



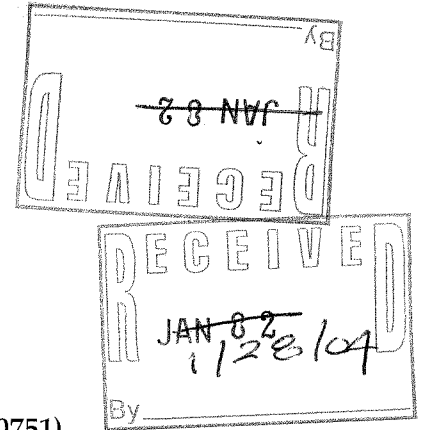
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January 19, 2004

Mr. John Feeney
Wisconsin Department of Natural Resources
4041 North Richards Street
P.O. Box 12436
Milwaukee, WI 53212-0436



**Subject: 2003 Annual Status Report – Lactate Injection System
Tecumseh Products Company
Grafton, Wisconsin (WDNR FID #24009170, BRRTS #02-46000751)**

Dear Mr. Feeney:

The purpose of this letter is to provide the Wisconsin Department of Natural Resources (WDNR) with a status report on the lactate injection system (*in situ* enhanced bioremediation system) at the Tecumseh Products Company (Tecumseh) in Grafton, Wisconsin, for the year following construction of the lactate injection systems (November 2002 through November 2003). We have included in this letter a discussion of the lactate injections and monitoring events, a summary of the groundwater monitoring and soil monitoring results, and conclusions and recommendations based on the monitoring results.

Background

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 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). The locations of the wells and trenches are shown on Figure 1.

Previous investigations of the soil and groundwater, detailed in the Subsurface Investigation Report (RMT, 1997), 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). 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 1,1,1-TCA is occurring in both areas, and could be accelerated with the addition of lactate. Consequently, enhanced bioremediation through lactate injections was selected as the remedial option for these areas at Tecumseh.

As described in the WDNR Publication RR-699, "Understanding Chlorinated Hydrocarbons" (WDNR, 2003), anaerobic biodegradation of TCE and 1,1,1-TCA can occur by reductive dechlorination. The lactate injected at the Tecumseh site serves as an electron donor in the redox

reaction, and the TCE, or a similar chlorinated compound, serves as the electron acceptor. When lactate is degraded, volatile fatty acids (VFAs) and hydrogen are produced. Hydrogen is believed to serve as the actual electron donor in reductive dechlorination. In reductive dechlorination, TCE, or a similar chlorinated compound, is reduced by the replacement of a chlorine atom with a hydrogen atom.

Site Activities

Lactate Injections

Two rounds of lactate injections have been conducted at both the West Dock Area and the Recycling Dock Area since construction of the wells and trenches was completed. The lactate solution used for each injection is composed of sodium lactate, sodium sulfide, yeast extract, and sodium bicarbonate. The target concentration for each constituent during each injection is 2,000 mg/L, 30 mg/L, 10 mg/L, and 37 mg/L, respectively. In the Recycling Dock Area, the lactate solution is injected directly into the groundwater via three injection wells to target treatment of the groundwater; whereas, in the West Dock Area, the lactate solution is injected into the vadose zone via gravity infiltration trenches to target treatment of the unsaturated soil and groundwater. The injection procedure for each area is outlined in the Construction Documentation Report.

Recycling Dock Area

The injections in the Recycling Dock Area occur over approximately a 24-hour time period. The first injection occurred on November 23, 2002, and the second injection occurred on April 11, 2003. The total flow volumes during the first and second injections were 20,695 and 18,238 gallons, respectively. The average flow rates for injection wells LI-1, LI-2, and LI-3 were 4.1, 3.5, and 4.1 gpm, respectively, during the first injection, and 4.2, 3.7, and 3.8, respectively, during the second injection. The total average flow rate was 11.7 gpm for both injections.

West Dock Area

The injections in the West Dock Area occur over approximately a 2-month time period. The first injection occurred during November 22, 2002, through February 17, 2003; and the second injection occurred during April 4, 2003, through May 16, 2003. The total flow volumes recorded during the first and second injection were 63,958 and 59,282 gallons, respectively.

Groundwater Monitoring and Well Replacement

The locations of the monitoring wells that are monitored by RMT (MW-8, M-8D, MW-23, MW-24 [MW-24R], MW-25, and MW-26) to assess the effectiveness of the *in situ* enhanced bioremediation system are shown on Figures 1 through 3. Monitoring wells MW-8 through MW-24 are used to evaluate the Recycling Dock Area (Figure 2), and monitoring wells MW-25 and MW-26 are used to

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evaluated the West Dock Area (Figure 3). RMT was on-site on November 21, 2003, prior to start-up of the lactate injection system, to collect background groundwater samples from the aforementioned list of wells. Monitoring well MW-8 was not sampled during this initial sampling round, because the well could not be located. RMT collected groundwater samples from each well on March 27, 2003, following completion of the first injection. A sample was not collected from MW-8D during this sampling round because it was dry. RMT also collected groundwater samples from each well on June 16, and November 19, 2003, following completion of the second injection.

Monitoring well MW-24 was not sampled during the June 16, 2003, sampling event because it had been paved over when the parking lot near the Recycling Dock Area was resurfaced. RMT first became aware of the issue during a site visit on June 13, 2003, and attempted to locate the well at this time without success. Representatives from Tecumseh elected to have RMT replace MW-24, rather than destroy a large area of the parking lot in order to locate the well. Monitoring well MW-24 was replaced on November 11, 2003, by On-Site Environmental (MW-24R). RMT was on-site to document construction of the well. The boring log and the well construction diagram for MW-24R are included in Attachment A. The location of MW-24R is shown on Figures 1 and 2.

Soil Monitoring

RMT and the Geoprobe® subcontractor, SGS, Inc., were on-site on June 13, 2003, to collect two soil samples from the West Dock Area following completion of the second lactate injection. Numerous soil samples were collected in the 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 soil that contained high concentrations of TCE were targeted during the June 2003 soil sampling. 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 four sampling rounds were submitted to TriMatrix Laboratories, Inc., and laboratory-analyzed for volatile organic compounds (VOCs), VFAs, and chloride; with one exception, the background samples from the first round were not analyzed for VFAs. The laboratory reports are included in Attachment B. 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

In general, the concentrations of TCE and 1,1,1,-TCA have been decreasing in the Recycling Dock Area since the lactate injections were initiated. The effects of the lactate injection system can be seen most dramatically in the wells adjacent to, and directly downgradient from, the injection locations (MW-8 and MW-23). In MW-8, the concentration of 1,1,1-TCA has decreased from 110 to 43 µg/L, while the concentration of its breakdown products, 1,1-dichloroethane (DCA) and chloroethane, have increased from 160 to 500 µg/L and from 2.3 to 46 µg/L, respectively. In MW-23, the concentration of 1,1-DCA has decreased from 47,000 µg/L to 2,200 µg/L, while the concentration of its breakdown product, chloroethane, has increased from less than 420 µg/L to 12,000 µg/L. The decrease in 1,1,1-TCA in MW-8 and 1,1-DCA in MW-23, marked by the increase in their respective breakdown products within each well, indicates that anaerobic biodegradation of the chlorinated solvents is occurring at an accelerated rate in the groundwater in the Recycling Dock Area.

The presence of residual VFAs in monitoring wells provides further support that anaerobic biodegradation is occurring in the Recycling Dock Area. As mentioned previously, VFAs are generated when lactate is biologically degraded. Hydrogen is also generated when lactate and subsequent VFAs (acetic and propionic acids) are degraded. The hydrogen is believed to serve as the electron donor in reductive dechlorination. Acetic acid was detected in MW-8, MW-8D, MW-23, and MW-24 at concentrations ranging from 1.2 to 780 mg/L. In addition, propionic acid was detected in MW-8, MW-8D, and MW-23 at concentrations ranging from 1.4 to 710 mg/L, and butyric acid was detected in MW-8D and MW-23 at concentrations ranging from 1.5 to 140 mg/L. In general the highest concentrations of the VFAs were detected in upgradient wells MW-8D and MW-23, which are closer to the injection location.

West Dock Area

The concentrations of TCE; cis-1,2-DCE; and vinyl chloride have increased from 260 µg/L to 8,500 µg/L, from 110 to 1,100 µg/L, and from 24 to 170 µg/L, respectively, in source area well, MW-25, since startup of the lactate injection system. The concentration of TCE has decreased from 950 mg/L to 140 µg/L in downgradient well MW-26 since startup of the lactate injection system; whereas, the concentrations of cis-1,2-DCE and vinyl chloride have increased from 2,400 to 6,500 µg/L and from 290 to 4,500 µg/L, respectively, since startup of the lactate injection system. In addition, the concentration of chloride has also increased in MW-25 and MW-26 from 32 to 93 mg/L, and from 170 to 373 mg/L, respectively.

The results for the West Dock Area indicate that the lactate injections through gravity infiltration are performing as anticipated. For illustration purposes, the molar concentrations of TCE; cis-1,2-DCE; and vinyl chloride in MW-25 and MW-26 are shown on Figure 5 for the four sampling rounds. Monitoring well MW-25 is within the source area of the TCE in the West Dock Area and is directly

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below the gravity infiltration trenches; whereas, MW-26 is downgradient from MW-25 and the source area. A significant concentration of TCE was detected in the vadose zone in the West Dock Area during the site investigation. The gravity infiltration trenches were designed to flush the TCE from the vadose zone and anaerobically degrade the TCE in the groundwater. As shown on Figure 5, and as described above, the concentration of TCE in MW-25 has increased following startup of the injections, thereby indicating that the gravity infiltration of lactate is flushing the TCE from the vadose zone. On the other hand, the concentration of TCE has decreased in MW-26, while the concentrations of cis-1,2-DCE and vinyl chloride have increased. The decrease in TCE, matched by the increase in the concentration of its breakdown products, provides strong support that anaerobic biodegradation of TCE is occurring in the groundwater within the West Dock Area.

The presence of residual VFAs in MW-25 and MW-26 provides further support that anaerobic biodegradation is occurring in the West Dock Area. The highest concentrations of the VFAs were detected in upgradient well MW-25. Acetic acid was detected in the samples collected from MW-25 and MW-26 on June 16, 2003, at concentrations of 94 and 2.6 mg/L, respectively. In addition, propionic acid was detected in the samples collected from MW-25 and MW-26 on June 16, 2003, at concentrations of 76 and 3.4 mg/L, respectively. VFAs were not detected in the samples collected during the March and November, 2003 sampling event, which suggests the need to increase the frequency or concentration of the lactate injections, in order to maintain a supply of electron donor for reductive dechlorination.

Trends in geochemical parameters, as listed in WDNR Publication RR-699 and RR-5184 (WDNR, 2003 and WDNR, 2002), support the conclusion that conditions are optimum for reductive dechlorination to occur. For example, the oxidation-reduction potential (ORP) has decreased, and the specific conductivity has increased in MW-25 and MW-26, following initiation of the lactate injections.

Soil Analysis

West Dock Area

The soil samples collected in June 2003 were submitted to EnChem, Inc., and laboratory-analyzed for VOCs. The laboratory report is included in Attachment C, and the results are summarized in Table 3. As mentioned previously, the borings constructed in June 2003 (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. As illustrated on Figures 3 and 4, the sample collected from GP-1 was in proximity to the sample collected in 1995 from SB7WD, and the sample collected from GP-2 was in proximity to the sample collected in 1995 from SB1WD. The results of the VOC analysis on the soil samples collected from SB1WD and SB7WD are also summarized in Table 3 for comparison purposes.

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The concentration of TCE in the soil sample collected 6 feet below grade from boring GP-1 was 820 µg/kg, compared to a concentration of 8,100 µg/kg as detected in the soil sampled collected from SB7WD in 1995. The concentration of TCE in the soil sample collected 11 feet below grade from boring GP-2 was 12,000 µg/kg, compared to a concentration of 110,000 µg/kg, as detected in the soil sampled collected from SB1WD in 1995. The results of the soil analysis further support the conclusion made in the analysis of the groundwater results, that the lactate injections through gravity infiltration are flushing the TCE from the vadose zone, and performing as anticipated.

Conclusions and Recommendations

The results of the groundwater monitoring and soil sampling indicate that the lactate injection systems at Tecumseh are performing as expected in both the Recycling Dock and the West Dock Areas. The concentrations of 1,1,1-TCA and 1,1-DCA have decreased in the Recycling Dock area, while the concentrations of their breakdown products have increased. In addition, residual VFAs degraded from the lactate are also present in this area. In the West Dock Area, the concentration of TCE has increased in the source area, while the concentration of TCE has decreased downgradient from the source area and the concentrations of its breakdown products have increased. This pattern, along with the decrease in the concentration of TCE in the unsaturated soil, suggests that the lactate infiltration trenches are flushing the TCE from the vadose zone and that the TCE is undergoing anaerobic biological degradation in the groundwater. VFAs were detected a month after the most recent lactate injection, but no residual VFAs were detected 6 months after the injection.

The residual VFAs in the Recycling Dock Area and the low to nondetectable concentrations of VFAs in the West Dock Area suggest that slight modifications should be made to the lactate solution in each area. In general, a less concentrated solution of lactate is needed in the Recycling Dock Area, while a more concentrated solution of lactate is needed in the West Dock Area to optimize performance of each system.

The elevated concentration of vinyl chloride in MW-26 in the West Dock Area is expected to decrease as reductive dechlorination continues at the site. The addition of a more concentrated solution of lactate in the West Dock Area should provide the additional nutrients necessary to accelerate the biological degradation of vinyl chloride. In addition, it is possible that vinyl chloride will degrade aerobically, once it is downgradient of the reducing area. Monitoring wells MW-9 and MW-9D will be closely monitored (results to be obtained from Moraine Environmental, Inc.'s semiannual groundwater monitoring of the site) to ensure that vinyl chloride does not migrate from the site.

RMT recommends that the lactate injections continue at Tecumseh; however, RMT recommends that the modifications described above be made to the lactate solutions in the Recycling and West Dock Area. The number and frequency of the injections, and the total amount of lactate injected should be similar to the number, frequency, and quantity used in 2003. RMT recommends that two rounds of

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RMT recommends that the lactate injections continue at Tecumseh; however, RMT recommends that the modifications described above be made to the lactate solutions in the Recycling and West Dock Area. The number and frequency of the injections, and the total amount of lactate injected should be similar to the number, frequency, and quantity used in 2003. RMT recommends that two rounds of injections be performed in 2004. The first injection should be initiated by January 2004, and the second injection should be initiated by April 2004. This injection schedule will allow future injections to occur in October and April, such that the spacing between injections is relatively even, and the injections can be conducted in warm weather conditions. For the upcoming sequence of injections, RMT will collect groundwater samples from the Recycling Dock and the West Dock Areas, and two soil samples with a Geoprobe® from the West Dock Area following completion of each injection. A letter report documenting the site activities and the results of the groundwater and soil monitoring will be submitted to the WDNR in the fall of 2004.

Please feel free to contact Bernd Rehm (Project Manager), at 608-662-5108; Alyssa Sellwood, at 608-662-5480; or Stacey Koch, at 608-662-5405, if you have any questions.

Sincerely,

RMT, Inc.



Alyssa Sellwood
Staff Engineer



Bernd W. Rehm, P.G., C.P.G.
Senior Consultant

Attachments: Tables 1-3
 Figure 1-5
Attachment A Boring Log and Well Construction Diagram for MW-24R
Attachment B Groundwater Laboratory Reports
Attachment C Soil Laboratory Report

cc: Bharat Shah and Kerry DeKeyser, Tecumseh Products Company
 Henry Handzel, DeWitt, Ross, and Stevens
 Stacey Koch, RMT, Inc.

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- RMT, Inc. 1997. Subsurface investigation report. Prepared for Tecumseh Products Company, Grafton Operation. April 1997.
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- Wisconsin Department of Natural Resources (WDNR). 2002. Quick reference to natural degradation of chlorinated solvents. WDNR PUB-RR-5184. May 2002.
- Wisconsin Department of Natural Resources (WDNR). 2003. Understanding chlorinated hydrocarbon behavior in groundwater: investigation , assessment and limitations of monitored natural attenuation. WDNR RR-699. April 2003.

Table 1
2003 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
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
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
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
MW-3 ⁽²⁾	6/4/96		10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	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
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

Table 1 (Continued)
2003 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	11/22/02-2/17/03	260	110	2.2 Q	1.6 Q	24	< 1.6	< 2.2	< 2.1	32
	3/27/03		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
MW-26	11/21/02	11/22/02-2/17/03	950	2,400	31	< 14	290	21 Q	69	< 21	170
	3/27/03		130	8,800	120	55	1,600	160	830	< 11	402
	6/16/03	4/4/03-5/16/03	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

Notes:

Table only includes those CVOC's (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 = Preventative Action Limit

NS = Not Sampled

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

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.

Prepared By: AAS 12/5/03

Checked By: CTC 12/5/03

Table 2
2003 Summary of Groundwater Field and Degradation Evaluation Parameters
Tecumseh Products Company - Grafton, Wisconsin

Sample Location	Sample Date	Injection Date	Water Level	pH	Specific Conductivity	Temp.	ORP	Dissolved Oxygen	Volatile Fatty Acids				
									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					
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		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	4/9/03	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
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⁾		745.04	8.83	NA ⁽³⁾	12.6	-25	8 ⁽⁵⁾	65	1.5	< 25	3.9	< 10
	6/16/03	4/9/03	746.63	6.87	2,590	14.5	-94	0.4	90	4.4	< 25	710	< 10
	11/19/13		746	7.05	1,352	16.3	-138	2	56	< 1	< 25	35	< 10
MW-23	11/20/02	11/22/02	746.21	6.88	2,780	15.2	-38	0.11	NA	NA	NA	NA	NA
	3/27/03		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
MW-24	11/20/02	11/22/02	746.12	7.23	1,529	14.5	16	0.12	NA	NA	NA	NA	NA
	3/27/03		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⁾	
MW-24R	11/19/03		746.14	7.06	1,372	15.8	-99	1	1.2	< 1	< 25	< 1	< 10

Table 2 (Continued)
2003 Summary of Groundwater Field and Degradation Evaluation Parameters
Tecumseh Products Company - Grafton, Wisconsin

Sample Location	Sample Date	Injection Date	Water Level	pH	Specific Conductivity	Temp.	ORP	Dissolved Oxygen	Volatile Fatty Acids				
									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	11/22/02-2/17/03 4/4/03-5/16/03	751.93	7.19	1,010	14.4	190	0.04	NA	NA	NA	NA	NA
	3/27/03		750.69	8.02	NA ⁽³⁾	11.9	96	1	< 1.0	< 1.0	< 25	< 1.0	< 10
	6/16/03		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
MW-26	11/20/02	11/22/02-2/17/03 4/4/03-5/16/03	747.25	7.05	1,752	18.7	224	0.03	NA	NA	NA	NA	NA
	3/27/03		745.85	7.44	NA ⁽³⁾	17.6	-160	2	< 1.0	< 1.0	< 25	< 1.0	< 10
	6/16/03		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

Prepared By: AAS 12/5/03

Checked By: CTC 12/5/03

Notes:

NA = Not analyzed

NS = Not sampled.

Footnotes:

⁽¹⁾ Well MW-8D was not sampled on 11/20/03 because it could not be located.

⁽²⁾ Well MW -8 was not sampled on 3/27/03 because it was dry.

⁽³⁾ Conductivity probe was not working on 3/27/03.

⁽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 6/16/03 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 Degredation of Chlorinated Solvents".

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

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

Table 3
2003 Summary of Soil Analytical Results Summary 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	Chloroethane
Units		feet bgs	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
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
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

Notes:

Table only includes those CVOC's 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

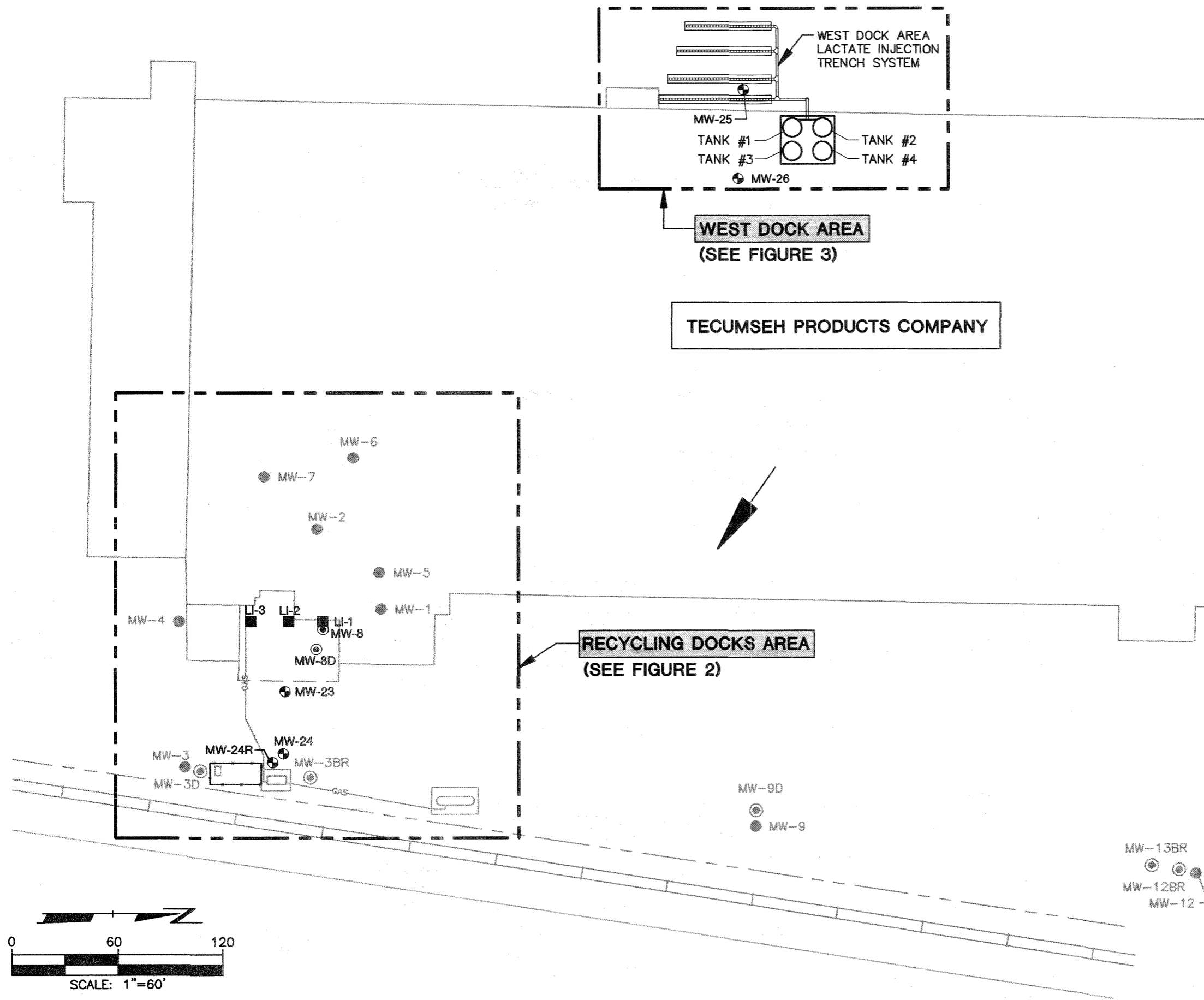
TCE = Trichloroethene

Prepared By: AAS 8/6/03

Checked By: MNG 8/13/03

Plot Date: Monday, January 19, 2004
 Plot Time: 1:16:42 PM
 Attached Xrefs: No xrefs attached.
 Attached Images: No images attached.

