F.C.: Top float control set at</p> <p>B.F.C.: Bottom float control set at</p> <p>W.L.: Water level</p> |
|               |    |               |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               |    |               |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               |    |               |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               |    |               |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |
|               |    |               |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |                                                                                                             |

Monitor

1 12' 5"  
2 13' 5"  
3 13' 6"  
5 11' 10"  
6 14' 3"

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 9-26-86  
Technician: RG

|               |    | Time: 3:00 pm |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|---------------|----|---------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|               |    | W.L.          | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF |          |
| Pumping Wells | 4  | 19' 0"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 5  | 21' 3"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 7  | 20' 0"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 8  | 20' 0"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 10 | 21' 1"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 11 | 21' 5"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells   | 1  | 15' 0"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 2  | 15' 2"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 3  | 15' 5"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 6  | 15' 6"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 9  | 14' 10"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 12 | 21' 1"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 13 | 14' 9"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 14 | 14' 8"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 15 | 14' 5"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               |    |               |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

Monitoring

T.F.C.: Top float control set at

B.F.C.: Bottom float control set at

W.L.: Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 9-29-86  
Technician: R.F.

|               |    | Time:  |            |            |            | Time: |            |            |            | Time: |            |            |            | Time: |            |            |            | Comments |
|---------------|----|--------|------------|------------|------------|-------|------------|------------|------------|-------|------------|------------|------------|-------|------------|------------|------------|----------|
|               |    | W.L.   | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF | W.L.  | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF | W.L.  | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF | W.L.  | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF |          |
| Pumping Wells | 4  | 17'4"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 5  | 19'0"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 7  | 19'1"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 8  | 18'6"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 10 | 19'0"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 11 | 19'8"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
| Other Wells   | 1  | 13'1"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 2  | 13'2"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 3  | 13'7"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 6  | 13'8"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 9  | 12'10" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 12 | 13'3"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 13 | 12'2"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 14 | 12'8"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 15 | 12'7"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               |    |        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |

Monitoring

1 11'0"  
2 11'7"  
3 11'0"

5 9'7"  
6 12'4"

T.F.C.: Top float control set at

B.F.C.: Bottom float control set at

W.L.: Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 10-8-86  
Technician: B.J.

|               |    | Time:   |            |            |            | Time: |            |            |            | Time: |            |            |            | Time: |            |            |            | Comments |
|---------------|----|---------|------------|------------|------------|-------|------------|------------|------------|-------|------------|------------|------------|-------|------------|------------|------------|----------|
|               |    | W.L.    | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF | W.L.  | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF | W.L.  | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF | W.L.  | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF |          |
| Pumping Wells | 4  | 18' 8"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 5  | 20' 6"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 7  | 19' 9"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 8  | 20' 0"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 10 | 20' 7"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 11 | 20' 9"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
| Other Wells   | 1  | 14' 11" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 2  | 15' 1"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 3  | 15' 3"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 6  | 15' 4"  |            |            |            | 1     | 12' 4"     |            |            |       |            |            |            |       |            |            |            |          |
|               | 9  | 14' 9"  |            |            |            | 2     | 13' 1"     |            |            |       |            |            |            |       |            |            |            |          |
|               | 12 | 13' 0"  |            |            |            | 3     | 13' 5"     |            |            |       |            |            |            |       |            |            |            |          |
|               | 13 | 14' 8"  |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|               | 14 | 14' 8"  |            |            |            | 5     | 11' 4"     |            |            |       |            |            |            |       |            |            |            |          |
|               | 15 | 14' 6"  |            |            |            | 6     | 13' 11"    |            |            |       |            |            |            |       |            |            |            |          |

