January 26, 1995

Ms. Pamela Mylotta
Hydrogeologist, Environmental Repair Program
Wisconsin Department of Natural Resources
4041 North Richards Street
Milwaukee, WI 53212

RE:

Tecumseh Products Company

Grafton, Wisconsin

Dear Pam:

On behalf of Tecumseh Products Company, we are enclosing two copies of the second interim status report on the investigation of the extent of chlorinated volatile organic compounds (VOCs) in groundwater at the above-referenced facility. The scope of this phase of the NR 700 investigation being conducted at the Grafton plant was described in a workplan dated October 1994 and approved in a letter dated November 3, 1994.

The content of the enclosed report contains two variances from the activities that were described in the workplan. As you know, when Tecumseh discovered in early December 1994 that there were six residential wells in the Town of Grafton (the plant is located in the Village) that are directly downgradient of the plant, Tecumseh and RMT collected and analyzed two rounds of samples from these wells. The results of the laboratory analyses indicated that the samples met federal and state standards for groundwater quality. The results, which were previously reported to the WDNR and the residents, are also included in the enclosed report.

In addition, the report addresses the subject of potential on-site source area investigations in a more expanded manner than was described in the workplan. Tecumseh has prepared a letter of response to Scott Ferguson's December 22, 1994, letter requiring additional information in support of the previous hazardous waste determination for the soil and groundwater that has been contaminated with chlorinated VOCs. Because the response to this requirement involves discussion of potential on-site sources, we have addressed the same issue in the report by referencing this letter, a copy of which is included in an appendix to the report. The content of this letter also provides the basis for many of the recommendations for future work that are contained in Section 4 of the report.

We look forward to meeting with you and Scott on February 8 (at 9:30 am) to discuss the current status and future plans for this site. In the meantime, please feel free to call either Kerry DeKeyser at (414) 898-5711, or me if you have any questions.

Sincerely,

Linda E. Hicken, P.E.

Linda Hicken

Senior Project Manager

gig/Enclosures

Kerry DeKeyser, Tecumseh Products

e: S. Ferguson - WONRISED - HW

RMT, INC. — MADISON, WI
744 HEARTLAND TRAIL = 53717-1934
P.O. Box 8923 = 53708-8923
608/831-4444 = 608/831-3334 FAX

FID 246009170

INTERIM STATUS REPORT
ON THE PHASE II
SUBSURFACE INVESTIGATIVE ACTIVITIES
AT THE TECUMSEH PRODUCTS COMPANY
GRAFTON OPERATION

PREPARED FOR TECUMSEH PRODUCTS COMPANY GRAFTON, WISCONSIN

> PREPARED BY RMT, INC. MADISON, WISCONSIN



FID 246009170

INTERIM STATUS REPORT ON THE PHASE II SUBSURFACE INVESTIGATIVE ACTIVITIES AT THE TECUMSEH PRODUCTS COMPANY GRAFTON OPERATION

PREPARED FOR
TECUMSEH PRODUCTS COMPANY
GRAFTON, WISCONSIN

PREPARED BY RMT, INC. MADISON, WISCONSIN

JANUARY 1995

Lisa S. Drzewiecki
Project Hydrogeologist

Bernd W. Rehm

Senior Consulting Hydrogeologist

Linda E. Hicken, P.E. Senior Project Manager

> RMT, INC. — MADISON, WI 744 HEARTLAND TRAIL = 53717-1934 P.O. Box 8923 = 53708-8923 608/831-4444 = 608/831-3334 FAX



TABLE OF CONTENTS

Section	<u>1</u>		Page
1.	INTRO	DUCTION	. 1
2.	SUMM	ARY OF THE SECOND PHASE OF INVESTIGATIVE ACTIVITIES	. 3
3.	FINDIN	GS AND CONCLUSIONS	. 6
4.	RECOM 4.1 4.2 4.3 4.4 4.5	Upgradient Property Line Source Area Investigation Downgradient Groundwater VOC Extent Investigation Potential On-Site Source Investigations Documentation Estimated Costs to Implement the Recommendations	. 11 . 11 . 12
5.	REFER	ENCES CITED	. 14
List of	<u>Tables</u>		
Table 1 Table 2 Table 3 Table 4 Table 5	? }	Groundwater Elevation Data	. 16 . 18
List of	Figures		
Figure :	2 3 4 5 6	Site Location Map Site Features Map with Groundwater Chemistry Results Water Table Map Cross Section A-A' with Groundwater Chemistry Results Cross Section B-B' Bedrock Potentiometric Surface Map Residential Wells in the Vicinity of the Grafton Plant	. 23 . 24 . 25 . 26
List of	Append	<u>lices</u>	
Append Append Append Append Append	dix B dix C dix D	Boring Logs and Borehole Abandonment Documentation Well Construction and Development Documentation Results of Laboratory Analysis of Groundwater - Monitoring Wells Results of Laboratory Analysis of Groundwater - Residential Wells Identification of Potential Source Areas	

Section 1 INTRODUCTION

The Tecumseh Products Company operates a manufacturing facility located at 900 North Street in Grafton, Wisconsin (see Figure 1). During the 1960s, 1970s, and 1980s, the Grafton facility machined and assembled two-cycle gasoline engines. Vapor degreasing of parts and engines and painting of assembled engines were part of the manufacturing process. The process equipment associated with the engine assembly operations included underground storage tanks for the gasoline used in engine testing.

During the period of December 1988 through June 1992, eight underground storage tanks (USTs) were removed at the site. These tanks contained gasoline (leaded and unleaded), kerosene, Stoddard solvent, and motor oil. Evidence of releases were noted. During the course of investigating the extent of the release associated with the Stoddard solvent tank, chlorinated volatile organic compounds (VOCs) were detected in the soil and groundwater.

RMT, Inc. (RMT), was hired to conduct additional investigative activities at the Grafton facility to better define hydrogeologic conditions beneath the facility, to evaluate the direction of groundwater flow, and to define the extent of chlorinated solvents identified in groundwater during the previous investigations. The first phase of this investigation was conducted in August 1994 and included the installation of eight soil borings, as outlined in the workplan submitted to the WDNR in August 1994 (RMT, Inc., 1994a). Two of the soil borings were converted to water table wells, and three of the soil borings were converted to piezometers. The findings and conclusions of this initial phase of investigation are summarized in an interim status report that was submitted to the WDNR on October 10, 1994 (RMT, Inc., 1994b).

The second phase of the investigation was conducted in November and December 1994, and included the installation of nine shallow soil borings, two water table wells in the unconsolidated soil, and five monitoring wells in the bedrock, as outlined in the workplan submitted to the WDNR in October 1994 (RMT, Inc., 1994c). Two of the shallow soil borings and two of the bedrock monitoring wells were installed off-site within Village right-of-ways to assess the horizontal extent of VOCs in groundwater in the soil and bedrock to the east of the facility. The locations of the soil borings and monitoring wells are shown on Figures 2 and 3.

TECUMSEH PRODUCTS COMPANY

FINAL

The purpose of this interim status report is to summarize the findings of the second phase of investigation conducted at the site by RMT in November and December 1994, and to present recommendations for an additional off-site groundwater investigation. If the degree and extent of VOC impacts have been adequately characterized upon completion of the additional off-site investigation, a hydrogeologic investigation report consistent with the requirements of NR 700 will be submitted to the WDNR that will document all phases of the study.