PLOT DATA
 Drawing Name: J:\03084\27\30842713.dwg
 Operator Name: hoklab
 Scale: 1"=60'
 Dwg Size: 92204 Bytes



● MW-16

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

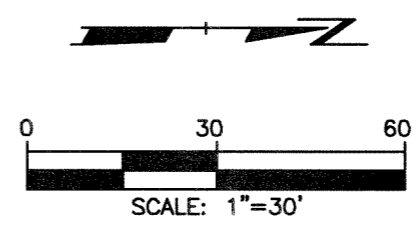
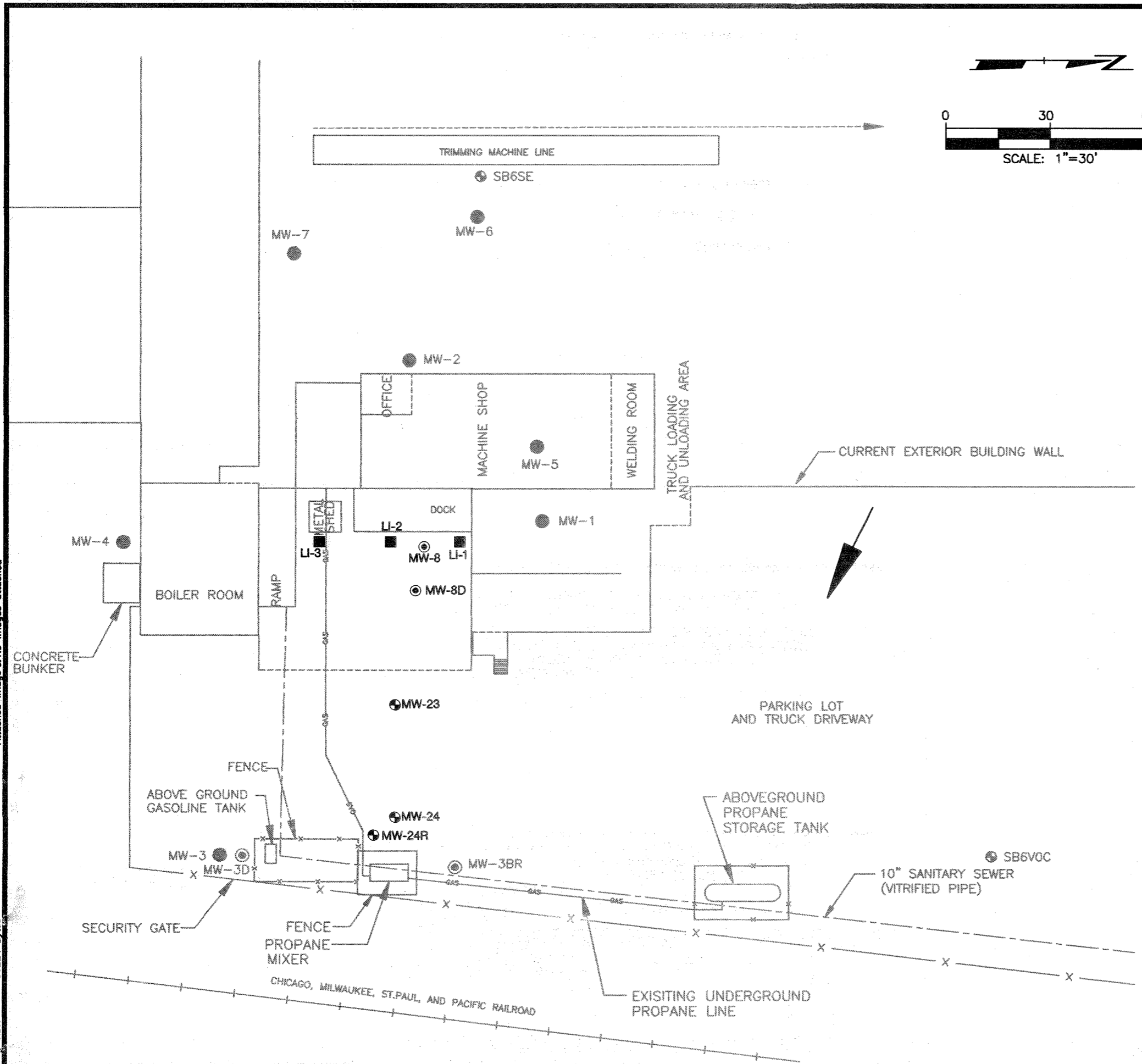
1. FACILITY LAYOUT ADAPTED FROM DRAWINGS PROVIDED BY TECUMSEH PRODUCTS COMPANY.
2. MONITORING WELLS MW-23, MW-24, MW-24R, MW-25, MW-26, AND PIEZOMETERS MW-8, AND MW-8D MONITOR TO EVALUATE THE LACTATE INJECTION SYSTEM.
3. MW-24 WAS PAVED OVER DURING REPAVING OF THE PARKING LOT. MW-24R WAS CONSTRUCTED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

PROJECT: TECUMSEH PRODUCTS COMPANY LACTATE INJECTION SYSTEMS GRAFTON, WISCONSIN		
SHEET TITLE: SITE PLAN		
DRAWN BY: HOOKSB	SCALE: 1"=60'	PROJ. NO. 03084.27
CHECKED BY: AAS		FILE NO. 30842713.DWG
APPROVED BY: BWR	DATE PRINTED: JAN 13 2004	FIGURE 1
DATE: JANUARY 2004		

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: Monday, January 19, 2004
 Plot Time: 1:15:52 PM
 Attached Xrefs: No xrefs attached.
 Attached Images: No images attached.

PLOT DATA
 Drawing Name: J:\03084\27\30842715.dwg
 Operator Name: hooxsb
 Scale: 1"=30'
 Dwg. Size: 85224 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 PRODUCTS COMPANY LACTATE INJECTION SYSTEMS GRAFTON, WISCONSIN		
SHEET TITLE: RECYCLING DOCKS AREA		
DRAWN BY: HOOKSB	SCALE: 1"=30'	PROJ. NO. 03084.27
CHECKED BY: AAS		FILE NO. 30842715.DWG
APPROVED BY: BWR	DATE PRINTED: JAN 13 2004	FIGURE 2
DATE: JANUARY 2004		
744 Heartland Trail Madison, WI 53717-1934 P.O. Box 8923 53708-8923 Phone: 608-831-4444 Fax: 608-831-3334		

D
WEST

WEST DOCK AREA

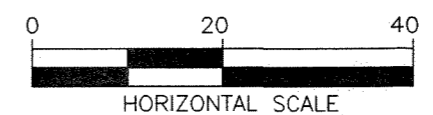
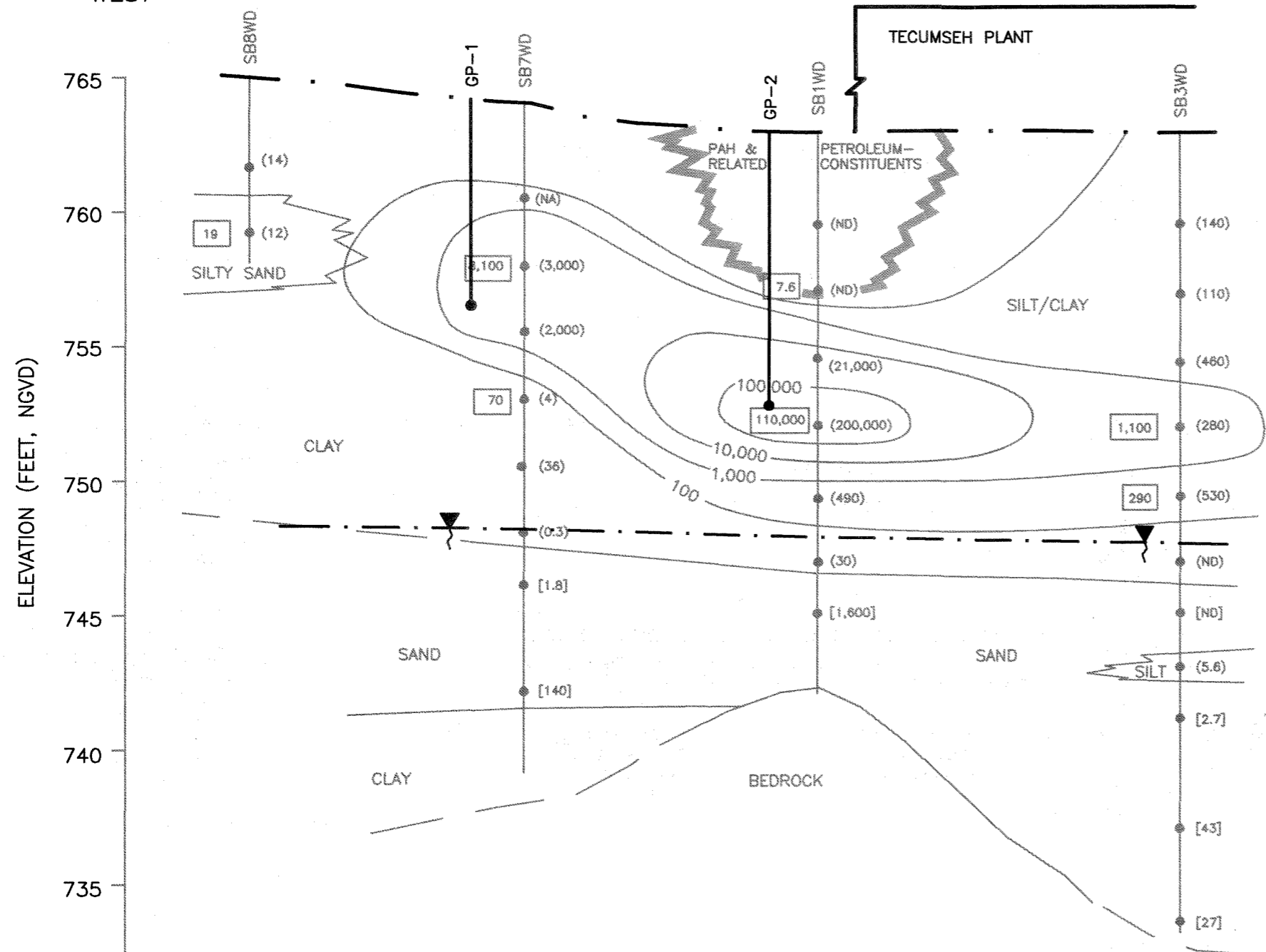
D'
EAST

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.



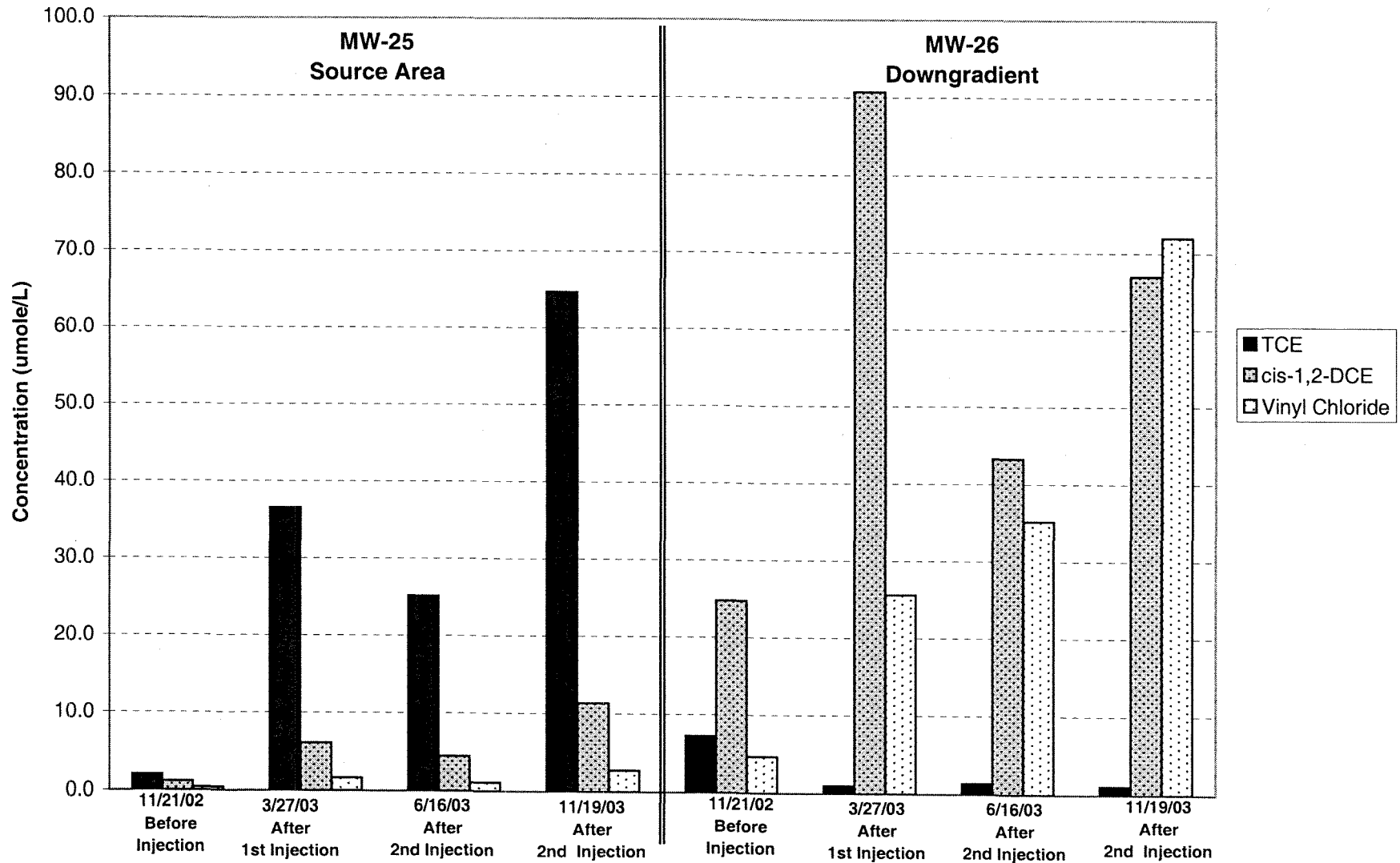
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 DRAWING NAME: hooksb
 OPERATOR NAME: 1=20
 SCALE: 130230 Bytes

PROJECT: TECUMSEH PRODUCTS COMPANY LACTATE INJECTION SYSTEMS GRAFTON, WISCONSIN		
SHEET TITLE: CROSS SECTION D-D' WITH TCE CONCENTRATIONS		
DRAWN BY: HOOKSB	SCALE: AS SHOWN	PROJ. NO. 03084.27
CHECKED BY: AAS		FILE NO. 30842714.DWG
APPROVED BY: BWR	DATE PRINTED: JAN 19 2004	FIGURE 4
DATE: JANUARY 2004		

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

Figure 5
Molar Concentration of TCE and Degradation Products
West Dock Area



(1) MW-25 is directly below the gravity infiltration trench (upgradient)
 (2) MW-26 is downgradient from MW-25

Attachment A


Boring Log and Well Construction Diagram for MW-24R

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Tecumseh Products		License/Permit/Monitoring Number		Boring Number MW-24R	
Boring Drilled By: Name of crew chief (first, last) and Firm Tony Kapugi Onsite Environmental		Date Drilling Started 11/11/2003		Date Drilling Completed 11/11/2003	
WI Unique Well No.		DNR Well ID No. MW-24R		Final Static Water Level Feet MSL	
				Surface Elevation 759.5 Feet MSL	
				Borehole Diameter 8.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____		1/4 of Section _____, T _____ N, R _____		Lat _____ ° _____ ' _____ " _____" Long _____ ° _____ ' _____ " _____"	
Facility ID 246009170		County Ozaukee		County Code 46	
				Civil Town/City/ or Village Grafton	

Number and Type	Length Att & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	Blind drilled to 20.5 feet. See log of MW-24 (installed 10/21/02) for soil description.										MW-24R is located ~7' ESE of former MW-24.
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm **RMT, Inc.**
744 Heartland Trail Madison, WI 53717
Tel: 608-831-4444 Fax: 608-831-3334

WDNR_SEB_98 03084W/GPJ WI_DNR98.GDT 12/2/03


This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

1/4

Boring Number **MW-24R**

Use only as an attachment to Form 4400-122.

Page **2** of **2**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			13 14 15 16 17 18 19 20											
				End of boring at 20.5 feet.										

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name Tecumseh Products		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name MW-24R	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. DNR Well Number	
Facility ID		St. Plane _____ ft. N, _____ ft. E. S / C / N		Date Well Installed 1/11/2003	
Type of Well Well Code 11/mw		Section Location of Waste/Source _____/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: (Person's Name and Firm) Tony Kapugi	
Distance from Waste/Source ft. _____		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number Onsite Environmental	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ 758.87 ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ 9.0 in. b. Length: _____ 1.5 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ 759.5 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ 758.0 ft. MSL or _____ 1.5 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	
17. Source of water (attach analysis, if required): _____	
E. Bentonite seal, top _____ 758.0 ft. MSL or _____ 1.5 ft.	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
F. Fine sand, top _____ 753.5 ft. MSL or _____ 6.0 ft.	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
G. Filter pack, top _____ 751.5 ft. MSL or _____ 8.0 ft.	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
H. Screen joint, top _____ 749.5 ft. MSL or _____ 10.0 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. _____ Badger Mining #7 b. Volume added _____ ft ³
I. Well bottom _____ 739.5 ft. MSL or _____ 20.0 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. _____ Badger Mining #30 b. Volume added _____ ft ³
J. Filter pack, bottom _____ 739.0 ft. MSL or _____ 20.5 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
K. Borehole, bottom _____ 739.0 ft. MSL or _____ 20.5 ft.	10. Screen material: _____ Schedule 40 PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole, diameter _____ 8.3 in.	b. Manufacturer _____ US Filter
M. O.D. well casing _____ 2.38 in.	c. Slot size: _____ 0.010 in.
N. I.D. well casing _____ 2.08 in.	d. Slotted length: _____ 10.0 ft.
	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm RMT, Inc. 744 Heartland Trail Madison, WI 53717 Tel: 608.831.4444 Fax: 608.831.3334

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Attachment B
Groundwater Laboratory Reports

November 21, 2002

- Analytical Report -

Project Name : TECUMSEH PRODUCTS
 Project Number : 3084.27
 Field ID : MW-8
 Lab Sample Number : 828913-001
 WI DNR LAB ID : 405132750
 Client : RMT - MADISON
 Report Date : 12/5/02
 Collection Date : 11/21/02
 Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Chloride	27	0.61	1.9		mg/L		12/03/02	EPA 300.0	EPA 300.0	JL

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B

Prep Date: 12/2/02

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.25	0.25	0.80		ug/L		12/02/02	SW846 8260B
n-Butylbenzene	1.5	0.65	2.1		ug/L	Q	12/02/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		12/02/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		12/02/02	SW846 8260B
s-Butylbenzene	0.95	0.62	2.0		ug/L	Q	12/02/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		12/02/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		12/02/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		12/02/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		12/02/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		12/02/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		12/02/02	SW846 8260B
Chloroethane	2.3	0.84	2.7		ug/L	Q	12/02/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		12/02/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		12/02/02	SW846 8260B
1,1-Dichloroethane	160	0.87	2.8		ug/L		12/02/02	SW846 8260B
1,2-Dichloroethane	< 0.55	0.55	1.8		ug/L		12/02/02	SW846 8260B
1,1-Dichloroethene	1.9	0.56	1.8		ug/L		12/02/02	SW846 8260B
cis-1,2-Dichloroethene	3.0	0.81	2.6		ug/L		12/02/02	SW846 8260B
trans-1,2-Dichloroethene	2.1	0.80	2.5		ug/L	Q	12/02/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		12/02/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		12/02/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		12/02/02	SW846 8260B
1,2-Dichloropropane	1.2	0.39	1.2		ug/L		12/02/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		12/02/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		12/02/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		12/02/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		12/02/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		12/02/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9		ug/L		12/02/02	SW846 8260B
Ethylbenzene	17	0.53	1.7		ug/L		12/02/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0		ug/L		12/02/02	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH PRODUCTS
 Project Number : 3084.27
 Field ID : MW-8
 Lab Sample Number : 828913-001
 WI DNR LAB ID : 405132750
 Client : RMT - MADISON
 Report Date : 12/5/02
 Collection Date : 11/21/02
 Matrix Type : WATER

p-Isopropyltoluene	1.1	0.58	1.8	ug/L	Q	12/02/02	SW846 8260B
Isopropylbenzene	2.6	0.66	2.1	ug/L		12/02/02	SW846 8260B
Methylene chloride	0.54	0.47	1.5	ug/L	Q	12/02/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L		12/02/02	SW846 8260B
Naphthalene	48	0.63	2.0	ug/L		12/02/02	SW846 8260B
n-Propylbenzene	3.5	0.95	3.0	ug/L		12/02/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L		12/02/02	SW846 8260B
Tetrachloroethene	0.66	0.63	2.0	ug/L	Q	12/02/02	SW846 8260B
Toluene	49	0.84	2.7	ug/L		12/02/02	SW846 8260B
1,1,1-Trichloroethane	110	0.65	2.1	ug/L		12/02/02	SW846 8260B
1,1,2-Trichloroethane	0.64	0.50	1.6	ug/L	Q	12/02/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L		12/02/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L		12/02/02	SW846 8260B
Fluorotrichloromethane	1.0	0.85	2.7	ug/L	Q	12/02/02	SW846 8260B
1,2,4-Trimethylbenzene	42	0.69	2.2	ug/L		12/02/02	SW846 8260B
1,3,5-Trimethylbenzene	11	0.64	2.0	ug/L		12/02/02	SW846 8260B
Trichloroethene	0.56	0.39	1.2	ug/L	Q	12/02/02	SW846 8260B
Vinyl chloride	1.5	0.11	0.35	ug/L		12/02/02	SW846 8260B
Xylenes, -m, -p	55	1.1	3.5	ug/L		12/02/02	SW846 8260B
Xylene, -o	38	0.73	2.3	ug/L		12/02/02	SW846 8260B
4-Bromofluorobenzene	104			%Recov		12/02/02	SW846 8260B
Dibromofluoromethane	126			%Recov		12/02/02	SW846 8260B
Toluene-d8	126			%Recov		12/02/02	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH PRODUCTS
 Project Number : 3084.27
 Field ID : MW-23
 Lab Sample Number : 828913-002
 WI DNR LAB ID : 405132750
 Client : RMT - MADISON
 Report Date : 12/5/02
 Collection Date : 11/20/02
 Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Chloride	220	0.61	1.9		mg/L		12/03/02	EPA 300.0	EPA 300.0	JI

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B

Prep Date: 12/2/02

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 130	130	410		ug/L		12/04/02	SW846 8260B
n-Butylbenzene	< 330	330	1100		ug/L		12/04/02	SW846 8260B
Bromodichloromethane	< 120	120	380		ug/L		12/04/02	SW846 8260B
Bromobenzene	< 370	370	1200		ug/L		12/04/02	SW846 8260B
s-Butylbenzene	< 310	310	990		ug/L		12/04/02	SW846 8260B
t-Butylbenzene	< 480	480	1500		ug/L		12/04/02	SW846 8260B
2-Chlorotoluene	< 330	330	1100		ug/L		12/04/02	SW846 8260B
4-Chlorotoluene	< 450	450	1400		ug/L		12/04/02	SW846 8260B
Carbon tetrachloride	< 230	230	730		ug/L		12/04/02	SW846 8260B
Chlorobenzene	< 290	290	920		ug/L		12/04/02	SW846 8260B
Chlorodibromomethane	< 420	420	1300		ug/L		12/04/02	SW846 8260B
Chloroethane	< 420	420	1300		ug/L		12/04/02	SW846 8260B
Chloroform	< 230	230	730		ug/L		12/04/02	SW846 8260B
Chloromethane	< 140	140	450		ug/L		12/04/02	SW846 8260B
1,1-Dichloroethane	47000	440	1400		ug/L		12/04/02	SW846 8260B
1,2-Dichloroethane	< 280	280	890		ug/L		12/04/02	SW846 8260B
1,1-Dichloroethene	< 280	280	890		ug/L		12/04/02	SW846 8260B
cis-1,2-Dichloroethene	< 410	410	1300		ug/L		12/04/02	SW846 8260B
trans-1,2-Dichloroethene	< 400	400	1300		ug/L		12/04/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 440	440	1400		ug/L		12/04/02	SW846 8260B
1,2-Dibromoethane	< 330	330	1100		ug/L		12/04/02	SW846 8260B
1,2-Dichlorobenzene	< 360	360	1100		ug/L		12/04/02	SW846 8260B
1,2-Dichloropropane	< 200	200	640		ug/L		12/04/02	SW846 8260B
1,3-Dichlorobenzene	< 290	290	920		ug/L		12/04/02	SW846 8260B
1,3-Dichloropropane	< 310	310	990		ug/L		12/04/02	SW846 8260B
1,4-Dichlorobenzene	< 320	320	1000		ug/L		12/04/02	SW846 8260B
2,2-Dichloropropane	< 500	500	1600		ug/L		12/04/02	SW846 8260B
Dichlorodifluoromethane	< 280	280	890		ug/L		12/04/02	SW846 8260B
Diisopropyl ether	< 300	300	960		ug/L		12/04/02	SW846 8260B
Ethylbenzene	< 270	270	860		ug/L		12/04/02	SW846 8260B
Hexachlorobutadiene	< 470	470	1500		ug/L		12/04/02	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH PRODUCTS	Client : RMT - MADISON
Project Number : 3084.27	Report Date : 12/5/02
Field ID : MW-23	Collection Date : 11/20/02
Lab Sample Number : 828913-002	Matrix Type : WATER
WI DNR LAB ID : 405132750	

p-Isopropyltoluene	< 290	290	920	ug/L		12/04/02	SW846 8260B
Isopropylbenzene	< 330	330	1100	ug/L		12/04/02	SW846 8260B
Methylene chloride	< 230	230	730	ug/L		12/04/02	SW846 8260B
Methyl-tert-butyl-ether	< 440	440	1400	ug/L		12/04/02	SW846 8260B
Naphthalene	< 320	320	1000	ug/L		12/04/02	SW846 8260B
n-Propylbenzene	< 470	470	1500	ug/L		12/04/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 390	390	1200	ug/L		12/04/02	SW846 8260B
Tetrachloroethene	< 320	320	1000	ug/L		12/04/02	SW846 8260B
Toluene	760	420	1300	ug/L	Q	12/04/02	SW846 8260B
1,1,1-Trichloroethane	< 330	330	1100	ug/L		12/04/02	SW846 8260B
1,1,2-Trichloroethane	< 250	250	800	ug/L		12/04/02	SW846 8260B
1,2,3-Trichlorobenzene	< 390	390	1200	ug/L		12/04/02	SW846 8260B
1,2,4-Trichlorobenzene	< 280	280	890	ug/L		12/04/02	SW846 8260B
Fluorotrichloromethane	< 430	430	1400	ug/L		12/04/02	SW846 8260B
1,2,4-Trimethylbenzene	< 340	340	1100	ug/L		12/04/02	SW846 8260B
1,3,5-Trimethylbenzene	< 320	320	1000	ug/L		12/04/02	SW846 8260B
Trichloroethene	< 200	200	640	ug/L		12/04/02	SW846 8260B
Vinyl chloride	530	55	180	ug/L		12/04/02	SW846 8260B
Xylenes, -m, -p	< 550	550	1800	ug/L		12/04/02	SW846 8260B
Xylene, -o	< 370	370	1200	ug/L		12/04/02	SW846 8260B
4-Bromofluorobenzene	102			%Recov		12/04/02	SW846 8260B
Dibromofluoromethane	123			%Recov		12/04/02	SW846 8260B
Toluene-d8	129			%Recov		12/04/02	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH PRODUCTS
Project Number : 3084.27
Field ID : MW-24
Lab Sample Number : 828913-003
WI DNR LAB ID : 405132750

