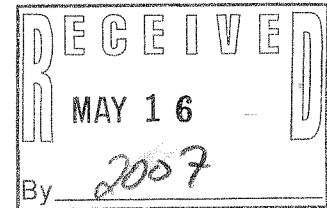


May 2, 2007

Mr. John Feeney
Wisconsin Department of Natural Resources
1155 Pilgrim Road
Plymouth, WI 53073-4294



**Subject: 2006 Annual Status Report - Lactate Injection System
Tecumseh Power Company
Grafton, Wisconsin (WDNR FID #24009170, BRRTS #02-46000751)**

Dear Mr. Feeney:

This letter documents the lactate injection and associated groundwater and soil monitoring that occurred between May 2006 and August 2006 at the Tecumseh Power Company in Grafton, Wisconsin (Tecumseh). This letter includes a discussion of the lactate injection and monitoring event, a summary of the monitoring results, and our conclusions and recommendations based on the monitoring results.

Background

RMT conducted a series of site investigations at Tecumseh between 1994 and 1996, and the results of the investigations are summarized in the Subsurface Investigation Report (RMT, 1997). In general, the results of the investigations indicated that the West Dock and Recycling Dock Areas at the Tecumseh facility were potential sources for trichloroethylene (TCE) and 1,1,1-trichloroethane (TCA) (Figure 1). Additional findings reported in the Subsurface Investigation Report and the Bioremediation Treatability Study Results (RMT, 1999) indicated that anaerobic biodegradation of the groundwater impacted with TCE and TCA is occurring in both areas, and could be accelerated using *in situ* enhanced bioremediation.

RMT elected to enhance the *in situ* bioremediation of TCE and TCA at Tecumseh through lactate injections. As described in the WDNR Publication RR-699, "Understanding Chlorinated Hydrocarbons" (WDNR, 2003), anaerobic biodegradation of TCE and TCA can occur by reductive dechlorination. In reductive dechlorination, TCE and similar chlorinated compounds are reduced by the replacement of a chlorine atom with a hydrogen atom. When lactate is introduced into the subsurface and is biodegraded, other volatile fatty acids (VFAs) are produced and degraded, and hydrogen is generated. The hydrogen produced in this reaction serves as the electron donor in the reductive dechlorination of TCE and similar chlorinated compounds. Consequently, the introduction of lactate into the subsurface can enhance the reductive dechlorination of TCE and TCA. The specific goal of the enhanced bioremediation was to reduce the concentrations of TCE in the source area groundwater by 50 percent of the initial concentrations, or to complete injections for 5 years, whichever came first.

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In October and November 2002, three injection wells and four infiltration trenches were constructed at Tecumseh for the purpose of *in situ* enhanced bioremediation of the groundwater and soil using lactate injections. In addition, four monitoring wells (MW-23, MW-24, MW-25, and MW-26) were installed during that time for purposes of evaluating the lactate injection system. The details of the construction of the wells and trenches were described and submitted to the WDNR in a Construction Documentation Report (RMT, 2003). Monitoring well MW-24 was paved over when the parking lot near the Recycling Dock area was resurfaced in June 2003. Consequently, this well was replaced with MW-24R in November 2003, and the documentation of the construction of MW-24R was submitted to the WDNR in the 2003 Annual Status Report for the site (RMT, 2004). The locations of the wells and trenches are shown on Figure 1.

Over the past 5 years, RMT has completed seven injections at the site, with the first injection occurring in November 2002. The November 2002 and April 2003 injections are summarized in the 2003 Annual Status Report, the December 2003 and April 2004 injections are summarized in the 2004 Annual Status Report, and the March 2005 and February 2006 injections are summarized in the 2005/2006 Annual Status Report. The details on the most recent injection are summarized below.

Site Activities

Recycling Dock Area

No injections were completed in the Recycling Dock Area over the past year, per the recommendations presented in the 2005/2006 Annual Status Report. Evaluation of the monitoring data for the area indicated that the remedial objectives had been met, and additional injections in the area were not necessary. Rather than complete additional injections in the Recycling Dock Area, the resources allocated for an injection in the Recycling Dock were directed at the injection the West Dock Area. Further information on the fulfillment of the remedial objectives in the Recycling Dock will be discussed later in this report.

West Dock Area

One lactate injection was completed in the West Dock Area between May 18 and July 13, 2007. The total flow volume recorded during the injection was 57,436 gallons. The target concentration of sodium lactate was 14,000 mg/L, which was double the concentration used in the previous injection (7,000 mg/L), per the recommendations presented in the 2005/2006 Annual Status Report. The target concentrations of sodium sulfide, yeast extract, and sodium bicarbonate were consistent with previous injections, at 30 mg/L, 10 mg/L, and 37 mg/L, respectively.

Groundwater Sampling

The performance monitoring program for the *in situ* enhanced bioremediation includes monitoring wells MW-8, M-8D, MW-23, MW-24R, MW-25, and MW-26; and the locations of these wells are shown on Figures 1 through 3. Monitoring wells MW-8 through MW-24R are used to evaluate the Recycling Dock Area (Figure 2), and monitoring wells MW-25 and MW-26 are used to evaluate the West Dock Area (Figure 3). RMT collected groundwater samples from each well on August 15, 2006, following the injection that was completed in the West Dock Area in July 2006.

Soil Sampling

RMT and the Geoprobe® subcontractor, SGS, Inc., were on-site on August 16, 2006, to collect two soil samples from the West Dock Area. Soil samples have been collected annually since the *in situ* enhanced bioremediation began, in order to evaluate leaching and removal of TCE from the unsaturated zone beneath the infiltration trenches. Numerous soil samples were collected in the West Dock Area in August 1995 during the Subsurface Investigation, the results of which are documented in the Subsurface Investigation Report. A cross section of the concentration of TCE in the soil in the West Dock Area, based on the 1995 soil data, is included on Figure 4. Two areas in the unsaturated soil that contained high concentrations of TCE were targeted and sampled during the 2003, 2004, and 2005 soil sampling events (GP-1 and GP-2). These same locations were targeted and sampled during the August 2006 sampling event. The locations of the two borings, GP-1 and GP-2, and the depths from which the soil samples were collected in each boring, are shown on Figure 3 and Figure 4, respectively.

Groundwater Analysis

The groundwater samples collected during the August 2006 groundwater monitoring event were submitted to Pace Analytical for laboratory analysis. The samples were laboratory-analyzed for volatile organic compounds (VOCs), volatile fatty acids (VFAs), and chloride. The laboratory reports are included in Attachment A. In addition, the water level, pH, specific conductivity, temperature, oxidation-reduction potential, and dissolved oxygen concentration of the groundwater samples were measured in the field during each sampling round. The results of the VOC and chloride analyses are summarized in Table 1, and the results of the field parameter and VFA analyses are summarized in Table 2.

Recycling Dock Area

The temporal and spatial trends in the groundwater monitoring data support that reductive dechlorination has been ongoing in the Recycling Dock Area since the first lactate injection, and has continued over the last year despite the fact that no injections were completed this year.

The baseline groundwater monitoring event indicated that the intrinsic biodegradation of TCE had reduced the concentration of TCE to below the NR 140 ES in all of the performance monitoring wells in the Recycling Dock Area, except MW-24, prior to the start of the lactate injection. The concentration of TCE dropped and has remained below the NR 140 ES in MW-24R since the injections began. Based on the August 2006 data, the concentrations of TCE have been reduced by 95 percent (29 to 1.3 µg/L) in MW-24R, as a result of the injections.

There are currently no exceedences in the NR 140 ESs for TCE; cis-1,2-DCE; trans-1,2-DCE; or 1,1-DCE; in the Recycling Dock Area; however, vinyl chloride, the final daughter product in the reductive dechlorination of TCE, has been detected in each of the performance monitoring wells at concentrations above the NR 140 ES. The important trend to note is that the vinyl chloride degrades as it moves downgradient from the source area, such that the concentrations are generally near or below the NR 140 ES by the time the groundwater reaches the downgradient monitoring point MW-24R. During the August 2006 monitoring event, vinyl chloride decreased from 9.4 to 0.38 µg/L in the 85 feet between MW-8 and MW-24R.

Similar to TCE, the baseline groundwater monitoring event indicated that the intrinsic biodegradation of TCA had reduced the concentration of TCA to below the NR 140 ES in all of the performance monitoring wells in the Recycling Dock Area prior to the start of the lactate injection. However, the daughter product of TCA, 1,1-dichloroethane (DCA), was present in monitoring well MW-23 at 47,000 µg/L, during the baseline monitoring event. This concentration was above the NR 140 ES of 850 µg/L.

The lactate injections have successfully enhanced the reductive dechlorination of 1,1-DCA. Based on the August 2006 monitoring data, the concentration of 1,1-DCA has been reduced by 99 percent in MW-23 (47,000 to 220 µg/L), as a result of the injections. The decrease in the concentration of 1,1-DCA has been matched by the increase in the concentration of its daughter product, chloroethane, suggesting that reductive dechlorination is responsible for the decrease in concentration. Between the February and August 2006 sampling round, the concentration of chloroethane decreased from 18,000 to 5,500 µg/L in MW-23, suggesting that the degradation of chloroethane is now occurring in MW-23.

The TCA; 1,1-DCA; and chloroethane all degrade spatially within the Recycling Dock Area, such that each are at concentrations below their respective NR 140 ESs in downgradient monitoring well MW-24R. The significant decrease in concentrations of 1,1-DCA and chloroethane between MW-23 and MW-24R suggests that biodegradation is occurring within the span between M-23 and M-24R.

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The presence of residual VFAs in monitoring wells, as summarized in Table 2, provides further support that conditions are supportive of anaerobic biodegradation in the Recycling Dock Area. As mentioned previously, VFAs are generated when lactate is biologically degraded. VFAs were detected in MW-8, MW-8D, and MW-23, at concentrations ranging from 15 to 450 mg/L. The highest concentrations of the VFAs were detected in well MW-23, and no VFAs were detected in MW-24R, suggesting that the electron donors (lactate and VFAs) have been consumed by the time the groundwater reaches MW-24R.

Other geochemical parameters summarized in Table 2 also suggest that conditions are supportive of reductive dechlorination in the Recycling Dock Area. The concentrations of dissolved oxygen are generally below 0.5 mg/L, and the oxidation reduction potential is consistently below 50 mV (Table 2). Both of these conditions support reductive dechlorination as described in WDNR Publication PUB-RR-5184, *Quick Reference Guide to Natural Degradation of Chlorinated Solvents*.

West Dock Area

Concentrations of TCE were detected in the vadose zone in the West Dock Area during the site investigations, and these impacts were serving as the source to the elevated concentrations of TCE in the groundwater. The gravity infiltration trenches in the West Dock Area were designed to flush the TCE from the vadose zone and to anaerobically degrade the TCE in the groundwater. The two performance monitoring wells in the West Dock Area, are designed to evaluate these two anticipated processes. Specifically, monitoring well MW-25 is directly below the infiltration trenches, within the source area, and MW-26 is approximately 50 feet downgradient from MW-25.

Temporal trends in the molar concentration of TCE; cis-1,2-DCE; and vinyl chloride in MW-25 and MW-26 are shown on Figures 5 and 6, respectively. The trends indicate that lactate is flushing the high concentration of TCE from the vadose zone near MW-25, as shown by the increase in the concentration of TCE in MW-25 since the injections began. The lactate concentration used for the injections was increased following the August 2004 monitoring event. The higher concentration of lactate used during the injections after August 2004 likely had a surfactant or co-dissolution effect on TCE in the vadose zone, thereby enhancing the leaching process, and accounting for the increase in the concentration of TCE in MW-25 during the August 2005 and August 2006 monitoring events.

The trends in the concentration data also show that the lactate solution is enhancing the anaerobic biodegradation of the TCE in the groundwater as it moves downgradient toward MW-26. The concentration of TCE has decreased while the concentrations of cis-1,2-DCE and vinyl chloride have increased in MW-26 since the baseline monitoring event. The concentrations of TCE have remained relatively stable in MW-26 following the first injection despite the increases in the concentration of

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TCE observed upgradient in MW-25. Based on the August 2006 monitoring event, the concentration of TCE has been reduced by 90 percent (950 to 97 µg/L) in MW-26 as a result of the injections.

The concentration of vinyl chloride in MW-26 in the West Dock Area has shown a decreasing trend since November 2003 and is expected to continue to decrease as reductive dechlorination continues at the site. Vinyl chloride will likely degrade aerobically, once it is downgradient of the reducing zone created by the lactate injections.

As summarized in Table 2, VFAs were not detected in the West Dock Area during the August 2006 monitoring event. However, since the pattern of the concentrations of TCE and its breakdown products suggests that reductive dechlorination of TCE is occurring as a result of the lactate injections, it can be assumed that the lactate is being biodegraded in the West Dock Area.