*Monitoring Well*

T.F.C.: Top float  
control set at

B.F.C.: Bottom float  
control set at

W.L.: Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 10-13-86  
Technician: RZ

|                  |    | Time:  |            |            |            | Time: |            |            |            | Time: |            |            |            | Time: |            |            |            | Comments |
|------------------|----|--------|------------|------------|------------|-------|------------|------------|------------|-------|------------|------------|------------|-------|------------|------------|------------|----------|
|                  |    | W.L.   | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF | W.L.  | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF | W.L.  | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF | W.L.  | T.<br>F.C. | B.<br>F.C. | DN/<br>OFF |          |
| Pumping Wells    | 4  | 16' 7" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  | 5  | 19' 0" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  | 7  | 17' 4" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  | 8  | 17' 9" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  | 10 | 18' 4" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  | 11 | 18' 2" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
| Other Wells      | 1  | 13' 0" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  | 2  | 13' 3" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  | 3  | 13' 6" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  | 6  | 13' 7" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  | 9  | 12' 9" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  | 12 | 13' 1" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  | 13 | 12' 8" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  | 14 | 12' 6" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  | 15 | 12' 4" |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  |    |        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
| Monitoring Wells |    |        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  |    |        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  |    |        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  |    |        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  |    |        |            |            |            | 1     | 10' 10"    |            |            |       |            |            |            |       |            |            |            |          |
|                  |    |        |            |            |            | 2     | 11' 7"     |            |            |       |            |            |            |       |            |            |            |          |
|                  |    |        |            |            |            | 3     | 11' 7"     |            |            |       |            |            |            |       |            |            |            |          |
|                  |    |        |            |            |            |       |            |            |            |       |            |            |            |       |            |            |            |          |
|                  |    |        |            |            |            | 5     | 9' 11"     |            |            |       |            |            |            |       |            |            |            |          |
|                  |    |        |            |            |            | 6     | 11' 10"    |            |            |       |            |            |            |       |            |            |            |          |

T.F.C.: Top float control set at

B.F.C.: Bottom float control set at

W.L.: Water level

Date: 10-22-86  
Technician: R9

|               |    | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|---------------|----|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|               |    | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF |          |
| Pumping Wells | 4  | 18'   | 10"     |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 5  | 20'   | 8"      |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 7  | 20'   | 0"      |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 8  | 19'   | 3"      |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 10 | 20'   | 3"      |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 11 | 20'   | 1"      |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells   | 1  |       | 14' 11" |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 2  |       | 15' 0"  |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 3  |       | 15' 2"  |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 6  |       | 15' 5"  |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 9  |       | 14' 6"  |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 12 |       | 15' 0"  |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 13 |       | 14' 8"  |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 14 |       | 14' 8"  |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 15 |       | 14' 4"  |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

TECHNICIAN: 29

T.F.C.: Top float control set at

B.F.C.: Bottom float control set at

W.L.: Water level

Date: 10/24/86  
Technician: RW

|               |    | Time: 11:00 am |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|---------------|----|----------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|               |    | W.L.           | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF |          |
| Pumping Wells | 4  | 19' 2"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 5  | 21' 0"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 7  | 19' 9"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 8  | 20' 1"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 10 | 20' 5"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 11 | 21' 4"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells   | 1  | 15' 1"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 2  | 15' 3"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 3  | 15' 8"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 6  | 15' 8"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 9  | 14' 11"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 12 | 15' 3"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 13 | 14' 11"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 14 | 14' 10"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 15 | 14' 6"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

T.F.C. Top float control set at

B.F.C. Bottom float control set at

W.L. Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 10/20/86  
Technician: A J

[illegible]

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 11/3/86  
Technician: RQ

|               |    | Time: 7:30 am |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments                       |
|---------------|----|---------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|--------------------------------|
|               |    | W.L.          | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF |                                |
| Pumping Wells | 4  | 17'3"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        | River<br>back<br>up to<br>line |
|               | 5  | 17'6"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                |
|               | 7  | 22'3"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                |
|               | 8  | 22'0"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                |
|               | 10 | 23'0"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                |
|               | 11 | 23'1"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                |
| Other Wells   | 1  | 17'1"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        | Monitoring<br>wells            |
|               | 2  | 17'0"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                |
|               | 3  | 17'5"         |         |         |        | 1     |         | 14'2"   |        |       |         |         |        |       |         |         |        |                                |
|               | 6  | 17'6"         |         |         |        | 2     |         | 15'3"   |        |       |         |         |        |       |         |         |        |                                |
|               | 9  | 16'7"         |         |         |        | 3     |         | 15'4"   |        |       |         |         |        |       |         |         |        |                                |
|               | 12 | 17'0"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                |
|               | 13 | 16'7"         |         |         |        | 5     |         | 13'10"  |        |       |         |         |        |       |         |         |        |                                |
|               | 14 | 16'6"         |         |         |        | 6     |         | 15'11"  |        |       |         |         |        |       |         |         |        |                                |
|               | 15 | 16'7"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                |