Client : RMT - MADISON
Report Date : 12/5/02
Collection Date : 11/20/02
Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Chloride	110	0.61	1.9		mg/L		12/03/02	EPA 300.0	EPA 300.0	JL

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B

Prep Date: 12/2/02

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	0.64	0.25	0.80		ug/L	Q	12/02/02	SW846 8260B
n-Butylbenzene	< 0.65	0.65	2.1		ug/L		12/02/02	SW846 8260B
Bromodichloromethane	< 0.23	0.23	0.73		ug/L		12/02/02	SW846 8260B
Bromobenzene	< 0.74	0.74	2.4		ug/L		12/02/02	SW846 8260B
s-Butylbenzene	< 0.62	0.62	2.0		ug/L		12/02/02	SW846 8260B
t-Butylbenzene	< 0.96	0.96	3.1		ug/L		12/02/02	SW846 8260B
2-Chlorotoluene	< 0.66	0.66	2.1		ug/L		12/02/02	SW846 8260B
4-Chlorotoluene	< 0.89	0.89	2.8		ug/L		12/02/02	SW846 8260B
Carbon tetrachloride	< 0.47	0.47	1.5		ug/L		12/02/02	SW846 8260B
Chlorobenzene	< 0.58	0.58	1.8		ug/L		12/02/02	SW846 8260B
Chlorodibromomethane	< 0.84	0.84	2.7		ug/L		12/02/02	SW846 8260B
Chloroethane	31	0.84	2.7		ug/L		12/02/02	SW846 8260B
Chloroform	< 0.45	0.45	1.4		ug/L		12/02/02	SW846 8260B
Chloromethane	< 0.27	0.27	0.86		ug/L		12/02/02	SW846 8260B
1,1-Dichloroethane	140	0.87	2.8		ug/L		12/02/02	SW846 8260B
1,2-Dichloroethane	2.1	0.55	1.8		ug/L		12/02/02	SW846 8260B
1,1-Dichloroethene	< 0.56	0.56	1.8		ug/L		12/02/02	SW846 8260B
cis-1,2-Dichloroethene	14	0.81	2.6		ug/L		12/02/02	SW846 8260B
trans-1,2-Dichloroethene	2.9	0.80	2.5		ug/L		12/02/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.88	0.88	2.8		ug/L		12/02/02	SW846 8260B
1,2-Dibromoethane	< 0.66	0.66	2.1		ug/L		12/02/02	SW846 8260B
1,2-Dichlorobenzene	< 0.71	0.71	2.3		ug/L		12/02/02	SW846 8260B
1,2-Dichloropropane	2.4	0.39	1.2		ug/L		12/02/02	SW846 8260B
1,3-Dichlorobenzene	< 0.58	0.58	1.8		ug/L		12/02/02	SW846 8260B
1,3-Dichloropropane	< 0.62	0.62	2.0		ug/L		12/02/02	SW846 8260B
1,4-Dichlorobenzene	< 0.63	0.63	2.0		ug/L		12/02/02	SW846 8260B
2,2-Dichloropropane	< 0.99	0.99	3.2		ug/L		12/02/02	SW846 8260B
Dichlorodifluoromethane	< 0.57	0.57	1.8		ug/L		12/02/02	SW846 8260B
Diisopropyl ether	< 0.60	0.60	1.9		ug/L		12/02/02	SW846 8260B
Ethylbenzene	4.1	0.53	1.7		ug/L		12/02/02	SW846 8260B
Hexachlorobutadiene	< 0.95	0.95	3.0		ug/L		12/02/02	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH PRODUCTS
 Project Number : 3084.27
 Field ID : MW-24
 Lab Sample Number : 828913-003
 WI DNR LAB ID : 405132750

Client : RMT - MADISON
 Report Date : 12/5/02
 Collection Date : 11/20/02
 Matrix Type : WATER

p-Isopropyltoluene	< 0.58	0.58	1.8	ug/L	12/02/02	SW846 8260B
Isopropylbenzene	< 0.66	0.66	2.1	ug/L	12/02/02	SW846 8260B
Methylene chloride	1.5	0.47	1.5	ug/L	12/02/02	SW846 8260B
Methyl-tert-butyl-ether	< 0.87	0.87	2.8	ug/L	12/02/02	SW846 8260B
Naphthalene	4.7	0.63	2.0	ug/L	12/02/02	SW846 8260B
n-Propylbenzene	< 0.95	0.95	3.0	ug/L	12/02/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.77	0.77	2.5	ug/L	12/02/02	SW846 8260B
Tetrachloroethene	< 0.63	0.63	2.0	ug/L	12/02/02	SW846 8260B
Toluene	< 0.84	0.84	2.7	ug/L	12/02/02	SW846 8260B
1,1,1-Trichloroethane	< 0.65	0.65	2.1	ug/L	12/02/02	SW846 8260B
1,1,2-Trichloroethane	< 0.50	0.50	1.6	ug/L	12/02/02	SW846 8260B
1,2,3-Trichlorobenzene	< 0.77	0.77	2.5	ug/L	12/02/02	SW846 8260B
1,2,4-Trichlorobenzene	< 0.57	0.57	1.8	ug/L	12/02/02	SW846 8260B
Fluorotrichloromethane	< 0.85	0.85	2.7	ug/L	12/02/02	SW846 8260B
1,2,4-Trimethylbenzene	5.0	0.69	2.2	ug/L	12/02/02	SW846 8260B
1,3,5-Trimethylbenzene	< 0.64	0.64	2.0	ug/L	12/02/02	SW846 8260B
Trichloroethene	29	0.39	1.2	ug/L	12/02/02	SW846 8260B
Vinyl chloride	2.0	0.11	0.35	ug/L	12/02/02	SW846 8260B
Xylenes, -m, -p	5.7	1.1	3.5	ug/L	12/02/02	SW846 8260B
Xylene, -o	4.0	0.73	2.3	ug/L	12/02/02	SW846 8260B
4-Bromofluorobenzene	100			%Recov	12/02/02	SW846 8260B
Dibromofluoromethane	126			%Recov	12/02/02	SW846 8260B
Toluene-d8	129			%Recov	12/02/02	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH PRODUCTS
 Project Number : 3084.27
 Field ID : MW-25
 Lab Sample Number : 828913-004
 WI DNR LAB ID : 405132750
 Client : RMT - MADISON
 Report Date : 12/5/02
 Collection Date : 11/20/02
 Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Chloride	32	0.61	1.9		mg/L		12/03/02	EPA 300.0	EPA 300.0	JL

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B

Prep Date: 12/3/02

Analyst: HW

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	< 0.62	0.62	2.0		ug/L		12/03/02	SW846 8260B
n-Butylbenzene	< 1.6	1.6	5.1		ug/L		12/03/02	SW846 8260B
Bromodichloromethane	< 0.58	0.58	1.8		ug/L		12/03/02	SW846 8260B
Bromobenzene	< 1.8	1.8	5.7		ug/L		12/03/02	SW846 8260B
s-Butylbenzene	< 1.6	1.6	5.1		ug/L		12/03/02	SW846 8260B
t-Butylbenzene	< 2.4	2.4	7.6		ug/L		12/03/02	SW846 8260B
2-Chlorotoluene	< 1.7	1.7	5.4		ug/L		12/03/02	SW846 8260B
4-Chlorotoluene	< 2.2	2.2	7.0		ug/L		12/03/02	SW846 8260B
Carbon tetrachloride	< 1.2	1.2	3.8		ug/L		12/03/02	SW846 8260B
Chlorobenzene	< 1.4	1.4	4.5		ug/L		12/03/02	SW846 8260B
Chlorodibromomethane	< 2.1	2.1	6.7		ug/L		12/03/02	SW846 8260B
Chloroethane	< 2.1	2.1	6.7		ug/L		12/03/02	SW846 8260B
Chloroform	< 1.1	1.1	3.5		ug/L		12/03/02	SW846 8260B
Chloromethane	< 0.68	0.68	2.2		ug/L		12/03/02	SW846 8260B
1,1-Dichloroethane	< 2.2	2.2	7.0		ug/L		12/03/02	SW846 8260B
1,2-Dichloroethane	< 1.4	1.4	4.5		ug/L		12/03/02	SW846 8260B
1,1-Dichloroethene	1.6	1.4	4.5		ug/L	Q	12/03/02	SW846 8260B
cis-1,2-Dichloroethene	110	2.0	6.4		ug/L		12/03/02	SW846 8260B
trans-1,2-Dichloroethene	2.2	2.0	6.4		ug/L	Q	12/03/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 2.2	2.2	7.0		ug/L		12/03/02	SW846 8260B
1,2-Dibromoethane	< 1.7	1.7	5.4		ug/L		12/03/02	SW846 8260B
1,2-Dichlorobenzene	< 1.8	1.8	5.7		ug/L		12/03/02	SW846 8260B
1,2-Dichloropropane	< 0.97	0.97	3.1		ug/L		12/03/02	SW846 8260B
1,3-Dichlorobenzene	< 1.4	1.4	4.5		ug/L		12/03/02	SW846 8260B
1,3-Dichloropropane	< 1.6	1.6	5.1		ug/L		12/03/02	SW846 8260B
1,4-Dichlorobenzene	< 1.6	1.6	5.1		ug/L		12/03/02	SW846 8260B
2,2-Dichloropropane	< 2.5	2.5	8.0		ug/L		12/03/02	SW846 8260B
Dichlorodifluoromethane	< 1.4	1.4	4.5		ug/L		12/03/02	SW846 8260B
Diisopropyl ether	< 1.5	1.5	4.8		ug/L		12/03/02	SW846 8260B
Ethylbenzene	2.9	1.3	4.1		ug/L	Q	12/03/02	SW846 8260B
Hexachlorobutadiene	< 2.4	2.4	7.6		ug/L		12/03/02	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH PRODUCTS
 Project Number : 3084.27
 Field ID : MW-25
 Lab Sample Number : 828913-004
 WI DNR LAB ID : 405132750
 Client : RMT - MADISON
 Report Date : 12/5/02
 Collection Date : 11/20/02
 Matrix Type : WATER

p-Isopropyltoluene	< 1.4	1.4	4.5	ug/L		12/03/02	SW846 8260B
Isopropylbenzene	< 1.7	1.7	5.4	ug/L		12/03/02	SW846 8260B
Methylene chloride	< 1.2	1.2	3.8	ug/L		12/03/02	SW846 8260B
Methyl-tert-butyl-ether	< 2.2	2.2	7.0	ug/L		12/03/02	SW846 8260B
Naphthalene	< 1.6	1.6	5.1	ug/L		12/03/02	SW846 8260B
n-Propylbenzene	< 2.4	2.4	7.6	ug/L		12/03/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 1.9	1.9	6.1	ug/L		12/03/02	SW846 8260B
Tetrachloroethene	< 1.6	1.6	5.1	ug/L		12/03/02	SW846 8260B
Toluene	< 2.1	2.1	6.7	ug/L		12/03/02	SW846 8260B
1,1,1-Trichloroethane	< 1.6	1.6	5.1	ug/L		12/03/02	SW846 8260B
1,1,2-Trichloroethane	< 1.2	1.2	3.8	ug/L		12/03/02	SW846 8260B
1,2,3-Trichlorobenzene	< 1.9	1.9	6.1	ug/L		12/03/02	SW846 8260B
1,2,4-Trichlorobenzene	< 1.4	1.4	4.5	ug/L		12/03/02	SW846 8260B
Fluorotrichloromethane	< 2.1	2.1	6.7	ug/L		12/03/02	SW846 8260B
1,2,4-Trimethylbenzene	< 1.7	1.7	5.4	ug/L		12/03/02	SW846 8260B
1,3,5-Trimethylbenzene	< 1.6	1.6	5.1	ug/L		12/03/02	SW846 8260B
Trichloroethene	260	0.97	3.1	ug/L		12/03/02	SW846 8260B
Vinyl chloride	24	0.28	0.89	ug/L		12/03/02	SW846 8260B
Xylenes, -m, -p	6.8	2.8	8.9	ug/L	Q	12/03/02	SW846 8260B
Xylene, -o	3.4	1.8	5.7	ug/L	Q	12/03/02	SW846 8260B
4-Bromofluorobenzene	105			%Recov		12/03/02	SW846 8260B
Dibromofluoromethane	125			%Recov		12/03/02	SW846 8260B
Toluene-d8	129			%Recov		12/03/02	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH PRODUCTS
Project Number : 3084.27
Field ID : MW-26
Lab Sample Number : 828913-005
WI DNR LAB ID : 405132750
Client : RMT - MADISON
Report Date : 12/5/02
Collection Date : 11/21/02
Matrix Type : WATER

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Chloride	170	0.61	1.9		mg/L		12/03/02	EPA 300.0	EPA 300.0	JL

Organic Results

SPECIAL VOLATILE LIST - WATER

Prep Method: SW846 5030B

Prep Date: 12/4/02

Analyst: JJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Benzene	9.5	6.2	20		ug/L	Q	12/04/02	SW846 8260B
n-Butylbenzene	< 16	16	51		ug/L		12/04/02	SW846 8260B
Bromodichloromethane	< 5.8	5.8	18		ug/L		12/04/02	SW846 8260B
Bromobenzene	< 18	18	57		ug/L		12/04/02	SW846 8260B
s-Butylbenzene	< 16	16	51		ug/L		12/04/02	SW846 8260B
t-Butylbenzene	< 24	24	76		ug/L		12/04/02	SW846 8260B
2-Chlorotoluene	< 16	16	51		ug/L		12/04/02	SW846 8260B
4-Chlorotoluene	< 22	22	70		ug/L		12/04/02	SW846 8260B
Carbon tetrachloride	< 12	12	38		ug/L		12/04/02	SW846 8260B
Chlorobenzene	< 14	14	45		ug/L		12/04/02	SW846 8260B
Chlorodibromomethane	< 21	21	67		ug/L		12/04/02	SW846 8260B
Chloroethane	< 21	21	67		ug/L		12/04/02	SW846 8260B
Chloroform	< 11	11	35		ug/L		12/04/02	SW846 8260B
Chloromethane	< 6.8	6.8	22		ug/L		12/04/02	SW846 8260B
1,1-Dichloroethane	69	22	70		ug/L	Q	12/04/02	SW846 8260B
1,2-Dichloroethane	< 14	14	45		ug/L		12/04/02	SW846 8260B
1,1-Dichloroethene	< 14	14	45		ug/L		12/04/02	SW846 8260B
cis-1,2-Dichloroethene	2400	20	64		ug/L		12/04/02	SW846 8260B
trans-1,2-Dichloroethene	31	20	64		ug/L	Q	12/04/02	SW846 8260B
1,2-Dibromo-3-chloropropane	< 22	22	70		ug/L		12/04/02	SW846 8260B
1,2-Dibromoethane	< 16	16	51		ug/L		12/04/02	SW846 8260B
1,2-Dichlorobenzene	< 18	18	57		ug/L		12/04/02	SW846 8260B
1,2-Dichloropropane	< 9.8	9.8	31		ug/L		12/04/02	SW846 8260B
1,3-Dichlorobenzene	< 14	14	45		ug/L		12/04/02	SW846 8260B
1,3-Dichloropropane	< 16	16	51		ug/L		12/04/02	SW846 8260B
1,4-Dichlorobenzene	< 16	16	51		ug/L		12/04/02	SW846 8260B
2,2-Dichloropropane	< 25	25	80		ug/L		12/04/02	SW846 8260B
Dichlorodifluoromethane	< 14	14	45		ug/L		12/04/02	SW846 8260B
Diisopropyl ether	< 15	15	48		ug/L		12/04/02	SW846 8260B
Ethylbenzene	< 13	13	41		ug/L		12/04/02	SW846 8260B
Hexachlorobutadiene	< 24	24	76		ug/L		12/04/02	SW846 8260B

- Analytical Report -

Project Name : TECUMSEH PRODUCTS
 Project Number : 3084.27
 Field ID : MW-26
 Lab Sample Number : 828913-005
 WI DNR LAB ID : 405132750

Client : RMT - MADISON
 Report Date : 12/5/02
 Collection Date : 11/21/02
 Matrix Type : WATER

p-Isopropyltoluene	< 14	14	45	ug/L		12/04/02	SW846 8260B
Isopropylbenzene	< 16	16	51	ug/L		12/04/02	SW846 8260B
Methylene chloride	< 12	12	38	ug/L		12/04/02	SW846 8260B
Methyl-tert-butyl-ether	< 22	22	70	ug/L		12/04/02	SW846 8260B
Naphthalene	< 16	16	51	ug/L		12/04/02	SW846 8260B
n-Propylbenzene	< 24	24	76	ug/L		12/04/02	SW846 8260B
1,1,2,2-Tetrachloroethane	< 19	19	61	ug/L		12/04/02	SW846 8260B
Tetrachloroethene	< 16	16	51	ug/L		12/04/02	SW846 8260B
Toluene	< 21	21	67	ug/L		12/04/02	SW846 8260B
1,1,1-Trichloroethane	21	16	51	ug/L	Q	12/04/02	SW846 8260B
1,1,2-Trichloroethane	< 12	12	38	ug/L		12/04/02	SW846 8260B
1,2,3-Trichlorobenzene	< 19	19	61	ug/L		12/04/02	SW846 8260B
1,2,4-Trichlorobenzene	< 14	14	45	ug/L		12/04/02	SW846 8260B
Fluorotrichloromethane	< 21	21	67	ug/L		12/04/02	SW846 8260B
1,2,4-Trimethylbenzene	< 17	17	54	ug/L		12/04/02	SW846 8260B
1,3,5-Trimethylbenzene	< 16	16	51	ug/L		12/04/02	SW846 8260B
Trichloroethene	950	9.8	31	ug/L		12/04/02	SW846 8260B
Vinyl chloride	290	2.8	8.9	ug/L		12/04/02	SW846 8260B
Xylenes, -m, -p	< 28	28	89	ug/L		12/04/02	SW846 8260B
Xylene, -o	< 18	18	57	ug/L		12/04/02	SW846 8260B
4-Bromofluorobenzene	106			%Recov		12/04/02	SW846 8260B
Dibromofluoromethane	95			%Recov		12/04/02	SW846 8260B
Toluene-d8	117			%Recov		12/04/02	SW846 8260B

Organic Data Qualifiers

B	Analyte is present in the method blank. Method blank criteria are 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	Elevated detection limit (see Sample Narrative).
D	Analyte value from diluted analysis, or surrogate result not applicable due to sample dilution.
E	Analyte concentration exceeds calibration range (see Sample Narrative).
F	Surrogate results outside control criteria.
H(n)	Extraction or analysis performed "n" days past holding time.
J	Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
K	Detection limit may be elevated due to the presence of an unrequested analyte.
N	Spiked sample recovery not within control limits.
P	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	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	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	The analyte was not detected above the reporting limit.
W	Sample received with headspace.
X	See Sample Narrative.
&	Laboratory Control Spike recovery not within control limits.
*	Duplicate analyses not within control limits.
SUB1	Assay was subcontracted to an approved lab.
SUB2	Assay was subcontracted to En Chem Green Bay WI Cert. #405132750.

March 27, 2003

April 24, 2003

RMT, Inc. - Madison Office
Attn: Ms. Alyssa Sellwood
744 Heartland Trail
Madison, WI 53717

RE: Tecumseh Products
PO: 3084.27

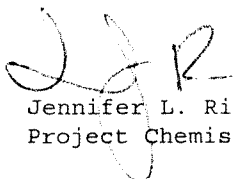
Dear Ms. Alyssa Sellwood:

Enclosed is a copy of your laboratory report and invoice for submittal **36274-1**. This submittal was completely received on March 28, 2003. All analyses have been validated and comply with our Quality Control program statistics unless otherwise noted.

Since TriMatrix does not perform the analysis for Volatile Fatty Acids, the samples were subcontracted to Microseeps. A copy of their report is included with this TriMatrix report.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,


Jennifer L. Rice
Project Chemist

Enclosure

STATEMENT OF DATA QUALIFICATIONS

Analysis: **1,1-Dichloroethane**
Volatiles Purge & Trap-GC/MS
WATER USEPA-8260B

Qualification:

The analytical result for this compound was quantitated using the average response factor of the calibration curve. The value reported must be considered estimated as it exceeded the linear range of the curve.

Sample(s) Qualified: 327325 MW-23
 327326 MW-24

Analysis: **Volatile Organics - 8260B**
Volatiles Purge & Trap-GC/MS
WATER USEPA-8260B

Qualification:

Analysis performed beyond established USEPA maximum allowable parameter hold time. All positive results must be considered estimated, and all non-detectable results must be considered approximate.

Explanation for Sample(s) listed below:

Analyses were originally performed at dilutions based on the foamy appearance of the sample. The reported results were from a straight run performed one day past holding times..