As in the Recycling Dock Area, the trends in the other geochemical parameters summarized in Table 2 suggest that conditions are supportive of reductive dechlorination in the West Dock Area. The concentration of dissolved oxygen is generally below 1.0 mg/L, and the oxidation reduction potential is consistently below 50 mV. Both of these conditions support reductive dechlorination as described in WDNR Publication PUB-RR-5184, *Quick Reference Guide to Natural Degradation of Chlorinated Solvents* (WDNR, 2002). A stronger reducing environment appears to have been established following the most recent injection, in which the concentration of lactate was doubled. The ORP decreased from 3 to -75 mV and from -91 to -175 mV in monitoring wells MW-25 and MW-26, respectively.

Soil Analysis

West Dock Area

The soil samples collected in August of 2006 were submitted to Pace Analytical Laboratory and analyzed for VOCs. The laboratory reports are included in Attachment A, and the results are summarized in Table 3. As mentioned previously, the borings drilled in August of 2006 (GP-1 and GP-2) targeted the depth and location of two areas in the soil that had high concentrations of TCE according to data collected in 1995, and from which soil samples were collected during 2003, 2004, and 2005.

The concentration of TCE in the soil samples collected 6 feet below grade from borings GP-1 had been decreasing since the startup of the lactate injections, but increased from 340 to 6,900 µg/kg during the August 2005 monitoring event. This increase was attributed to the enhanced solubility of TCE that resulted from the increase in the concentration of sodium lactate. The concentration of TCE in the soil samples collected 11 feet below grade from boring GP-2 had consistently increased between the first and the August 2005 monitoring events. The increasing trend was attributed to the mobilization of

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TCE from the shallower unsaturated soil, and the temporary accumulation of TCE within the deeper soil as the TCE makes its way to the groundwater. During the August 2006 sampling, the concentration decreased significantly in both borings. Specifically, the concentrations decreased from 6,900 to 1,000 µg/kg and from 49,000 to 16,000 µg/kg in borings GP-1 and GP-2, respectively. This decrease suggests that the infiltration of the lactate solution through the vadose zone, has promoted the leaching of TCE from the soil and has successfully reduced the overall mass of TCE in the West Dock source area.

Conclusions and Recommendations

The remedial objectives for the *in situ* enhanced bioremediation in the Recycling Dock and West Dock Areas have been met for the site.

Recycling Dock Area

In the Recycling Dock Area, the concentration of TCE has been reduced by 99 percent, which is well above the remedial goal of 50 percent. In addition to the remedial objective established for TCE, the concentration of 1,1-DCA has also been reduced by 99.5 percent, from 47,000 to 220 µg/L, in the source area. There are currently no NR 140 ES exceedences for TCE, cis-1,2-DCE, TCA, or 1,1-DCA in the Recycling Dock Area. Elevated concentrations of vinyl chloride and chloroethane, the end products in the reductive dechlorination of TCE and TCA, do remain in the source area, but each are degrading spatially across the extent of the plume and are at concentrations near or below the NR 140 ES at the property boundary for the site.

West Dock Area

In the West Dock Area, the concentration of TCE has increased in source area well MW-25, since the injections began, as a result of the leaching of TCE from the vadose zone that was promoted by the use of the infiltration trenches. Although the general remedial objective for the project was to achieve a 50 percent reduction in the concentration of TCE in the source areas, in the case of the West Dock location, it is more appropriate to evaluate the concentration of TCE in downgradient well MW-26, where reductive dechlorination in the groundwater has had an opportunity to reduce the overall mass of TCE. Even with the accelerated leaching of TCE near MW-25, the concentration of TCE has been reduced by 90 percent in MW-26, from 950 to 97 µg/L, as a result of the injections. Concentration of TCE; cis-1,2-DCE; and vinyl chloride do remain in the West Dock Area, but are degrading spatially across the plume as shown by the significant decrease in concentration between MW-25 and MW-26.

The leaching of TCE from the vadose zone in the West Dock Area has reduced the mass of TCE in the unsaturated source area. The concentration of TCE in the unsaturated soil has been reduced by approximately 85 percent between the 1995 SI and the most recent round of soil sampling. ✱

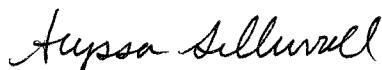
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Five years of *in situ* enhanced bioremediation have been completed for the site and reductions in the concentration of TCE over 50 percent were achieved in the Recycling Dock and West Dock Areas. Therefore, the remedial objectives established for the site have been met, and no additional injections are recommended for the Recycling Dock or West Dock Areas. We recommend that semiannual monitoring for VOCs and the field parameters previously listed continue in the performance monitoring wells at the site to evaluate natural attenuation trends.

Please feel free to contact Alyssa Sellwood, at 608-662-5480, or John Rice, at 608-662-5173, if you have any questions.

Sincerely,

RMT, Inc.



Alyssa Sellwood
Staff Engineer



John M. Rice, P.E.
Project Manager

Attachments: Tables
Figures
Attachment A - Laboratory Reports

cc: Jason Smith – Tecumseh Products Company
Henry Handzel – DeWitt, Ross, and Stevens
Stacy McAnulty – RMT, Inc.

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Table 1
Summary of Groundwater Analytical Results
Tecumseh Products Company- Grafton, Wisconsin

SAMPLE LOCATION	SAMPLE DATE	INJECTION DATE	TCE	CIS-1,2-DCE	TRANS-1,2-DCE	1,1-DCE	VINYL CHLORIDE	1,1,1-TCA	1,1-DCA	CHLORO-ETHANE	CHLORIDE
NR 140 ES			5	70	100	7	0.2	200	850	400	250
NR 140 PAL			0.5	7	20	0.7	0.02	40	85	80	125
Units			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L
Recycling Dock Wells											
MW-8 ⁽²⁾	6/5/96		20	660	91	27	360	1,900	1,400	64	1,200
MW-8	11/21/02		0.56 Q	3	2.1 Q	1.9	1.5	110	160	2.3 Q	27
	3/27/03	11/23/02	NS ⁽³⁾	NS ⁽³⁾	NS ⁽³⁾	NS ⁽³⁾	NS ⁽³⁾	NS ⁽³⁾	NS ⁽³⁾	NS ⁽³⁾	NS ⁽³⁾
	6/16/03	4/11/03	8	16	6.7	< 1.4	19	96	380	36	170
	11/19/03		2.2	5	6.2	< 5.0	10	43	500	46	97
	3/24/04	1/21/04	1.6 J	31	14	2.6 J	53	130	750	620	131
	8/11/04	4/21/04	< 4.0	11	19	< 4.0	27	66	550	1,000	459
	8/10/05	3/22/05	< 2.4	6.4 Q	18	< 2.8	8.6	70	610	490	140
	2/24/06	10/3/2005	< 2.4	5.7 Q	18	< 2.8	15	75	330	480	150
	8/15/06		< 2.4	6.7 Q	18	< 2.8	9.4	54	460	420	NA
MW-8D ⁽²⁾	6/5/96		1.6	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
	3/27/03	11/23/02	1.7	0.7	< 0.18	< 0.28	1.1	< 0.18	42	< 0.22	238
	6/16/03	4/11/03	2.6	9.9	1.1	1.3	< 0.29	1.7	< 0.074	< 0.22	22
	11/19/03		2.7	22	0.77	0.48	7.5	0.6	16	< 1.0	135
	3/24/04	1/21/04	2.5	2.3	0.37 J	0.44 J	1.5	< 0.31	11	< 1.9	94
	8/11/04	4/21/04	4.6	4.9	0.68	3.1	5.5	5.3	40	< 1.4	121
	8/10/05	3/22/05	1.8	1.6 Q	3.8	< 0.57	2.2	0.93 Q	76	7.8	140
	2/24/06	10/3/2005	1.1 Q	2.1 Q	< 0.89	< 0.57	2.1	2.2 Q	37	5.2	150
	8/15/06		< 2.4	< 4.1	< 4.4	< 2.8	6.0	4.6 Q	52	430 N	NA

Table 1 (continued)
 Summary of Groundwater Analytical Results
 Tecumseh Products Company- Grafton, Wisconsin

SAMPLE LOCATION	SAMPLE DATE	INJECTION DATE	TCE	CIS-1,2-DCE	TRANS-1,2-DCE	1,1-DCE	VINYL CHLORIDE	1,1,1-TCA	1,1-DCA	CHLORO-ETHANE	CHLORIDE
NR 140 ES			5	70	100	7	0.2	200	850	400	250
NR 140 PAL			0.5	7	20	0.7	0.02	40	85	80	125
Units			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L
Recycling Dock Wells											
MW-23	11/21/02		< 200	< 410	< 400	< 280	530	< 330	47,000	< 420	220
	3/27/03	11/23/02	< 5.5	< 5.5	41	< 14	44 J	< 9	22,000 D	4,100	259
	6/16/03	4/11/03	< 11	< 11	< 18	< 28	< 29	< 18	9,600	1,300	124
	11/19/03		29	< 100	68	< 100	79	< 100	2,200	12,000	98
	3/24/04	1/21/04	< 180	< 56	130 J	< 150	< 170	< 62	920	17,000	230
	8/11/04	5/11/04	< 20	52	78	< 20	55	32 J	690	7,900	309
	8/10/05	3/22/05	< 24	< 42	60	< 28	28	< 45	360	7,400	130
	2/24/06	10/3/2005	< 48	< 83	100 Q	< 57	86	< 90	390	18,000	200
	8/15/06		< 24	< 42	56 Q	< 28	11 Q	< 45	220	5,500	NA
MW-24	11/21/02		29	14	2.9	< 0.56	2.0	< 0.65	140	31	110
	3/27/03	11/23/02	3.0	< 0.11	3.7	< 0.28	0.4 J	< 0.18	280 D	36	104
	6/16/03	4/11/03	NS ⁽⁴⁾	NS ⁽⁴⁾	NS ⁽⁴⁾	NS ⁽⁴⁾	NS ⁽⁴⁾	NS ⁽⁴⁾	NS ⁽⁴⁾	NS ⁽⁴⁾	NS ⁽⁴⁾
MW-24R	11/19/03		1.5	< 2.0	2.8	< 2.0	1.1	< 2.0	200	68	133
	3/24/04	1/22/04	1.0	0.29	< 0.84	< 0.75	< 0.86	< 0.31	1.8	1.3 J	148
	8/11/04	4/21/04	< 0.4	1.2	0.39	0.26 J	0.76	< 1.2	0.63	< 1.4	143
	8/10/05	3/22/05	0.84 Q	< 0.83	1.2 Q	< 0.57	< 0.18	< 0.90	37	70	240
	2/24/06	10/3/2005	0.5 Q	< 0.83	< 0.89	< 0.57	< 0.18	< 0.90	5.8	10	150
	8/15/06		1.3 Q	< 0.83	< 0.89	< 0.57	0.38	< 0.90	5.9	1.5 Q	NA
MW-3 ⁽²⁾	6/4/96		10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
MW-3BR ⁽¹⁾	6/12/02		200	48	< 0.79	73	5	38	73	< 0.57	NA
	12/10/02	11/23/02	120	31	< 0.8	6.2	1.9	15	38	< 0.84	NA
MW-3D ⁽²⁾	6/5/96		15	20	< 10	< 10	17	26	130	< 10	95
MW-3D ⁽¹⁾	6/12/02		< 4.5	< 3.6	< 4	< 4.2	2.4	< 3.4	570	< 2.8	NA
	12/10/02	11/23/02	< 0.39	< 0.81	< 0.8	< 0.56	< 0.11	< 0.65	31	2.6 Q	NA

Table 1 (continued)
 Summary of Groundwater Analytical Results
 Tecumseh Products Company- Grafton, Wisconsin

SAMPLE LOCATION	SAMPLE DATE	INJECTION DATE	TCE	CIS-1,2-DCE	TRANS-1,2-DCE	1,1-DCE	VINYL CHLORIDE	1,1,1-TCA	1,1-DCA	CHLOROETHANE	CHLORIDE
NR 140 ES			5	70	100	7	0.2	200	850	400	250
NR 140 PAL			0.5	7	20	0.7	0.02	40	85	80	125
Units			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L
West Dock Wells											
MW-25	11/21/02		260	110	2.2 Q	1.6 Q	24	< 1.6	< 2.2	< 2.1	32
	3/27/03	11/22/02-2/17/03	4,800	590	< 4.5	< 7.0	100	< 4.5	19	< 5.5	81
	6/16/03	4/4/03-5/16/03	3,300	430	< 4.5	< 7.0	68	< 4.5	< 3.3	< 6.3	60
	11/19/03		8,500	1,100	22	24	170	< 50	22	77	93
	3/24/04	12/19/03-2/13/04	7,400	900	< 84	< 75	110	< 31	< 48	< 190	98
	8/10/04	5/11/2004-7/1/04	2,500	290	7.0	5.5 J	37	< 23	< 7.6	< 28	41
	8/9/05	2/3/05-3/22/05	32,000	4,600	< 180	< 110	380	< 180	< 150	< 190	160
	2/24/06	10/10/05-12/15/05	7,900	900	< 44	< 28	100	< 45	< 38	< 48	88
	8/15/06	5/18/06-7/13/06	18,000	3,100	< 110	< 71	170	< 110	< 94	< 120	NA