T.F.C.: Top float  
control set at

B.F.C.: Bottom float  
control set at

W.L.: Water level

Date: 11/17/86  
Technician: R. J.

|               |    | Time: 8:30 am |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|---------------|----|---------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|               |    | W.L.          | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF | W.L.  | T. F.C. | B. F.C. | DN/OFF |          |
| Pumping Wells | 4  | 22' 4"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 5  | 22' 2"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 7  | 19' 4"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 8  | 20' 10"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 10 | 20' 10"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 4  | 22' 0"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells   | 1  | 15' 11"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 2  | 16' 0"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 7  | 16' 5"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 6  | 16' 4"        | 1       | 13' 5"  |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 9  | 15' 7"        | 2       | 14' 6"  |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 12 | 16' 2"        | 3       | 14' 10" |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 13 | 15' 6"        | 5       | 10' 6"  |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 14 | 15' 6"        | 6       | 15' 2"  |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 15 | 15' 4"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

Technician: K.T.

T.F.C.: Top float control set at

B.F.C.: Bottom float control set at

W.L.: Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 12/2/86  
Technician: Ru

|               |    | Time: 1:30 pm |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments |
|---------------|----|---------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|----------|
|               |    | W.L.          | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF | W.L.  | T. F.C. | B. F.C. | ON/OFF |          |
| Pumping Wells | 4  | 20' 2"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 5  | 22' 2"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 7  | 20' 0"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 8  | 20' 6"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 10 | 21' 1"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 11 | 22' 4"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
| Other Wells   | 1  | 16' 0"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 2  | 15' 10"       |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 3  | 16' 2"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 6  | 16' 3"        | 1       | 14' 0"  |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 9  | 15' 10"       | 2       | 14' 9"  |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 12 | 16' 3"        | 3       | 14' 7"  |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 13 | 15' 9"        | 5       | 13' 8"  |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 14 | 15' 8"        | 6       | 15' 5"  |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               | 15 | 15' 5"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |
|               |    |               |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |          |