Sample(s) Qualified: 327324 MW-8D

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

**ANALYTICAL REPORT
USEPA CLP FORM 1**

RMT, Inc. - Madison Office
Proj: Tecumseh Products
Subm: March 27, 2003 Samples

Submittal Number: 36274- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.	MW-8D	LOD	LOQ	Units
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Lab Sample No:	327324
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16887-00-6 Chloride	238	1.43	4.77	mg/L
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Sampled by:	J.S.
Date Sampled:	03/27/03
Time Sampled:	11:25
Date Received:	03/28/03
Time Received:	09:00

**ANALYTICAL REPORT
USEPA CLP FORM 1**

RMT, Inc. - Madison Office
Proj: Tecumseh Products
Subm: March 27, 2003 Samples

Submittal Number: 36274- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.	MW-23	LOD	LOQ	Units
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Lab Sample No:	327325
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16887-00-6 Chloride	259	1.43	4.77	mg/L
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Sampled by:	J.S.
Date Sampled:	03/27/03
Time Sampled:	10:25
Date Received:	03/28/03
Time Received:	09:00

**ANALYTICAL REPORT
USEPA CLP FORM 1**

RMT, Inc. - Madison Office
Proj: Tecumseh Products
Subm: March 27, 2003 Samples

Submittal Number: 36274- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.	MW-24	LOD	LOQ	Units
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Lab Sample No:	327326
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16887-00-6 Chloride	104	0.14	0.48	mg/L
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Sampled by:	J.S.
Date Sampled:	03/27/03
Time Sampled:	09:35
Date Received:	03/28/03
Time Received:	09:00

**ANALYTICAL REPORT
USEPA CLP FORM 1**

RMT, Inc. - Madison Office
Proj: Tecumseh Products
Subm: March 27, 2003 Samples

Submittal Number: 36274- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No. MW-25 LOD LOQ Units

Lab Sample No: 327327

16887-00-6 Chloride 81 0.14 0.48 mg/L

Sampled by: J.S.
Date Sampled: 03/27/03
Time Sampled: 13:10
Date Received: 03/28/03
Time Received: 09:00

**ANALYTICAL REPORT
USEPA CLP FORM 1**

RMT, Inc. - Madison Office
Proj: Tecumseh Products
Subm: March 27, 2003 Samples

Submittal Number: 36274- 1
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.	MW-26	LOD	LOQ	Units
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Lab Sample No:	327328
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16887-00-6 Chloride	402	1.43	4.77	mg/L
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Sampled by:	J.S.
Date Sampled:	03/27/03
Time Sampled:	14:00
Date Received:	03/28/03
Time Received:	09:00

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

RMT, Inc. - Madison Office

Proj: Tecumseh Products

Subm: March 27, 2003 Samples

Sample: MW-8D

Submittal Number 36274- 1

Date Sampled: 03/27/03 Time: 11:25

Date Received: 03/28/03 Time: 09:00

Analysis Date: 04/11/03

Lab Sample No: 327324

Batch No: 199216

CAS No.	Compound	Result ug/L	Data Qualifiers	LOD	LOQ
74-87-3	Chloromethane	ND	U	0.25	0.83
74-83-9	Bromomethane	ND	U	0.30	1.0
75-01-4	Vinyl Chloride	1.1		0.29	0.97
75-00-3	Chloroethane	ND	U	0.22	0.73
75-09-2	Methylene Chloride	ND	U	0.14	0.47
67-64-1	Acetone	190		4.1	14
75-15-0	Carbon Disulfide	ND	U	0.15	0.50
75-35-4	1,1-Dichloroethylene	ND	U	0.28	0.93
75-34-3	1,1-Dichloroethane	42		0.13	0.43
156-59-2	cis-1,2-Dichloroethene	0.7		0.11	0.37
156-60-5	trans-1,2-Dichloroethene	ND	U	0.18	0.60
67-66-3	Chloroform	ND	U	0.24	0.80
107-06-2	1,2-Dichloroethane	ND	U	0.074	0.25
79-01-6	Trichloroethene	1.7		0.11	0.37
78-93-3	Methyl Ethyl Ketone	190		2.2	7.3
71-55-6	1,1,1-Trichloroethane	ND	U	0.18	0.60
56-23-5	Carbon Tetrachloride	ND	U	0.14	0.47
75-27-4	Dichlorobromomethane	ND	U	0.14	0.47
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	0.20	0.67
78-87-5	1,2-Dichloropropane	ND	U	0.21	0.70
10061-02-6	trans-1,3-Dichloropropene	ND	U	0.11	0.37
124-48-1	Chlorodibromomethane	ND	U	0.094	0.31
79-00-5	1,1,2-Trichloroethane	ND	U	0.22	0.73
71-43-2	Benzene	ND	U	0.12	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	U	0.11	0.37
75-25-2	Bromoform	ND	U	0.23	0.77
591-78-6	2-Hexanone	110		1.9	6.3
108-10-1	4-Methyl-2-Pentanone	48		0.46	1.5
127-18-4	Tetrachloroethene	ND	U	0.12	0.40
108-88-3	Toluene	1.9		0.10	0.33
108-90-7	Chlorobenzene	ND	U	0.12	0.40
100-41-4	Ethylbenzene	ND	U	0.11	0.37
100-42-5	Styrene	ND	U	0.20	0.67
1330-20-7	Xylene (Total)	0.9	J	0.41	1.4

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

RMT, Inc. - Madison Office	Submittal Number	36274-	1
Proj: Tecumseh Products	Date Sampled:	03/27/03	Time: 10:25
	Date Received:	03/28/03	Time: 09:00
Subm: March 27, 2003 Samples	Analysis Date:	04/10/03	
Sample: MW-23	Lab Sample No:	327325	
	Batch No:	199139	

CAS No.	Compound	Result ug/L	Data Qualifiers	LOD	LOQ
74-87-3	Chloromethane	ND	U	12	42
74-83-9	Bromomethane	ND	U	15	50
75-01-4	Vinyl Chloride	44	J	14	48
75-00-3	Chloroethane	4100		11	37
75-09-2	Methylene Chloride	59		7.0	23
67-64-1	Acetone	860		205	683
75-15-0	Carbon Disulfide	ND	U	7.5	25
75-35-4	1,1-Dichloroethylene	ND	U	14	47
75-34-3	1,1-Dichloroethane	* 22000	J	6.5	22
156-59-2	cis-1,2-Dichloroethene	ND	U	5.5	18
156-60-5	trans-1,2-Dichloroethene	41		9.0	30
67-66-3	Chloroform	ND	U	12	40
107-06-2	1,2-Dichloroethane	81		3.7	12
79-01-6	Trichloroethene	ND	U	5.5	18
78-93-3	Methyl Ethyl Ketone	ND	U	110	366
71-55-6	1,1,1-Trichloroethane	ND	U	9.0	30
56-23-5	Carbon Tetrachloride	ND	U	7.0	23
75-27-4	Dichlorobromomethane	ND	U	7.0	23
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	10	33
78-87-5	1,2-Dichloropropane	ND	U	10	33
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.5	18
124-48-1	Chlorodibromomethane	ND	U	4.7	16
79-00-5	1,1,2-Trichloroethane	ND	U	11	37
71-43-2	Benzene	ND	U	6.0	20
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.5	18
75-25-2	Bromoform	ND	U	12	38
591-78-6	2-Hexanone	ND	U	95	316
108-10-1	4-Methyl-2-Pentanone	300		23	77
127-18-4	Tetrachloroethene	ND	U	6.0	20
108-88-3	Toluene	170		5.0	17
108-90-7	Chlorobenzene	ND	U	6.0	20
100-41-4	Ethylbenzene	11	J	5.5	18
100-42-5	Styrene	ND	U	10	33
1330-20-7	Xylene (Total)	62	J	21	68

* See attached Statement of Data Qualifications.

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

RMT, Inc. - Madison Office

Proj: Tecumseh Products

Subm: March 27, 2003 Samples

Sample: MW-24

Submittal Number 36274- 1

Date Sampled: 03/27/03 Time: 09:35

Date Received: 03/28/03 Time: 09:00

Analysis Date: 04/03/03

Lab Sample No: 327326

Batch No: 198951

CAS No.	Compound	Result ug/L	Data Qualifiers	LOD	LOQ
74-87-3	Chloromethane	ND	U	0.25	0.83
74-83-9	Bromomethane	ND	U	0.30	1.0
75-01-4	Vinyl Chloride	0.4	J	0.29	0.97
75-00-3	Chloroethane	36		0.22	0.73
75-09-2	Methylene Chloride	1.6		0.14	0.47
67-64-1	Acetone	16		4.1	14
75-15-0	Carbon Disulfide	ND	U	0.15	0.50
75-35-4	1,1-Dichloroethylene	ND	U	0.28	0.93
75-34-3	1,1-Dichloroethane	* 280	J	0.13	0.43
156-59-2	cis-1,2-Dichloroethene	ND	U	0.11	0.37
156-60-5	trans-1,2-Dichloroethene	3.7		0.18	0.60
67-66-3	Chloroform	ND	U	0.24	0.80
107-06-2	1,2-Dichloroethane	3.0		0.074	0.25
79-01-6	Trichloroethene	3.0		0.11	0.37
78-93-3	Methyl Ethyl Ketone	ND	U	2.2	7.3
71-55-6	1,1,1-Trichloroethane	ND	U	0.18	0.60
56-23-5	Carbon Tetrachloride	ND	U	0.14	0.47
75-27-4	Dichlorobromomethane	ND	U	0.14	0.47
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	0.20	0.67
78-87-5	1,2-Dichloropropane	3.2		0.21	0.70
10061-02-6	trans-1,3-Dichloropropene	ND	U	0.11	0.37
124-48-1	Chlorodibromomethane	ND	U	0.094	0.31
79-00-5	1,1,2-Trichloroethane	ND	U	0.22	0.73
71-43-2	Benzene	0.8		0.12	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	U	0.11	0.37
75-25-2	Bromoform	ND	U	0.23	0.77
591-78-6	2-Hexanone	ND	U	1.9	6.3
108-10-1	4-Methyl-2-Pentanone	8.8		0.46	1.5
127-18-4	Tetrachloroethene	ND	U	0.12	0.40
108-88-3	Toluene	20		0.10	0.33
108-90-7	Chlorobenzene	ND	U	0.12	0.40
100-41-4	Ethylbenzene	11		0.11	0.37
100-42-5	Styrene	ND	U	0.20	0.67
1330-20-7	Xylene (Total)	36		0.41	1.4

* See attached Statement of Data Qualifications.

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

RMT, Inc. - Madison Office
 Proj: Tecumseh Products

Submittal Number 36274- 1
 Date Sampled: 03/27/03 Time: 13:10
 Date Received: 03/28/03 Time: 09:00
 Analysis Date: 04/09/03
 Lab Sample No: 327327
 Batch No: 199137

Subm: March 27, 2003 Samples
 Sample: MW-25

CAS No.	Compound	Result ug/L	Data Qualifiers	LOD	LOQ
74-87-3	Chloromethane	ND	U	6.3	21
74-83-9	Bromomethane	ND	U	7.5	25
75-01-4	Vinyl Chloride	100		7.3	24
75-00-3	Chloroethane	ND	U	5.5	18
75-09-2	Methylene Chloride	ND	U	3.5	12
67-64-1	Acetone	ND	U	103	341
75-15-0	Carbon Disulfide	ND	U	3.8	13
75-35-4	1,1-Dichloroethylene	ND	U	7.0	23
75-34-3	1,1-Dichloroethane	19		3.3	11
156-59-2	cis-1,2-Dichloroethene	590		2.8	9.2
156-60-5	trans-1,2-Dichloroethene	ND	U	4.5	15
67-66-3	Chloroform	ND	U	6.0	20
107-06-2	1,2-Dichloroethane	ND	U	1.9	6.2
79-01-6	Trichloroethene	4800		2.8	9.2
78-93-3	Methyl Ethyl Ketone	ND	U	55	183
71-55-6	1,1,1-Trichloroethane	ND	U	4.5	15
56-23-5	Carbon Tetrachloride	ND	U	3.5	12
75-27-4	Dichlorobromomethane	ND	U	3.5	12
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	17
78-87-5	1,2-Dichloropropane	ND	U	5.3	18
10061-02-6	trans-1,3-Dichloropropene	ND	U	2.8	9.2
124-48-1	Chlorodibromomethane	ND	U	2.4	7.8
79-00-5	1,1,2-Trichloroethane	ND	U	5.5	18
71-43-2	Benzene	ND	U	3.0	10
10061-01-5	cis-1,3-Dichloropropene	ND	U	2.8	9.2
75-25-2	Bromoform	ND	U	5.8	19
591-78-6	2-Hexanone	ND	U	48	158
108-10-1	4-Methyl-2-Pentanone	ND	U	12	38
127-18-4	Tetrachloroethene	ND	U	3.0	10
108-88-3	Toluene	ND	U	2.5	8.3
108-90-7	Chlorobenzene	ND	U	3.0	10
100-41-4	Ethylbenzene	ND	U	2.8	9.2
100-42-5	Styrene	ND	U	5.0	17
1330-20-7	Xylene (Total)	ND	U	10	34

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

RMT, Inc. - Madison Office

Proj: Tecumseh Products

Subm: March 27, 2003 Samples

Sample: MW-26

Submittal Number 36274- 1

Date Sampled: 03/27/03 Time: 14:00

Date Received: 03/28/03 Time: 09:00

Analysis Date: 04/09/03

Lab Sample No: 327328

Batch No: 199137

CAS No.	Compound	Result ug/L	Data Qualifiers	LOD	LOQ
74-87-3	Chloromethane	ND	U	12	42
74-83-9	Bromomethane	ND	U	15	50
75-01-4	Vinyl Chloride	1600		14	48
75-00-3	Chloroethane	ND	U	11	37
75-09-2	Methylene Chloride	ND	U	7.0	23
67-64-1	Acetone	ND	U	205	683
75-15-0	Carbon Disulfide	ND	U	7.5	25
75-35-4	1,1-Dichloroethylene	55		14	47
75-34-3	1,1-Dichloroethane	830		6.5	22
156-59-2	cis-1,2-Dichloroethene	8800		5.5	18
156-60-5	trans-1,2-Dichloroethene	120		9.0	30
67-66-3	Chloroform	ND	U	12	40
107-06-2	1,2-Dichloroethane	ND	U	3.7	12
79-01-6	Trichloroethene	130		5.5	18
78-93-3	Methyl Ethyl Ketone	ND	U	110	366
71-55-6	1,1,1-Trichloroethane	160		9.0	30
56-23-5	Carbon Tetrachloride	ND	U	7.0	23
75-27-4	Dichlorobromomethane	ND	U	7.0	23
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	10	33
78-87-5	1,2-Dichloropropane	ND	U	10	33
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.5	18
124-48-1	Chlorodibromomethane	ND	U	4.7	16
79-00-5	1,1,2-Trichloroethane	ND	U	11	37
71-43-2	Benzene	23		6.0	20
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.5	18
75-25-2	Bromoform	ND	U	12	38
591-78-6	2-Hexanone	ND	U	95	316
108-10-1	4-Methyl-2-Pentanone	ND	U	23	77
127-18-4	Tetrachloroethene	ND	U	6.0	20
108-88-3	Toluene	16	J	5.0	17
108-90-7	Chlorobenzene	ND	U	6.0	20
100-41-4	Ethylbenzene	15	J	5.5	18
100-42-5	Styrene	ND	U	10	33
1330-20-7	Xylene (Total)	ND	U	21	68

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

RMT, Inc. - Madison Office
 Proj: Tecumseh Products

Submittal Number 36274- 1
 Date Sampled: 03/27/03 Time: 00:00
 Date Received: 03/28/03 Time: 09:00
 Analysis Date: 04/09/03
 Lab Sample No: 327329
 Batch No: 199137

Subm: March 27, 2003 Samples
 Sample: Trip
 Blank

CAS No.	Compound	Result ug/L	Data Qualifiers	LOD	LOQ
74-87-3	Chloromethane	ND	U	0.25	0.83
74-83-9	Bromomethane	ND	U	0.30	1.0
75-01-4	Vinyl Chloride	ND	U	0.29	0.97
75-00-3	Chloroethane	ND	U	0.22	0.73
75-09-2	Methylene Chloride	ND	U	0.14	0.47
67-64-1	Acetone	ND	U	4.1	14
75-15-0	Carbon Disulfide	ND	U	0.15	0.50
75-35-4	1,1-Dichloroethylene	ND	U	0.28	0.93
75-34-3	1,1-Dichloroethane	ND	U	0.13	0.43
156-59-2	cis-1,2-Dichloroethene	ND	U	0.11	0.37
156-60-5	trans-1,2-Dichloroethene	ND	U	0.18	0.60
67-66-3	Chloroform	ND	U	0.24	0.80
107-06-2	1,2-Dichloroethane	ND	U	0.074	0.25
79-01-6	Trichloroethene	ND	U	0.11	0.37
78-93-3	Methyl Ethyl Ketone	ND	U	2.2	7.3
71-55-6	1,1,1-Trichloroethane	ND	U	0.18	0.60
56-23-5	Carbon Tetrachloride	ND	U	0.14	0.47
75-27-4	Dichlorobromomethane	ND	U	0.14	0.47
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	0.20	0.67
78-87-5	1,2-Dichloropropane	ND	U	0.21	0.70
10061-02-6	trans-1,3-Dichloropropene	ND	U	0.11	0.37
124-48-1	Chlorodibromomethane	ND	U	0.094	0.31
79-00-5	1,1,2-Trichloroethane	ND	U	0.22	0.73
71-43-2	Benzene	ND	U	0.12	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	U	0.11	0.37
75-25-2	Bromoform	ND	U	0.23	0.77
591-78-6	2-Hexanone	ND	U	1.9	6.3
108-10-1	4-Methyl-2-Pentanone	ND	U	0.46	1.5
127-18-4	Tetrachloroethene	ND	U	0.12	0.40
108-88-3	Toluene	0.2	J	0.10	0.33
108-90-7	Chlorobenzene	ND	U	0.12	0.40
100-41-4	Ethylbenzene	ND	U	0.11	0.37
100-42-5	Styrene	ND	U	0.20	0.67
1330-20-7	Xylene (Total)	ND	U	0.41	1.4

QUALITY CONTROL REPORT
INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV-CCV)
USEPA CLP FORM 2A

SDG No.	36274 -1	Parameter	Chloride
Batch No.	198645	Ref. Cit.	325.2/4500-CL E
Instrument ID	189	Matrix	WATER
		Units	mg/L

Verification QC Type	True Value	Amount Found	% Recovery	Acceptance Window-%	Date	Analyst
ICV 1	100	102	102	85 - 115	03/31/03	SAJ
CCV 1	100	102	102	85 - 115	03/31/03	SAJ
CCV 2	100	104	104	85 - 115	03/31/03	SAJ
CCV 3	100	103	103	85 - 115	03/31/03	SAJ

QUALITY CONTROL REPORT
CRDL STANDARD
USEPA CLP FORM 2B

SDG No.	36274 -1	Matrix Units	WATER mg/L
Analyte	Analytical Batch	True Value	Amount Found
Chloride	198645	1.0	0.80
			% Recovery 80

QUALITY CONTROL REPORT
SPIKE SAMPLE RECOVERY
USEPA CLP FORM 5A

SDG No.	36274 -1	Matrix	WATER
Sample ID.	MW-26	Lab Sample No.	327328
		Units	mg/L

Analyte	Control Limit %R	Spiked Sample Result	Sample Result	Spike Added	%R	M
Chloride	72 - 124	642	402	250	96	

**QUALITY CONTROL REPORT
SAMPLE DUPLICATE
USEPA CLP FORM 6**

SDG No. 36274 -1
Sample ID. MW-26

Matrix WATER
Lab Sample No. 327328
Units mg/L

Analyte	Control Limit	Sample Result	Duplicate Result	RPD	M
Chloride	0 - 20	402	404	0	

QUALITY CONTROL REPORT
LABORATORY CONTROL SAMPLE
USEPA CLP FORM 7

SDG No.	36274 -1		Units	mg/L	
Analyte	Batch	True Value	Amount Found	Control Limit	%R
Chloride	198645	109	112	95 - 109	103

**QUALITY CONTROL REPORT
 METHOD PREPARATION BLANK**

Method: Volatiles Purge & Trap-GC/MS
 Analyst: James D. McFadden
 Analytical Batch No: 198951
 QC Batch No: 83984-103
 Units: ug/L

Test Date: 04/03/03

Parameter	Blank Concentration	Quantitation Limit
	-----	-----
Chloromethane	ND	1.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethylene	ND	1.0
Carbon Disulfide	ND	5.0
Acetone	ND	50
Methylene Chloride	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Methyl Ethyl Ketone	ND	50
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	1.0
Benzene	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Dichlorobromomethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
4-Methyl-2-Pentanone	ND	50
Toluene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	ND	1.0
2-Hexanone	ND	50
Chlorodibromomethane	ND	1.0
Chlorobenzene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Ethylbenzene	ND	1.0
Xylene (Total)	ND	3.0
Styrene	ND	1.0
Bromoform	ND	1.0

**QUALITY CONTROL REPORT
 METHOD PREPARATION BLANK**

Method: Volatiles Purge & Trap-GC/MS
 Analyst: James D. McFadden
 Analytical Batch No: 199137
 QC Batch No: 83984-109
 Units: ug/L

Test Date: 04/09/03

Parameter	Blank Concentration	Quantitation Limit
Chloromethane	ND	1.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethylene	ND	1.0
Carbon Disulfide	ND	5.0
Acetone	ND	50
Methylene Chloride	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Methyl Ethyl Ketone	ND	50
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	1.0
Benzene	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Dichlorobromomethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
4-Methyl-2-Pentanone	ND	50
Toluene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	ND	1.0
2-Hexanone	ND	50
Chlorodibromomethane	ND	1.0
Chlorobenzene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Ethylbenzene	ND	1.0
Xylene (Total)	ND	3.0
Styrene	ND	1.0
Bromoform	ND	1.0

**QUALITY CONTROL REPORT
 METHOD PREPARATION BLANK**

Method: Volatiles Purge & Trap-GC/MS
 Analyst: James D. McFadden
 Analytical Batch No: 199139
 QC Batch No: 83984-110
 Units: ug/L

Test Date: 04/10/03

Parameter	Blank Concentration	Quantitation Limit
	-----	-----
Chloromethane	ND	1.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethylene	ND	1.0
Carbon Disulfide	ND	5.0
Acetone	ND	50
Methylene Chloride	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Methyl Ethyl Ketone	ND	50
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	1.0
Benzene	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Dichlorobromomethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
4-Methyl-2-Pentanone	ND	50
Toluene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	ND	1.0
2-Hexanone	ND	50
Chlorodibromomethane	ND	1.0
Chlorobenzene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Ethylbenzene	ND	1.0
Xylene (Total)	ND	3.0
Styrene	ND	1.0
Bromoform	ND	1.0

**QUALITY CONTROL REPORT
 METHOD PREPARATION BLANK**

Method: Volatiles Purge & Trap-GC/MS
 Analyst: James D. McFadden
 Analytical Batch No: 199216
 QC Batch No: 83984-111
 Units: ug/L

Test Date: 04/11/03

Parameter	Blank Concentration	Quantitation Limit
Chloromethane	ND	1.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethylene	ND	1.0
Carbon Disulfide	ND	5.0
Acetone	ND	50
Methylene Chloride	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Methyl Ethyl Ketone	ND	50
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	1.0
Benzene	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Dichlorobromomethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
4-Methyl-2-Pentanone	ND	50
Toluene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	ND	1.0
2-Hexanone	ND	50
Chlorodibromomethane	ND	1.0
Chlorobenzene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Ethylbenzene	ND	1.0
Xylene (Total)	ND	3.0
Styrene	ND	1.0
Bromoform	ND	1.0

QUALITY CONTROL REPORT
LABORATORY FORTIFIED BLANK

Method: Volatiles Purge & Trap-GC/MS
Analyst: James D. McFadden
Analytical Batch No: 198951
QC Batch No: 83984-103
Units: ug/L

Test Date: 04/03/03

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	42.4	106	79 - 120
Chlorobenzene	40.0	41.8	105	79 - 122
1,1-Dichloroethylene	40.0	41.4	104	72 - 126
Toluene	40.0	40.7	102	79 - 126
Trichloroethene	40.0	38.5	96	71 - 127

**QUALITY CONTROL REPORT
LABORATORY FORTIFIED BLANK**

Method: Volatiles Purge & Trap-GC/MS
Analyst: James D. McFadden
Analytical Batch No: 199137
QC Batch No: 83984-109
Units: ug/L

Test Date: 04/09/03

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	37.9	95	79 - 120
Chlorobenzene	40.0	40.6	102	79 - 122
1,1-Dichloroethylene	40.0	35.4	89	72 - 126
Toluene	40.0	38.6	97	79 - 126
Trichloroethene	40.0	39.0	98	71 - 127

**QUALITY CONTROL REPORT
LABORATORY FORTIFIED BLANK**

Method: Volatiles Purge & Trap-GC/MS
Analyst: James D. McFadden
Analytical Batch No: 199139
QC Batch No: 83984-110
Units: ug/L

Test Date: 04/10/03

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	38.5	96	79 - 120
Chlorobenzene	40.0	39.3	98	79 - 122
1,1-Dichloroethylene	40.0	38.0	95	72 - 126
Toluene	40.0	39.6	99	79 - 126
Trichloroethene	40.0	42.4	106	71 - 127

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**QUALITY CONTROL REPORT
LABORATORY FORTIFIED BLANK**

Method: Volatiles Purge & Trap-GC/MS
Analyst: James D. McFadden
Analytical Batch No: 199216
QC Batch No: 83984-111
Units: ug/L

Test Date: 04/11/03

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	38.1	95	79 - 120
Chlorobenzene	40.0	38.9	97	79 - 122
1,1-Dichloroethylene	40.0	37.0	93	72 - 126
Toluene	40.0	40.5	101	79 - 126
Trichloroethene	40.0	41.2	103	71 - 127

**QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3**

Method: Volatiles Purge & Trap-GC/MS
 Analyst: James D. McFadden
 Analytical Batch No: 199137
 QC Batch No: 83984-109
 Sample No: 327328
 Units: ug/L

USEPA-8260B WATER
 Test Date: 04/09/03

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
Benzene	23	2000	1980	98	74 - 127
Chlorobenzene	ND	2000	1900	95	71 - 130
1,1-Dichloroethylene	55	2000	1970	96	65 - 145
Toluene	16	2000	2000	99	73 - 130
Trichloroethene	130	2000	2170	102	64 - 140

**QUALITY CONTROL REPORT
MATRIX SPIKE DUPLICATE
USEPA CLP FORM 3**

Method: Volatiles Purge & Trap-GC/MS
Analyst: James D. McFadden
Analytical Batch No: 199137
QC Batch No: 83984-109
Sample No: 327328
Units: ug/L

USEPA-8260B WATER
Test Date: 04/09/03

Parameter	Sample+Spike Conc #1	Sample+Spike Conc #2	Relative % Diff.	Control Limits
Benzene	2020	1980	2	0 - 16
Chlorobenzene	2000	1900	5	0 - 16
1,1-Dichloroethylene	2260	1970	14	0 - 20
Toluene	2090	2000	4	0 - 17
Trichloroethene	2270	2170	5	0 - 18

**QUALITY CONTROL REPORT
SURROGATE RECOVERIES
USEPA CLP FORM 2**

Method: Volatiles Purge & Trap-GC/MS

USEPA-8260B

WATER

Surrogate Compound List

 SUR-1: Dibromofluoromethane-sur SUR-4: 4-Bromofluorobenzene-sur
 SUR-2: d4-1,2-Dichloroethane-sur
 SUR-3: d8-Toluene-sur

% R = Percent Recovery

Compounds:	SUR-1	SUR-2	SUR-3	SUR-4	
Control Limits:	79-124	75-128	87-113	70-121	
Sample # / ID	Batch	% R	% R	% R	% R
-----	-----	---	---	---	---
MPB-01	83984-103	94	92	102	107
MPB-01	83984-109	97	93	98	101
MPB-01	83984-110	95	93	98	99
MPB-01	83984-111	97	98	101	104
LFB-01	83984-103	101	98	102	96
LFB-01	83984-109	101	96	97	107
LFB-01	83984-110	102	100	101	99
LFB-01	83984-111	103	102	100	102
327328SPK	83984-109	109	104	101	101
327328SPK	83984-109	108	104	102	100
327324	83984-111	92	94	101	101
327325	83984-110	106	98	101	103
327326	83984-103	95	92	100	106
327327	83984-109	96	90	99	103
327328	83984-109	102	97	100	105
327329	83984-109	100	98	101	108



5560 Corporate Exchange Court SE Grand Rapids, MI 49512
 Phone (616) 975-4500 Fax (616) 942-7463
 www.trimatrixlabs.com

Chain of Custody Record

COC No. 92023

Page 1 of 1

For Lab Use Only

Cart 4

VOA Rack/Tray (PACS) 388-6-10 (up to) 38-B-9

Receipt Log No. 49-4

Project Chemist JVK

Laboratory Project No. 32274-1

Client Name RMT, Inc.