Table 1 (continued)
 Summary of Groundwater Analytical Results
 Tecumseh Products Company- Grafton, Wisconsin

SAMPLE LOCATION	SAMPLE DATE	INJECTION DATE	TCE	CIS-1,2-DCE	TRANS-1,2-DCE	1,1-DCE	VINYL CHLORIDE	1,1,1-TCA	1,1-DCA	CHLORO-ETHANE	CHLORIDE
NR 140 ES			5	70	100	7	0.2	200	850	400	250
NR 140 PAL			0.5	7	20	0.7	0.02	40	85	80	125
Units			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L
MW-26	11/21/02		950	2,400	31	< 14	290	21 Q	69	< 21	170
		11/22/02-2/17/03									
	3/27/03		130	8,800	120	55	1,600	160	830	< 11	402
		4/4/03-5/16/03									
	6/16/03		180	4,200	79	< 7.0	2,200	38	320	< 5.5	216
	11/19/03		140	6,500	72	22	4,500	27	680	< 50	373
		12/19/03-2/13/04									
	3/24/04		110	7,300	87	27 J	3,300	48	860	< 190	471
		5/11/2004-7/1/04									
	8/10/04		150	2,900	44	22	1,900	18 J	270	< 28	319
	2/3/05-3/22/05										
8/9/05		140	3,100	38 Q	15 Q	1,000	< 22	110	110	210	
	10/10/05-12/15/05										
2/24/06		160	5,500	< 44	< 28	1,600	< 45	140	190	300	
	5/18/06-7/13/06										
8/15/06		97	3,500	84	< 14	960	< 22	83	96	NA	
MW-9 ⁽²⁾	8/24/94		3,000	1,500	< 100	< 100	< 100	530	100	ND	NA
	6/4/96		1,900	1,200	< 100	180	< 100	1,100	190	ND	NA
	12/4/96		2,800	2,700	< 100	51 Q	< 200	1,100	< 100	ND	NA
	6/12/02		1,400	720	ND	< 8.5	< 1.8	120	41	ND	NA
		11/22/02-2/17/03									
	12/10/02		1,500	370	< 8.0	34	24	220	110	< 8.4	NA
		4/4/03-5/16/03									
	7/9/03		1,300	570	< 8.9	21	< 1.8	180	61	< 9.7	NA
	12/19/03-2/13/04										
1/14/04		1,500	360	< 8.9	130	< 1.8	900	340	< 9.7	NA	

Table 1 (continued)
 Summary of Groundwater Analytical Results
 Tecumseh Products Company- Grafton, Wisconsin

SAMPLE LOCATION	SAMPLE DATE	INJECTION DATE	TCE	CIS-1,2-DCE	TRANS-1,2-DCE	1,1-DCE	VINYL CHLORIDE	1,1,1-TCA	1,1-DCA	CHLOROETHANE	CHLORIDE
NR 140 ES			5	70	100	7	0.2	200	850	400	250
NR 140 PAL			0.5	7	20	0.7	0.02	40	85	80	125
Units			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L
MW-9D ⁽²⁾	8/24/94		1,200	330	< 100	< 100	< 100	700	290	ND	NA
	6/4/96		1,400	680	< 50	< 50	< 50	350	94	ND	NA
	12/4/96		1,200	400	< 100	230	< 100	1,700	630	ND	NA
		11/22/02- 2/17/03									
		4/4/03- 5/16/03									
		12/19/03 - 2/13/04									
MW-9D ⁽¹⁾	1/14/04		1,700	680	< 18	< 11	67	95	50	< 19	NA

Notes:

Table only includes those CVOCs (and chloride) that are part of the enhanced biodegradation study.
 Wells are listed from upgradient to downgradient location for each area.

ES = Enforcement Standard.

PAL = Preventive Action Limit.

NS = not sampled.

ND = analyte not detected; however, the Limit of Detection was not available.

NA = not analyzed.

Q or J = concentration between the Limit of Detection and Limit of Quantitation.

D = concentration is an estimate as it exceeded the linear range of the calibration curve.

BOLD = concentration exceeds NR 140 PAL.

Bold and Shaded = concentration exceeds NR 140 ES.

DCA = dichloroethane.

DCE = dichloroethene.

TCA = trichloroethane.

TCE = trichloroethene.

Prepared By: AAS 8/31/06

Checked By: RJG 8/31/06

Footnotes:

⁽¹⁾ Samples were collected by Moraine Environmental, Inc.

⁽²⁾ Results from Subsurface Investigation Report for Tecumseh Products Company (RMT, 1997).

⁽³⁾ Well was not sampled because it was dry.

⁽⁴⁾ Well was not sampled because it had been paved over.

The well was replaced with MW-24R on November 11, 2003.

Table 2
Summary of Groundwater Field and Degradation Evaluation Parameters
Tecumseh Products Company - Grafton, Wisconsin

SAMPLE LOCATION	SAMPLE DATE	INJECTION DATE	WATER LEVEL	PH	SPECIFIC CONDUCTIVITY	TEMPERATURE	ORP	DISSOLVED OXYGEN	VOLATILE FATTY ACID				
									ACETIC ACID	BUTYRIC ACID	LACTIC ACID	PROPIONIC ACID	PYRUVIC ACID
Units			ft (MSL)		µmhoms/cm	°C	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Optimum Conditions⁽¹⁾				5<PH<9	Increase		<50 ⁽⁸⁾	< 0.5					
Recycling Dock Wells													
MW-8	11/21/02	11/22/02	746.46	7.32	1080	15.2	-100	0.33	NA	NA	NA	NA	NA
	3/27/03	4/9/03	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾
	6/16/03		747.28	6.91	1448	14.7	-90	0.4	60	< 1	< 25	1.4	< 10
	11/19/03		744.81	6.97	1157	15.8	-81	2	4.6	< 1	< 25	< 1	< 10
	3/24/04	1/21/04	746.42	6.89	1233	13.2	-12	1	3.3	< 1	< 25	< 1	< 10
	8/11/04	4/21/04	747.09	6.91	2400	16.4	-143	0.6	31	< 1	< 25	1.1	< 10
	8/10/05	3/22/05	745.85	6.72	1,349	18.2	-54	0.8	< 1	< 1	< 25	< 1	< 10
	2/24/06	10/3/2005	745.6	6.69	1,271	11.4	-98	0.63	5	0.18	5.6	< 1	< 10
	8/15/06		746.54	6.89	2,190	18.7	-139	0.6	15	< 1	< 25	0.4	< 10
MW-8D	11/21/02	11/22/02	NS ⁽¹⁾	NS ⁽¹⁾	NS ⁽¹⁾	NS ⁽¹⁾	NS ⁽¹⁾	NS ⁽¹⁾	NA	NA	NA	NA	NA
	3/27/2003 ⁽⁴⁾	4/9/03	745.04	8.83	NA ⁽³⁾	12.6	-25	8 ⁽⁵⁾	65	1.5	< 25	3.9	< 10
	6/16/03		746.63	6.87	2,590	14.5	-94	0.4	90	4.4	< 25	710	< 10
	11/19/03		746	7.05	1,352	16.3	-138	2	56	< 1	< 25	35	< 10
	3/24/04	1/21/04	746.45	7.14	1181	14.4	-5	0.4	15	< 1	< 25	17	< 10
	8/11/04	4/21/04	747.84	7.12	1194	15.7	-151	0.8	< 1	< 1	< 25	< 1	< 10
	8/10/05	3/22/05	745.72	6.92	1,220	16.7	-72	0.6	3.3	< 1	< 25	1.7	< 10
	2/24/06	10/3/2005	746.53	6.85	1,188	13.0	-181	0.75	1.8	< 1	< 25	< 1	< 10
	8/15/06		746.73	6.72	4,910	18.0	-158	0.4	15	< 1	< 25	< 1	< 10

Table 2 (continued)
Summary of Groundwater Field and Degradation Evaluation Parameters
Tecumseh Products Company - Grafton, Wisconsin

SAMPLE LOCATION	SAMPLE DATE	INJECTION DATE	WATER LEVEL	PH	SPECIFIC CONDUCTIVITY	TEMPERATURE	ORP	DISSOLVED OXYGEN	VOLATILE FATTY ACID				
									ACETIC ACID	BUTYRIC ACID	LACTIC ACID	PROPIONIC ACID	PYRUVIC ACID
Units			ft (MSL)		µmhoms/cm	°C	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Optimum Conditions⁽⁷⁾				5<pH<9	Increase		<50 ⁽⁸⁾	< 0.5					
MW-23	11/20/02		746.21	6.88	2,780	15.2	-38	0.11	NA	NA	NA	NA	NA
	3/27/03	11/22/02	745.00	6.67	NA ⁽³⁾	11.2	-76	2	780	140	< 25	52	< 10
	6/16/03	4/9/03	746.40	6.85	1,298	14.6	-116	0.8	120	< 1	< 25	220	< 10
	11/19/03		745.42	6.91	1,428	15.3	-105	1	130	3.4	< 25	47	< 10
	3/24/04	1/21/04	746.36	6.78	2700	12.3	-5	0.3	450	< 1	< 25	68	< 10
	8/11/04	4/21/04	747.58	6.87	2290	15.9	-158	0.6	170	1.9	< 25	3.8	< 10
	8/10/05	3/22/05	745.92	6.48	1,522	17.4	-71	0.4	81	2.3	< 25	30	< 10
	2/24/06	10/3/2005	745.54	6.55	2,410	NA	-299	0.63	710	28	< 25	78	2
	8/15/06		746.49	6.64	1,910	18.6	-182	0.4	450	2.5	< 25	76	0.8 J
MW-24	11/20/02		746.12	7.23	1,529	14.5	16	0.12	NA	NA	NA	NA	NA
	3/27/03	11/22/02	744.79	6.17	NA ⁽³⁾	11.3	-123	1	16	< 1	< 25	< 1	< 10
	6/16/03	4/9/03	NS ⁽⁶⁾	NS ⁽⁶⁾	NS ⁽⁶⁾	NS ⁽⁶⁾	NS ⁽⁶⁾	NS ⁽⁶⁾	NS ⁽⁶⁾	NS ⁽⁶⁾	NS ⁽⁶⁾	NS ⁽⁶⁾	NS ⁽⁶⁾
MW-24R	11/19/03		746.14	7.06	1,372	15.8	-99	1	1.2	< 1	< 25	< 1	< 10
	3/24/04	1/21/04	747.32	6.83	1153	11.3	29	0.6	< 1	< 1	< 25	< 1	< 10
	8/11/04	4/21/04	748.46	6.85	1198	15.7	-63	1.0	< 1	< 1	< 25	< 1	< 10
	8/10/05	3/22/05	746.76	6.99	1,562	18.2	-32	0.8	3.4	< 1	160	0.33 J	4.2 J
	2/24/06	10/3/2005	746.21	6.93	1,174	11.1	-176	0.64	< 1	< 1	< 25	< 1	< 10
	8/15/06		747.02	6.88	1,209	18.9	-128	0.6	< 1	< 1	< 25	< 1	< 10

Table 2 (continued)
Summary of Groundwater Field and Degradation Evaluation Parameters
Tecumseh Products Company - Grafton, Wisconsin

SAMPLE LOCATION	SAMPLE DATE	INJECTION DATE	WATER LEVEL	PH	SPECIFIC CONDUCTIVITY	TEMPERATURE	ORP	DISSOLVED OXYGEN	VOLATILE FATTY ACID				
									ACETIC ACID	BUTYRIC ACID	LACTIC ACID	PROPIONIC ACID	PYRUVIC ACID
Units			ft (MSL)		µmhoms/cm	°C	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Optimum Conditions ⁽⁷⁾				5<pH<9	Increase		<50 ⁽⁸⁾	< 0.5					
West Dock Wells													
MW-25	11/20/02		751.93	7.19	1,010	14.4	190	0.04	NA	NA	NA	NA	NA
	3/27/03	11/22/02-2/17/03	750.69	8.02	NA ⁽⁹⁾	11.9	96	1	< 1.0	< 1.0	< 25	< 1.0	< 10
	6/16/03	4/4/03-5/16/03	752.34	6.73	970	13.2	-4	0.6	94	< 1	< 25	76	< 10
	11/19/03		751.18	7.3	1,115	14	-4	1.5	< 1	< 1	< 25	< 1	< 10
	3/24/04		752.55	7.22	1149	12.1	0	0.3	< 1	< 1	< 25	< 1	< 10
	8/11/04	5/11/2004 - 7/1/04	753.51	6.96	887	14.8	-41	1.0	< 1	< 1	< 25	< 1	< 10
	8/9/05	2/3/05 - 3/22/05	751.55	6.98	1,450	15.8	24	0.8	< 1	< 1	65	< 1	0.86 J
	2/24/06	10/10/05 - 12/15/05	751.79	7.18	655	11.3	3	1.37	< 1	< 1	< 25	< 1	< 10
	8/15/06	5/18/06 - 7/13/06	752.30	7.16	1,215	16.0	-79	0.6	< 1	< 1	< 25	< 1	< 10