T.F.C. Top float control set at

B.F.C. Bottom float control set at

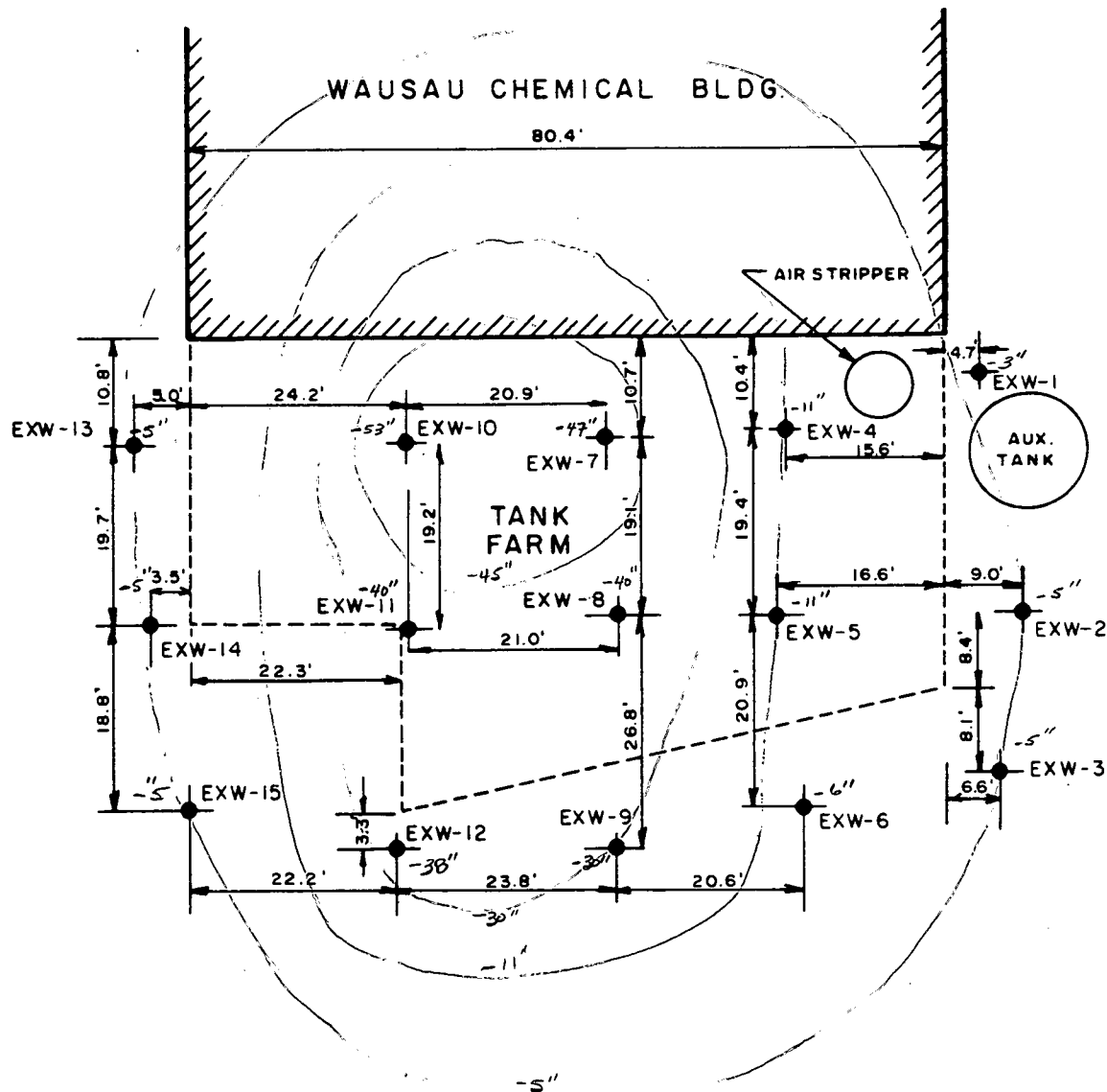
W.L. Water level

# WAUSAU CHEMICAL EXTRACTION PROGRAM WATER LEVEL SUMMARY

Date: 12-29-86  
Technician: R.P.

|               |    | Time: 8:00 am |         |         |        | Time: |         |         |        | Time: |         |         |        | Time: |         |         |        | Comments.                                                                                         |
|---------------|----|---------------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|-------|---------|---------|--------|---------------------------------------------------------------------------------------------------|
|               |    | V.L.          | T. F.C. | B. F.C. | ON/OFF | V.L.  | T. F.C. | B. F.C. | ON/OFF | V.L.  | T. F.C. | B. F.C. | ON/OFF | V.L.  | T. F.C. | B. F.C. | ON/OFF |                                                                                                   |
| Pumping Wells | 4  | 25'1"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        | T.F.C. Top float control set at<br><br>B.F.C. Bottom float control set at<br><br>V.L. Water level |
|               | 5  | 22'0"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 7  | 25'0"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 8  | 25'9"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 10 | 25'11"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 11 | 21'11"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
| Other Wells   | 1  | 15'11"        |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 2  | 16'0"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 3  | 16'4"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 6  | 16'5"         |         |         |        | 1     | 13'5"   |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 9  | 15'6"         |         |         |        | 2     | 12'8"   |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 12 | 16'2"         |         |         |        | 3     | 14'10"  |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 13 | 15'6"         |         |         |        | 5     | 12'5"   |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 14 | 15'6"         |         |         |        | 6     | 15'0"   |         |        |       |         |         |        |       |         |         |        |                                                                                                   |
|               | 15 | 15'4"         |         |         |        |       |         |         |        |       |         |         |        |       |         |         |        |                                                                                                   |