Address 744 Heartland Trail

Madison, WI 53717

Phone 608-831-4444
 Fax 608-831-3334

Project Name Tecumseh Products

Client Project No. / P.O. No. 3084-27

Invoice To Client
 Other (comments)

Contact/Report To Alyssa Sellwood

Analyses Requested

D A A
 CVOC's
 Chloride
 VFA's *

- ← PRESERVATIVES
- A NONE pH-7
- B HNO₃ pH<2
- C H₂SO₄ pH<2
- D 1+1 HCl pH<2
- E NaOH pH>12
- F ZnAc/NaOH pH>9
- G MeOH
- H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	C O M P	G R A B	Matrix	Number of Containers Submitted	Total	Sample Comments
			1									
01	WG	327324	MW-8D	Tm0041	3/27/03	11:25			W 2 1 2	5		Very foamy, with small bubbles
		327325	MW-23		3/27/03	10:25			W 2 1 2	5		
		327326	MW-24		3/27/03	9:35			W 2 1 2	5		
		327327	MW-25		3/27/03	13:10			W 2 1 2	5		
		327328	MW-26		3/27/03	14:00			W 2 1 2	5		
02	WG	327329	Trip Blank						W 2	2		

Sampled By (print) Jason Schoophoester

Sampler's Signature [Signature]

Company RMT, Inc.
50 Madison, WI

How Shipped? Hand Carrier Fedex

Tracking No. _____

1. Relinquished By [Signature] Date 3/27/03 Time 16:30

Comments * VFA's to be analyzed for are: Acetic, Propionic, Pyruvic, Lactic, Butyric.

Also please use the lowest possible quantitation limits.
*MW-8D was very foamy, obtained sample w/smallest bubbles possible.

2. Received By [Signature] Date 3/28/03 Time 9:00

MICROSEEPS

Client Name: Trimatrix
Contact: Jennifer Rice
Address: 5560 Corporate Exchange C
Grand Rapids, MI 49512

Page 1 of 6
Order #: P0304021
Report Date: 04/21/03
Client Proj Name: Tecumseh Products
Client Proj #: 36274-1

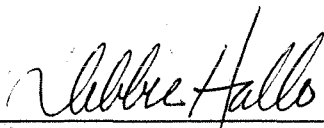
Laboratory Results

Lab Sample # Client Sample ID

P0304021-01	MW-8D
P0304021-02	MW-23
P0304021-03	MW-24
P0304021-04	MW-25
P0304021-05	MW-26

Approved By: _____

NOTES:



Order #: P0304021
 Report Date: 04/21/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-1

Client Name: Trimatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0304021-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-8D	Water	27 Mar. 03 11:25	02 Apr. 03

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
Water						
Acetic Acid	65	1.0	mg/L	AM21G	bc	4/17/03
Butyric acid	1.5	1.0	mg/L	AM21G	bc	4/17/03
Lactic Acid	<25	25	mg/L	AM21G	bc	4/17/03
Propionic acid	3.9	1.0	mg/L	AM21G	bc	4/17/03
Pyruvic acid	<10	10	mg/L	AM21G	bc	4/17/03

Order #: P0304021
 Report Date: 04/21/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-1

Client Name: Trimatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0304021-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>			
MW-23	Water	27 Mar. 03 10:25	02 Apr. 03			
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
Water						
Acetic Acid	780	1.0	mg/L	AM21G	bc	4/17/03
Butyric acid	140	1.0	mg/L	AM21G	bc	4/17/03
Lactic Acid	<25	25	mg/L	AM21G	bc	4/17/03
Propionic acid	52	1.0	mg/L	AM21G	bc	4/17/03
Pyruvic acid	<10	10	mg/L	AM21G	bc	4/17/03

Order #: P0304021
 Report Date: 04/21/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-1

Client Name: Trimatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0304021-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-24	Water	27 Mar. 03 9:35	02 Apr. 03

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
Water						
Acetic Acid	16	1.0	mg/L	AM21G	bc	4/17/03
Butyric acid	<1.0	1.0	mg/L	AM21G	bc	4/17/03
Lactic Acid	<25	25	mg/L	AM21G	bc	4/17/03
Propionic acid	<1.0	1.0	mg/L	AM21G	bc	4/17/03
Pyruvic acid	<10	10	mg/L	AM21G	bc	4/17/03

Order #: P0304021
 Report Date: 04/21/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-1

Client Name: Trimatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0304021-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-25	Water	27 Mar. 03 13:10	02 Apr. 03

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
Water						
Acetic Acid	<1.0	1.0	mg/L	AM21G	bc	4/17/03
Butyric acid	<1.0	1.0	mg/L	AM21G	bc	4/17/03
Lactic Acid	<25	25	mg/L	AM21G	bc	4/17/03
Propionic acid	<1.0	1.0	mg/L	AM21G	bc	4/17/03
Pyruvic acid	<10	10	mg/L	AM21G	bc	4/17/03

Order #: P0304021
 Report Date: 04/21/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-1

Client Name: Trimatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0304021-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>			
MW-26	Water	27 Mar. 03 14:00	02 Apr. 03			
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
Water						
Acetic Acid	<1.0	1.0	mg/L	AM21G	bc	4/17/03
Butyric acid	<1.0	1.0	mg/L	AM21G	bc	4/17/03
Lactic Acid	<25	25	mg/L	AM21G	bc	4/17/03
Propionic acid	<1.0	1.0	mg/L	AM21G	bc	4/17/03
Pyruvic acid	<10	10	mg/L	AM21G	bc	4/17/03

June 16, 2003

July 2, 2003

RMT, Inc. - Madison Office
Attn: Ms. Alyssa Sellwood
744 Heartland Trail
Madison, WI 53717

RE: Tecumseh Products
PO: 3084.27

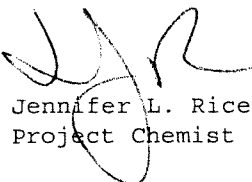
Dear Ms. Alyssa Sellwood:

Enclosed is a copy of your laboratory report and invoice for submittal 36274-2. This submittal was completely received on June 17, 2003. All analyses have been validated and comply with our Quality Control program statistics unless otherwise noted.

Since TriMatrix does not perform the analysis for Volatile Fatty Acids, the samples were subcontracted to Microseeps. A copy of their report is included with this TriMatrix report.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,


Jennifer L. Rice
Project Chemist

Enclosure

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No qualifications required.

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

ANALYTICAL REPORT
USEPA CLP FORM 1

RMT, Inc. - Madison Office
Proj: Tecumseh Products
Subm: June 16, 2003 Samples

Submittal Number: 36274- 2
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.	MW-8	LOD	LOQ	Units
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Lab Sample No:	334550			
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16887-00-6 Chloride	170	1.4	4.8	mg/L
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Sampled by:	J.S.
Date Sampled:	06/16/03
Time Sampled:	12:40
Date Received:	06/17/03
Time Received:	08:30

ANALYTICAL REPORT
USEPA CLP FORM 1

RMT, Inc. - Madison Office
Proj: Tecumseh Products
Subm: June 16, 2003 Samples

Submittal Number: 36274- 2
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.	MW-8D	LOD	LOQ	Units
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Lab Sample No:	334551
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16887-00-6 Chloride	22	0.14	0.48	mg/L
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Sampled by:	J.S.
Date Sampled:	06/16/03
Time Sampled:	13:35
Date Received:	06/17/03
Time Received:	08:30

**ANALYTICAL REPORT
USEPA CLP FORM 1**

RMT, Inc. - Madison Office
Proj: Tecumseh Products
Subm: June 16, 2003 Samples

Submittal Number: 36274- 2
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.	MW-23	LOD	LOQ	Units
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Lab Sample No:	334552			
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16887-00-6 Chloride	124	0.14	0.48	mg/L
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Sampled by:	J.S.
Date Sampled:	06/16/03
Time Sampled:	12:00
Date Received:	06/17/03
Time Received:	08:30

65

**ANALYTICAL REPORT
USEPA CLP FORM 1**

RMT, Inc. - Madison Office
Proj: Tecumseh Products
Subm: June 16, 2003 Samples

Submittal Number: 36274- 2
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No. MW-25 LOD LOQ Units

Lab Sample No: 334553

16887-00-6 Chloride 60 0.14 0.48 mg/L

Sampled by: J.S.
Date Sampled: 06/16/03
Time Sampled: 10:15
Date Received: 06/17/03
Time Received: 08:30

66

**ANALYTICAL REPORT
USEPA CLP FORM 1**

RMT, Inc. - Madison Office
Proj: Tecumseh Products
Subm: June 16, 2003 Samples

Submittal Number: 36274- 2
Location:
Contact: Jennifer L. Rice
Phone: (616) 975-4500

CAS No.	MW-26	LOD	LOQ	Units
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Lab Sample No:	334554
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16887-00-6 Chloride	216	1.4	4.8	mg/L
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Sampled by:	J.S.
Date Sampled:	06/16/03
Time Sampled:	11:10
Date Received:	06/17/03
Time Received:	08:30

VOLATILE ORGANICS - 8260B
 TCL COMPOUND LIST

RMT, Inc. - Madison Office
 Proj: Tecumseh Products

 Subm: June 16, 2003 Samples
 Sample: MW-8

Submittal Number 36274- 2
 Date Sampled: 06/16/03 Time: 12:40
 Date Received: 06/17/03 Time: 08:30
 Analysis Date: 06/27/03
 Lab Sample No: 334550
 Batch No: 202767

CAS No.	Compound	Result ug/L	Data Qualifiers	LOD	LOQ
74-87-3	Chloromethane	ND	U	1.2	4.2
74-83-9	Bromomethane	ND	U	1.5	5.0
75-01-4	Vinyl Chloride	19		1.4	4.8
75-00-3	Chloroethane	36		1.1	3.7
75-09-2	Methylene Chloride	ND	U	0.70	2.3
67-64-1	Acetone	ND	U	20.5	68
75-15-0	Carbon Disulfide	ND	U	0.75	2.5
75-35-4	1,1-Dichloroethylene	ND	U	1.4	4.7
75-34-3	1,1-Dichloroethane	380		0.65	2.2
156-59-2	cis-1,2-Dichloroethene	16		0.55	1.8
156-60-5	trans-1,2-Dichloroethene	6.7		0.90	3.0
67-66-3	Chloroform	ND	U	1.2	4.0
107-06-2	1,2-Dichloroethane	ND	U	0.37	1.2
79-01-6	Trichloroethene	8.0		0.55	1.8
78-93-3	Methyl Ethyl Ketone	ND	U	1.1	37
71-55-6	1,1,1-Trichloroethane	96		0.90	3.0
56-23-5	Carbon Tetrachloride	ND	U	0.70	2.3
75-27-4	Dichlorobromomethane	ND	U	0.70	2.3
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	1.0	3.3
78-87-5	1,2-Dichloropropane	ND	U	1.0	3.3
10061-02-6	trans-1,3-Dichloropropene	ND	U	0.55	1.8
124-48-1	Chlorodibromomethane	ND	U	0.47	1.6
79-00-5	1,1,2-Trichloroethane	ND	U	1.1	3.7
71-43-2	Benzene	ND	U	0.60	2.0
10061-01-5	cis-1,3-Dichloropropene	ND	U	0.55	1.8
75-25-2	Bromoform	ND	U	1.2	3.8
591-78-6	2-Hexanone	ND	U	9.5	32
108-10-1	4-Methyl-2-Pentanone	ND	U	2.3	7.7
127-18-4	Tetrachloroethene	ND	U	0.60	2.0
108-88-3	Toluene	27		0.50	1.7
108-90-7	Chlorobenzene	ND	U	0.60	2.0
100-41-4	Ethylbenzene	7.0		0.55	1.8
100-42-5	Styrene	ND	U	1.0	3.3
1330-20-7	Xylene (Total)	54		2.1	6.8

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

RMT, Inc. - Madison Office
 Proj: Tecumseh Products
 Subm: June 16, 2003 Samples
 Sample: MW-8D

Submittal Number 36274- 2
 Date Sampled: 06/16/03 Time: 13:35
 Date Received: 06/17/03 Time: 08:30
 Analysis Date: 06/27/03
 Lab Sample No: 334551
 Batch No: 202767

CAS No.	Compound	Result ug/L	Data Qualifiers	LOD	LOQ
74-87-3	Chloromethane	ND	U	0.25	0.83
74-83-9	Bromomethane	ND	U	0.30	1.0
75-01-4	Vinyl Chloride	ND	U	0.29	0.97
75-00-3	Chloroethane	ND	U	0.22	0.73
75-09-2	Methylene Chloride	ND	U	0.14	0.47
67-64-1	Acetone	ND	U	4.1	14
75-15-0	Carbon Disulfide	ND	U	0.15	0.50
75-35-4	1,1-Dichloroethylene	1.3		0.28	0.93
75-34-3	1,1-Dichloroethane	9.6		0.13	0.43
156-59-2	cis-1,2-Dichloroethene	9.9		0.11	0.37
156-60-5	trans-1,2-Dichloroethene	1.1		0.18	0.60
67-66-3	Chloroform	ND	U	0.24	0.80
107-06-2	1,2-Dichloroethane	ND	U	0.074	0.25
79-01-6	Trichloroethene	2.6		0.11	0.37
78-93-3	Methyl Ethyl Ketone	ND	U	2.2	7.3
71-55-6	1,1,1-Trichloroethane	1.7		0.18	0.60
56-23-5	Carbon Tetrachloride	ND	U	0.14	0.47
75-27-4	Dichlorobromomethane	ND	U	0.14	0.47
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	0.20	0.67
78-87-5	1,2-Dichloropropane	ND	U	0.21	0.70
10061-02-6	trans-1,3-Dichloropropene	ND	U	0.11	0.37
124-48-1	Chlorodibromomethane	ND	U	0.094	0.31
79-00-5	1,1,2-Trichloroethane	ND	U	0.22	0.73
71-43-2	Benzene	ND	U	0.12	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	U	0.11	0.37
75-25-2	Bromoform	ND	U	0.23	0.77
591-78-6	2-Hexanone	ND	U	1.9	6.3
108-10-1	4-Methyl-2-Pentanone	ND	U	0.46	1.5
127-18-4	Tetrachloroethene	ND	U	0.12	0.40
108-88-3	Toluene	4.8		0.10	0.33
108-90-7	Chlorobenzene	ND	U	0.12	0.40
100-41-4	Ethylbenzene	4.6		0.11	0.37
100-42-5	Styrene	ND	U	0.20	0.67
1330-20-7	Xylene (Total)	21		0.41	1.4

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

RMT, Inc. - Madison Office
 Proj: Tecumseh Products
 Subm: June 16, 2003 Samples
 Sample: MW-23

Submittal Number 36274- 2
 Date Sampled: 06/16/03 Time: 12:00
 Date Received: 06/17/03 Time: 08:30
 Analysis Date: 06/27/03
 Lab Sample No: 334552
 Batch No: 202767

CAS No.	Compound	Result ug/L	Data Qualifiers	LOD	LOQ
74-87-3	Chloromethane	ND	U	25	83
74-83-9	Bromomethane	ND	U	30	100
75-01-4	Vinyl Chloride	ND	U	29	97
75-00-3	Chloroethane	1300		22	73
75-09-2	Methylene Chloride	ND	U	14	47
67-64-1	Acetone	ND	U	410	1400
75-15-0	Carbon Disulfide	ND	U	15	50
75-35-4	1,1-Dichloroethylene	ND	U	28	93
75-34-3	1,1-Dichloroethane	9600		13	43
156-59-2	cis-1,2-Dichloroethene	ND	U	11	37
156-60-5	trans-1,2-Dichloroethene	ND	U	18	60
67-66-3	Chloroform	ND	U	24	80
107-06-2	1,2-Dichloroethane	ND	U	7.4	25
79-01-6	Trichloroethene	ND	U	11	37
78-93-3	Methyl Ethyl Ketone	ND	U	220	730
71-55-6	1,1,1-Trichloroethane	ND	U	18	60
56-23-5	Carbon Tetrachloride	ND	U	14	47
75-27-4	Dichlorobromomethane	ND	U	14	47
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	20	67
78-87-5	1,2-Dichloropropane	ND	U	21	70
10061-02-6	trans-1,3-Dichloropropene	ND	U	11	37
124-48-1	Chlorodibromomethane	ND	U	9.4	31
79-00-5	1,1,2-Trichloroethane	ND	U	22	73
71-43-2	Benzene	ND	U	12	40
10061-01-5	cis-1,3-Dichloropropene	ND	U	11	37
75-25-2	Bromoform	ND	U	23	77
591-78-6	2-Hexanone	ND	U	190	630
108-10-1	4-Methyl-2-Pentanone	ND	U	46	150
127-18-4	Tetrachloroethene	ND	U	12	40
108-88-3	Toluene	390		10	33
108-90-7	Chlorobenzene	ND	U	12	40
100-41-4	Ethylbenzene	ND	U	11	37
100-42-5	Styrene	ND	U	20	37
1330-20-7	Xylene (Total)	ND	U	41	140

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

RMT, Inc. - Madison Office
 Proj: Tecumseh Products
 Subm: June 16, 2003 Samples
 Sample: MW-25

Submittal Number 36274- 2
 Date Sampled: 06/16/03 Time: 10:15
 Date Received: 06/17/03 Time: 08:30
 Analysis Date: 06/27/03
 Lab Sample No: 334553
 Batch No: 202769

CAS No.	Compound	Result ug/L	Data Qualifiers	LOD	LOQ
74-87-3	Chloromethane	ND	U	6.3	21
74-83-9	Bromomethane	ND	U	7.5	25
75-01-4	Vinyl Chloride	68		7.3	24
75-00-3	Chloroethane	ND	U	5.5	18
75-09-2	Methylene Chloride	ND	U	3.5	12
67-64-1	Acetone	ND	U	103	341
75-15-0	Carbon Disulfide	ND	U	3.8	13
75-35-4	1,1-Dichloroethylene	ND	U	7.0	23
75-34-3	1,1-Dichloroethane	ND	U	3.3	11
156-59-2	cis-1,2-Dichloroethene	430		2.8	9.2
156-60-5	trans-1,2-Dichloroethene	ND	U	4.5	15
67-66-3	Chloroform	ND	U	6.0	20
107-06-2	1,2-Dichloroethane	ND	U	1.9	6.2
79-01-6	Trichloroethene	3300		2.8	9.2
78-93-3	Methyl Ethyl Ketone	ND	U	55	183
71-55-6	1,1,1-Trichloroethane	ND	U	4.5	15
56-23-5	Carbon Tetrachloride	ND	U	3.5	12
75-27-4	Dichlorobromomethane	27		3.5	12
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	17
78-87-5	1,2-Dichloropropane	ND	U	5.3	18
10061-02-6	trans-1,3-Dichloropropene	ND	U	2.8	9.2
124-48-1	Chlorodibromomethane	ND	U	2.4	7.8
79-00-5	1,1,2-Trichloroethane	ND	U	5.5	18
71-43-2	Benzene	ND	U	3.0	10
10061-01-5	cis-1,3-Dichloropropene	ND	U	2.8	9.2
75-25-2	Bromoform	ND	U	5.8	19
591-78-6	2-Hexanone	ND	U	48	158
108-10-1	4-Methyl-2-Pentanone	ND	U	12	38
127-18-4	Tetrachloroethene	ND	U	3.0	10
108-88-3	Toluene	ND	U	2.5	8.3
108-90-7	Chlorobenzene	ND	U	3.0	10
100-41-4	Ethylbenzene	ND	U	2.8	9.2
100-42-5	Styrene	ND	U	5.0	17
1330-20-7	Xylene (Total)	ND	U	10	34

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

RMT, Inc. - Madison Office
 Proj: Tecumseh Products
 Subm: June 16, 2003 Samples
 Sample: MW-26

Submittal Number 36274- 2
 Date Sampled: 06/16/03 Time: 11:10
 Date Received: 06/17/03 Time: 08:30
 Analysis Date: 06/27/03
 Lab Sample No: 334554
 Batch No: 202767

CAS No.	Compound	Result ug/L	Data Qualifiers	LOD	LOQ
74-87-3	Chloromethane	ND	U	6.3	21
74-83-9	Bromomethane	ND	U	7.5	25
75-01-4	Vinyl Chloride	2200		7.3	24
75-00-3	Chloroethane	ND	U	5.5	18
75-09-2	Methylene Chloride	ND	U	3.5	12
67-64-1	Acetone	ND	U	103	341
75-15-0	Carbon Disulfide	ND	U	3.8	13
75-35-4	1,1-Dichloroethylene	ND	U	7.0	23
75-34-3	1,1-Dichloroethane	320		3.3	11
156-59-2	cis-1,2-Dichloroethene	4200		2.8	9.2
156-60-5	trans-1,2-Dichloroethene	79		4.5	15
67-66-3	Chloroform	ND	U	6.0	20
107-06-2	1,2-Dichloroethane	ND	U	1.9	6.2
79-01-6	Trichloroethene	180		2.8	9.2
78-93-3	Methyl Ethyl Ketone	ND	U	55	183
71-55-6	1,1,1-Trichloroethane	38		4.5	15
56-23-5	Carbon Tetrachloride	ND	U	3.5	12
75-27-4	Dichlorobromomethane	ND	U	3.5	12
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	17
78-87-5	1,2-Dichloropropane	ND	U	5.3	18
10061-02-6	trans-1,3-Dichloropropene	ND	U	2.8	9.2
124-48-1	Chlorodibromomethane	ND	U	2.4	7.8
79-00-5	1,1,2-Trichloroethane	ND	U	5.5	18
71-43-2	Benzene	ND	U	3.0	10
10061-01-5	cis-1,3-Dichloropropene	ND	U	2.8	9.2
75-25-2	Bromoform	ND	U	5.8	19
591-78-6	2-Hexanone	ND	U	48	158
108-10-1	4-Methyl-2-Pentanone	ND	U	12	38
127-18-4	Tetrachloroethene	ND	U	3.0	10
108-88-3	Toluene	ND	U	2.5	8.3
108-90-7	Chlorobenzene	ND	U	3.0	10
100-41-4	Ethylbenzene	ND	U	2.8	9.2
100-42-5	Styrene	ND	U	5.0	17
1330-20-7	Xylene (Total)	ND	U	10	34