Table 2 (continued)
Summary of Groundwater Field and Degradation Evaluation Parameters
Tecumseh Products Company - Grafton, Wisconsin

SAMPLE LOCATION	SAMPLE DATE	INJECTION DATE	WATER LEVEL	PH	SPECIFIC CONDUCTIVITY	TEMPERATURE	ORP	DISSOLVED OXYGEN	VOLATILE FATTY ACID				
									ACETIC ACID	BUTYRIC ACID	LACTIC ACID	PROPIONIC ACID	PYRUVIC ACID
Units			ft (MSL)		µmhoms/cm	°C	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Optimum Conditions ⁽⁷⁾				5<pH<9	Increase		<50 ⁽⁸⁾	< 0.5					
MW-26	11/20/02		747.25	7.05	1,752	18.7	224	0.03	NA	NA	NA	NA	NA
	3/27/03	11/22/02-2/17/03	745.85	7.44	NA ⁽³⁾	17.6	-160	2	< 1.0	< 1.0	< 25	< 1.0	< 10
	6/16/03	4/4/03-5/16/03	747.45	7.03	1,645	17.3	-157	0.8	2.6	< 1	< 25	3.4	< 10
	11/19/03		746.33	7.06	2,060	15.3	-110	2	< 1	< 1	< 25	< 1	< 10
	3/24/04		747.37	6.85	2400	15	-8	0.4	< 1	< 1	< 25	< 1	< 10
	8/11/04	5/11/2004-7/1/04	748.67	7.04	1724	16.4	-81	1.0	< 1	< 1	< 25	< 1	< 10
	8/9/05	2/3/05-3/22/05	746.85	7.15	1,577	17.9	-35	1.0	< 1	< 1	12	< 1	1
	2/24/06	10/10/05-12/15/05	746.68	6.80	642	NA	-91	1.5	< 1	< 1	< 25	< 1	< 10
	8/15/06	5/18/06-7/13/06	747.43	6.73	1,721	17.7	-175	1.0	< 1	< 1	< 25	< 1	< 10

Prepared By: AAS 8/31/06

Checked By: RJG 8/31/06

Notes:

NA = not analyzed.

NS = not sampled.

J = estimated value.

Footnotes:

⁽¹⁾ Well MW-8D was not sampled on November 20, 2003, because it could not be located.

⁽²⁾ Well MW -8 was not sampled on March 27, 2003, because it was dry.

⁽³⁾ Conductivity probe was not working on March 27, 2003.

⁽⁴⁾ Sample was foaming/fizzing. Foaming is likely due to organics in water at elevated pH, and fizzing is likely due to CO₂ release.

⁽⁵⁾ Elevated DO is likely due to inability to obtain a reliable reading from foaming/fizzing groundwater.

⁽⁶⁾ Well MW-24 was not sampled on June 16, 2003, because it had been paved over. The well was replaced with MW-24R on November 11, 2003.

⁽⁷⁾ Optimum conditions = geochemical conditions or trends that support reductive dechlorination, as listed in WDNR Publication PUB-RR-5184, "Quick Reference Guide to Natural Degradation of Chlorinated Solvents."

⁽⁸⁾ A DO concentration of <1.5 mg/L is optimum; however, the bulk DO in groundwater is not always the best indication of what may be happening in microcosms within the subsurface.

Oftentimes, reductive dechlorination is observed at a DO concentration of 1 to 2 mg/L.

Table 3
Summary of Soil Analytical Results for West Dock Area
Tecumseh Products Company - Grafton, Wisconsin

ANALYTE	SAMPLE DATE	DEPTH	TCE	CIS-1,2-DCE	TRANS-1,2-DCE	1,1-DCE	VINYL CHLORIDE	1,1,1- TCA	1,1-DCA	CHLORO-ETHANE
Units		feet bgs	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Western Target Location - Target Depth 5-7 feet bgs										
SB7WD	8/14/95	5-7	8,100 D	< 120	< 120	< 120	< 120	< 120	< 120	< 120
GP-1	6/13/03	6	820	< 25	< 25	< 25	< 25	< 25	< 25	< 25
	3/23/04	6	720	< 25	< 25	< 25	< 25	< 25	< 25	< 25
	8/10/04	6	340	< 25	< 25	< 25	< 25	< 25	< 25	< 25
	8/9/05	5-7	6,900	< 25	< 25	< 25	< 25	< 25	< 25	< 25
	8/15/06	5-7	1,000	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Eastern Target Location - Target Depth 10-12 feet bgs										
SB1WD	8/7/95	10-12	110,000	1,800	< 1,100	< 1,100	< 1,100	< 1,100	< 1,100	< 1,100
GP-2	6/13/03	11	12,000	2,300	33 Q	< 25	70	< 25	80	< 25
	3/23/04	11	21,000	1,000	< 62	< 62	< 62	< 62	< 62	< 62
	8/10/04	11	31,000	1,600	< 120	< 120	< 120	< 120	< 120	< 120
	8/9/05	10-12	49,000	6,800	< 200	< 200	< 200	< 200	< 200	< 200
	8/15/06	10-12	16,000	8,200	110 Q	120 Q	76 Q	< 62	120 Q	< 62

Notes:

Table only includes those CVOCs that are part of the enhanced biodegradation study.

NS = not sampled.

NA = not analyzed.

Q = concentration between the Limit of Detection and Limit of Quantitation.

D = concentration is from diluted analysis.

DCA = dichloroethane.

DCE = dichloroethene.

TCA = trichloroethane.

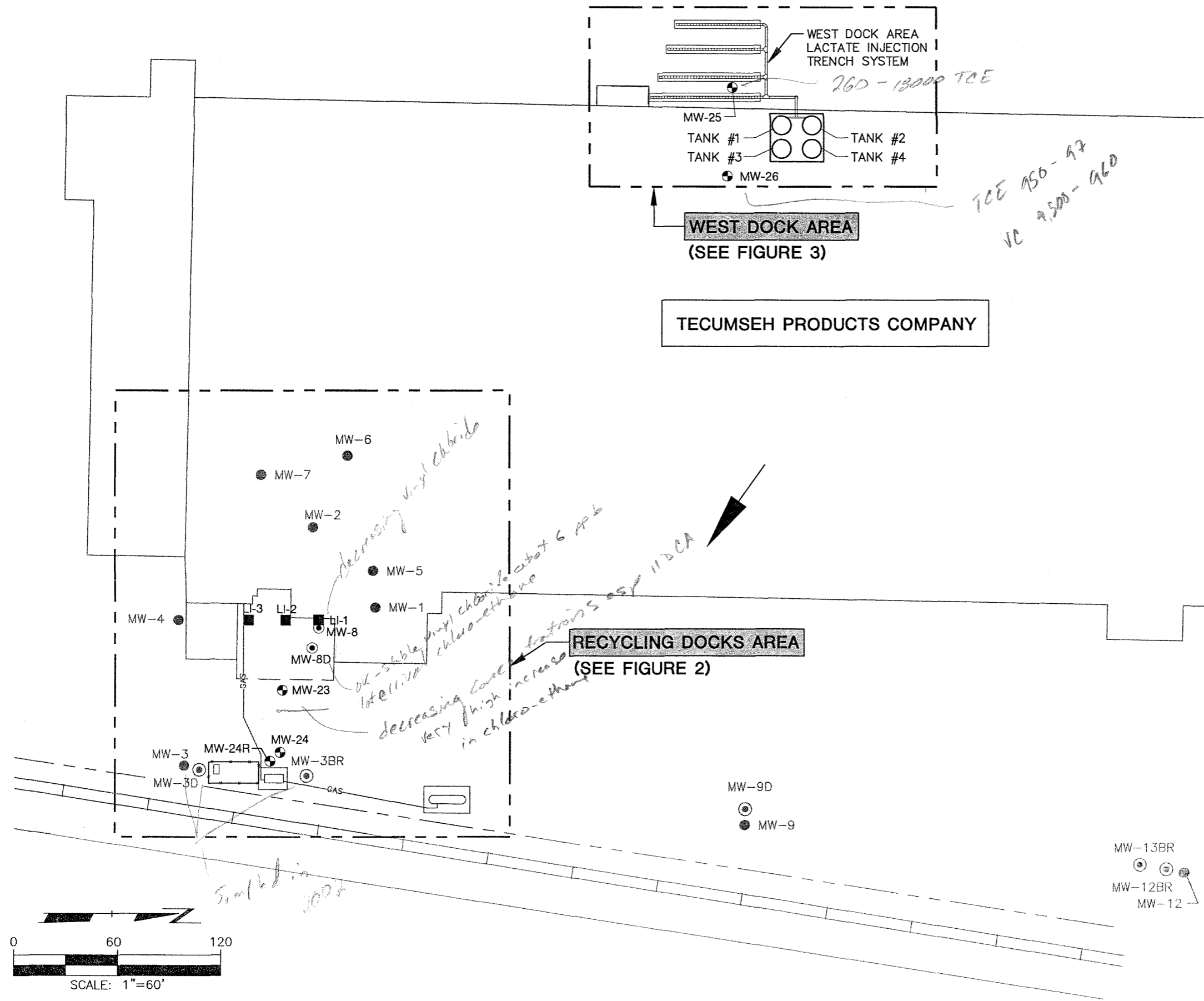
TCE = trichloroethene.

Prepared By: AAS 8/31/06

Checked By: RJG 8/31/06

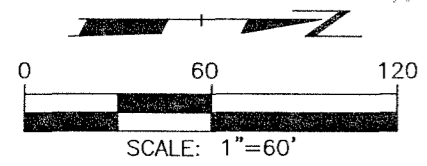
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 Attached Images: No images attached.

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 Operator Name: schonked
 Scale: 1"=60'
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LEGEND	
● MW-10	WATER TABLE WELL
⊙ MW-3BR	PIEZOMETER
====	RAILROAD
----	PROPERTY LINE
■ LI-1	LACTATE INJECTION WELL LOCATION
⊕ MW-23	APPROXIMATE LOCATION OF LACTATE INJECTION SYSTEM MONITORING WELL
⊙ MW-8D	APPROXIMATE LOCATION OF LACTATE INJECTION SYSTEM PIEZOMETER
←	DIRECTION OF GROUNDWATER FLOW

- NOTES**
1. FACILITY LAYOUT ADAPTED FROM DRAWINGS PROVIDED BY TECUMSEH PRODUCTS COMPANY.
 2. MONITORING WELLS MW-23, MW-24, MW-24R, MW-25, MW-26, AND PIEZOMETERS MW-8, AND MW-8D MONITOR TO EVALUATE THE LACTATE INJECTION SYSTEM.
 3. MW-24 WAS PAVED OVER DURING REPAVING OF THE PARKING LOT. MW-24R WAS CONSTRUCTED ON NOVEMBER 11, 2003 TO REPLACE MW-24.