Section 2

SUMMARY OF THE SECOND PHASE OF INVESTIGATIVE ACTIVITIES

The objectives of the second phase of investigation of groundwater at the Tecumseh Products Grafton facility were as follows:

- To determine the northern extent of the trichloroethene (TCE)-dominated plume along the eastern property line.
- To verify that the southern extent of the 1,1,1-trichloroethane (TCA)-dominated plume along the eastern property line does not extend significantly further south than MW-3.
- To assess the horizontal extent of the VOC plume in the shallow aquifer east of the plant.
- To assess whether there is downward migration of VOCs in the bedrock aquifer beneath the site, and if so, to what extent.
- To assess the horizontal extent of VOCs in the bedrock aquifer and to determine the degree to which the Milwaukee River intercepts groundwater in the bedrock aquifer that is affected by VOCs.

The work that was conducted to address these objectives included the following tasks:

- Observed and documented the installation of one shallow water table well (MW-11) upgradient of the Tecumseh facility to characterize background water quality and measure the water table elevation at the western edge of the site.
- Observed and documented the installation of seven soil borings to the bedrock surface along the eastern property line of the Tecumseh facility to determine the northern and southern extent of the VOC plume along the eastern property line. One of the soil borings (MW-12) was converted into a water table well, in accordance with NR 141.
- Observed and documented the installation of one soil boring (SB-15VOC) to the bedrock surface adjacent to the building on the east-central side of the Tecumseh facility to characterize water quality upgradient of the area where the highest concentrations of solvents were observed in the groundwater along the eastern property line.
- Collected groundwater samples in seven of the soil borings installed along the eastern edge of the site and in the one soil boring installed at the western edge of the site. As the borings were advanced, groundwater samples were collected at 4-foot intervals, or where sand was encountered, using a Hydropunch sampler. The water samples were analyzed in the field for

selected VOCs using a portable GC. The results of the portable GC analyses were used to vertically profile the concentrations of selected VOCs in the unconsolidated material.

- Installed two soil borings to the bedrock surface on the west side of the Milwaukee River within the public right-of-way on the west side of 14th Avenue. The soil borings were not converted to water table wells (as originally proposed) due to the shallow bedrock surface.
- Observed and documented the installation of three borings into the bedrock along the eastern property line. Two of the borings were installed to a depth of 160 feet below grade, and one of the borings was installed to a depth of 60 feet below grade. The October 1994 workplan originally called for the installation of two borings into the bedrock on-site. However, a large cavern was encountered between the depths of 50 and 54 feet during the installation of MW-12BR, preventing the boring from being drilled deeper. MW-12BR was converted into a piezometer in accordance with NR 141, and another bedrock boring (MW-13BR) was installed approximately 15 feet south of MW-12BR.
- Observed and documented the installation of two borings into the bedrock on the west side of the Milwaukee River within the public right-of-way on the west side of 14th Avenue. The October 1994 workplan states that the off-site borings would either be installed to the bottom of the VOC plume or to a maximum depth of 140 feet below grade, whichever came first. Because no VOCs were detected above NR 140 Enforcement Standards (ESs), one of the off-site borings (MW-14BR) was only installed to a depth of 60 feet below grade. The other boring (MW-15BR) was installed to a depth of 160 feet below grade, upon the verbal request of the WDNR. MW-14BR was completed as a water table well in accordance with NR 141, and MW-15BR was completed as a multiple-port monitoring well system.
- Advanced each bedrock borehole in 20-foot intervals. Performed a packer test
 of each 20-foot interval to collect information on the presence of fractures,
 hydraulic effectiveness, and connection to VOC sources. Collected
 groundwater samples from each 20-foot interval and analyzed the samples for
 selected VOCs using a portable GC.
- Performed a downhole video inspection of each bedrock borehole to visually determine where the fractures are located.
- Completed one of the on-site bedrock borings (MW-12BR) as a piezometer and one of the off-site bedrock borings (MW-14BR) as a water table well in accordance with NR 141.
- Completed two of the on-site bedrock borings and one of the off-site bedrock borings as multiple-port monitoring well systems. Each system is composed of PVC sampling/pressure ports and permanent positive-seal packers built into a PVC casing string. The two on-site borings are constructed with three sampling ports each, and the off-site boring is constructed with two sampling

ports. Dedicated pumps and pressure transducers are located within each sampling port for collecting groundwater samples and measuring hydraulic head.

- Surveyed the location and elevation of the new soil borings and monitoring wells relative to the State Plane Coordinate System and to the National Vertical Geodetic Datum, respectively.
- Collected a complete round of groundwater level measurements from the new and previously installed monitoring wells and from the Milwaukee River to evaluate horizontal and vertical groundwater flow directions.
- Collected one round of groundwater samples from the new monitoring wells and from MW-3D, MW-8D, and MW-9D. Collected a second groundwater sample from MW-11 approximately 1 month after the first round for confirmation. The samples were analyzed for VOCs using USEPA Method 8021.
- Removed approximately 1 gallon of free product from MW-2 using a bailer.
- Collected two rounds of groundwater samples from the six residential wells in the Town of Grafton that are located downgradient (east) of the Grafton plant.
 The samples were analyzed for VOCs using USEPA Method 524.2.
- Interviewed Tecumseh Products employees and completed in-plant observations to identify potential source areas and to evaluate the accessibility for subsequent investigations of potential source areas.

Appendices A, B, C, and D contain the boring logs and borehole abandonment forms, the well construction and development information, and the laboratory reports.

Section 3

FINDINGS AND CONCLUSIONS

- 1. The surface topography of the site slopes gently from west to east. The site geology is depicted on the geologic cross sections shown on Figures 4 and 5. The surface soil consists of 10 to 12 feet of clay overlying a saturated sand layer. At the eastern edge of the site, the sand layer extends from the base of the clay to the bedrock surface, which is present at approximately 30 to 40 feet below ground surface. The saturated sand layer thins to the west of the site where it is underlain by a thick layer of clay. East of the Tecumseh facility, the sand layer pinches out and clay directly overlies the bedrock. Along 14th Avenue, the surface of the bedrock shows considerable relief, with the depth to bedrock varying from approximately 2 to 15 feet below grade. The bedrock beneath the site consists of Silurian Age Niagaran Dolomite, which is the primary aquifer in this area.
- 2. The water table elevations for the August and December 1994 sampling rounds are presented in Table 1, and a water table contour map based on the December 1994 data is presented on Figure 3. The depth to groundwater below the site ranges from 8 to 17 feet below grade. The groundwater flow direction at the water table is to the east toward the Milwaukee River, with a horizontal hydraulic gradient of approximately 0.009. The vertical gradient in the unconsolidated material beneath the facility is approximately 0.005 downward, based on well nests MW-8/MW-8D and MW-9/MW-9D. These results are consistent with the flow direction and gradients measured at the site in August 1994.
- 3. A potentiometric surface map is presented on Figure 6, and the potentiometric contours are presented on the cross section shown on Figure 5. The groundwater flow direction in the bedrock, based on three measuring points, is to the southeast with a horizontal hydraulic gradient of approximately 0.01. This flow direction appears to parallel one of the major fracture orientations observed in the bedrock by IT Corporation (1987). The average vertical gradient in the bedrock is approximately 0.04 downward.
- 4. TCE was detected at concentrations of 600 to 710 μ g/L in the groundwater samples collected from the upgradient monitoring well (MW-11). These results indicate that VOCs may be migrating onto the site from the west. The concentrations of TCE in MW-11 are not consistent with the result of the in-field gas chromatograph analysis for this well, where TCE was detected at a concentration of only 1.2 μ g/L. The cause for this discrepancy has not been identified. Review of the MW-11 analysis finds nothing to indicate a systematic error in the in-field analyses. The remaining data are therefore acceptable for use in characterizing VOC extent.