VOLATILE ORGANICS - 8260B
TCL COMPOUND LIST

RMT, Inc. - Madison Office

Proj: Tecumseh Products

Subm: June 16, 2003 Samples

Sample: Trip Blank

Submittal Number 36274- 2

Date Sampled: 06/16/03 Time: 00:00

Date Received: 06/17/03 Time: 08:30

Analysis Date: 06/26/03

Lab Sample No: 334555

Batch No: 202762

CAS No.	Compound	Result ug/L	Data Qualifiers	LOD	LOQ
74-87-3	Chloromethane	ND	U	0.25	0.83
74-83-9	Bromomethane	ND	U	0.30	1.0
75-01-4	Vinyl Chloride	ND	U	0.29	0.97
75-00-3	Chloroethane	ND	U	0.22	0.73
75-09-2	Methylene Chloride	ND	U	0.14	0.47
67-64-1	Acetone	ND	U	4.1	14
75-15-0	Carbon Disulfide	ND	U	0.15	0.50
75-35-4	1,1-Dichloroethylene	ND	U	0.28	0.93
75-34-3	1,1-Dichloroethane	ND	U	0.13	0.43
156-59-2	cis-1,2-Dichloroethene	ND	U	0.11	0.37
156-60-5	trans-1,2-Dichloroethene	ND	U	0.18	0.60
67-66-3	Chloroform	ND	U	0.24	0.80
107-06-2	1,2-Dichloroethane	ND	U	0.074	0.25
79-01-6	Trichloroethene	ND	U	0.11	0.37
78-93-3	Methyl Ethyl Ketone	ND	U	2.2	7.3
71-55-6	1,1,1-Trichloroethane	ND	U	0.18	0.60
56-23-5	Carbon Tetrachloride	ND	U	0.14	0.47
75-27-4	Dichlorobromomethane	ND	U	0.14	0.47
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	0.20	0.67
78-87-5	1,2-Dichloropropane	ND	U	0.21	0.70
10061-02-6	trans-1,3-Dichloropropene	ND	U	0.11	0.37
124-48-1	Chlorodibromomethane	ND	U	0.094	0.31
79-00-5	1,1,2-Trichloroethane	ND	U	0.22	0.73
71-43-2	Benzene	ND	U	0.12	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	U	0.11	0.37
75-25-2	Bromoform	ND	U	0.23	0.77
591-78-6	2-Hexanone	ND	U	1.9	6.3
108-10-1	4-Methyl-2-Pentanone	ND	U	0.46	1.5
127-18-4	Tetrachloroethene	ND	U	0.12	0.40
108-88-3	Toluene	ND	U	0.10	0.33
108-90-7	Chlorobenzene	ND	U	0.12	0.40
100-41-4	Ethylbenzene	ND	U	0.11	0.37
100-42-5	Styrene	ND	U	0.20	0.67
1330-20-7	Xylene (Total)	ND	U	0.41	1.4

QUALITY CONTROL REPORT
INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV-CCV)
USEPA CLP FORM 2A

SDG No.	36274 -2	Parameter	Chloride
Batch No.	202404	Ref. Cit.	325.2/4500-CL E
Instrument ID	189	Matrix	WATER
		Units	mg/L

Verification QC Type	True Value	Amount Found	% Recovery	Acceptance Window-%	Date	Analyst
ICV 1	60	62	103	85 - 115	06/23/03	SAJ
CCV 1	60	62	103	85 - 115	06/23/03	SAJ
CCV 2	100	101	101	85 - 115	06/23/03	SAJ
CCV 3	100	103	103	85 - 115	06/23/03	SAJ
CCV 4	100	102	102	85 - 115	06/23/03	SAJ
CCV 5	100	103	103	85 - 115	06/23/03	SAJ
CCV 6	100	105	105	85 - 115	06/23/03	SAJ
CCV 7	100	105	105	85 - 115	06/23/03	SAJ
CCV 8	100	107	107	85 - 115	06/23/03	SAJ
CCV 9	100	108	108	85 - 115	06/23/03	SAJ
CCV10	100	108	108	85 - 115	06/23/03	SAJ
CCV11	100	108	108	85 - 115	06/23/03	SAJ

QUALITY CONTROL REPORT
CRDL STANDARD
USEPA CLP FORM 2B

SDG No.	36274 -2	Matrix Units	WATER mg/L	
Analyte	Analytical Batch	True Value	Amount Found	% Recovery
Chloride	202404	1.0	1.15	115

QUALITY CONTROL REPORT
SPIKE SAMPLE RECOVERY
USEPA CLP FORM 5A

SDG No.	36274 -2	Matrix	WATER
Sample ID.	MW-26	Lab Sample No.	334554
		Units	mg/L

Analyte	Control Limit %R	Spiked Sample Result	Sample Result	Spike Added	%R	M
Chloride	72 - 124	401	216	250	74	

QUALITY CONTROL REPORT
SAMPLE DUPLICATE
USEPA CLP FORM 6

SDG No.	36274 -2	Matrix	WATER
Sample ID.	MW-26	Lab Sample No.	334554
		Units	mg/L

Analyte	Control Limit	Sample Result	Duplicate Result	RPD	M
Chloride	0 - 20	216	231	7	

QUALITY CONTROL REPORT
LABORATORY CONTROL SAMPLE
USEPA CLP FORM 7

SDG No.	36274 -2		Units	mg/L	
Analyte	Batch	True Value	Amount Found	Control Limit	%R
Chloride	202404	109	110	95 - 109	101

**QUALITY CONTROL REPORT
 METHOD PREPARATION BLANK**

Method: Volatiles Purge & Trap-GC/MS
 Analyst: Laurel E. Wood
 Analytical Batch No: 202762
 QC Batch No: 86547-225
 Units: ug/L

Test Date: 06/26/03

Parameter	Blank Concentration	Quantitation Limit
	-----	-----
Chloromethane	ND	1.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethylene	ND	1.0
Carbon Disulfide	ND	5.0
Acetone	ND	50
Methylene Chloride	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Methyl Ethyl Ketone	ND	50
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	1.0
Benzene	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Dichlorobromomethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
4-Methyl-2-Pentanone	ND	50
Toluene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	ND	1.0
2-Hexanone	ND	50
Chlorodibromomethane	ND	1.0
Chlorobenzene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Ethylbenzene	ND	1.0
Xylene (Total)	ND	3.0
Styrene	ND	1.0
Bromoform	ND	1.0

**QUALITY CONTROL REPORT
METHOD PREPARATION BLANK**

Method: Volatiles Purge & Trap-GC/MS
 Analyst: Laurel E. Wood
 Analytical Batch No: 202767
 QC Batch No: 86547-226
 Units: ug/L

Test Date: 06/26/03

Parameter	Blank Concentration	Quantitation Limit
	-----	-----
Chloromethane	ND	1.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethylene	ND	1.0
Carbon Disulfide	ND	5.0
Acetone	ND	50
Methylene Chloride	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Methyl Ethyl Ketone	ND	50
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	1.0
Benzene	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Dichlorobromomethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
4-Methyl-2-Pentanone	ND	50
Toluene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	ND	1.0
2-Hexanone	ND	50
Chlorodibromomethane	ND	1.0
Chlorobenzene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Ethylbenzene	ND	1.0
Xylene (Total)	ND	3.0
Styrene	ND	1.0
Bromoform	ND	1.0

**QUALITY CONTROL REPORT
 METHOD PREPARATION BLANK**

Method: Volatiles Purge & Trap-GC/MS
 Analyst: Laurel E. Wood
 Analytical Batch No: 202769
 QC Batch No: 86547-127
 Units: ug/L

Test Date: 06/27/03

Parameter	Blank Concentration	Quantitation Limit
	-----	-----
Chloromethane	ND	1.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
1,1-Dichloroethylene	ND	1.0
Carbon Disulfide	ND	5.0
Acetone	ND	50
Methylene Chloride	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Methyl Ethyl Ketone	ND	50
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	1.0
Benzene	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Dichlorobromomethane	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
4-Methyl-2-Pentanone	ND	50
Toluene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	ND	1.0
2-Hexanone	ND	50
Chlorodibromomethane	ND	1.0
Chlorobenzene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Ethylbenzene	ND	1.0
Xylene (Total)	ND	3.0
Styrene	ND	1.0
Bromoform	ND	1.0

**QUALITY CONTROL REPORT
LABORATORY FORTIFIED BLANK**

Method: Volatiles Purge & Trap-GC/MS
Analyst: Laurel E. Wood
Analytical Batch No: 202762
QC Batch No: 86547-225
Units: ug/L

Test Date: 06/26/03

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	41.6	104	79 - 120
Chlorobenzene	40.0	40.8	102	79 - 122
1,1-Dichloroethylene	40.0	44.4	111	72 - 126
Toluene	40.0	41.8	105	79 - 126
Trichloroethene	40.0	47.9	120	71 - 127

**QUALITY CONTROL REPORT
LABORATORY FORTIFIED BLANK**

Method: Volatiles Purge & Trap-GC/MS
Analyst: Laurel E. Wood
Analytical Batch No: 202769
QC Batch No: 86547-127
Units: ug/L

Test Date: 06/27/03

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	41.5	104	79 - 120
Chlorobenzene	40.0	41.1	103	79 - 122
1,1-Dichloroethylene	40.0	41.9	105	72 - 126
Toluene	40.0	41.2	103	79 - 126
Trichloroethene	40.0	41.3	103	71 - 127

**QUALITY CONTROL REPORT
LABORATORY FORTIFIED BLANK**

Method: Volatiles Purge & Trap-GC/MS
Analyst: Laurel E. Wood
Analytical Batch No: 202767
QC Batch No: 86547-226
Units: ug/L

Test Date: 06/26/03

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	40.8	102	79 - 120
Chlorobenzene	40.0	41.2	103	79 - 122
1,1-Dichloroethylene	40.0	41.2	103	72 - 126
Toluene	40.0	40.8	102	79 - 126
Trichloroethene	40.0	41.7	104	71 - 127

**QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3**

Method: Volatiles Purge & Trap-GC/MS
 Analyst: Laurel E. Wood
 Analytical Batch No: 202767
 QC Batch No: 86547-226
 Sample No: 334552
 Units: ug/L

USEPA-8260B WATER
 Test Date: 06/27/03

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
Benzene	ND	4000	4020	101	74 - 127
Chlorobenzene	ND	4000	4270	107	71 - 130
1,1-Dichloroethylene	ND	4000	4110	103	65 - 145
Toluene	390	4000	4530	104	73 - 130
Trichloroethene	ND	4000	4200	105	64 - 140

QUALITY CONTROL REPORT
MATRIX SPIKE RECOVERY
USEPA CLP FORM 3

Method: Volatiles Purge & Trap-GC/MS
 Analyst: Laurel E. Wood
 Analytical Batch No: 202767
 QC Batch No: 86547-226
 Sample No: 334552
 Units: ug/L

USEPA-8260B WATER
 Test Date: 06/27/03

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
Benzene	ND	4000	3880	97	74 - 127
Chlorobenzene	ND	4000	4120	103	71 - 130
1,1-Dichloroethylene	ND	4000	3840	96	65 - 145
Toluene	390	4000	4270	97	73 - 130
Trichloroethene	ND	4000	3910	98	64 - 140

QUALITY CONTROL REPORT
MATRIX SPIKE DUPLICATE
USEPA CLP FORM 3

Method: Volatiles Purge & Trap-GC/MS
 Analyst: Laurel E. Wood
 Analytical Batch No: 202767
 QC Batch No: 86547-226
 Sample No: 334552
 Units: ug/L

USEPA-8260B WATER
 Test Date: 06/27/03

Parameter	Sample+Spike Conc #1	Sample+Spike Conc #2	Relative % Diff.	Control Limits
Benzene	4020	3880	4	0 - 16
Chlorobenzene	4270	4120	4	0 - 16
1,1-Dichloroethylene	4110	3840	7	0 - 20
Toluene	4530	4270	6	0 - 17
Trichloroethene	4200	3910	7	0 - 18

**QUALITY CONTROL REPORT
SURROGATE RECOVERIES
USEPA CLP FORM 2**

Method: Volatiles Purge & Trap-GC/MS

USEPA-8260B

WATER

Surrogate Compound List

 SUR-1: Dibromofluoromethane-sur SUR-4: 4-Bromofluorobenzene-sur
 SUR-2: d4-1,2-Dichloroethane-sur
 SUR-3: d8-Toluene-sur

% R = Percent Recovery

Compounds:	SUR-1	SUR-2	SUR-3	SUR-4	
Control Limits:	79-124	75-128	87-113	70-121	
Sample # / ID	Batch	% R	% R	% R	% R
-----	-----	---	---	---	---
MPB-01	86547-225	104	96	98	86
MPB-01	86547-226	99	98	98	85
MPB-01	86547-127	101	96	94	87
LFB-01	86547-225	101	96	100	98
LFB-01	86547-226	98	94	99	100
LFB-01	86547-127	98	99	98	98
334552SPK	86547-226	98	97	99	94
334552SPK	86547-226	96	94	97	94
334550	86547-226	100	94	96	90
334551	86547-226	101	97	101	88
334552	86547-226	103	99	102	96
334553	86547-127	100	99	98	83
334554	86547-226	102	99	102	95
334555	86547-225	100	100	100	88

89



5560 Corporate Exchange Court SE Grand Rapids, MI 49512
 Phone (616) 975-4500 Fax (616) 942-7463
 www.trimatrixlabs.com

Chain of Custody Record

COC No. 93351

Page ___ of ___

For Lab Use Only

Cart **6**

VOA Rack/Tray (VFA's) **24 (Pre) / 701-R-12**

Receipt Log No. **33-7**

Project Chemist **JL**

Laboratory Project No. **36274-2**

Client Name **RMT**

Address **744 Heartland Tr. Madison, WI 53717**

Phone **608-831-4444**

Fax **608-831-3334**

Project Name **Tecumseh**

Client Project No. / P.O. No. **3084-27**

Invoice To Client Other (comments)

Contact/Report To **Alyssa Sellwood**

Analyses Requested

D	A	A																		
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CVO's
 Chloride
 VFA's *

- ← PRESERVATIVES
- A NONE pH<7
 - B HNO₃ pH<2
 - C H₂SO₄ pH<2
 - D 1+1 HCl pH<2
 - E NaOH pH>12
 - F ZnAc/NaOH pH>9
 - G MeOH
 - H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	C O M P	G R A B	Matrix	Number of Containers Submitted										Total	Sample Comments					
01	WG	334550	MW-8	TM0597	6/16	1240			W	2	1	2												5		
		334551	MW-8D		6/16	1335			W	2	1	2													5	
		334552	MW-23		6/16	1200			W	2	1	2													5	
			ADAM 23		6/16	1200																				5 Not Sampled
		334553	MW-25		6/16	1015			W	2	1	2													5	
		334554	MW-26		6/16	1110			W	2	1	2													5	
02	WG	334555	Trip Blank		-	-			W	1															1	

Sampled By (print) **Jason Schaeffer**

How Shipped? Hand Carrier **Fedex**

Sampler's Signature **Jason Schaeffer**

Tracking No. _____

Company **RMT Madison, WI**

1. Relinquished By **Jason Schaeffer** Date **6/16/03** Time **1645**

2. Relinquished By _____ Date _____ Time _____

3. Relinquished By _____ Date _____ Time _____

1. Received By _____ Date _____ Time _____

2. Received By _____ Date _____ Time _____

3. Received For Lab By **Joe Parks** Date **6/17/03** Time **8:30**

Comments ***VFA's to be analyzed for are: Acetic, Propionic, Pyruvic, Lactic, Butyric - Please use lowest possible quantitation limits.**

MICROSEEPS

Client Name: TriMatrix
Contact: Jennifer Rice
Address: 5560 Corporate Exchange C

Page 1 of 6
Order #: P0306281
Report Date: 07/09/03
Client Proj Name: Tecumseh Products
Client Proj #: 36274-2

Grand Rapids, MI 49512

Laboratory Results

Lab Sample # Client Sample ID

P0306281-01	MW-8
P0306281-02	MW-8D
P0306281-03	MW-23
P0306281-04	MW-25
P0306281-05	MW-26

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

Approved By: *Allyce Fallo*

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.

NOTES:



5560 Corporate Exchange Court SE Grand Rapids, MI 49512

Phone (616) 975-4500 Fax (616) 942-7463

www.trimatrixlabs.com

Chain of Custody Record

COC No. **93651**

For Lab Use Only

P0306281

Analyses Requested

Page ___ of ___

Cart	Client Name <i>TriMatrix</i>	Project Name <i>Tecumseh</i>
VOA Rack/Tray	Address <i>see above</i>	Client Project No. / P.O. No. <i>36274-2</i>
Receipt Log No.	Invoice To <input checked="" type="checkbox"/> Client <input type="checkbox"/> Other (comments)	
Project Chemist	Phone <i>616 942 4277</i>	Contact/Report To <i>Jennifer Rice</i>
Laboratory Project No.	Fax <i>616 942 7463</i>	

Volatiles for H+ acids

- ← PRESERVATIVES
- A NONE pH=7
- B HNO₃ pH<2
- C H₂SO₄ pH<2
- D 1+1 HCl pH<2
- E NaOH pH>12
- F ZnAc/NaOH pH>9
- G MeOH
- H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	C O M P	G R A B	Matrix	Number of Containers Submitted	Total	Sample Comments
		01	MW-8		6/16	1240						
		02	MW-81)			1335						
		03	MW-23			1200						
		04	MW-25			1015						
		05	MW-26			1110						

Sampled By (print)	How Shipped? Hand Carrier _____	Comments <i>acetic propionic pyruvic lactic butyric</i>	
Sampler's Signature	Tracking No.		
Company <i>TR</i>	1. Relinquished By _____ Date _____ Time _____	2. Relinquished By _____ Date _____ Time _____	3. Relinquished By _____ Date _____ Time _____
	1. Received By _____ Date _____ Time _____	2. Received By <i>W. Shles</i> Date <i>6/18/03</i> Time <i>1221</i>	3. Received for Lab By _____ Date _____ Time _____

Order #: P0306281
 Report Date: 07/09/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-2

Client Name: TriMatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0306281-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-8	Water	16 Jun. 03 12:40	18 Jun. 03

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
Water						
Acetic Acid	60	1.0	mg/L	AM21G	bc	7/7/03
Butyric acid	<1.0	1.0	mg/L	AM21G	bc	7/7/03
Lactic Acid	<25	25	mg/L	AM21G	bc	7/7/03
Propionic acid	1.4	1.0	mg/L	AM21G	bc	7/7/03
Pyruvic acid	<10	10	mg/L	AM21G	bc	7/7/03

Order #: P0306281
 Report Date: 07/09/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-2

Client Name: TriMatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0306281-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-8D	Water	16 Jun. 03 13:35	18 Jun. 03

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
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RiskAnalysis

Water						
Acetic Acid	90	1.0	mg/L	AM21G	bc	7/7/03
Butyric acid	4.4	1.0	mg/L	AM21G	bc	7/7/03
Lactic Acid	<25	25	mg/L	AM21G	bc	7/7/03
Propionic acid	710	1.0	mg/L	AM21G	bc	7/7/03
Pyruvic acid	<10	10	mg/L	AM21G	bc	7/7/03

Order #: P0306281
 Report Date: 07/09/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-2

Client Name: TriMatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0306281-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-23	Water	16 Jun. 03 12:00	18 Jun. 03

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
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RiskAnalysis

Water

Acetic Acid	120	1.0	mg/L	AM21G	bc	7/7/03
Butyric acid	<1.0	1.0	mg/L	AM21G	bc	7/7/03
Lactic Acid	<25	25	mg/L	AM21G	bc	7/7/03
Propionic acid	220	1.0	mg/L	AM21G	bc	7/7/03
Pyruvic acid	<10	10	mg/L	AM21G	bc	7/7/03

Order #: P0306281
 Report Date: 07/09/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-2

Client Name: TriMatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0306281-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-25	Water	16 Jun. 03 10:15	18 Jun. 03

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
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RiskAnalysis

Water						
Acetic Acid	94	1.0	mg/L	AM21G	bc	7/7/03
Butyric acid	<1.0	1.0	mg/L	AM21G	bc	7/7/03
Lactic Acid	<25	25	mg/L	AM21G	bc	7/7/03
Propionic acid	76	1.0	mg/L	AM21G	bc	7/7/03
Pyruvic acid	<10	10	mg/L	AM21G	bc	7/7/03

Order #: P0306281
 Report Date: 07/09/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-2

Client Name: TriMatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0306281-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-26	Water	16 Jun. 03 11:10	18 Jun. 03

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>RiskAnalysis</u>						
Water						
Acetic Acid	2.6	1.0	mg/L	AM21G	bc	7/7/03
Butyric acid	<1.0	1.0	mg/L	AM21G	bc	7/7/03
Lactic Acid	<25	25	mg/L	AM21G	bc	7/7/03
Propionic acid	3.4	1.0	mg/L	AM21G	bc	7/7/03
Pyruvic acid	<10	10	mg/L	AM21G	bc	7/7/03

November 19, 2003



December 2, 2003

RMT, Inc. - Madison Office
Attn: Ms. Alyssa Sellwood
744 Heartland Trail
Madison, WI 53717

RE: Tecumseh Products
Submittal Number: 36274-3
PO: 3084.27

Dear Ms. Alyssa Sellwood:

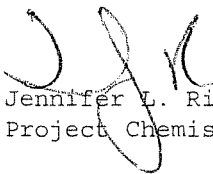
Enclosed is a copy of your laboratory report for test samples received by our laboratory on November 21, 2003.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,



Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 29.

STATEMENT OF DATA QUALIFICATIONS

Analysis: Toluene
Volatiles Purge & Trap-GC/MS
WATER USEPA-8260B

Qualification:

The matrix spike and/or matrix spike duplicate percent recovery for this sample, matrix, and compound was above the laboratory control limits. Since the result for the sample was less than the reporting limit for this compound, no qualification is necessary.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
139%	73- 130
134%	73- 130

Sample(s) Qualified: 350029 MW-8D

Analysis: 1,1-Dichloroethylene
Volatiles Purge & Trap-GC/MS
WATER USEPA-8260B

Qualification:

One of the matrix spike accuracies fell outside of the laboratory control limits, but the precision between the MS/MSD is within the control limit for this matrix and method. The corresponding sample result is not considered estimated.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
147%	65- 145
142%	65- 145

Sample(s) Qualified: 350029 MW-8D

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

STATEMENT OF DATA QUALIFICATIONS

Analysis: Chloride
Colorimetric, Automated Ferricyanide
WATER 325.2/4500-CL E

Qualification:

One of the matrix spike accuracies fell outside of the laboratory control limits, but the precision between the MS/MSD is within the control limit for this matrix and method. The corresponding sample result is not considered estimated.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
-----	-----
100%	72- 125
66%	72- 125

Sample(s) Qualified: 350029 MW-8D

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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ANALYTICAL REPORT

 Client: RMT, Inc. - Madison Office
 Project: Tecumseh Products

 Sampled: 11/19/03 @ 13:10
 Sampler: J.S.
 Received: 11/21/03 @ 08:55

 Submittal #: 36274-3
 Submittal: November 19, 2003 Samples

 Sample ID: MW-8
 Sample #: 350028
 Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Chloride	97	1.6	0.491	mg/L	11/25/03	JLB	325.2/4500-CL E

ANALYTICAL REPORT

Client: RMT, Inc. - Madison Office
 Project: Tecumseh Products

 Submittal #: 36274-3
 Submittal: November 19, 2003 Samples

 Sample ID: MW-8
 Sample #: 350028
 Matrix: Ground Water
 Unit: ug/L

Sampled: 11/19/03 @ 13:10
 Sampler: J.S.
 Received: 11/21/03 @ 08:55
 Prepared: n/a
 Prep. Method: n/a
 Analyzed: 11/28/03 by DLVV
 Anal. Method: USEPA-8260B
 QC Batch: 91300 -128
 Anal. Batch: 209960
 Percent Solids: n/a
 Dilution Factor: 5

CAS Number	Volatile Organics - 8260B TCL Compound List	Analytical Result	Reporting Limit	MDL
74-87-3	Chloromethane	ND U	1.7	0.515
74-83-9	Bromomethane	ND U	4.4	1.335
75-01-4	Vinyl Chloride	10	2.0	0.595
75-00-3	Chloroethane	46	3.0	0.900
75-09-2	Methylene Chloride	8.8	1.9	0.585
67-64-1	Acetone	28	18	5.35
75-15-0	Carbon Disulfide	ND U	0.98	0.2950
75-35-4	1,1-Dichloroethylene	ND U	2.2	0.665
75-34-3	1,1-Dichloroethane	500	0.95	0.2850
156-59-2	cis-1,2-Dichloroethene	5.0	2.3	0.695
156-60-5	trans-1,2-Dichloroethene	6.2	2.4	0.715
67-66-3	Chloroform	ND U	1.7	0.505
107-06-2	1,2-Dichloroethane	2.9	1.8	0.555
79-01-6	Trichloroethene	2.2 J	3.5	1.055
78-93-3	Methyl Ethyl Ketone	ND U	6.9	2.085
71-55-6	1,1,1-Trichloroethane	43	2.4	0.710
56-23-5	Carbon Tetrachloride	ND U	1.9	0.575
75-27-4	Dichlorobromomethane	ND U	7.2	2.155
79-34-5	1,1,2,2-Tetrachloroethane	ND U	2.5	0.740
78-87-5	1,2-Dichloropropane	4.0 J	4.2	1.275
10061-02-6	trans-1,3-Dichloropropene	ND U	1.9	0.585
124-48-1	Chlorodibromomethane	ND U	1.8	0.540
79-00-5	1,1,2-Trichloroethane	ND U	2.4	0.710
71-43-2	Benzene	ND U	0.37	0.1100
10061-01-5	cis-1,3-Dichloropropene	ND U	3.1	0.945
75-25-2	Bromoform	ND U	1.8	0.550
591-78-6	2-Hexanone	ND U	7.6	2.275
108-10-1	4-Methyl-2-Pentanone	7.0	6.1	1.820
127-18-4	Tetrachloroethene	3.8	3.2	0.965
108-88-3	Toluene	7.5	3.6	1.070
108-90-7	Chlorobenzene	ND U	2.6	0.785
100-41-4	Ethylbenzene	1.6 J	3.2	0.975
100-42-5	Styrene	ND U	2.3	0.685
1330-20-7	Xylene (Total)	25	2.7	0.800

ANALYTICAL REPORT

 Client: RMT, Inc. - Madison Office
 Project: Tecumseh Products

 Sampled: 11/19/03 @ 12:25
 Sampler: J.S.
 Received: 11/21/03 @ 08:55

 Submittal #: 36274-3
 Submittal: November 19, 2003 Samples

 Sample ID: MW-8D
 Sample #: 350029
 Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
* Chloride	135	16	4.910	mg/L	11/25/03	JLB	325.2/4500-CL E

* See attached Statement of Data Qualifications.