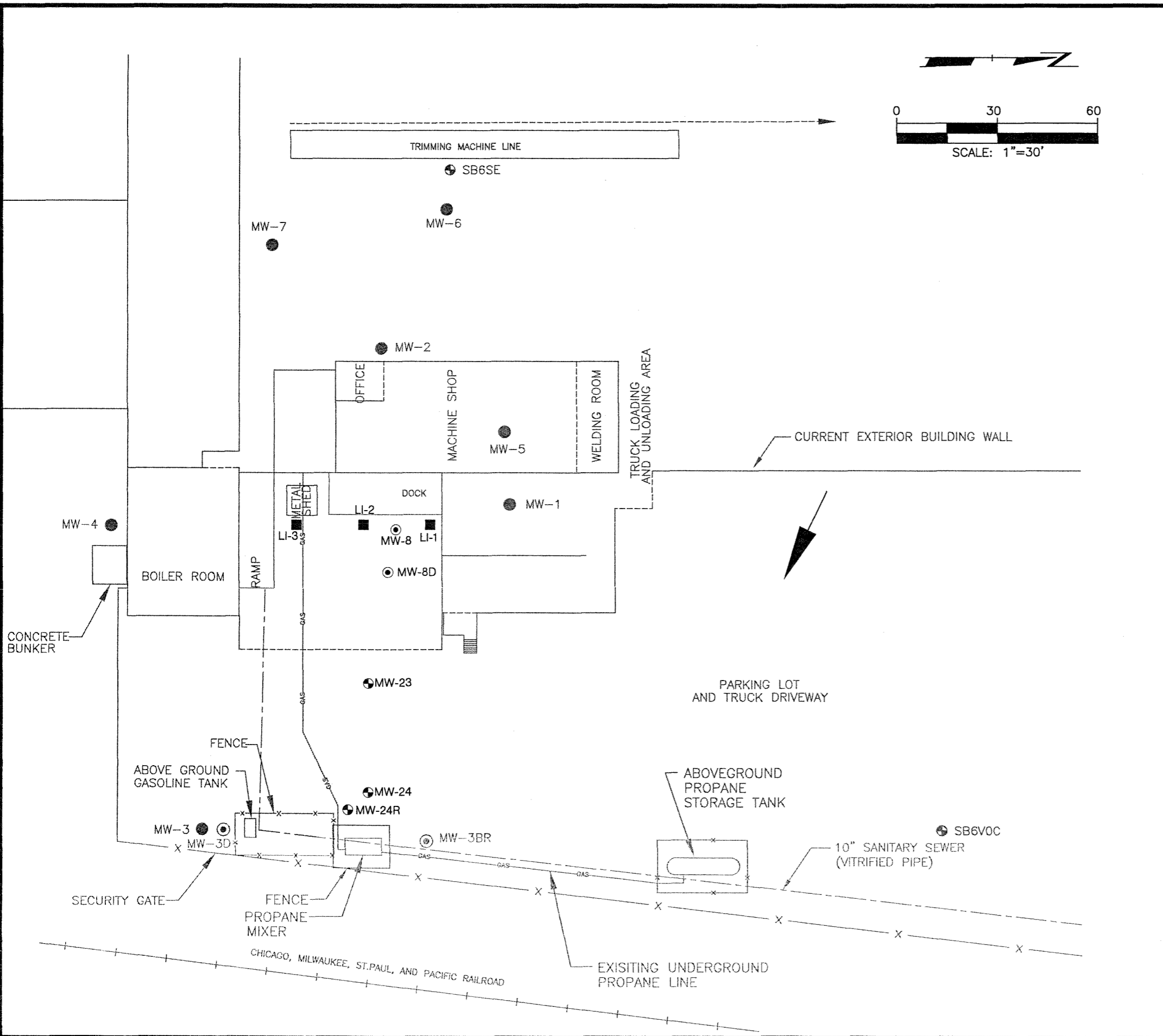


PROJECT: TECUMSEH POWER COMPANY LACTATE INJECTION SYSTEMS GRAFTON, WISCONSIN		
SHEET TITLE: SITE PLAN		
DRAWN BY: SCHONKED	SCALE: 1"=60'	PROJ. NO. 03084.30
CHECKED BY: AAS		FILE NO. 30843001.DWG
APPROVED BY: SAK	DATE PRINTED: MAY 02 2007	FIGURE 1
DATE: APRIL 2007		

RMT INC.
 744 Heartland Trail
 Madison, WI 53717-1934
 P.O. Box 8923 53708-8923
 Phone: 608-831-4444
 Fax: 608-831-3334

Plot Date: Tuesday, January 18, 2005
 Plot Time: 10:51:05 AM
 Attached Xrefs: No xrefs attached.
 Attached Images: No images attached

J:\03084\28\30842806.dwg
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 Operator Name: schonked
 Scale: 1"=30'
 Dwg Size: 85844 Bytes



LEGEND

- ⊕ MW-23 LACTATE SYSTEM MONITORING WELL
- MW-3 WATER TABLE WELL
- ⊙ MW-3D PIEZOMETER
- - - DOORWAY
- - - FLOOR DRAIN
- GAS - EXISTING UNDERGROUND PROPANE LINE
- LI-1 LACTATE INJECTION WELL
- ▶ DIRECTION OF GROUNDWATER FLOW

NOTES

1. FACILITY LAYOUT ADAPTED FROM DRAWINGS PROVIDED BY TECUMSEH PRODUCTS COMPANY.
2. MONITORING WELLS MW-23, MW-24, MW-24R, AND PIEZOMETERS MW-8, AND MW-8D ARE USED TO MONITOR AND EVALUATE THE LACTATE INJECTION SYSTEM.
3. MW-24 WAS PAVED OVER DURING REPAVING OF THE PARKING LOT. MW-24R WAS CONSTRUCTED ON NOVEMBER 11, 2003 TO REPLACE MW-24.

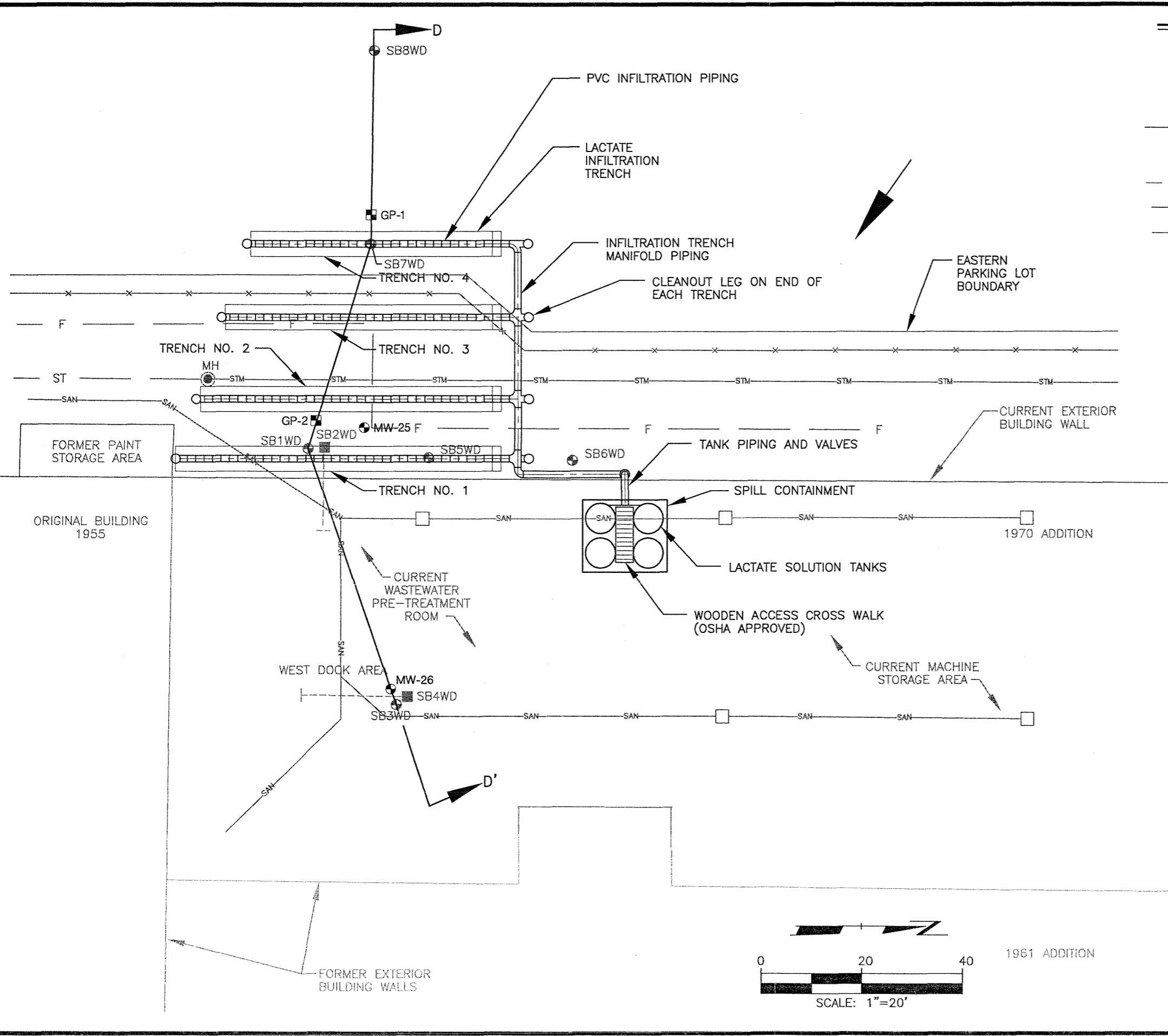
PROJECT: TECUMSEH POWER COMPANY LACTATE INJECTION SYSTEMS GRAFTON, WISCONSIN		
SHEET TITLE: RECYCLING DOCKS AREA		
DRAWN BY: SCHONKED	SCALE: 1"=30'	PROJ. NO. 03084.30
CHECKED BY: AAS	DATE PRINTED: MAY 02 2007	FILE NO. 30843002.DWG
APPROVED BY: SAK		FIGURE 2
DATE: APRIL 2007		

744 Heartland Trail
 Madison, WI 53717-1934
 P.O. Box 8923 53708-8923
 Phone: 608-831-4444
 Fax: 608-831-3334



Plot Date: Tuesday, January 18, 2005
 Plot Time: 10:52:39 AM
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 Scale: 1"=20'
 Dwg Size: 98134 Bytes



LEGEND

- ⊕ SB8WD EXISTING VERTICAL SOIL BORING (1995)
- SB4WD EXISTING ANGLE SOIL BORING (1995)
- ⊕ MW-25 MONITORING WELL LOCATION
- x — EXISTING FENCE
- - - - - TRAJECTORY OF ANGLE SOIL BORING
- - F - - FIRE LOOP
- STM - UNDERGROUND STORM SEWER
- SAN - UNDERGROUND SANITARY SEWER
- ⊙ MANHOLE
- FLOOR DRAIN
- ↑ GEOLOGIC CROSS SECTION LOCATION
- GP-1 SOIL BORING LOCATION (6/13/03)
- ← DIRECTION OF GROUNDWATER FLOW

- NOTES**
- FACILITY LAYOUT ADAPTED FROM DRAWINGS PROVIDED BY TECUMSEH PRODUCTS COMPANY.
 - MONITORING WELLS MW-23, MW-24, MW-24R, MW-25, MW-26, AND PIEZOMETERS MW-8, AND MW-8D ARE USED TO MONITOR AND EVALUATE THE LACTATE INJECTION SYSTEM.
 - CROSS SECTION IS SHOWN ON FIGURE 4.

PROJECT: TECUMSEH POWER COMPANY LACTATE INJECTION SYSTEMS GRAFTON, WISCONSIN		
TITLE: WEST DOCK AREA		
DRAWN BY: SCHONKED	SCALE: 1"=20'	PROJ. NO. 03084.30
CHECKED BY: AAS		FILE NO. 30843003.DWG
APPROVED BY: SAK	DATE PRINTED: MAY 02 2007	FIGURE 3
DATE: APRIL 2007		

744 Heartland Trail
 Madison, WI 53717-1934
 P.O. Box 8923 53708-8923
 Phone: 608-831-4444
 Fax: 608-831-3334

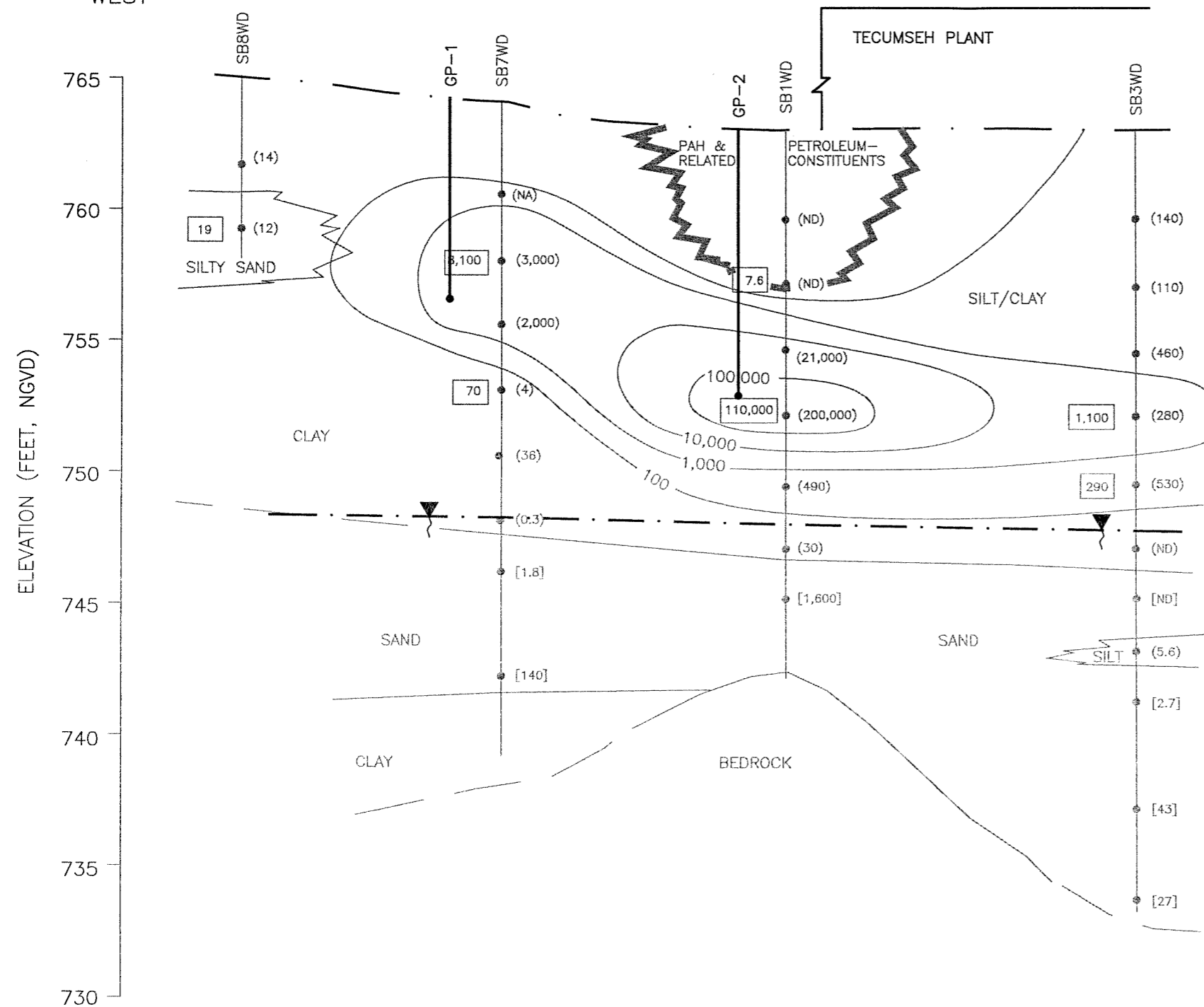
RMT INC.