- One soil boring (SB-9VOC) was installed approximately 120 feet south of MW-3 to evaluate the southern extent of the VOC plume (Figure 2). No VOCs were detected in groundwater samples collected from boring SB-9VOC. The southern extent of the TCA-dominated plume along the eastern property line therefore does not appear to extend significantly further south than MW-3.
- 6. Five soil borings were installed along the eastern edge of the Tecumseh property north of MW-9/9D to evaluate the northern extent of the VOC plume (SB-10VOC through SB-14VOC on Figure 2). In-field GC analysis was used to obtain a horizontal and vertical profile of constituent distribution. The portable GC results are summarized in Table 2. The portable GC results from the first phase of investigation are presented in Table 3, for comparison. The highest concentrations of TCE and TCA were recorded in groundwater samples from boring SB-11VOC, which is located approximately 150 feet north of MW-9/9D (see Figure 2). High concentrations were detected from the water table to the top of the bedrock. VOC concentrations in the groundwater remain high in boring SB-12VOC, then decrease rapidly at boring SB-13VOC (90 feet to the north). In the northernmost soil boring (SB-14VOC), low levels (0.4 to 0.8 μ g/L) of TCE were detected. No TCA was detected in this boring. Because the concentrations of TCE detected in SB-14VOC are less than the NR 140 Enforcement Standard of 5 μg/L, boring SB-14VOC is believed to define the northern extent of the VOC plume along the eastern property line.
- 7. In order to characterize water quality upgradient of the area where the highest concentrations of solvents were observed in the groundwater along the eastern property line, one soil boring (SB-15VOC) was installed upgradient of SB-11VOC, adjacent to the building. The results of the in-field GC analysis indicate the highest levels of VOCs in groundwater samples collected from the site. TCA is the dominant VOC that was detected at SB-15VOC, with concentrations ranging from 870 to 28,900 μ g/L. Low levels of TCE (3 to 6 μ g/L) were also detected.
- 8. Packer tests were performed in 20-foot intervals as the bedrock borings were advanced to collect information on the presence of fractures, hydraulic effectiveness of the fractures, and connection to VOC sources. Specific capacity data obtained from the packer tests range from 0.2 to 3.2 gallons per minute per foot of drawdown. Values of hydraulic conductivity ranging from approximately 1 x 10⁻³ cm/s to 1 x 10⁻² cm/s were calculated from the specific capacity data. In the on-site wells, specific capacities appear to be highest in the 40- to 60-foot interval (upper 20 feet of bedrock), and in the 120- to 160-foot interval, with the intervening zone having a lower specific capacity. Bedrock east of the Tecumseh facility appears to be more homogeneous than the bedrock beneath the site, as evidenced by more uniform specific capacities in the bedrock wells installed on 14th Avenue.

A downhole video inspection was performed on each bedrock borehole to determine the nature and distribution of fractures in the subsurface. The borehole videos indicate that macroscopic porosity of the dolomite occurs primarily as bedding planes. Vuggy porosity and small vertical fractures were also present. Highly porous zones ranging from 1 to 3 feet thick were noted in some of the borings. In addition, a cavern

was found between the depths of 50 to 54 feet in MW-12BR. There was no apparent correlation of these porous zones between borings. Concentrations of VOCs do not appear to be related to the distribution of fracture and bedding plane porosity, since the concentrations of VOC in the bedrock are fairly consistent with depth.

- Three borings were installed into the bedrock along the eastern property line to 9. evaluate the vertical extent of VOCs in the bedrock beneath the site. The results of the in-field GC analysis indicate elevated levels of VOCs in groundwater samples from the three on-site bedrock monitoring wells (see Table 3). The dominant VOCs that were detected in the bedrock wells were TCE and TCA, both of which were present at concentrations above their respective ESs. VOCs extend from the top of the bedrock to a depth of at least 160 feet below ground surface, with VOC concentrations and compositions remaining relatively consistent with depth. The bottom of the VOC plume was not determined during this investigation. The results of the laboratory analyses of groundwater samples collected from the bedrock monitoring wells are presented in Table 4. The results for TCE and TCA are also summarized on the geologic cross section shown on Figure 4. The results of the laboratory analyses from the bedrock monitoring wells are generally consistent with the results of the in-field analysis, although TCA concentrations measured with the portable GC are generally higher than the concentrations measured in the laboratory.
- Two bedrock borings (MW-14BR and MW-15BR) were installed in the Village right-of-10. way on 14th Avenue to evaluate the horizontal extent of VOCs east of the Tecumseh facility. The locations were selected on the basis of the observed hydraulic gradients beneath the facility. Only low levels (1 to 4 $\mu q/L$) of tetrachloroethene (PCE) in MW-15BR were detected with the portable GC in groundwater samples collected from the off-site bedrock borings. The PCE was detected between depths of 60 to 160 feet below grade. The laboratory results of groundwater samples collected from the bedrock monitoring wells on 14th Avenue are generally consistent with the results of the in-field analysis, except no PCE was detected in MW-15BR. Based on the observed groundwater flow direction in the bedrock and the observed chemistry of the groundwater plume at the Tecumseh facility, the PCE detected in MW-15BR is not believed to be related to the VOC plume beneath the Tecumseh facility. The monitoring wells installed on 14th Avenue appear to be slightly north of the estimated direction of plume migration and may not intersect the plume of affected groundwater (see Figure 6).
- 11. The results of the laboratory analyses from monitoring well MW-8D are not consistent with the results of the in-field analysis performed during the August 1994 phase of investigation. The results of the in-field GC analysis indicate 1,710 μ g/L of TCA at the bedrock surface in MW-8D. In contrast, the results of the laboratory analysis of the groundwater sample collected from MW-8D in August 1994 indicate lower levels of VOCs, including 7.4 μ g/L TCA and 7.0 μ g/L TCE. A confirmatory sample was collected in December 1994 to help evaluate this inconsistency. The results of the latest sample indicate even lower concentrations in the groundwater at MW-8D, with <1.0 μ g/L TCA and 1.8 μ g/L TCE. The concentrations measured at MW-8D are not consistent with the levels of VOCs detected in the groundwater samples from other wells located nearby and downgradient of MW-8D.