Monitoring Wells



Drawdown - 6/24/87

EXTRACTION WELL LOCATION DIAGRAM  
WAUSAU CHEMICAL FACILITY  
FIGURE 1



**STS CONSULTANTS LTD.**  
540 LAMBEAU STREET  
GREEN BAY, WIS. 54303

J.J.T. | 1-15-85 | No Scale | 12776 B

# Water Levels - Wausau Chemical

| Well # | System Off  |            |         |         |          |         |         |         | System On |  |  |  |
|--------|-------------|------------|---------|---------|----------|---------|---------|---------|-----------|--|--|--|
| Ex. W  | 11/1/86     | 11/4/85    | 11/6/85 | 11/7/85 | 11/15/85 | 6/4/86  | 6/24/86 | 8/19/86 | 6/24/86   |  |  |  |
| 1      |             |            | 13' ?   | 13' ?   | 13' 6"   | 15' 11" | 15' 0"  | 15' 1"  | 15' 3"    |  |  |  |
| 2      |             |            | 13' 3'  | 13' 8"  | 13' 0"   | 16' 2"  | 15' 2"  | 15' 3"  | 15' 7"    |  |  |  |
| 3      |             |            | 14' 1'  | 14' 1"  | 13' 6"   | 16' 2"  | 15' 7"  | 15' 7"  | 16' 0"    |  |  |  |
| 4      |             |            | 16' 3"  | 16' 2"  | 16' 0"   | 18' 9"  | 17' 6"  | 17' 9"  | 18' 5"    |  |  |  |
| 5      |             |            | 17' 5"  | 17' 4"  | 17' 0"   | 20' 0"  | 18' 9"  | 19' 1"  | 19' 8"    |  |  |  |
| 6      |             |            | 14' 2"  | 14' 1"  | 14' 0"   | 16' 4"  | 15' 7"  | 15' 9"  | 16' 1"    |  |  |  |
| 7      |             |            | 16' 7"  | 16' 5"  | 16' 0"   | 18' 11" | 17' 8"  | 18' 0"  | 21' 7"    |  |  |  |
| 8      |             |            | 16' 0"  | 16' 0"  | 16' 0"   | 18' 8"  | 17' 5"  | 17' 7"  | 20' 9"    |  |  |  |
| 9      |             |            | 13' 4"  | 13' 4"  | 12' 6"   | 15' 9"  | 14' 11" | 14' 11" | 17' 5"    |  |  |  |
| 10     | 16' 10 1/2" | 16' 6"     | 17' 4"  | 17' 3"  | 17' 3"   | 19' 10" | 18' 7"  | 19' 1"  | 23' 0"    |  |  |  |
| 11     | 17' 4 1/2"  | 17' 0"     | 17' 10" | 17' 8"  | 17' 4"   | 20' 2"  | 19' 0"  | 19' 6"  | 22' 4"    |  |  |  |
| 12     | 13' 1"      | 13' 1 1/2" | 13' 11" | 13' 9"  | 13' 4"   | 16' 2"  | 15' 2"  | 15' 4"  | 18' 4"    |  |  |  |
| 13     | 13' 3"      | 12' 9"     | 13' 8"  | 13' 5"  | 13' 4"   | 15' 10" | 14' 10" | 14' 8"  | 15' 3"    |  |  |  |
| 14     | 13' 0"      | 12' 7"     | 13' 6"  | 13' 4"  | 13' 0"   | 15' 8"  | 14' 9"  | 14' 7"  | 15' 2"    |  |  |  |
| 15     | 12' 11"     | 12' 6"     | 13' 3"  | 13' 2"  | 12' 7"   | 15' 6"  | 14' 8"  | 14' 5"  | 15' 1"    |  |  |  |

Wells  
Pumped

7

8

9

10

11

12

6/13/86 - lowered all pumps to bottom of wells (approx 1 ft)  
Overall WL dropped 2'-3' from fall, 1985 to summer, 1986.