D
WEST

WEST DOCK AREA

D'
EAST

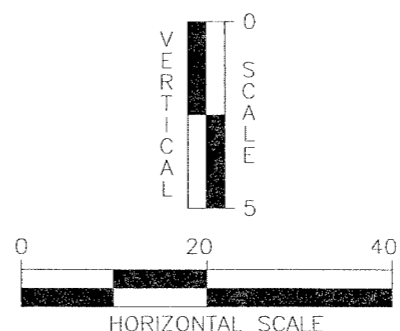
LEGEND



- (14) EQUIVALENT SOIL CONCENTRATION FOR TCE (ug/kg) (CALCULATED FROM PORTABLE GC DATA)
- NA NOT ANALYZED
- ND NOT DETECTED
- [19] LABORATORY RESULTS FOR TCE IN SOIL (ug/kg)
- [1.8] PORTABLE GC RESULTS FOR GROUNDWATER (ug/L)
- ESTIMATED EXTENT OF PAH AND PETROLEUM-RELATED COMPOUNDS IN SOIL
- ESTIMATED EXTENT OF TCE, ISOCONCENTRATION IN SOIL(ug/kg)
- APPROXIMATE WATER TABLE SURFACE
- SB1WD AUGUST 1995 SOIL BORINGS
- SAMPLE INTERVAL LOCATION
- GP-2 6/16/03 GEOPROBE BORING

NOTES

1. THIS CROSS SECTION IS BASED ON THE 1995 SOIL DATA SUBMITTED IN THE SUBSURFACE INVESTIGATION REPORT, DATED APRIL 1997.
2. THE CONTOURS SHOWN ARE NOT REPRESENTATIVE OF CURRENT CONDITIONS, BUT RATHER ARE SHOWN TO ILLUSTRATE RATIONALE FOR THE LOCATION OF 6/16/03 SOIL BORINGS.



PROJECT: TECUMSEH POWER COMPANY LACTATE INJECTION SYSTEMS GRAFTON, WISCONSIN		
SHEET TITLE: CROSS SECTION D-D' WITH TCE CONCENTRATIONS		
DRAWN BY: SCHONKED	SCALE: AS SHOWN	PROJ. NO. 03084.30
CHECKED BY: AAS	DATE PRINTED: MAY 02 2007	FILE NO. 30843004.DWG
APPROVED BY: SAK		FIGURE 4
DATE: APRIL 2007		

744 Heartland Trail
Madison, WI 53717-1934
P.O. Box 8923 53708-8923
Phone: 608-831-4444
Fax: 608-831-3334

RMT INC.

Plot Date: Tuesday, January 18, 2005
 Plot Time: 10:53:50 AM
 Attached Xref's: No xref's attached.
 Attached Images: No images attached.
 Drawing Name: J:\03084\28\30842808.dwg
 Operator Name: schonked
 Scale: 1"=20'
 Dwg. Size: 130360 Bytes

Figure 5
West Dock Area - Source Area Well MW-25
Molar Concentration of TCE and Degradation Products

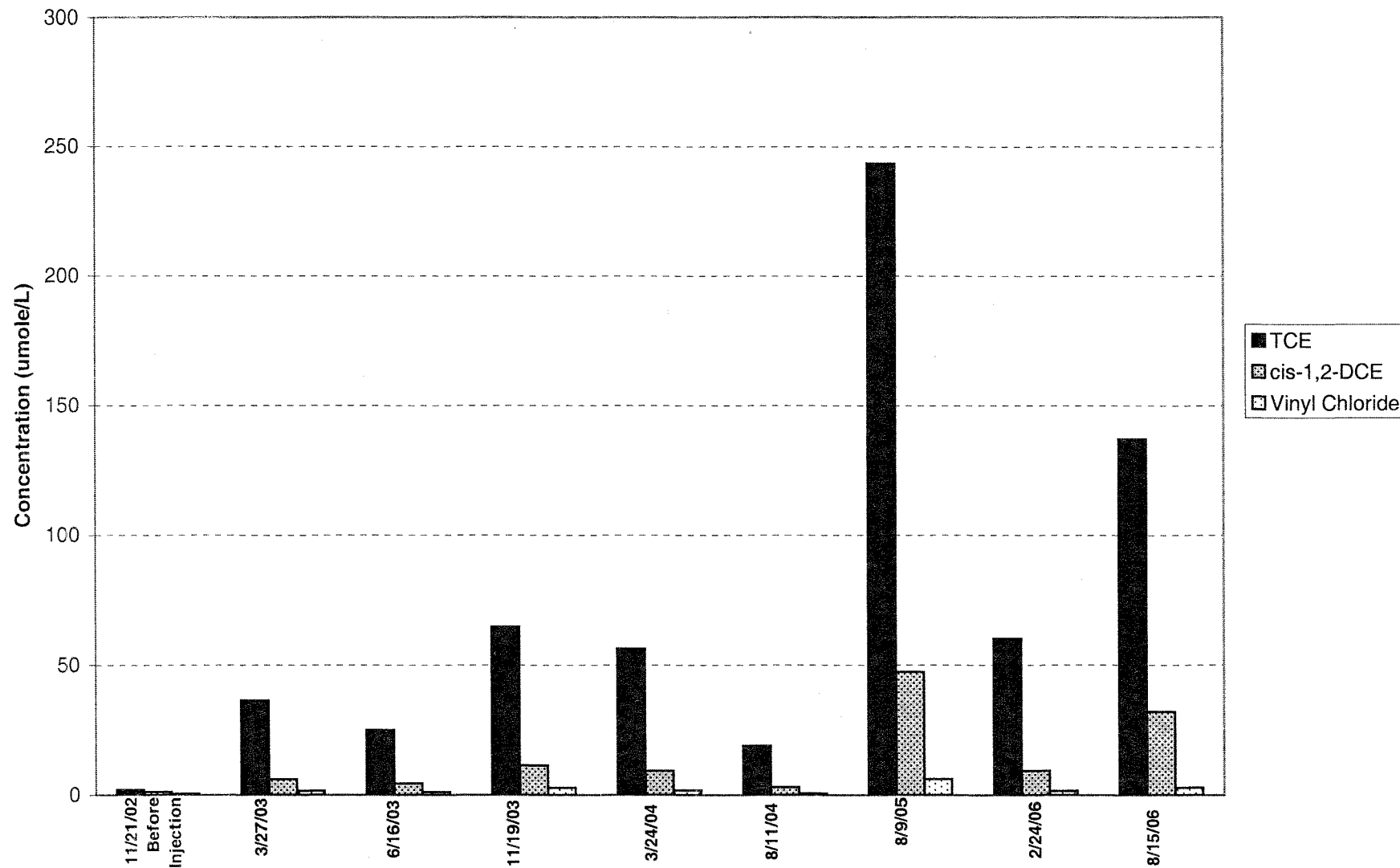
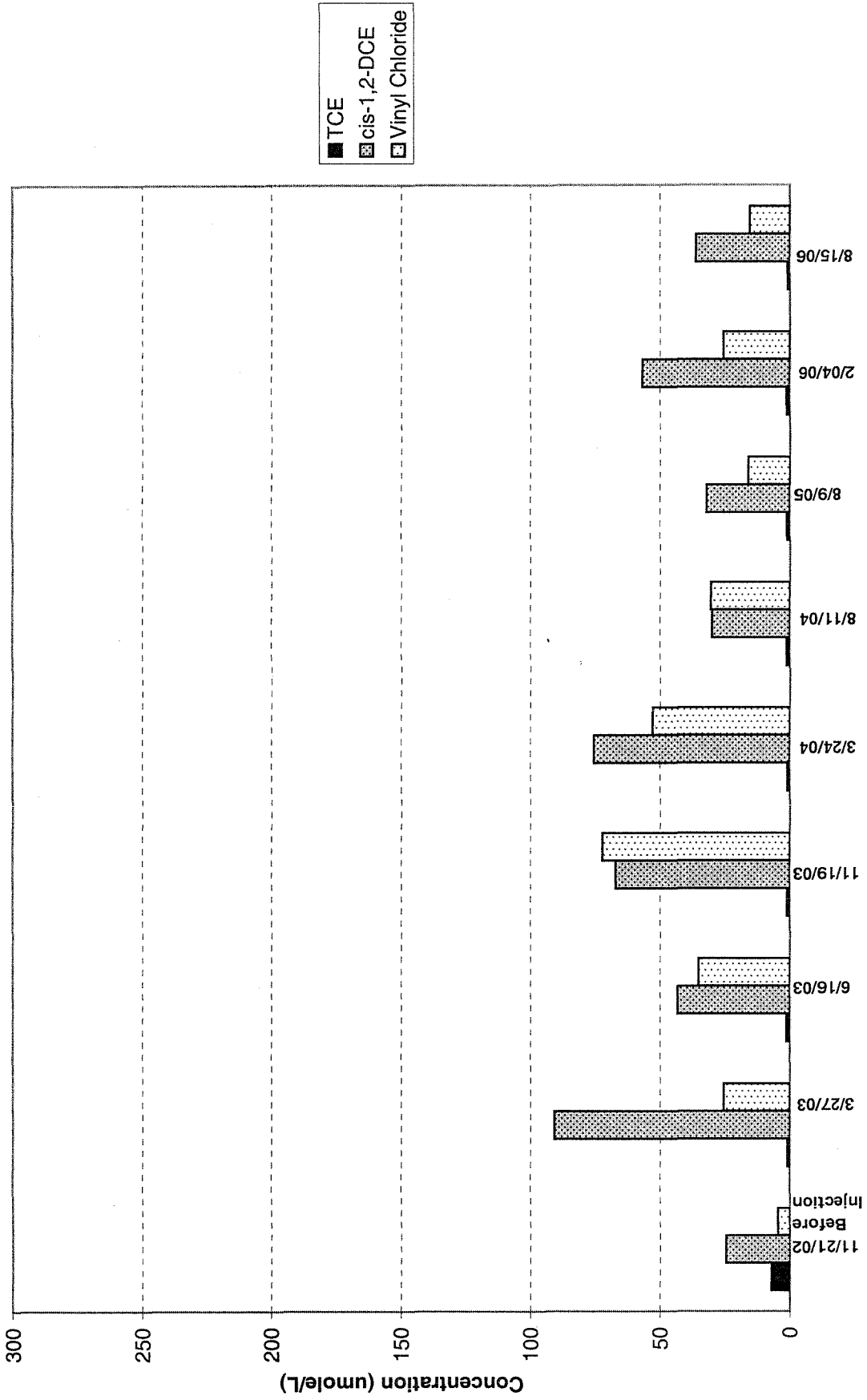
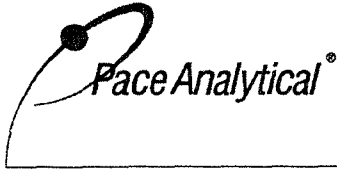


Figure 6
West Dock Area - Downgradient Well MW-26
Molar Concentration of TCE and Degradation Products



Attachment A
Laboratory Reports



1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 875236

Client: RMT - MADISON

Lab Contact: Tod Noltemeyer

Project Name: TPL

Project Number: 3084.30

Lab Sample Number	Field ID	Matrix	Collection Date
875236-001	MW26	WATER	08/15/06
875236-002	MW25	WATER	08/15/06
875236-003	MW24R	WATER	08/15/06
875236-004	MW23	WATER	08/15/06
875236-005	MW8D	WATER	08/15/06
875236-006	MW8	WATER	08/15/06
875236-007	TRIP BLANK	WATER	05/31/06
875236-008	GP-15-7'	SOIL	08/15/06
875236-009	GP-210-12'	SOIL	08/15/06

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Alexis for TN
Approval Signature

9/6/06
Date

1/32

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : MW26

Matrix Type : WATER
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Ani Date	Prep Method	Ani Method
Volatile Fatty Acids	INCL.									