- 12. The results of the first and second phases of investigation at the Tecumseh facility indicate elevated levels of VOCs in the groundwater beneath the Tecumseh facility. The VOC plume is 800 to 1,000 feet wide with the extent of the plume being defined by SB-9VOC to the south and SB-14VOC to the north. The VOC plume extends from the water table surface to a depth of at least 160 feet below grade (approximately 140 feet into bedrock). The observed vertical hydraulic gradients are not strong enough to have transported the VOCs to these depths. The elevated concentrations of VOCs in the groundwater at depth therefore indicate the presence of possible DNAPL migration in the subsurface. Concentrations and compositions of VOCs appear to vary along the eastern property line, indicating that there may be multiple sources. The distribution of VOC constituents in the groundwater beneath the Tecumseh facility is summarized below:
 - TCA is the dominant VOC that was detected under the southeast corner of the plant. Other chlorinated solvents (including TCE), aromatic hydrocarbons, and machine oil are also present in the groundwater in this area. The horizontal extent of the machine oil and aromatic hydrocarbons appears to be fairly limited since these compounds are not found in groundwater samples collected from MW-3 and MW-3D, which are located directly downgradient from this area. VOCs in the groundwater beneath the southeast corner of the plant appear to be undergoing degradation, based on the elevated concentrations of DCA, DCE, and vinyl chloride in the groundwater.
 - TCE is the dominant VOC that was detected under the east-central portion of the site, near well nest MW-9/9D.
 - TCA (410 to 620 μ g/L) and TCE (80 to 3,000 μ g/L) were detected in wells MW-12, MW-12BR, and MW-13BR, which are located approximately 250 feet north of well nest MW-9/9D. Groundwater samples collected from a boring located immediately upgradient of these wells and adjacent to the building (SB-15VOC) contain the highest concentrations (870 to 28,900 μ g/L) of TCA found at the site. The concentrations of TCA found in groundwater samples collected from this boring, and the relatively low concentrations of other solvents, indicate that TCA is migrating from an area nearby or upgradient of this location. Only low levels of TCE (3 to 6 μ g/L) were detected in the groundwater at SB-15VOC.
 - High levels of TCE are present in the groundwater at MW-11, which is located upgradient of the Tecumseh facility, indicating that VOCs may be migrating onto the site from the west.
- 13. Two rounds of groundwater samples were collected from the six residential wells located downgradient (east) of the Tecumseh facility. The approximate locations of the residential wells that were sampled are shown on Figure 7. The laboratory results are summarized in Table 5. Although no well construction diagrams are available for these wells, it is likely that they are open boreholes in the shallow bedrock. Low levels of VOCs were detected in all of the residential wells; however, the concentrations and compositions vary laterally. In the northernmost wells on the east side of Green Bay Road (PW-101 and PW-102), the VOCs that were detected were either unconfirmed or

were detected at concentrations below the Estimated Quantitation Limit (EQL). In addition, most of the constituents detected in these wells (acetone, 4-methyl-2pentanone, and chloroform) are not present in the groundwater beneath the Tecumseh facility and are not believed to be related to the VOC plume beneath the site. In the four residential wells on the west side of Green Bay Road, low levels of chlorinated VOCs were detected, with concentrations generally increasing to the south. The chlorinated VOCs detected in these wells are similar to the VOCs detected in the groundwater beneath the site, but at much lower concentrations. At PW-36 (the northernmost well on the west side of Green Bay Road), the only confirmed VOC in the groundwater is TCA which was reported at an estimated concentration of 0.3 ug/L. In the wells to the south, other chlorinated solvents (including TCE, DCE, and DCA) are also present. Concentrations generally increase to the south, with the highest concentrations of VOCs being detected in groundwater samples from the southernmost well (PW-30). These results are consistent with the estimated direction of plume migration in the bedrock. All of the VOCs detected in the residential wells were present at concentrations at or below their respective PALs, except for TCE which was detected at concentrations above the PAL but below the ES in two of the residential wells (PW-30 and PW-38). No ESs were exceeded in any of the wells sampled.

14. Potential sources of VOCs to groundwater were identified as the West Dock Area, the Southeast Degreaser Area, the Recycling Docks Area, and the TCA Filling Area. Further discussion of these areas is provided in Appendix E. Recommendations for further investigation that incorporate concerns regarding site access are provided in Section 4 of this report.

Section 4

RECOMMENDATIONS

4.1 Upgradient Property Line Source Area Investigation

- Complete three soil borings with in-field chemical analyses along the north Tecumseh property line to assess the potential for neighboring VOC sources.
 If VOCs are detected, install at least one monitoring well.
- Complete three soil borings and one monitoring well with in-field and laboratory analyses on the west Tecumseh property line surrounding well MW-11 to clarify the nature and extent of the VOCs observed in that well.
- Complete one soil boring upgradient of the VOC occurrence at MW-11 (on Village right-of-way) with in-field and laboratory analyses to determine whether the VOC source is upgradient of the Tecumseh facility. If VOCs are detected, complete at least three additional soil borings within Village right-of-ways between the Tecumseh west property line and the WDNR monitoring well nest (GMW015 and GMW010) on 5th Avenue to identify the source of the VOCs.

4.2 Downgradient Groundwater VOC Extent Investigation

- Complete two bedrock borings with multi-port wells on 13th Avenue (west of the Milwaukee River) to determine whether there is an off-site VOC plume of concern and, if present, in what direction it is migrating. The same procedures as specified for the previous bedrock investigations will be utilized.
- If concentrations in groundwater from the 13th Avenue borings exceed
 Wisconsin Groundwater Enforcement Standards (WAC, NR 140.10) and the
 Milwaukee River does not appear to be a regional groundwater divide,
 complete two additional borings and multi-port monitoring wells in the direction
 of apparent VOC migration at locations between the Milwaukee River and
 Village water supply well #3.
- If concentrations of VOCs in groundwater from the monitoring wells described in the previous paragraph also exceed Enforcement Standards, complete two more bedrock borings and multi-port monitoring wells in the direction of apparent VOC migration at locations between Village water supply wells #3 and #7.

4.3 Potential On-Site Source Investigations

West Dock Area

- Install four soil borings (by vertical and angle drilling) with in-field and laboratory analyses to determine whether the West Dock Area is a source of VOCs.
- If VOCs are observed at concentrations that potentially could result in impacts to groundwater, complete an additional four soil borings with in-field and laboratory analyses to evaluate the nature and extent of the VOCs.

TCA Filling Area

- Complete four soil borings to the bedrock surface with in-field analyses to determine whether the TCA Filling Area is a source of VOCs to groundwater.
- If groundwater concentrations suggesting that this area may be a VOC source are observed, complete an additional nine borings in an area approximately 50 feet by 100 feet around the suspected point of release. One boring will be placed inside the building adjacent to the point of release. In-field and laboratory analyses will be used to assess the size and nature of the source.

Southeast Degreaser Area

• Complete six to nine soil borings with in-field and laboratory analyses to evaluate whether this area is a source of VOCs to the groundwater of sufficient magnitude to warrant further consideration for remedial action.

Recycling Docks Area

- Complete six to ten soil borings with in-field and laboratory analyses of soil and groundwater.
- Install well screen and casing for a soil vapor extraction well(s) and air sparging point(s) for use in future pilot-scale testing of remediation systems.

4.4 Documentation

 Develop a workplan for submittal to the WDNR that provides a detailed description of the recommended actions described above. Include a description of the procedures for the investigative activities and provide a schedule for implementing the next phase of investigation. Upon completion of the fieldwork and laboratory analyses described above, prepare a third interim status report for review by the WDNR.

4.5 <u>Estimated Costs to Implement the Recommendations</u>

The estimated costs to implement the above activities are summarized as follows:

	Recommended Activity	Preliminary Cost Estimate
•	Upgradient Property Line Investigation	\$ 45,000
•	Downgradient VOC Extent Investigation	360,000
•	Potential On-Site Source Investigations	160,000
•	Workplan, Field Preparation, and Report	27,000
	TOTAL	\$592,000

The cost of previous investigative activities undertaken to date is approximately \$290,000. Upon completion of the recommended activities described above, the total cost of the investigations at the Grafton facility will be approximately \$882,000.