ANALYTICAL REPORT

 Client: RMT, Inc. - Madison Office
 Project: Tecumseh Products

 Sampled: 11/19/03 @ 12:25
 Sampler: J.S.
 Received: 11/21/03 @ 08:55
 Prepared: n/a
 Prep. Method: n/a
 Analyzed: 11/26/03 by DLVV
 Anal. Method: USEPA-8260B
 QC Batch: 91300 -225
 Anal. Batch: 209900
 Percent Solids: n/a
 Dilution Factor: 1

 Submittal #: 36274-3
 Submittal: November 19, 2003 Samples

 Sample ID: MW-8D
 Sample #: 350029
 Matrix: Ground Water
 Unit: ug/L

CAS Number	Volatile Organics - 8260B TCL Compound List	Analytical Result	Reporting Limit	MDL
74-87-3	Chloromethane	ND U	0.34	0.103
74-83-9	Bromomethane	ND U	0.89	0.267
75-01-4	Vinyl Chloride	7.5	0.40	0.119
75-00-3	Chloroethane	ND U	0.60	0.180
75-09-2	Methylene Chloride	1.3	0.39	0.117
67-64-1	Acetone	24	3.6	1.07
75-15-0	Carbon Disulfide	0.22	0.20	0.059
75-35-4	*1,1-Dichloroethylene	0.48	0.44	0.133
75-34-3	1,1-Dichloroethane	16	0.19	0.057
156-59-2	cis-1,2-Dichloroethene	22	0.46	0.139
156-60-5	trans-1,2-Dichloroethene	0.77	0.48	0.143
67-66-3	Chloroform	ND U	0.34	0.101
107-06-2	1,2-Dichloroethane	0.42	0.37	0.111
79-01-6	Trichloroethene	2.7	0.70	0.211
78-93-3	Methyl Ethyl Ketone	2.6	1.4	0.417
71-55-6	1,1,1-Trichloroethane	0.60	0.47	0.142
56-23-5	Carbon Tetrachloride	ND U	0.38	0.115
75-27-4	Dichlorobromomethane	ND U	1.4	0.431
79-34-5	1,1,2,2-Tetrachloroethane	ND U	0.49	0.148
78-87-5	1,2-Dichloropropane	ND U	0.85	0.255
10061-02-6	trans-1,3-Dichloropropene	ND U	0.39	0.117
124-48-1	Chlorodibromomethane	ND U	0.36	0.108
79-00-5	1,1,2-Trichloroethane	ND U	0.47	0.142
71-43-2	Benzene	ND U	0.073	0.022
10061-01-5	cis-1,3-Dichloropropene	ND U	0.63	0.189
75-25-2	Bromoform	ND U	0.37	0.110
591-78-6	2-Hexanone	ND U	1.5	0.455
108-10-1	4-Methyl-2-Pentanone	ND U	1.2	0.364
127-18-4	Tetrachloroethene	ND U	0.64	0.193
108-88-3	*Toluene	0.80	0.71	0.214
108-90-7	Chlorobenzene	ND U	0.52	0.157
100-41-4	Ethylbenzene	1.1	0.65	0.195
100-42-5	Styrene	ND U	0.46	0.137
1330-20-7	Xylene (Total)	0.87	0.53	0.160

* See attached Statement of Data Qualifications.

ANALYTICAL REPORT

 Client: RMT, Inc. - Madison Office
 Project: Tecumseh Products

 Sampled: 11/19/03 @ 14:20
 Sampler: J.S.
 Received: 11/21/03 @ 08:55

 Submittal #: 36274-3
 Submittal: November 19, 2003 Samples

 Sample ID: MW-23
 Sample #: 350030
 Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Chloride	98	1.6	0.491	mg/L	11/25/03	JLB	325.2/4500-CL E

ANALYTICAL REPORT

 Client: RMT, Inc. - Madison Office
 Project: Tecumseh Products

 Sampled: 11/19/03 @ 14:20
 Sampler: J.S.
 Received: 11/21/03 @ 08:55
 Prepared: n/a
 Prep. Method: n/a
 Analyzed: 11/26/03 by DLVV
 Anal. Method: USEPA-8260B
 QC Batch: 91300 -126
 Anal. Batch: 209958
 Percent Solids: n/a
 Dilution Factor: 100

 Submittal #: 36274-3
 Submittal: November 19, 2003 Samples

 Sample ID: MW-23
 Sample #: 350030
 Matrix: Ground Water
 Unit: ug/L

CAS Number	Volatile Organics - 8260B TCL Compound List	Analytical Result	Reporting Limit	MDL
74-87-3	Chloromethane	ND U	34	10.300
74-83-9	Bromomethane	ND U	89	26.700
75-01-4	Vinyl Chloride	79	40	11.900
75-00-3	Chloroethane	12000	60	18.000
75-09-2	Methylene Chloride	110	39	11.700
67-64-1	Acetone	360	360	107.000
75-15-0	Carbon Disulfide	ND U	20	5.9000
75-35-4	1,1-Dichloroethylene	ND U	44	13.300
75-34-3	1,1-Dichloroethane	2200	19	5.7000
156-59-2	cis-1,2-Dichloroethene	ND U	46	13.900
156-60-5	trans-1,2-Dichloroethene	68	48	14.300
67-66-3	Chloroform	ND U	34	10.100
107-06-2	1,2-Dichloroethane	45	37	11.100
79-01-6	Trichloroethene	29 J	70	21.100
78-93-3	Methyl Ethyl Ketone	ND U	140	41.700
71-55-6	1,1,1-Trichloroethane	ND U	47	14.200
56-23-5	Carbon Tetrachloride	ND U	38	11.500
75-27-4	Dichlorobromomethane	ND U	140	43.100
79-34-5	1,1,2,2-Tetrachloroethane	ND U	49	14.800
78-87-5	1,2-Dichloropropane	ND U	85	25.500
10061-02-6	trans-1,3-Dichloropropene	ND U	39	11.700
124-48-1	Chlorodibromomethane	ND U	36	10.800
79-00-5	1,1,2-Trichloroethane	ND U	47	14.200
71-43-2	Benzene	ND U	7.3	2.2000
10061-01-5	cis-1,3-Dichloropropene	ND U	63	18.900
75-25-2	Bromoform	ND U	37	11.000
591-78-6	2-Hexanone	ND U	150	45.500
108-10-1	4-Methyl-2-Pentanone	ND U	120	36.400
127-18-4	Tetrachloroethene	52 J	64	19.300
108-88-3	Toluene	310	71	21.400
108-90-7	Chlorobenzene	ND U	52	15.700
100-41-4	Ethylbenzene	37 J	65	19.500
100-42-5	Styrene	ND U	46	13.700
1330-20-7	Xylene (Total)	150	53	16.000

ANALYTICAL REPORT

 Client: RMT, Inc. - Madison Office
 Project: Tecumseh Products

 Sampled: 11/19/03 @ 15:15
 Sampler: J.S.
 Received: 11/21/03 @ 08:55

 Submittal #: 36274-3
 Submittal: November 19, 2003 Samples

 Sample ID: MW-24
 Sample #: 350031
 Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Chloride	133	16	4.910	mg/L	11/25/03	JLB	325.2/4500-CL E

III

ANALYTICAL REPORT

 Client: RMT, Inc. - Madison Office
 Project: Tecumseh Products

 Sampled: 11/19/03 @ 15:15
 Sampler: J.S.
 Received: 11/21/03 @ 08:55
 Prepared: n/a
 Prep. Method: n/a
 Analyzed: 11/25/03 by DLVV
 Anal. Method: USEPA-8260B
 QC Batch: 91300 -224
 Anal. Batch: 209898
 Percent Solids: n/a
 Dilution Factor: 2

 Submittal #: 36274-3
 Submittal: November 19, 2003 Samples

 Sample ID: MW-24
 Sample #: 350031
 Matrix: Ground Water
 Unit: ug/L

CAS Number	Volatile Organics - 8260B TCL Compound List	Analytical Result	Reporting Limit	MDL
74-87-3	Chloromethane	ND U	0.69	0.206
74-83-9	Bromomethane	ND U	1.8	0.534
75-01-4	Vinyl Chloride	1.1	0.79	0.238
75-00-3	Chloroethane	68	1.2	0.360
75-09-2	Methylene Chloride	1.2	0.78	0.234
67-64-1	Acetone	7.6	7.1	2.14
75-15-0	Carbon Disulfide	ND U	0.39	0.1180
75-35-4	1,1-Dichloroethylene	ND U	0.89	0.266
75-34-3	1,1-Dichloroethane	200	0.38	0.1140
156-59-2	cis-1,2-Dichloroethene	ND U	0.93	0.278
156-60-5	trans-1,2-Dichloroethene	2.8	0.95	0.286
67-66-3	Chloroform	ND U	0.67	0.202
107-06-2	1,2-Dichloroethane	2.9	0.74	0.222
79-01-6	Trichloroethene	1.5	1.4	0.422
78-93-3	Methyl Ethyl Ketone	4.4	2.8	0.834
71-55-6	1,1,1-Trichloroethane	ND U	0.95	0.284
56-23-5	Carbon Tetrachloride	ND U	0.77	0.230
75-27-4	Dichlorobromomethane	ND U	2.9	0.862
79-34-5	1,1,2,2-Tetrachloroethane	ND U	0.99	0.296
78-87-5	1,2-Dichloropropane	1.8	1.7	0.510
10061-02-6	trans-1,3-Dichloropropene	ND U	0.78	0.234
124-48-1	Chlorodibromomethane	ND U	0.72	0.216
79-00-5	1,1,2-Trichloroethane	ND U	0.95	0.284
71-43-2	Benzene	0.52	0.15	0.0440
10061-01-5	cis-1,3-Dichloropropene	ND U	1.3	0.378
75-25-2	Bromoform	ND U	0.73	0.220
591-78-6	2-Hexanone	ND U	3.0	0.910
108-10-1	4-Methyl-2-Pentanone	2.7	2.4	0.728
127-18-4	Tetrachloroethene	ND U	1.3	0.386
108-88-3	Toluene	4.9	1.4	0.428
108-90-7	Chlorobenzene	ND U	1.0	0.314
100-41-4	Ethylbenzene	5.8	1.3	0.390
100-42-5	Styrene	ND U	0.91	0.274
1330-20-7	Xylene (Total)	17	1.1	0.320

ANALYTICAL REPORT

 Client: RMT, Inc. - Madison Office
 Project: Tecumseh Products

 Sampled: 11/19/03 @ 10:20
 Sampler: J.S.
 Received: 11/21/03 @ 08:55

 Submittal #: 36274-3
 Submittal: November 19, 2003 Samples

 Sample ID: MW-25
 Sample #: 350032
 Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Chloride	93	1.6	0.491	mg/L	11/25/03	JLB	325.2/4500-CL E

ANALYTICAL REPORT

 Client: RMT, Inc. - Madison Office
 Project: Tecumseh Products

 Sampled: 11/19/03 @ 10:20
 Sampler: J.S.
 Received: 11/21/03 @ 08:55
 Prepared: n/a
 Prep. Method: n/a
 Analyzed: 11/26/03 by DLVV
 Anal. Method: USEPA-8260B
 QC Batch: 91300 -126
 Anal. Batch: 209958
 Percent Solids: n/a
 Dilution Factor: 50

 Submittal #: 36274-3
 Submittal: November 19, 2003 Samples

 Sample ID: MW-25
 Sample #: 350032
 Matrix: Ground Water
 Unit: ug/L

CAS Number	Volatile Organics - 8260B TCL Compound List	Analytical Result	Reporting Limit	MDL
74-87-3	Chloromethane	19	17	5.150
74-83-9	Bromomethane	ND U	44	13.350
75-01-4	Vinyl Chloride	170	20	5.950
75-00-3	Chloroethane	77	30	9.000
75-09-2	Methylene Chloride	30	19	5.850
67-64-1	Acetone	110 J	180	53.50
75-15-0	Carbon Disulfide	10	9.8	2.9500
75-35-4	1,1-Dichloroethylene	24	22	6.650
75-34-3	1,1-Dichloroethane	22	9.5	2.8500
156-59-2	cis-1,2-Dichloroethene	1100	23	6.950
156-60-5	trans-1,2-Dichloroethene	22 J	24	7.150
67-66-3	Chloroform	ND U	17	5.050
107-06-2	1,2-Dichloroethane	ND U	18	5.550
79-01-6	Trichloroethene	8500	35	10.550
78-93-3	Methyl Ethyl Ketone	ND U	69	20.850
71-55-6	1,1,1-Trichloroethane	ND U	24	7.100
56-23-5	Carbon Tetrachloride	ND U	19	5.750
75-27-4	Dichlorobromomethane	ND U	72	21.550
79-34-5	1,1,2,2-Tetrachloroethane	ND U	25	7.400
78-87-5	1,2-Dichloropropane	ND U	42	12.750
10061-02-6	trans-1,3-Dichloropropene	ND U	19	5.850
124-48-1	Chlorodibromomethane	ND U	18	5.400
79-00-5	1,1,2-Trichloroethane	ND U	24	7.100
71-43-2	Benzene	7.1	3.7	1.1000
10061-01-5	cis-1,3-Dichloropropene	ND U	31	9.450
75-25-2	Bromoform	ND U	18	5.500
591-78-6	2-Hexanone	ND U	76	22.750
108-10-1	4-Methyl-2-Pentanone	ND U	61	18.200
127-18-4	Tetrachloroethene	ND U	32	9.650
108-88-3	Toluene	11 J	36	10.700
108-90-7	Chlorobenzene	ND U	26	7.850
100-41-4	Ethylbenzene	ND U	32	9.750
100-42-5	Styrene	ND U	23	6.850
1330-20-7	Xylene (Total)	ND U	27	8.000

ANALYTICAL REPORT

 Client: RMT, Inc. - Madison Office
 Project: Tecumseh Products

 Sampled: 11/19/03 @ 11:15
 Sampler: J.S.
 Received: 11/21/03 @ 08:55

 Submittal #: 36274-3
 Submittal: November 19, 2003 Samples

 Sample ID: MW-26
 Sample #: 350033
 Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	MDL	Unit	Analysis Date	Chem	Reference Citation
Chloride	373	16	4.910	mg/L	11/25/03	JLB	325.2/4500-CL E

ANALYTICAL REPORT

 Client: RMT, Inc. - Madison Office
 Project: Tecumseh Products

 Sampled: 11/19/03 @ 11:15
 Sampler: J.S.
 Received: 11/21/03 @ 08:55
 Prepared: n/a
 Prep. Method: n/a
 Analyzed: 11/25/03 by DLVV
 Anal. Method: USEPA-8260B
 QC Batch: 91300 -224
 Anal. Batch: 209898
 Percent Solids: n/a
 Dilution Factor: 50

 Submittal #: 36274-3
 Submittal: November 19, 2003 Samples

 Sample ID: MW-26
 Sample #: 350033
 Matrix: Ground Water
 Unit: ug/L

CAS Number	Volatiles Organics - 8260B TCL Compound List	Analytical Result	Reporting Limit	MDL
74-87-3	Chloromethane	ND U	17	5.150
74-83-9	Bromomethane	ND U	44	13.350
75-01-4	Vinyl Chloride	4500	20	5.950
75-00-3	Chloroethane	ND U	30	9.000
75-09-2	Methylene Chloride	29	19	5.850
67-64-1	Acetone	200	180	53.50
75-15-0	Carbon Disulfide	ND U	9.8	2.9500
75-35-4	1,1-Dichloroethylene	22	22	6.650
75-34-3	1,1-Dichloroethane	680	9.5	2.8500
156-59-2	cis-1,2-Dichloroethene	6500	23	6.950
156-60-5	trans-1,2-Dichloroethene	72	24	7.150
67-66-3	Chloroform	ND U	17	5.050
107-06-2	1,2-Dichloroethane	ND U	18	5.550
79-01-6	Trichloroethene	140	35	10.550
78-93-3	Methyl Ethyl Ketone	ND U	69	20.850
71-55-6	1,1,1-Trichloroethane	27	24	7.100
56-23-5	Carbon Tetrachloride	ND U	19	5.750
75-27-4	Dichlorobromomethane	ND U	72	21.550
79-34-5	1,1,2,2-Tetrachloroethane	ND U	25	7.400
78-87-5	1,2-Dichloropropane	ND U	42	12.750
10061-02-6	trans-1,3-Dichloropropene	ND U	19	5.850
124-48-1	Chlorodibromomethane	ND U	18	5.400
79-00-5	1,1,2-Trichloroethane	ND U	24	7.100
71-43-2	Benzene	19	3.7	1.1000
10061-01-5	cis-1,3-Dichloropropene	ND U	31	9.450
75-25-2	Bromoform	ND U	18	5.500
591-78-6	2-Hexanone	ND U	76	22.750
108-10-1	4-Methyl-2-Pentanone	ND U	61	18.200
127-18-4	Tetrachloroethene	ND U	32	9.650
108-88-3	Toluene	ND U	36	10.700
108-90-7	Chlorobenzene	ND U	26	7.850
100-41-4	Ethylbenzene	ND U	32	9.750
100-42-5	Styrene	ND U	23	6.850
1330-20-7	Xylene (Total)	ND U	27	8.000

ANALYTICAL REPORT

 Client: RMT, Inc. - Madison Office
 Project: Tecumseh Products

 Sampled: 11/19/03 @ 00:00
 Sampler: J.S.
 Received: 11/21/03 @ 08:55
 Prepared: n/a
 Prep. Method: n/a
 Analyzed: 11/24/03 by DLVV
 Anal. Method: USEPA-8260B
 QC Batch: 91300 -224
 Anal. Batch: 209898
 Percent Solids: n/a
 Dilution Factor: 1

 Submittal #: 36274-3
 Submittal: November 19, 2003 Samples

 Sample ID: Trip Blank
 Sample #: 350034
 Matrix: QC Water
 Unit: ug/L

CAS Number	Volatile Organics - 8260B TCL Compound List	Analytical Result	Reporting Limit	MDL
74-87-3	Chloromethane	ND U	0.34	0.103
74-83-9	Bromomethane	ND U	0.89	0.267
75-01-4	Vinyl Chloride	ND U	0.40	0.119
75-00-3	Chloroethane	ND U	0.60	0.180
75-09-2	Methylene Chloride	0.66	0.39	0.117
67-64-1	Acetone	1.3 J	3.6	1.07
75-15-0	Carbon Disulfide	ND U	0.20	0.059
75-35-4	1,1-Dichloroethylene	ND U	0.44	0.133
75-34-3	1,1-Dichloroethane	ND U	0.19	0.057
156-59-2	cis-1,2-Dichloroethene	ND U	0.46	0.139
156-60-5	trans-1,2-Dichloroethene	ND U	0.48	0.143
67-66-3	Chloroform	ND U	0.34	0.101
107-06-2	1,2-Dichloroethane	ND U	0.37	0.111
79-01-6	Trichloroethene	ND U	0.70	0.211
78-93-3	Methyl Ethyl Ketone	ND U	1.4	0.417
71-55-6	1,1,1-Trichloroethane	ND U	0.47	0.142
56-23-5	Carbon Tetrachloride	ND U	0.38	0.115
75-27-4	Dichlorobromomethane	ND U	1.4	0.431
79-34-5	1,1,2,2-Tetrachloroethane	ND U	0.49	0.148
78-87-5	1,2-Dichloropropane	ND U	0.85	0.255
10061-02-6	trans-1,3-Dichloropropene	ND U	0.39	0.117
124-48-1	Chlorodibromomethane	ND U	0.36	0.108
79-00-5	1,1,2-Trichloroethane	ND U	0.47	0.142
71-43-2	Benzene	ND U	0.073	0.022
10061-01-5	cis-1,3-Dichloropropene	ND U	0.63	0.189
75-25-2	Bromoform	ND U	0.37	0.110
591-78-6	2-Hexanone	ND U	1.5	0.455
108-10-1	4-Methyl-2-Pentanone	ND U	1.2	0.364
127-18-4	Tetrachloroethene	ND U	0.64	0.193
108-88-3	Toluene	5.4	0.71	0.214
108-90-7	Chlorobenzene	ND U	0.52	0.157
100-41-4	Ethylbenzene	ND U	0.65	0.195
100-42-5	Styrene	ND U	0.46	0.137
1330-20-7	Xylene (Total)	ND U	0.53	0.160

QUALITY CONTROL REPORT

Parameter: **Chloride**
 Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
 Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/03	209881	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/03	209881	JLB	44	43	98	97-108

Matrix Spike Recovery

Sample Number	Test Date	QC Batch #	Analyst	Sample Conc	Spike Qty	Sample +Spike	Recovery	QC Limits
350029	11/25/03	91280	JLB	135	50	185	100	72-125
350029	11/25/03	91280	JLB	135	50	168	66	72-125

Matrix Spike Duplicate

Sample Number	Test Date	QC Batch #	Analyst	Sample+Spike Conc #1	Sample+Spike Conc #2	RPD	QC Limits
350029	11/25/03	91280	JLB	185	168	10	0- 20

QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
 Method: Volatiles Purge & Trap-GC/MS
 Analyst: Diane L. VanMale
 Units: ug/L
 QC Batch: 91300-224

Test Date: 11/24/03

Parameter	Blank Concentration	Quantitation Limit
Chloromethane	ND U	1.0
Vinyl Chloride	ND U	1.0
Bromomethane	ND U	1.0
Chloroethane	ND U	1.0
1,1-Dichloroethylene	ND U	1.0
Carbon Disulfide	ND U	5.0
Acetone	6.07	50
Methylene Chloride	0.350	1.0
trans-1,2-Dichloroethene	ND U	1.0
1,1-Dichloroethane	ND U	1.0
cis-1,2-Dichloroethene	ND U	1.0
Methyl Ethyl Ketone	ND U	50
Chloroform	ND U	1.0
1,1,1-Trichloroethane	ND U	1.0
Carbon Tetrachloride	ND U	1.0
Benzene	ND U	1.0
1,2-Dichloroethane	ND U	1.0
Trichloroethene	ND U	1.0
1,2-Dichloropropane	ND U	1.0
Dichlorobromomethane	ND U	1.0
cis-1,3-Dichloropropene	ND U	1.0
4-Methyl-2-Pentanone	ND U	50
Toluene	ND U	1.0
trans-1,3-Dichloropropene	ND U	1.0
1,1,2-Trichloroethane	ND U	1.0
Tetrachloroethene	ND U	1.0
2-Hexanone	ND U	50
Chlorodibromomethane	ND U	1.0
Chlorobenzene	ND U	1.0
1,1,2,2-Tetrachloroethane	ND U	1.0
Ethylbenzene	ND U	1.0
Xylene (Total)	ND U	3.0
Styrene	ND U	1.0
Bromoform	ND U	1.0

QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
 Method: Volatiles Purge & Trap-GC/MS
 Analyst: Diane L. VanMale
 Units: ug/L
 QC Batch: 91300-126

Test Date: 11/26/03

Parameter	Blank Concentration	Quantitation Limit
Chloromethane	ND U	1.0
Vinyl Chloride	ND U	1.0
Bromomethane	ND U	1.0
Chloroethane	ND U	1.0
1,1-Dichloroethylene	ND U	1.0
Carbon Disulfide	ND U	5.0
Acetone	1.40	50
Methylene Chloride	0.850	5.0
trans-1,2-Dichloroethene	ND U	1.0
1,1-Dichloroethane	ND U	1.0
cis-1,2-Dichloroethene	ND U	1.0
Methyl Ethyl Ketone	0.750	50
Chloroform	ND U	1.0
1,1,1-Trichloroethane	ND U	1.0
Carbon Tetrachloride	ND U	1.0
Benzene	ND U	1.0
1,2-Dichloroethane	ND U	1.0
Trichloroethene	ND U	1.0
1,2-Dichloropropane	ND U	1.0
Dichlorobromomethane	ND U	1.0
cis-1,3-Dichloropropene	ND U	1.0
4-Methyl-2-Pentanone	ND U	50
Toluene	ND U	1.0
trans-1,3-Dichloropropene	ND U	1.0
1,1,2-Trichloroethane	ND U	1.0
Tetrachloroethene	ND U	1.0
2-Hexanone	ND U	50
Chlorodibromomethane	ND U	1.0
Chlorobenzene	ND U	1.0
1,1,2,2-Tetrachloroethane	ND U	1.0
Ethylbenzene	ND U	1.0
Xylene (Total)	ND U	3.0
Styrene	ND U	1.0
Bromoform	ND U	1.0

QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
 Method: Volatiles Purge & Trap-GC/MS
 Analyst: Diane L. VanMale
 Units: ug/L
 QC Batch: 91300-128

Test Date: 11/28/03

Parameter	Blank Concentration	Quantitation Limit
Chloromethane	ND U	1.0
Vinyl Chloride	ND U	1.0
Bromomethane	ND U	1.0
Chloroethane	ND U	1.0
1,1-Dichloroethylene	ND U	1.0
Carbon Disulfide	ND U	5.0
Acetone	1.10	50
Methylene Chloride	1.20	5.0
trans-1,2-Dichloroethene	ND U	1.0
1,1-Dichloroethane	ND U	1.0
cis-1,2-Dichloroethene	ND U	1.0
Methyl Ethyl Ketone	ND U	50
Chloroform	ND U	1.0
1,1,1-Trichloroethane	ND U	1.0
Carbon Tetrachloride	ND U	1.0
Benzene	ND U	1.0
1,2-Dichloroethane	ND U	1.0
Trichloroethene	ND U	1.0
1,2-Dichloropropane	ND U	1.0
Dichlorobromomethane	ND U	1.0
cis-1,3-Dichloropropene	ND U	1.0
4-Methyl-2-Pentanone	ND U	50
Toluene	ND U	1.0
trans-1,3-Dichloropropene	ND U	1.0
1,1,2-Trichloroethane	ND U	1.0
Tetrachloroethene	ND U	1.0
2-Hexanone	ND U	50
Chlorodibromomethane	ND U	1.0
Chlorobenzene	ND U	1.0
1,1,2,2-Tetrachloroethane	ND U	1.0
Ethylbenzene	ND U	1.0
Xylene (Total)	ND U	3.0
Styrene	ND U	1.0
Bromoform	ND U	1.0

QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
 Method: Volatiles Purge & Trap-GC/MS
 Analyst: Diane L. VanMale
 Units: ug/L
 QC Batch: 91300-225

Test Date: 11/25/03

Parameter	Blank Concentration	Quantitation Limit
	-----	-----
Chloromethane	ND U	1.0
Vinyl Chloride	ND U	1.0
Bromomethane	ND U	1.0
Chloroethane	ND U	1.0
1,1-Dichloroethylene	ND U	1.0
Carbon Disulfide	ND U	1.0
Acetone	7.00	10
Methylene Chloride	0.660	1.0
trans-1,2-Dichloroethene	ND U	1.0
1,1-Dichloroethane	ND U	1.0
cis-1,2-Dichloroethene	ND U	1.0
Methyl Ethyl Ketone	ND U	10
Chloroform	ND U	1.0
1,1,1-Trichloroethane	ND U	1.0
Carbon Tetrachloride	ND U	1.0
Benzene	ND U	1.0
1,2-Dichloroethane	ND U	1.0
Trichloroethene	ND U	1.0
1,2-Dichloropropane	ND U	1.0
Dichlorobromomethane	ND U	1.0
cis-1,3-Dichloropropene	ND U	1.0
4-Methyl-2-Pentanone	ND U	10
Toluene	ND U	1.0
trans-1,3-Dichloropropene	ND U	1.0
1,1,2-Trichloroethane	ND U	1.0
Tetrachloroethene	ND U	1.0
2-Hexanone	ND U	10
Chlorodibromomethane	ND U	1.0
Chlorobenzene	ND U	1.0
1,1,2,2-Tetrachloroethane	ND U	1.0
Ethylbenzene	ND U	1.0
Xylene (Total)	ND U	3.0
Styrene	ND U	1.0
Bromoform	ND U	1.0

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Volatile Organics USEPA-8260B Scan
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 11/24/03
Units: ug/L
QC Batch: 91300-224

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	44.2	111	79 - 120
Chlorobenzene	40.0	43.1	108	79 - 122
1,1-Dichloroethylene	40.0	46.8	117	72 - 126
Toluene	40.0	41.8	105	79 - 126
Trichloroethene	40.0	39.4	99	71 - 127

QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Volatile Organics USEPA-8260B Scan
 Method: Volatiles Purge & Trap-GC/MS
 Analyst: Diane L. VanMale Test Date: 11/25/03
 Units: ug/L
 QC Batch: 91300-225

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	41.7	104	79 - 120
Chlorobenzene	40.0	41.4	104	79 - 122
1,1-Dichloroethylene	40.0	40.8	102	72 - 126
Toluene	40.0	38.7	97	79 - 126
Trichloroethene	40.0	37.1	93	71 - 127

QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Volatile Organics USEPA-8260B Scan
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 11/26/03
Units: ug/L
QC Batch: 91300-126

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	41.5	104	79 - 120
Chlorobenzene	40.0	42.4	106	79 - 122
1,1-Dichloroethylene	40.0	40.3	101	72 - 126
Toluene	40.0	41.1	103	79 - 126
Trichloroethene	40.0	37.3	93	71 - 127

QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Volatile Organics USEPA-8260B Scan
 Method: Volatiles Purge & Trap-GC/MS
 Analyst: Diane L. VanMale Test Date: 11/28/03
 Units: ug/L
 QC Batch: 91300-128

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	40.2	101	79 - 120
Chlorobenzene	40.0	42.6	107	79 - 122
1,1-Dichloroethylene	40.0	42.1	105	72 - 126
Toluene	40.0	40.5	101	79 - 126
Trichloroethene	40.0	34.8	87	71 - 127

QUALITY CONTROL REPORT

MATRIX SPIKE RECOVERY

Fraction: Volatile Organics USEPA-8260B Scan
 Method: Volatiles Purge & Trap-GC/MS USEPA-8260B WATER
 Analyst: Diane L. VanMale Test Date: 11/25/03
 Sample No: 350029
 Units: ug/L
 QC Batch: 91300-224

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
Benzene	ND U	40.0	50.0	125	74 - 127
Chlorobenzene	ND U	40.0	47.1	118	71 - 130
1,1-Dichloroethylene	0.48	40.0	59.2	147	65 - 145
Toluene	0.80	40.0	56.4	139	73 - 130
Trichloroethene	2.7	40.0	48.3	114	64 - 140

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QUALITY CONTROL REPORT

MATRIX SPIKE RECOVERY

Fraction: Volatile Organics USEPA-8260B Scan
 Method: Volatiles Purge & Trap-GC/MS USEPA-8260B WATER
 Analyst: Diane L. VanMale Test Date: 11/25/03
 Sample No: 350029
 Units: ug/L
 QC Batch: 91300-224

Parameter	Sample Conc	Spike Quantity	Sample +Spike	Spike % Rec	Control Limits
Benzene	ND U	40.0	48.4	121	74 - 127
Chlorobenzene	ND U	40.0	47.1	118	71 - 130
1,1-Dichloroethylene	0.48	40.0	57.3	142	65 - 145
Toluene	0.80	40.0	54.5	134	73 - 130
Trichloroethene	2.7	40.0	48.3	114	64 - 140

QUALITY CONTROL REPORT

MATRIX SPIKE DUPLICATE

Fraction: Volatile Organics USEPA-8260B Scan
 Method: Volatiles Purge & Trap-GC/MS USEPA-8260B WATER
 Analyst: Diane L. VanMale Test Date: 11/25/03
 Sample No: 350029
 Units: ug/L
 QC Batch: 91300-224

Parameter	Sample+Spike Conc #1	Sample+Spike Conc #2	Relative % Diff.	Control Limits
Benzene	50.0	48.4	3	0 - 16
Chlorobenzene	47.1	47.1	0	0 - 16
1,1-Dichloroethylene	59.2	57.3	3	0 - 20
Toluene	56.4	54.5	3	0 - 17
Trichloroethene	48.3	48.3	0	0 - 18

QUALITY CONTROL REPORT
 SURROGATE RECOVERIES

Method: Volatiles Purge & Trap-GC/MS

USEPA-8260B

WATER

Surrogate Compound List

 SUR-1: Dibromofluoromethane-sur SUR-4: 4-Bromofluorobenzene-sur
 SUR-2: d4-1,2-Dichloroethane-sur
 SUR-3: d8-Toluene-sur

% R = Percent Recovery

Compounds:	SUR-1	SUR-2	SUR-3	SUR-4	
Control Limits:	79-124	75-128	87-113	70-121	
Sample # / ID	Batch	% R	% R	% R	% R
-----	-----	---	---	---	---
MPB-01	91300-224	100	105	98	87
MPB-01	91300-225	105	106	102	89
MPB-01	91300-126	103	106	105	88
MPB-01	91300-128	101	103	106	85
LFB-01	91300-224	102	104	104	102
LFB-01	91300-225	100	104	103	100
LFB-01	91300-126	103	103	104	104
LFB-01	91300-128	104	102	107	103
350029SPK	91300-224	104	99	104	103
350029SPK	91300-224	101	99	105	103
350028	91300-128	102	105	101	94
350029	91300-225	102	103	111	77
350030	91300-126	101	104	100	87
350031	91300-224	101	102	104	76
350032	91300-126	103	104	102	87
350033	91300-224	104	106	113	88
350034	91300-224	101	103	103	91



5560 Corporate Exchange Court SE Grand Rapids, MI 49512
 Phone (616) 975-4500 Fax (616) 942-7463
 www.trimatrixlabs.com

Chain of Custody Record

COC No. 95805

Page ___ of ___

For Lab Use Only

Cart 3
 VOA Rack/Tray (PRES) 551-W/553-B
 Receipt Log No. 43-8
 Project Chemist JR
 Laboratory Project No. 36274-3

Client Name RMT Project Name TPC
 Address 744 Heartland Trail Client Project No. / P.O. No. 3084.27
Madison, WI 53717 Invoice To Client
 Other (comments)
 Phone 608-831-4444 Contact/Report To Alyssa Sellwood
 Fax 608-831-3334

Analyses Requested

D A A
CDOCs Chloride VFA's *

- ← PRESERVATIVES
- A NONE pH-7
 - B HNO₃ pH<2
 - C H₂SO₄ pH<2
 - D 1+1 HCl pH<2
 - E NaOH pH>12
 - F ZnAc/NaOH pH>9
 - G MeOH
 - H Other (note below)

Container Type (corresponds to Container Packing List)

1 3 0

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	C O M P	G R A B	Matrix	Number of Containers Submitted					Total	Sample Comments
<u>01</u>	<u>WG</u>	<u>350028</u>	<u>MW-8</u>	<u>7M082</u>	<u>11/19/03</u>	<u>1310</u>			<u>W</u>	<u>2</u>	<u>1</u>	<u>2</u>		<u>5</u>	<u>Quick</u>	
		<u>350029</u>	<u>MW-8D</u>		<u>11/19/03</u>	<u>1225</u>			<u>W</u>	<u>2</u>	<u>1</u>	<u>2</u>		<u>5</u>	<u>Turn!</u>	
		<u>350030</u>	<u>MW-23</u>		<u>11/19/03</u>	<u>1420</u>			<u>W</u>	<u>2</u>	<u>1</u>	<u>2</u>		<u>5</u>	<u>"</u>	
		<u>350031</u>	<u>MW-24</u>		<u>11/19/03</u>	<u>1515</u>			<u>W</u>	<u>2</u>	<u>1</u>	<u>2</u>		<u>5</u>	<u>"</u>	
		<u>350032</u>	<u>MW-25</u>		<u>11/19/03</u>	<u>1020</u>			<u>W</u>	<u>2</u>	<u>1</u>	<u>2</u>		<u>5</u>	<u>"</u>	
		<u>350033</u>	<u>MW-26</u>		<u>11/19/03</u>	<u>1115</u>			<u>W</u>	<u>2</u>	<u>1</u>	<u>2</u>		<u>5</u>	<u>"</u>	
<u>08</u>	<u>WG</u>	<u>350034</u>	<u>Trip Blank</u>	<u>Y</u>	<u>-</u>	<u>-</u>			<u>W</u>	<u>1</u>				<u>1</u>		

Sampled By (print) Jason Schephauster
 Sampler's Signature [Signature]
 Company RMT
131 744 Heartland Trail
Madison, WI 53717

How Shipped? Hand Carrier Fed Ex
 Tracking No. _____
 1. Relinquished By [Signature] Date 11/19/03 Time 1730
 1. Received By To FedEx Date _____ Time _____

Comments * VFA's to be analyzed for are: Acetic, Propionic, Pyruvic, Lactic, Butyric
- Please use lowest possible quantitation limits.
- 5 Day Quick Turn on all pts. for CDOCs + Chloride!
 2. Relinquished By _____ Date _____ Time _____
 2. Received By _____ Date _____ Time _____
 3. Relinquished By _____ Date _____ Time _____
 3. Received For Lab By [Signature] Date 11/19/03 Time 8:55

MICROSEEPS



Client Name: TriMatrix
Contact: Jennifer Rice
Address: 5560 Corporate Exchange C

Grand Rapids, MI 49512

Page 1 of 7

Order #: P0311516
Report Date: 12/05/03

Client Proj Name: Tecumseh Products
Client Proj #: 36274-3

Laboratory Results

Total pages in data package: 8

Lab Sample # Client Sample ID

P0311516-01	MW-8
P0311516-02	MW-8D
P0311516-03	MW-23
P0311516-04	MW-24
P0311516-05	MW-25
P0311516-06	MW-26

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

Approved By: *Jennifer Rice*

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.

NOTES:

Order #: P0311516
 Report Date: 12/05/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-3

Client Name: TriMatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0311516-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-8	Water	19 Nov. 03 13:10	26 Nov. 03

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
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SemiVolatiles

Water

Acetic Acid	4.5	1	mg/L	AM21G	jb	12/4/03
Butyric acid	<1	1	mg/L	AM21G	jb	12/4/03
Lactic Acid	<25	25	mg/L	AM21G	jb	12/4/03
Propionic acid	<1	1	mg/L	AM21G	jb	12/4/03
Pyruvic acid	<10	10	mg/L	AM21G	jb	12/4/03

Order #: P0311516
 Report Date: 12/05/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-3

Client Name: TriMatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0311516-02

<u>Sample Description</u>	<u>Matrix</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
MW-8D	Water		19 Nov. 03 12:25		26 Nov. 03	
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>SemiVolatiles</u>						
Water						
Acetic Acid	56	1	mg/L	AM21G	jb	12/4/03
Butyric acid	<1	1	mg/L	AM21G	jb	12/4/03
Lactic Acid	<25	25	mg/L	AM21G	jb	12/4/03
Propionic acid	35	1	mg/L	AM21G	jb	12/4/03
Pyruvic acid	<10	10	mg/L	AM21G	jb	12/4/03

Order #: P0311516
 Report Date: 12/05/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-3

Client Name: TriMatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0311516-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-23	Water	19 Nov. 03 14:20	26 Nov. 03

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
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SemiVolatiles

Water

Acetic Acid	130	1	mg/L	AM21G	jb	12/4/03
Butyric acid	3.4	1	mg/L	AM21G	jb	12/4/03
Lactic Acid	<25	25	mg/L	AM21G	jb	12/4/03
Propionic acid	47	1	mg/L	AM21G	jb	12/4/03
Pyruvic acid	<10	10	mg/L	AM21G	jb	12/4/03

Order #: P0311516
 Report Date: 12/05/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-3

Client Name: TriMatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0311516-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-24	Water	19 Nov. 03 15:15	26 Nov. 03

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
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SemiVolatiles

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
Water						
Acetic Acid	1.2	1	mg/L	AM21G	jb	12/4/03
Butyric acid	<1	1	mg/L	AM21G	jb	12/4/03
Lactic Acid	<25	25	mg/L	AM21G	jb	12/4/03
Propionic acid	<1	1	mg/L	AM21G	jb	12/4/03
Pyruvic acid	<10	10	mg/L	AM21G	jb	12/4/03

Order #: P0311516
 Report Date: 12/05/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-3

Client Name: TriMatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0311516-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>			
MW-25	Water	19 Nov. 03 10:20	26 Nov. 03			
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
<u>SemiVolatiles</u>						
Water						
Acetic Acid	<1	1	mg/L	AM21G	jb	12/4/03
Butyric acid	<1	1	mg/L	AM21G	jb	12/4/03
Lactic Acid	<25	25	mg/L	AM21G	jb	12/4/03
Propionic acid	<1	1	mg/L	AM21G	jb	12/4/03
Pyruvic acid	<10	10	mg/L	AM21G	jb	12/4/03

Order #: P0311516
 Report Date: 12/05/03
 Client Proj Name: Tecumseh Products
 Client Proj #: 36274-3

Client Name: TriMatrix
 Contact: Jennifer Rice
 Address: 5560 Corporate Exchange C
 Grand Rapids, MI 49512

Lab Sample #: P0311516-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
MW-26	Water	19 Nov. 03 11:15	26 Nov. 03

<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analyst</u>	<u>Analysis Date</u>
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SemiVolatiles

Water						
Acetic Acid	<1	1	mg/L	AM21G	jb	12/4/03
Butyric acid	<1	1	mg/L	AM21G	jb	12/4/03
Lactic Acid	<25	25	mg/L	AM21G	jb	12/4/03
Propionic acid	<1	1	mg/L	AM21G	jb	12/4/03
Pyruvic acid	<10	10	mg/L	AM21G	jb	12/4/03

140/140

Attachment C
Soil Laboratory Report

Analytical Report Number: 835598

Client : RMT - MADISON

Project Name : TECUMSEH PRODUCTS

Project Number : 3084.27

Lab Sample Number	Field ID	Matrix	Collection Date
835598-001	GP-1	SOIL	06/13/03
835598-002	GP-2	SOIL	06/13/03
835598-003	METHANOL BLANK	METHA	06/13/03

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

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. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

Tod Noltmeyer
Approval Signature

6/24/03
Date

Analytical Report Number: 835598

Client : RMT - MADISON
Project Name : TECUMSEH PRODUCTS
Project Number : 3084.27
Field ID : GP-1

Matrix Type : SOIL
Collection Date : 06/13/03
Report Date : 06/23/03
Lab Sample Number : 835598-001

VOLATILES - SPECIAL LIST

Prep Date: 06/19/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Analysis Date	Prep Method	Analysis Method
1,1,1-Trichloroethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Benzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Bromobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Bromodichloromethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Chlorobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Chloroethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Chloroform	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Chloromethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Ethylbenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Isopropylbenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Methylene Chloride	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Naphthalene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
n-Butylbenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
n-Propylbenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B

Analytical Report Number: 835598

Client : RMT - MADISON
Project Name : TECUMSEH PRODUCTS
Project Number : 3084.27
Field ID : GP-1

Matrix Type : SOIL
Collection Date : 06/13/03
Report Date : 06/23/03
Lab Sample Number : 835598-001

VOLATILES - SPECIAL LIST

Prep Date: 06/19/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Analysis Date	Prep Method	Analysis Method
sec-Butylbenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Tetrachloroethene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Toluene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Trichloroethene	820	28	67		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Vinyl Chloride	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Xylene, o	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Xylenes, m + p	< 50	50	120		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B

Analytical Report Number: 835598

Client : RMT - MADISON
Project Name : TECUMSEH PRODUCTS
Project Number : 3084.27
Field ID : GP-2

Matrix Type : SOIL
Collection Date : 06/13/03
Report Date : 06/23/03
Lab Sample Number : 835598-002

VOLATILES - SPECIAL LIST

Prep Date: 06/19/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Analysis Date	Prep Method	Analysis Method
1,1,1-Trichloroethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,1-Dichloroethane	80	30	72		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	120	30	72		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	46	30	72		50	ug/kg	Q	06/19/03	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Benzene	420	30	72		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Bromobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Bromodichloromethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Chlorobenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Chloroethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Chloroform	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Chloromethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	2300	30	72		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Ethylbenzene	71	30	72		50	ug/kg	Q	06/19/03	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Isopropylbenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Methylene Chloride	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Naphthalene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
n-Butylbenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
n-Propylbenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B

Analytical Report Number: 835598

Client : RMT - MADISON
 Project Name : TECUMSEH PRODUCTS
 Project Number : 3084.27
 Field ID : GP-2

Matrix Type : SOIL
 Collection Date : 06/13/03
 Report Date : 06/23/03
 Lab Sample Number : 835598-002

VOLATILES - SPECIAL LIST

Prep Date: 06/19/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Analysis Date	Prep Method	Analysis Method
sec-Butylbenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Tetrachloroethene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Toluene	< 25	25	60		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	33	30	72		50	ug/kg	Q	06/19/03	SW846 5030B	SW846 8260B
Trichloroethene	12000	30	72		50	ug/kg		06/19/03	SW846 5030B	SW846 8260B
Vinyl Chloride	70	30	72		50	ug/kg	Q	06/19/03	SW846 5030B	SW846 8260B
Xylene, o	63	30	72		50	ug/kg	Q	06/19/03	SW846 5030B	SW846 8260B
Xylenes, m + p	110	60	140		50	ug/kg	Q	06/19/03	SW846 5030B	SW846 8260B

Analytical Report Number: 835598

Client : RMT - MADISON
 Project Name : TECUMSEH PRODUCTS
 Project Number : 3084.27
 Field ID : METHANOL BLANK

Matrix Type : METHANOL
 Collection Date : 06/13/03
 Report Date : 06/23/03
 Lab Sample Number : 835598-003

VOLATILES - SPECIAL LIST

Prep Date: 06/19/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Analysis Date	Prep Method	Analysis Method
1,1,1-Trichloroethane	< 19	19	46		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 21	21	50		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 24	24	58		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 19	19	46		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 22	22	53		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 17	17	41		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 16	16	40		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 12	12	30		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 12	12	29		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 18	18	43		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 12	12	30		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 21	21	50		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 22	22	52		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 12	12	29		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 16	16	40		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 12	12	29		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 18	18	42		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 16	16	40		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 18	18	43		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 23	23	55		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Benzene	< 14	14	35		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Bromobenzene	< 14	14	35		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Bromodichloromethane	< 16	16	38		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 16	16	40		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Chlorobenzene	< 9.5	9.5	23		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 20	20	47		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Chloroethane	< 25	25	60		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Chloroform	< 18	18	44		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Chloromethane	< 20	20	49		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 20	20	48		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 21	21	50		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 9.5	9.5	23		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Ethylbenzene	< 15	15	36		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 19	19	46		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 23	23	55		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Isopropylbenzene	< 11	11	26		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Methylene Chloride	< 14	14	35		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 15	15	36		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Naphthalene	< 15	15	36		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
n-Butylbenzene	< 12	12	29		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
n-Propylbenzene	< 5.5	5.5	13		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 12	12	30		50	ug/L		06/19/03	SW846 5030B	SW846 8260B

Analytical Report Number: 835598

Client : RMT - MADISON

Matrix Type : METHANOL

Project Name : TECUMSEH PRODUCTS

Collection Date : 06/13/03

Project Number : 3084.27

Report Date : 06/23/03

Field ID : METHANOL BLANK

Lab Sample Number : 835598-003

VOLATILES - SPECIAL LIST

Prep Date: 06/19/03

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Analysis Date	Prep Method	Analysis Method
sec-Butylbenzene	< 8.0	8.0	19		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
tert-Butylbenzene	< 12	12	28		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Tetrachloroethene	< 16	16	40		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Toluene	< 8.5	8.5	20		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 14	14	35		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Trichloroethene	< 20	20	48		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Vinyl Chloride	< 14	14	35		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Xylene, o	< 15	15	36		50	ug/L		06/19/03	SW846 5030B	SW846 8260B
Xylenes, m + p	< 22	22	52		50	ug/L		06/19/03	SW846 5030B	SW846 8260B

En Chem Inc.

Analysis Summary by Laboratory

1241 Bellevue Street
Green Bay, WI 54302

1090 Kennedy Avenue
Kimberly, WI 54136

Test Group Name	835598-001	835598-002	835598-003
VOLATILES - SPECIAL LIST	G	G	G

WISCONSIN Certification	
G = En Chem Green Bay	405132750 / DATCP: 105 000444
K = En Chem Kimberly	445134030
S = Subcontracted Analysis	

Organic Data Qualifiers

- B 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 Elevated detection limit.
- D Analyte value from diluted analysis, or surrogate result not applicable due to sample dilution.
- E Analyte concentration exceeds calibration range.
- F Surrogate results outside control criteria.
- H Extraction or analysis performed past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection limit may be elevated due to the presence of an unrequested analyte.
- N Spiked sample recovery not within control limits.
- P The relative percent difference between the two columns for detected concentrations was greater than 40%.
- Q 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 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 The analyte was not detected above the reporting limit.
- W Sample received with headspace.
- X See Sample Narrative.
- & Laboratory Control Spike recovery not within control limits.
- * Duplicate analyses not within control limits.

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