VOLATILES - SPECIAL LIST

Prep Date: 08/23/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Ani Date	Prep Method	Ani Method
1,1,1-Trichloroethane	< 22	22	75		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 5.0	5.0	17		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 10	10	35		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	83	19	62		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 14	14	47		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 18	18	62		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 24	24	81		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 24	24	81		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 22	22	72		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 14	14	47		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 21	21	69		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 9.0	9.0	30		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 12	12	38		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 21	21	69		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 22	22	72		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 15	15	51		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 24	24	79		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 16	16	52		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 21	21	71		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 18	18	62		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Benzene	< 10	10	34		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Bromobenzene	< 20	20	68		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 14	14	47		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 12	12	41		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 10	10	34		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 20	20	68		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloroethane	96	24	81		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloroform	< 9.2	9.2	31		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloromethane	< 6.0	6.0	20		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	3500	21	69		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 25	25	82		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 19	19	63		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Ethylbenzene	< 14	14	45		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 20	20	66		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 17	17	56		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 15	15	49		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Methylene Chloride	< 11	11	36		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 15	15	51		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Naphthalene	< 18	18	62		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 23	23	78		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 20	20	68		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 17	17	56		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 22	22	74		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 24	24	81		25	ug/L		08/23/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : MW26

Matrix Type : WATER
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-001

VOLATILES - SPECIAL LIST

Prep Date: 08/23/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Tetrachloroethene	< 11	11	38		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Toluene	< 17	17	56		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	84	22	74		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Trichloroethene	97	12	40		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Vinyl Chloride	960	4.5	15		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Xylene, o	< 21	21	69		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Xylenes, m + p	< 45	45	150		25	ug/L		08/23/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	88	64	132		25	%		08/23/06	SW846 5030B	SW846 8260B
Toluene-d8	101	73	127		25	%		08/23/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	96	68	122		25	%		08/23/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : MW25

Matrix Type : WATER
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-002

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Volatile Fatty Acids	INCL.									

VOLATILES - SPECIAL LIST

Prep Date: 08/23/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1-Trichloroethane	< 110	110	380		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	83		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 52	52	180		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 94	94	310		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 71	71	240		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 92	92	310		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 120	120	400		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 120	120	400		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 110	110	360		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 70	70	230		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 100	100	350		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 45	45	150		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 58	58	190		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 100	100	350		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 110	110	360		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 76	76	250		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 120	120	400		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 78	78	260		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 110	110	350		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 92	92	310		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Benzene	< 51	51	170		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Bromobenzene	< 100	100	340		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 70	70	230		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 61	61	200		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 51	51	170		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 100	100	340		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloroethane	< 120	120	400		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloroform	< 46	46	150		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloromethane	< 30	30	100		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	3100	100	350		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 120	120	410		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 95	95	320		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Ethylbenzene	< 68	68	220		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 99	99	330		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 84	84	280		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 74	74	250		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Methylene Chloride	< 54	54	180		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 76	76	250		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Naphthalene	< 92	92	310		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 120	120	390		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 100	100	340		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 84	84	280		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 110	110	370		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 120	120	400		125	ug/L		08/23/06	SW846 5030B	SW846 8260B

5

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON

Project Name : TPL

Project Number : 3084.30

Field ID : MW25

Matrix Type : WATER

Collection Date : 08/15/06

Report Date : 08/30/06

Lab Sample Number : 875236-002

VOLATILES - SPECIAL LIST

Prep Date: 08/23/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Tetrachloroethene	< 56	56	190		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Toluene	< 84	84	280		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 110	110	370		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Trichloroethene	18000	60	200		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Vinyl Chloride	170	22	75		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Xylene, o	< 100	100	350		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Xylenes, m + p	< 220	220	750		125	ug/L		08/23/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	89	64	132		125	%		08/23/06	SW846 5030B	SW846 8260B
Toluene-d8	99	73	127		125	%		08/23/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	94	68	122		125	%		08/23/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : MW24R

Matrix Type : WATER
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-003

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Volatile Fatty Acids	INCL.									

VOLATILES - SPECIAL LIST

Prep Date: 08/22/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	5.9	0.75	2.5		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Chloroethane	1.5	0.97	3.2		1	ug/L	Q	08/22/06	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Chloromethane	0.94	0.24	0.80		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		08/22/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : MW24R

Matrix Type : WATER
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-003

VOLATILES - SPECIAL LIST

Prep Date: 08/22/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Tetrachloroethene	0.82	0.45	1.5		1	ug/L	QX	08/22/06	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Trichloroethene	1.3	0.48	1.6		1	ug/L	Q	08/22/06	SW846 5030B	SW846 8260B
Vinyl Chloride	0.38	0.18	0.60		1	ug/L	Q	08/22/06	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L		08/22/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	80	64	132		1	%		08/22/06	SW846 5030B	SW846 8260B
Toluene-d8	83	73	127		1	%		08/22/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	83	68	122		1	%		08/22/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : MW23

Matrix Type : WATER
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-004

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Volatile Fatty Acids	INCL.									

VOLATILES - SPECIAL LIST

Prep Date: 08/23/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1-Trichloroethane	< 45	45	150		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 10	10	33		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 21	21	70		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	220	38	120		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 28	28	95		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 37	37	120		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 48	48	160		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	70	48	160		50	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 44	44	140		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 28	28	93		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 42	42	140		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	43	18	60		50	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 23	23	77		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 42	42	140		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 44	44	140		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 30	30	100		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 48	48	160		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 31	31	100		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 42	42	140		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 37	37	120		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Benzene	< 20	20	68		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Bromobenzene	< 41	41	140		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 28	28	93		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 24	24	82		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 20	20	68		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 40	40	140		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloroethane	5500	48	160		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloroform	< 18	18	62		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloromethane	29	12	40		50	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 42	42	140		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 50	50	160		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 38	38	130		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Ethylbenzene	39	27	90		50	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 40	40	130		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 34	34	110		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 30	30	98		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Methylene Chloride	120	22	72		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 30	30	100		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Naphthalene	150	37	120		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 46	46	160		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 40	40	140		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 34	34	110		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 44	44	150		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 48	48	160		50	ug/L		08/23/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : MW23

Matrix Type : WATER
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-004

VOLATILES - SPECIAL LIST

Prep Date: 08/23/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Tetrachloroethene	< 22	22	75		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Toluene	210	34	110		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	56	44	150		50	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
Trichloroethene	< 24	24	80		50	ug/L		08/23/06	SW846 5030B	SW846 8260B
Vinyl Chloride	11	9.0	30		50	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
Xylene, o	54	42	140		50	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
Xylenes, m + p	96	90	300		50	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	81	64	132		50	%		08/23/06	SW846 5030B	SW846 8260B
Toluene-d8	87	73	127		50	%		08/23/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	82	68	122		50	%		08/23/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : MW8D

Matrix Type : WATER
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-005

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Volatile Fatty Acids	INCL.									

VOLATILES - SPECIAL LIST

Prep Date: 08/23/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1-Trichloroethane	4.6	4.5	15		5	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 1.0	1.0	3.3		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 2.1	2.1	7.0		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	52	3.8	12		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 2.8	2.8	9.5		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 3.7	3.7	12		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 4.8	4.8	16		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 4.8	4.8	16		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 4.4	4.4	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 2.8	2.8	9.3		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 4.1	4.1	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	2.6	1.8	6.0		5	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 2.3	2.3	7.7		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 4.1	4.1	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 4.4	4.4	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 3.0	3.0	10		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 4.8	4.8	16		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 3.1	3.1	10		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 4.2	4.2	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 3.7	3.7	12		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Benzene	< 2.0	2.0	6.8		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Bromobenzene	< 4.1	4.1	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 2.8	2.8	9.3		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 2.4	2.4	8.2		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 2.0	2.0	6.8		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 4.1	4.1	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloroethane	430	4.8	16		5	ug/L	N	08/23/06	SW846 5030B	SW846 8260B
Chloroform	< 1.8	1.8	6.2		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloromethane	3.6	1.2	4.0		5	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 4.1	4.1	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 5.0	5.0	16		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 3.8	3.8	13		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Ethylbenzene	< 2.7	2.7	9.0		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 4.0	4.0	13		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 3.4	3.4	11		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 2.9	2.9	9.8		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Methylene Chloride	21	2.2	7.2		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 3.0	3.0	10		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Naphthalene	< 3.7	3.7	12		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 4.6	4.6	16		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 4.1	4.1	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 3.4	3.4	11		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 4.4	4.4	15		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 4.8	4.8	16		5	ug/L		08/23/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : MW8D

Matrix Type : WATER
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-005

VOLATILES - SPECIAL LIST

Prep Date: 08/23/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Tetrachloroethene	< 2.2	2.2	7.5		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Toluene	< 3.4	3.4	11		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 4.4	4.4	15		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Trichloroethene	< 2.4	2.4	8.0		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Vinyl Chloride	6.0	0.90	3.0		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Xylene, o	< 4.1	4.1	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Xylenes, m + p	< 9.0	9.0	30		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	80	64	132		5	%		08/23/06	SW846 5030B	SW846 8260B
Toluene-d8	83	73	127		5	%		08/23/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	82	68	122		5	%		08/23/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : MW8

Matrix Type : WATER
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-006

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Volatile Fatty Acids	INCL.									

VOLATILES - SPECIAL LIST

Prep Date: 08/23/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1-Trichloroethane	54	4.5	15		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 1.0	1.0	3.3		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 2.1	2.1	7.0		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	460	3.8	12		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 2.8	2.8	9.5		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 3.7	3.7	12		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 4.8	4.8	16		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	24	4.8	16		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 4.4	4.4	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 2.8	2.8	9.3		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 4.1	4.1	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	11	1.8	6.0		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	11	2.3	7.7		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	8.5	4.1	14		5	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 4.4	4.4	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 3.0	3.0	10		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 4.8	4.8	16		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 3.1	3.1	10		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 4.2	4.2	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 3.7	3.7	12		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Benzene	< 2.0	2.0	6.8		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Bromobenzene	< 4.1	4.1	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 2.8	2.8	9.3		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 2.4	2.4	8.2		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 2.0	2.0	6.8		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 4.1	4.1	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloroethane	420	4.8	16		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloroform	< 1.8	1.8	6.2		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Chloromethane	3.2	1.2	4.0		5	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	6.7	4.1	14		5	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 5.0	5.0	16		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 3.8	3.8	13		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Ethylbenzene	7.5	2.7	9.0		5	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 4.0	4.0	13		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 3.4	3.4	11		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 2.9	2.9	9.8		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Methylene Chloride	6.0	2.2	7.2		5	ug/L	Q	08/23/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 3.0	3.0	10		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Naphthalene	25	3.7	12		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 4.6	4.6	16		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 4.1	4.1	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 3.4	3.4	11		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 4.4	4.4	15		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 4.8	4.8	16		5	ug/L		08/23/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : MW8

Matrix Type : WATER
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-006

VOLATILES - SPECIAL LIST

Prep Date: 08/23/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Tetrachloroethene	2.8	2.2	7.5		5	ug/L	QX	08/23/06	SW846 5030B	SW846 8260B
Toluene	37	3.4	11		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	18	4.4	15		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Trichloroethene	< 2.4	2.4	8.0		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Vinyl Chloride	9.4	0.90	3.0		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Xylene, o	22	4.1	14		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Xylenes, m + p	30	9.0	30		5	ug/L		08/23/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	81	64	132		5	%		08/23/06	SW846 5030B	SW846 8260B
Toluene-d8	84	73	127		5	%		08/23/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	83	68	122		5	%		08/23/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : TRIP BLANK

Matrix Type : WATER
Collection Date : 05/31/06
Report Date : 08/30/06
Lab Sample Number : 875236-007

VOLATILES - SPECIAL LIST

Prep Date: 08/22/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 0.93	0.93	3.1		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 0.89	0.89	3.0		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 0.97	0.97	3.2		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON

Project Name : TPL

Project Number : 3084.30

Field ID : TRIP BLANK

Matrix Type : WATER

Collection Date : 05/31/06

Report Date : 08/30/06

Lab Sample Number : 875236-007

VOLATILES - SPECIAL LIST

Prep Date: 08/22/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Xylenes, m + p	< 1.8	1.8	6.0		1	ug/L	V	08/22/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	80	64	132		1	%		08/22/06	SW846 5030B	SW846 8260B
Toluene-d8	84	73	127		1	%		08/22/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	81	68	122		1	%		08/22/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : GP-15-7'