Section 5

REFERENCES CITED

- IT Corporation. 1987. Ground water investigation of volatile organic compounds occurrence in Grafton, Wisconsin. WDNR Project No. 8707-14. February 1987.
- RMT, Inc. 1994a. Workplan to evaluate the extent of chlorinated VOCs in groundwater at the Tecumseh Products Company Grafton, Wisconsin, facility. August 1994.
- RMT, Inc. 1994b. Interim status report on the subsurface investigative activities at the Tecumseh Products Company Grafton Operation. October 1994.
- RMT, Inc. 1994c. Phase II workplan to evaluate the extent of chlorinated VOCs in groundwater at the Tecumseh Products Company Grafton, Wisconsin, facility. October 1994.

TABLE 1

GROUNDWATER ELEVATION DATA TECUMSEH PRODUCTS COMPANY

	Reference Elevation ¹		ter Elevation ove NVGD)
Well Identification	(feet above NVGD)	8-25-94	12-14-94
MW-1	762.84	747.54	746.86
MW-2	762.81	745.31 ²	744.47 ²
MW-3	758.35	750.45	748.76
MW-3D ³	758.60	747.22	745.64
MW-3BR(1)⁴	702.00	NI	743.16
MW-3BR(2)	658.54	NI	742.22
MW-3BR (3)	620.00	NI	738.95
MW-4	762.12	747.53	745.94
MW-5	762.93	747.62	746.01
MW-6	762.97	747.93	746.30
MW-7	763.01	747.93	746.25
MW-8	762.40	747.52	745.89
MW-8D	758.98	747.42	745.83
MW-9	760.72	747.13	745.58
MW-9D	760.58	747.07	745.53
MW-10	772.01	763.82	763.07
MW-11	769.55	NI .	756.49
MW-12	759.51	NI	745.54
MW-12BR	759.43	NI	745.42
MW-13BR(1)	666.04	NI	743.99
MW-13BR(2)	637.51	NI	740.63
MW-13BR(3)	604.06	NI	741.02
MW-14BR	748.79	NI	735.76
MW-15BR(1)	719.68	NI	731.71
MW-15BR(2)	626.20	NI	729.95

NOTES:

- The reference elevation is either the top of casing elevation (for the NR 141 monitoring wells) or the elevation of the transducer (for the multiple-port monitoring wells).
- There were approximately 2.8 feet of free product (machine oil) in MW-2 in the August sampling round and 1.8 feet of free product in MW-2 in the December sampling round. The free product was removed after the depth to the water table was measured.
- The "D" suffix indicates that the well is a piezometer (screened in the unconsolidated material).
- The "BR" suffix indicates that the well is a bedrock monitoring well. The number in parentheses designates the sampling port number for the multiple-port monitoring wells.

TABLE 2

RESULTS OF THE PORTABLE GC ANALYSIS OF GROUNDWATER SAMPLES 1 (µg/L) PHASE II TECUMSEH PRODUCTS COMPANY

	Sample Depth (feet below											
Boring ID	ground surface)	1,1,1-TCA	1,1-DCE	trans-1,2-DCE	cis-1,2-DCE	TCE	PCE	Benzene	Ethylbenzene	Toluene	m,p-Xylenes	o-Xylenes
SB9VOC	15 - 17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	19 - 21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	23 - 25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	27 - 29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	31 - 33	ND	ND	ND	ND	ND	ND	ND	1.7	1.4	3.9	4.0
SB10VOC	15 - 17	ND	14	1.1	9.0	316	ND	ND	ND	ND	ND	ND
	19 - 21	ND	6.3	ND	ND	77	ND	ND	ND	ND	ND	ND
	23 - 25	ND ·	43	2.5	127	178	ND	ND	ND	ND	ND	ND
	27 - 29	ND	27	ND	72	244	ND	ND	ND	ND	52	80
SB11VOC	15 - 17	841	31	ND	14	2,860	ND	ND	ND	ND	ND	ND
	19 - 21	5,320	133	ND	89	1,570	ND	ND	ND	ND	ND	ND
	23 - 25	1,380	54	5.5	40	380	ND	ND	ND	ND	ND	ND
SB12VOC	15 - 17	718	28	ND	ND	27	ND	ND	ND	ND	ND	ND
	19 - 21	2,490	96	ND	4.4	118	ND	ND	ND	ND	ND	ND
	23 - 25	859	71	ND	11	152	ND	ND	ND	ND	ND	ND
SB13VOC	12 - 14	ND	19	ND	ND	58	ND	ND	ND	ND	ND	ND
	16 - 18	ND	19	ND	ND	64	ND	ND	ND	ND	ND	ND
	20 - 22	ND	22	ND	ND	90	ND	ND	ND	ND	ND	ND
SB14VOC	20 - 22	ND	ND	ND	ND	8.0	0.3	ND	1.3	1.0	3.1	1.2
•	24 - 26	ND	ND	ND	ND	0.4	ND	0.3	1.6	1.3	1.0	0.6
SB15VOC	15 - 17	28,900	867	ND	ND	5.8	ND	ND	ND	ND	ND	ND
	19 - 21	7,150	88	ND	7.7	3.9	ND	ND	ND	2.8	ND	ND
	23 - 25	874	18	ND	6.5	2.7	ND	ND	ND	ND	ND	ND
MW-11	20 - 22	ND	ND	ND	ND	1.2	ND	ND	1.0	ND	1.0	ND

TABLE 2 (CONTINUED)

RESULTS OF THE PORTABLE GC ANALYSIS OF GROUNDWATER SAMPLES 1 ($\mu g/L$) PHASE II TECUMSEH PRODUCTS COMPANY

B	Sample Depth (feet below						6.55		E			
Boring ID	ground surface)	1,1,1-TCA	1,1-DCE	trans-1,2-DCE	cis-1,2-DCE	TCE	PCE	Benzene	Ethylbenzene	Toluene	m.p-Xylenes	o-Xylenes
MW-3BR	40 - 60	380	18	1.4	41	46	ND	ND	ND	ND	ND	ND
	60 - 80	518	20	ND	49	76	ND	ND	ND	ND	ND	ND
	80 - 100	375	46	ND	21	116	ND	ND	ND	ND	ND	ND
	100 - 120	50	17	ND	15	137	ND	ND	ND	ND	ND	ND
	120 - 140	67	8.5	ND	17	96	ND	ND	ND	ND	ND	ND
	140 - 160	163	11	ND	21	44	ND	ND	ND	ND	ND	ND
MW-12BR	35 - 54	6,220	72	ND	ND	203	ND	ND	ND	ND	ND	ND
MW-13BR	60 - 80	1,460	65	ND	14	98	ND	ND	ND	ND	ND	ND
	80 - 100	1,280	52	ND	31 `	209	ND	ND	ND	ND	ND	ND
,	100 - 120	1,160	47	ND	27	129	ND	ND	ND	ND	ND	ND
	120 - 140	751	52	ND	18	147	ND	ND	ND	ND	ND	ND
	140 - 160	729	45	ND	37	158	ND	ND	ND	ND	ND	ND
MW-14BR	0 - 20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	20 - 40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	40 - 60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15BR	20 - 40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	40 - 60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	60 - 80	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND
	80 - 100	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND
	100 - 120	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND
	120 - 140	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND
_	140 - 160	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND

NOTES:

The samples were collected November 7 through December 2, 1994.

ND Not detected.