Matrix Type : SOIL
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-008

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	89.0				1	%		08/21/06	SM M2540G	SM M2540G

VOLATILES - SPECIAL LIST

Prep Date: 08/25/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1-Trichloroethane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Benzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Bromobenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Chloroethane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Chloroform	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Chloromethane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Ethylbenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Methylene Chloride	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Naphthalene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : GP-15-7'

Matrix Type : SOIL
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-008

VOLATILES - SPECIAL LIST

Prep Date: 08/25/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Tetrachloroethene	220	28	67		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Toluene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Trichloroethene	1000	28	67		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Vinyl Chloride	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Xylene, o	< 25	25	60		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Xylenes, m + p	< 50	50	120		50	ug/Kg		08/25/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	98	64	133		50	%		08/25/06	SW846 5030B	SW846 8260B
Toluene-d8	98	67	139		50	%		08/25/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	95	64	140		50	%		08/25/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON
Project Name : TPL
Project Number : 3084.30
Field ID : GP-210-12'

Matrix Type : SOIL
Collection Date : 08/15/06
Report Date : 08/30/06
Lab Sample Number : 875236-009

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	87.3				1	%		08/21/06	SM M2540G	SM M2540G

VOLATILES - SPECIAL LIST

Prep Date: 08/25/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1-Trichloroethane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	120	72	170		125	ug/Kg	Q	08/28/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	120	72	170		125	ug/Kg	Q	08/28/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Benzene	620	72	170		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Bromobenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Chloroethane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Chloroform	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Chloromethane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	8200	72	170		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Ethylbenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Methylene Chloride	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Naphthalene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 875236

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : RMT - MADISON

Project Name : TPL

Project Number : 3084.30

Field ID : GP-210-12'

Matrix Type : SOIL

Collection Date : 08/15/06

Report Date : 08/30/06

Lab Sample Number : 875236-009

VOLATILES - SPECIAL LIST

Prep Date: 08/25/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Tetrachloroethene	230	72	170		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Toluene	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	110	72	170		125	ug/Kg	Q	08/28/06	SW846 5030B	SW846 8260B
Trichloroethene	16000	72	170		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Vinyl Chloride	76	72	170		125	ug/Kg	Q	08/28/06	SW846 5030B	SW846 8260B
Xylene, o	< 62	62	150		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Xylenes, m + p	< 120	120	300		125	ug/Kg		08/28/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	94	64	133		125	%		08/28/06	SW846 5030B	SW846 8260B
Toluene-d8	93	67	139		125	%		08/28/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	96	64	140		125	%		08/28/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
Fax: 920-469-8827

Lab Number	TestGroupID	Field ID	Comment
875236-003	SPECVOA-W	MW24R	X - It is likely that the concentration of PCE detected in the sample is due to contamination from the sample bottle used. We know that the contamination did not occur in the laboratory based on our internal quality control results.
875236-006	SPECVOA-W	MW8	X - It is likely that the concentration of PCE detected in the sample is due to contamination from the sample bottle used. We know that the contamination did not occur in the laboratory based on our internal quality control results.

Qualifier Codes

Flag Applies To Explanation

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the check standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level: therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.



Client Name: Pace Analytical
Contact: Todd Noltemeyer
Address: 1241 Bellevue
Suite 9
Green Bay, WI 54302

Page: Page 1 of 7
Lab Proj #: P0608359
Report Date: 08/24/06
Client Proj Name: 875236
Client Proj #: 875236

Laboratory Results

Total pages in data package: 9

<u>Lab Sample #</u>	<u>Client Sample ID</u>
P0608359-01	875236-001
P0608359-02	875236-002
P0608359-03	875236-003
P0608359-04	875236-004
P0608359-05	875236-005
P0608359-06	875236-006

Microseeps test results meet all the requirements of the NELAC standards.

Approved By: Allyne Hall

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

*As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.*

Case Narrative:

Client Name: Pace Analytical
 Contact: Todd Noltemeyer
 Address: 1241 Bellevue
 Suite 9
 Green Bay, WI 54302

Page: Page 2 of 7
 Lab Proj #: P0608359
 Report Date: 08/24/06
 Client Proj Name: 875236
 Client Proj #: 875236

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>			<u>Sampled Date/Time</u>		<u>Received</u>	
875236-001	Water	P0608359-01			15 Aug. 06 9:50		22 Aug. 06 13:11	
<u>Analyte(s)</u>	<u>Flag</u>	<u>Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
SemiVolatiles								
Acetic Acid	U	< 1.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Butyric acid	U	< 1.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Lactic Acid	U	< 25.0	25.0	3.6	mg/L	AM21G	8/23/06	td
Propionic acid	U	< 1.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Pyruvic acid	U	< 10.0	10.0	0.6	mg/L	AM21G	8/23/06	td



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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Client Name: Pace Analytical
 Contact: Todd Noltemeyer
 Address: 1241 Bellevue
 Suite 9
 Green Bay, WI 54302

Page: Page 3 of 7
 Lab Proj #: P0608359
 Report Date: 08/24/06
 Client Proj Name: 875236
 Client Proj #: 875236

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
875236-002	Water	P0608359-02		15 Aug. 06 11:55		22 Aug. 06 13:11	
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
SemiVolatiles							
Acetic Acid	U < 1.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Butyric acid	U < 1.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Lactic Acid	U < 25.0	25.0	3.6	mg/L	AM21G	8/23/06	td
Propionic acid	U < 1.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Pyruvic acid	U < 10.0	10.0	0.6	mg/L	AM21G	8/23/06	td

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Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical
 Contact: Todd Noltemeyer
 Address: 1241 Bellevue
 Suite 9
 Green Bay, WI 54302

Page: Page 4 of 7
 Lab Proj #: P0608359
 Report Date: 08/24/06
 Client Proj Name: 875236
 Client Proj #: 875236

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
875236-003	Water	P0608359-03		15 Aug. 06 13:00		22 Aug. 06 13:11	
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
SemiVolatiles							
Acetic Acid	U < 1.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Butyric acid	U < 1.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Lactic Acid	U < 25.0	25.0	3.6	mg/L	AM21G	8/23/06	td
Propionic acid	U < 1.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Pyruvic acid	U < 10.0	10.0	0.6	mg/L	AM21G	8/23/06	td



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

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Client Name: Pace Analytical
 Contact: Todd Noltemeyer
 Address: 1241 Bellevue
 Suite 9
 Green Bay, WI 54302

Page: Page 5 of 7
 Lab Proj #: P0608359
 Report Date: 08/24/06
 Client Proj Name: 875236
 Client Proj #: 875236

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>		
875236-004	Water	P0608359-04		15 Aug. 06 13:40		22 Aug. 06 13:11		
<u>Analyte(s)</u>	<u>Flag</u>	<u>Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
SemiVolatiles								
Acetic Acid		450.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Butyric acid		2.5	1.0	0.1	mg/L	AM21G	8/23/06	td
Lactic Acid	U	< 25.0	25.0	3.6	mg/L	AM21G	8/23/06	td
Propionic acid		76.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Pyruvic acid	J	0.8	10.0	0.6	mg/L	AM21G	8/23/06	td

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Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical
 Contact: Todd Noltemeyer
 Address: 1241 Bellevue
 Suite 9
 Green Bay, WI 54302

Page: Page 6 of 7
 Lab Proj #: P0608359
 Report Date: 08/24/06
 Client Proj Name: 875236
 Client Proj #: 875236

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>			<u>Sampled Date/Time</u>	<u>Received</u>		
875236-005	Water	P0608359-05			15 Aug. 06 14:20	22 Aug. 06 13:11		
<u>Analyte(s)</u>	<u>Flag Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>	
SemiVolatiles								
Acetic Acid		15.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Butyric acid	U	< 1.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Lactic Acid	U	< 25.0	25.0	3.6	mg/L	AM21G	8/23/06	td
Propionic acid	U	< 1.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Pyruvic acid	U	< 10.0	10.0	0.6	mg/L	AM21G	8/23/06	td

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Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical
 Contact: Todd Noltemeyer
 Address: 1241 Bellevue
 Suite 9
 Green Bay, WI 54302

Page: Page 7 of 7
 Lab Proj #: P0608359
 Report Date: 08/24/06
 Client Proj Name: 875236
 Client Proj #: 875236

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>			<u>Sampled Date/Time</u>		<u>Received</u>	
875236-006	Water	P0608359-06			15 Aug. 06 15:00		22 Aug. 06 13:11	
<u>Analyte(s)</u>	<u>Flag</u>	<u>Result</u>	<u>PQL</u>	<u>MDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
SemiVolatiles								
Acetic Acid		15.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Butyric acid	U	< 1.0	1.0	0.1	mg/L	AM21G	8/23/06	td
Lactic Acid	U	< 25.0	25.0	3.6	mg/L	AM21G	8/23/06	td
Propionic acid	J	0.4	1.0	0.1	mg/L	AM21G	8/23/06	td
Pyruvic acid	U	< 10.0	10.0	0.6	mg/L	AM21G	8/23/06	td

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Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 / 1
0960843

Section A

Required Client Information:

Company: RMT
 Address: 744 Heartland Trail
Madison WI 53717
 Email To: _____
 Phone: (608) 831-4444 Fax: (608) 831-3374
 Requested Due Date/TAT: _____

Section B

Required Project Information:

Report To: Alyssa Sellwood
 Copy To: _____
 Purchase Order No.: _____
 Project Name: TPL
 Project Number: 3084.30

Section C

Invoice Information:

Attention: John Rice
 Company Name: RMT
 Address: SAME
 Pace Quote Reference: _____
 Pace Project Manager: _____
 Pace Profile #: _____

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA Other _____

SITE LOCATION GA IL IN MI MN NC
 OH SC WI OTHER _____

ITEM #	Section D Required Client Information		Valid Matrix Codes		MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Filtered (Y/N)	Requested Analysis:	Lab I.D.
	SAMPLE ID		MATRIX	CODE			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol			
	One Character per box. (A-Z, 0-9 / -)		DRINKING WATER DW	WATER WT	DATE	TIME	DATE	TIME														
1	M	W26																				
2	M	W25																				
3	M	W24R																				
4	M	W23																				
5	M	W8D																				
6	M	W8DMS/MSD																				
7	M	W8																				
8	T	RZPBLANK																				
9																						
10																						
11																						
12																						

875236
 Pace Project Number
 Residual Chlorine (Y/N) _____
 6-40mL (3-HCl) (3-1mL)
 25.10mL (HCl) 6-40 mL (MAMP)
 2-40mL (HCl)

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION			
<u>[Signature]</u>	8/16/06	800	<u>[Signature]</u>	8/16/06	0900	Y/N	Y/N	Y/N	Y/N
<u>[Signature]</u>	8/17/06					Y/N	Y/N	Y/N	Y/N
Dunham	8/18	0820	C Schufelber	8/18	0820	Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Koelker
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YY): 8/16/06

Temp in °C	Received on ice	Custody	Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N	Y/N

SEE REVERSE SIDE FOR INSTRUCTIONS



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Section A

Required Client Information:

Company: RMT
 Address: 744 Heartland Trail
Madison, WI 53717
 Email To:
 Phone: (608) 831-4444 Fax: (608) 831-8334
 Requested Due Date/TAT:

Section B

Required Project Information:

Report To: Hlyssa Sellwood
 Copy To:
 Purchase Order No.:
 Project Name: TPL
 Project Number: 3084.30

Section C

Invoice Information:

Attention: John Rice
 Company Name: RMT
 Address: SAME
 Pace Quote Reference:
 Pace Project Manager:
 Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA Other _____

SITE LOCATION

GA IL IN MI MN NC
 OH SC WI OTHER _____

Section D Required Client Information

SAMPLE ID
 One Character per box.
 (A-Z, 0-9 / -)
 Samples IDs MUST BE UNIQUE

Valid Matrix Codes:
 MATRIX CODE
 DRINKING WATER DW
 WATER WT
 WASTE WATER WW
 PRODUCT P
 SOIL/SOLID SL
 OIL WP
 WIPE AR
 AIR OT
 OTHER TS
 TISSUE TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Filtered (Y/N)	Requested Analysis:	Residual Chlorine (Y/N)	Pace Project Number	Lab I.D.	
				COMPOSITE START		COMPOSITE END				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol						Other
				DATE	TIME	DATE	TIME															
1	GP-15-7'		SL C	8/15/06	1015	8/15/06	1015	3	X									21	875236	1-HOZ 2-20Z POLY 867 MATH		
2	GP-210-12'		SL C	8/15/06	1040	8/15/06	1040	3	X									21				
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
<u>[Signature]</u>	8/16/06	800	<u>[Signature]</u>	8/17/06	0900	Y/N
<u>Dunnam</u>	8/18	0820	<u>P. Schuefeler</u>	8/18	0820	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:
John Koelke
 SIGNATURE of SAMPLER:
[Signature]

DATE Signed (MM/DD/YY)
8/17/06

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N