TABLE 3

RESULTS OF THE PORTABLE GC ANALYSIS OF GROUNDWATER SAMPLES^{1,2} (μg/L) PHASE I TECUMSEH PRODUCTS COMPANY

Boring I.D.	Sample Depth (feet below ground surface)	1,1,1-TCA	1.1-DCE	trans- 1,2-DCE	cis-1,2-DCE	TCE	PCE	Benzene	Ethylbenzene	Toluene	m,p-Xylenes	eanetyX-o
MW-3D	14 - 16	ND	ND	ND	ND	258	29	ND	ND	ND	ND	ND
	18 - 20	ND	ND	ND	ND	19	ND	47	344	23	108	ND
	22 - 24	ND/ND	ND/ND	ND/ND	ND/ND	6,4/6.1	ND/ND	ND/ND	6.7/7.6	ND/2.0	ND/ND	ND/ND
	26 - 28	ND/ND	ND/ND	ND/ND	ND/ND	19/19	1.8/2.0	1.1/1.5	11/5.6	2.2/2.0	2.4/ND	ND/ND
	30 - 31.5	ND/ND	ND/ND	ND/ND	ND/ND	6.0/6.2	ND/ND	ND/ND	2.6/2.5	1.6/1.8	ND/ND	ND/ND
SB5VOC	13 - 14	< 5/ND	4.7/4.4	1.5/ND	17/15	75/75	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	16 - 18	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
	20 - 22	ND/ND	ND/ND	ND/ND	ND/ND	14/13	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	28 - 30	< 5/< 5	ND/ND	ND/ND	ND/ND	2.7/2.4	ND/ND	ND/ND	ND/ND	ND/1.1	ND/ND	ND/ND
	32 - 34	ND	ND	ND	ND	7.3	ND	ND	ND	3.0	1.3	ND
SB6VOC	12 - 14	89/139	38/34	ND/ND	5.2/8.5	24/21	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	16 - 18	ND	3.2	ND	ND	13	ND	ND	ND	ND	ND	ND
	20 - 22	ND	ND	ND	5.5	14	ND	ND	ND	ND	ND	ND
	24 - 26	ND/ND	2.2/1.7	ND/ND	3.0/2.7	17/16	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	28 - 30	< 5	ND	ND	1.8	11	ND	ND	1.3	ND	1.5	ND
	32 - 34	ND	12	ND	10	103	ND	ND	ND	ND	ND	ND
SB8VOC	20 - 22	< 5/< 5	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	24 - 26	< 5/< 5	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
MW-8D	15 - 17	ND	70	76	570	16	26	ND	146	703	499	193
	19 - 21	ND/ND	69/75	16/17	106/111	14/16	ND/ND	ND/ND	ND/ND	19/17	25/26	ND/ND
	24 - 26	864	39	19	190	44	42	ND	58	245	222	68
	28 - 30	563/600	11/12	7.4/7.9	83/83	14/15	20/23	ND/ND	42/44	160/157	170/170	83/58
	32 - 33	1710	35	26	283	26	138	ND	230	535	664	660
MW-9D	12 - 14	ND/ND	87/107	ND/ND	172/184	724/1030	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	16 - 18	ND	106	ND	ND	981	ND	ND	ND	ND	ND	ND
	20 - 22	ND/ND	96/104	ND/ND	ND/ND	677/771	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND
	24 - 26	ND	17	ND	237	444	ND	ND	ND	ND	ND	ND
	28 - 30	ND/ND	97/99	ND/ND	242/300	537/576	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND

NOTES:

ND Not detected (detection limit for all compounds, unless otherwise stated, is considered to be 1 μg/L).

Samples were collected August 15 through 18, 1994.

Two vials were collected from each sample interval. Field GC results are reported for both vials when two vials were analyzed.

TABLE 4 GROUNDWATER ANALYTICAL RESULTS $(\mu g/L)^1$ TECUMSEH PRODUCTS COMPANY

		1- cethene		,1- oethane		1,2- cethene		l,1- oethane	Trichlor	oethene	Vinyl C	hloride	Tolu	ieue
Well Identification	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94	8-25-94	12-14-94
MW-3	< 1.0	NS	< 1.0	NS	< 1.0	NS	< 1.0	NS	39	NS	< 1.0	NS	< 1.0	NS
MW-3D	24	12	7.2	9.8	6.8	< 5.0	21	28	88	27	6.1	5.8	< 5.0	< 5.0
MW-3BR(1)	NI	13	NI	65	NI	45	NI	120	NI	88	NI	< 5.0	NI	< 5.0
MW-3BR(2)	NI	56	NI	190	NI	20	NI	140	NI	310	NI	< 10	NI	< 10
MW-3BR(3)	NI	8.6	NI	39	NI	25	NI	28	NI	270	NI	< 5.0	NI	< 5.0
MW-8	< 50	NS	360	NS	130	NS	670	NS	< 50	NS	77	NS	160	NS
MW-8D	< 1.0	< 1.0	3.8	< 1.0	1.3	< 1.0	7.4	< 1.0	7.0	1.8	< 1.0	< 1.0	2.0	< 1.0
MW-9	< 100	NS	100	NS	1,500	NS	530	NS	3,000	NS	< 100	NS	< 100	NS
MW-9D	< 100	< 50	290	94	330	680	700	350	1,200	1,400	< 100	< 50	< 100	< 50
MW-11	NI	< 20	NI	< 20	NI	< 20	NI	< 20	NI	710 ²	NI	< 20	NI	< 20
MW-12	NI	61	NI	150	NI	< 50	NI	490	NI	3,000	NI	< 50	NI	< 50
MW-12BR	NI	35	NI	180	NI	< 10	NI	580	NI	84	NI	< 10	NI	< 10
MW-13BR(1)	NI	70	NI	190	NI	22	NI	530	NI	270	NI	< 10	NI	< 10
MW-13BR(2)	NI	53	NI	130	NI	· 33	NI	410	NI	350	Ni	< 10	NI	< 10
MW-13BR(3)	NI	78	NI	210	NI	21	NI	620	NI	300	NI	< 20	NI	< 20
MW-14BR	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0
MW-15BR(1)	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	2.5
MW-15BR(2)	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	1.6
NR 140 Enforcement Standard	7	7	8	50	. 7	0	20	00	Ę	5	0.	2	34	13
NR 140 Preventive Action Limit	0.	7	8	15		7	4	0	0.	.5	0.0	02	68	3.6

NOTES:

This table includes only those compounds that were detected in at least one sample.

NE Not established.

NS Not sampled.

NI Not installed.

An additional groundwater sample was collected from MW-11 on January 9, 1995, to confirm the analytical results from the December sampling round. TCE was detected in the second sample at a concentration of 600 μg/L.

TABLE 4 (CONTINUED) GROUNDWATER ANALYTICAL RESULTS (μg/L)¹ TECUMSEH PRODUCTS COMPANY

	Ethylh	enzene	Xvlene	s (total)		3,5- Ibenzene	1,2 Trimethyl			ec- enzene		o- yltoluene	n-Butvl	benzene	Naohi	thalene
Well Identification	8-25-94	12-14-94		12-14-94	8-25-94	12-14-94	8-25-94	12-14-94		12-14-94	8-25-94	12-14-94			8-25-94	
MW-3	< 1.0	NS	< 3.0	NS	< 1.0	NS	< 1.0	NS	< 1.0	NS	< 1.0	NS	< 1.0	NS	< 5.0	NS
MW-3D	54	< 5.0	18	< 15	< 5.0	< 5.0	30	5.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 25
MW-3BR(1)	NI	< 5.0	NI	< 15	NI	< 5.0	NI	< 5.0	NI	< 5.0	NI	< 5.0	NI	< 5.0	NI	< 25
MW-3BR(2)	NI	< 10	NI	< 30	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 50
MW-3BR(3)	NI	< 5.0	NI	< 15	NI	< 5.0	NI	< 5.0	NI	< 5.0	NI	< 5.0	NI	< 5.0	NI	< 25
MW-8	< 50	NS	160	NS	< 50	NS	110	NS	< 50	NS	< 50	NS	< 50	NS	280	NS
MW-8D	< 1.0	< 1.0	3.6	< 3.0	1.6	< 1.0	4.6	< 1.0	1.3	< 1.0	1.4	< 1.0	4.5	< 1.0	5.0	< 5.0
MW-9	<100	,NS	<300	NS	<100	NS	<100	NS	<100	NS	<100	NS	<100	NS	<500	NS
MW-9D	<100	< 50	<300	<150	<100	< 50	<100	< 50	<100	< 50	<100	< 50	<100	< 50	<500	<250
MW-11	NI	< 20	NI	< 60	NI	< 20	NI	< 20	NI	< 20	NI	< 20	NI.	< 20	NI	<100
MW-12	NI	< 50	NI	<150	NI	< 50	NI	< 50	NI	< 50	NI	< 50	NI	< 50	NI	<250
MW-12BR	NI	< 10	NI	< 30	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 50
MW-13BR(1)	NI	< 10	NI	< 30	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 50
MW-13BR(2)	NI	< 10	NI	< 30	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 10	NI	< 50
MW-13BR(3)	NI	< 20	NI	< 60	NI	< 20	NI	< 20	NI	< 20	NI	< 20	NI	< 20	NI	<100
MW-14BR	NI	< 1.0	NI	< 3.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 5.0
MW-15BR(1)	NI	< 1.0	NI	< 3.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 5.0
MW-15BR(2)	NI	< 1.0	NI	< 3.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 1.0	NI	< 5.0
NR 140 Enforcement Standard	7	00	6	20	N	E	N	E	١	1E	١	VE	١	ΝE	4	10
NR 140 Preventive Action Limit	1.	40	1	24	N	E	N	E	١	IE	٨	VE .	١	VE		8

NOTES:

This table includes only those compounds that were detected in at least one sample.

An additional groundwater sample was collected from MW-11 on January 9, 1995, to confirm the analytical results from the December sampling round. TCE was detected in the second sample at a concentration of 600 μg/L.

NE Not established.

NS Not sampled.

NI Not installed.

Project Number: 3084.09

Sample Collection Date: December 1, 1994

Chain-of-Custody Number: 053741

TABLE 5

LABORATORY RESULTS FOR SAMPLING OF RESIDENTIAL WELLS IN GRAFTON, WISCONSIN TECUMSEH PRODUCTS COMPANY

	Station ID -				Results in µg/L			
RMT Lab No.	Station ID (name of resident)	Acetone	MC	1,1,1-TCA	1,1-DCA	TCE	Chloroform	Benzene
6042-002	Trip Blank	7.2	0.3 Q					
6042-003	PW-36 (Groth)		0.1 Q	0.3 Q				
6042-004	PW-5 (Raess)			0.9	0.7	0.5 Q		
6042-005	PW-38 (Lauer)			1.8	0.5 Q	1.1		0.4 Q
6042-006	PW-101 (Thiele)						0.1 Q	-
6042-007	PW-102* (Thiele)	12						
6042-008	PW-30** (Heiser)			2.3	2.8	1.4	0.5	
6042-009	Storage Blank							
	PAL	200	15	40	85	0.5	0.6	0.5
	ES	1,000	150	200	850	5.0	6.0	5.0

^{*} Also, 4-methyl-2-pentanone (also known as MIBK) at 2.8 μ g/L Q (ES = 500 and PAL = 50)

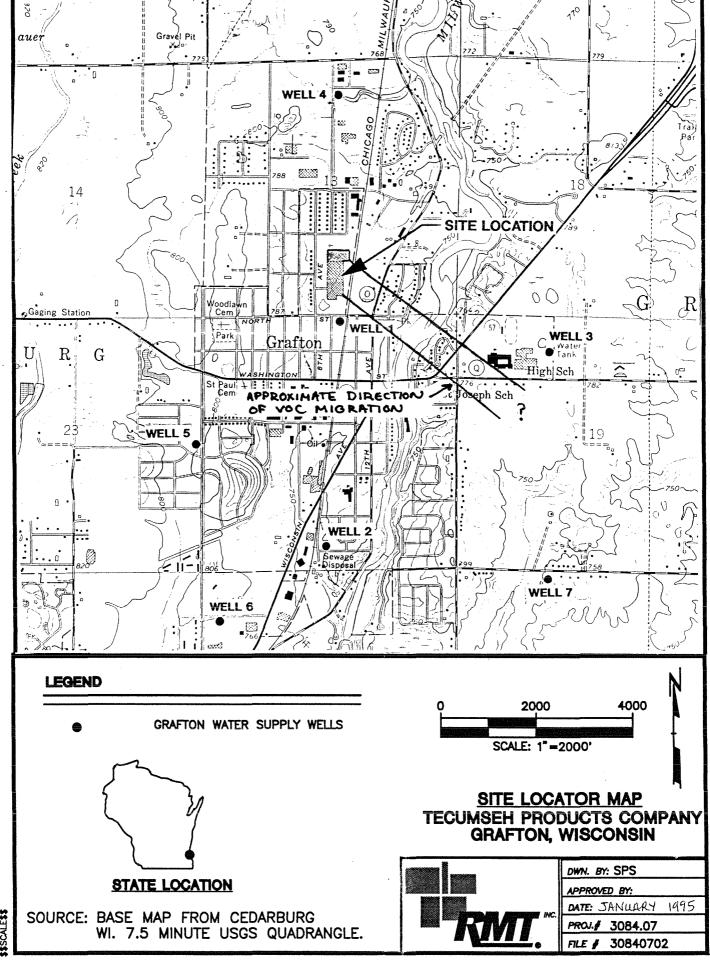
MC = Methylene Chloride 1,1,1-TCA = 1,1,1-Trichloroethane 1,1-DCA = 1,1-Dichloroethane TCE = Trichloroethene

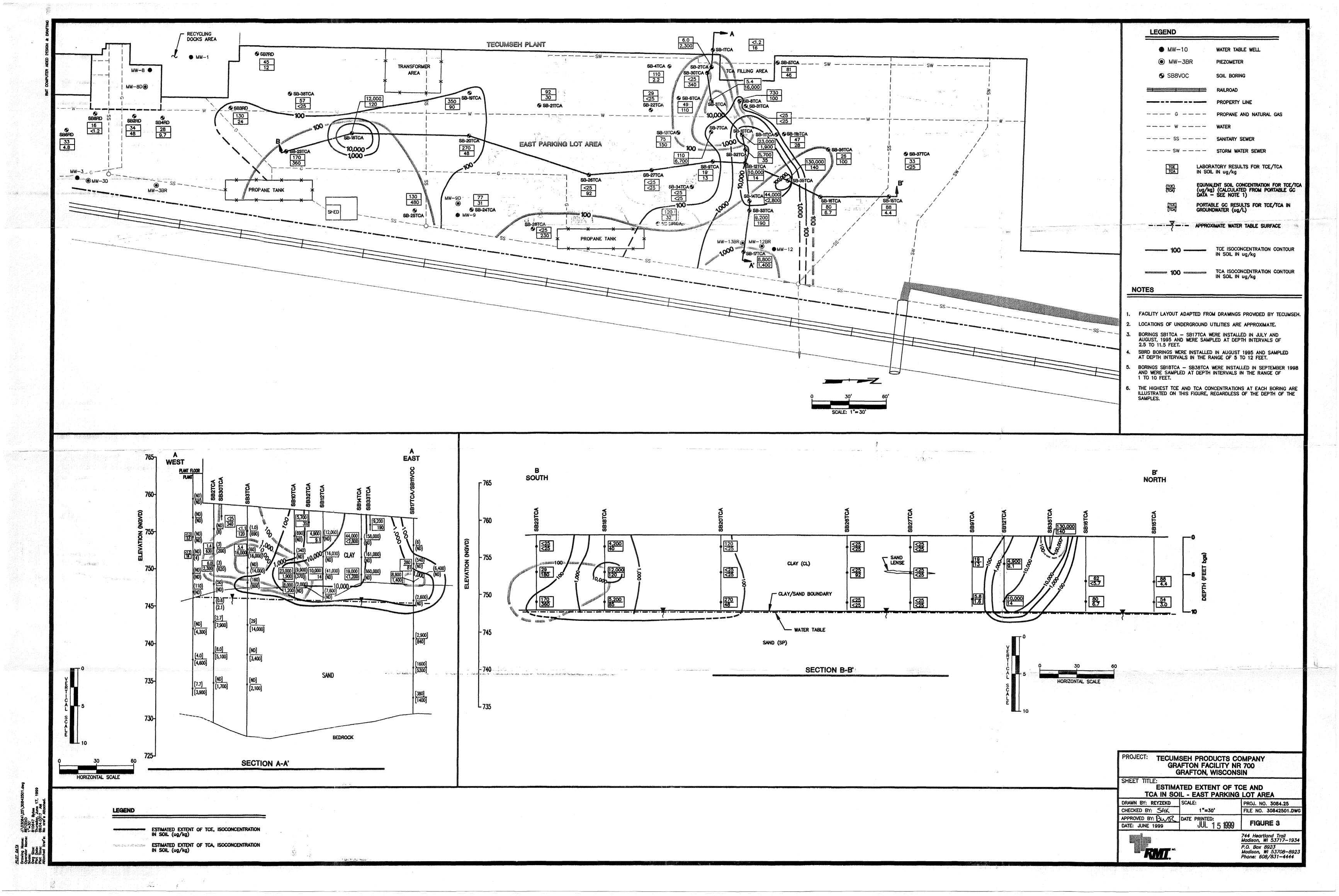
PAL = Preventive Action Limit

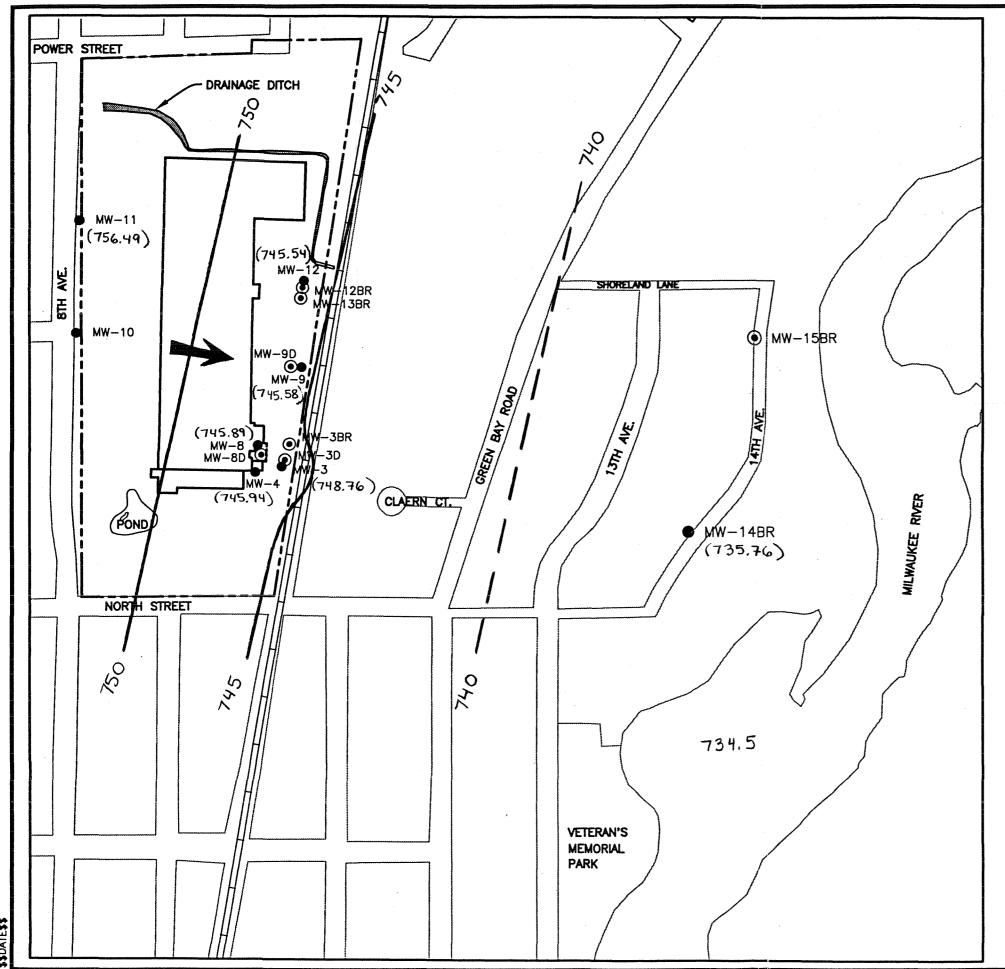
ES = Enforcement Standard

Q = Concentration reported is greater than the method detection limit, but less than the practical quantitation limit (i.e., the presence of the constituent is certain, but the concentration is not certain).

^{**} Also, 1,1,-DCE at 0.2 μ g/L Q (ES = 7 and PAL = 0.7); cis-1,2-DCE at 2.0 μ g/L (ES = 70 and PAL = 7); and PCE at 0.2 μ g/L Q (ES = 5.0 and PAL = 0.5)







LEGEND

RAILROAD

APPROXIMATE PLANT PROPERTY LINE

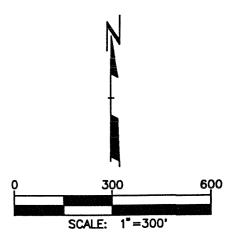
 MW−3 WATER TABLE WELL

 MW−3D PIEZOMETER

(745,94) WATER TABLE ELEVATION (FEET ABOVE NVGD)

NOTES:

- 1. MW-1, 2, 5, 6, AND 7 ARE GENERALLY LOCATED NORTHWEST OF THE RECYCLING DOCK, BUT ARE NOT SHOWN ON THIS SCALE DRAWING.
- 2. MONITORING WELL LOCATIONS AND ELEVATIONS WERE SURVEYED BY RMT INC. ON 12-5-94.



WATER TABLE MAP DECEMBER 14, 1994

TECUMSEH PRODUCTS COMPANY GRAFTON, WISCONSIN



DWN. BY: SPS APPROVED BY:

DATE: SANUARY 1995 PROJ. # 3084.07

FILE # 30840701



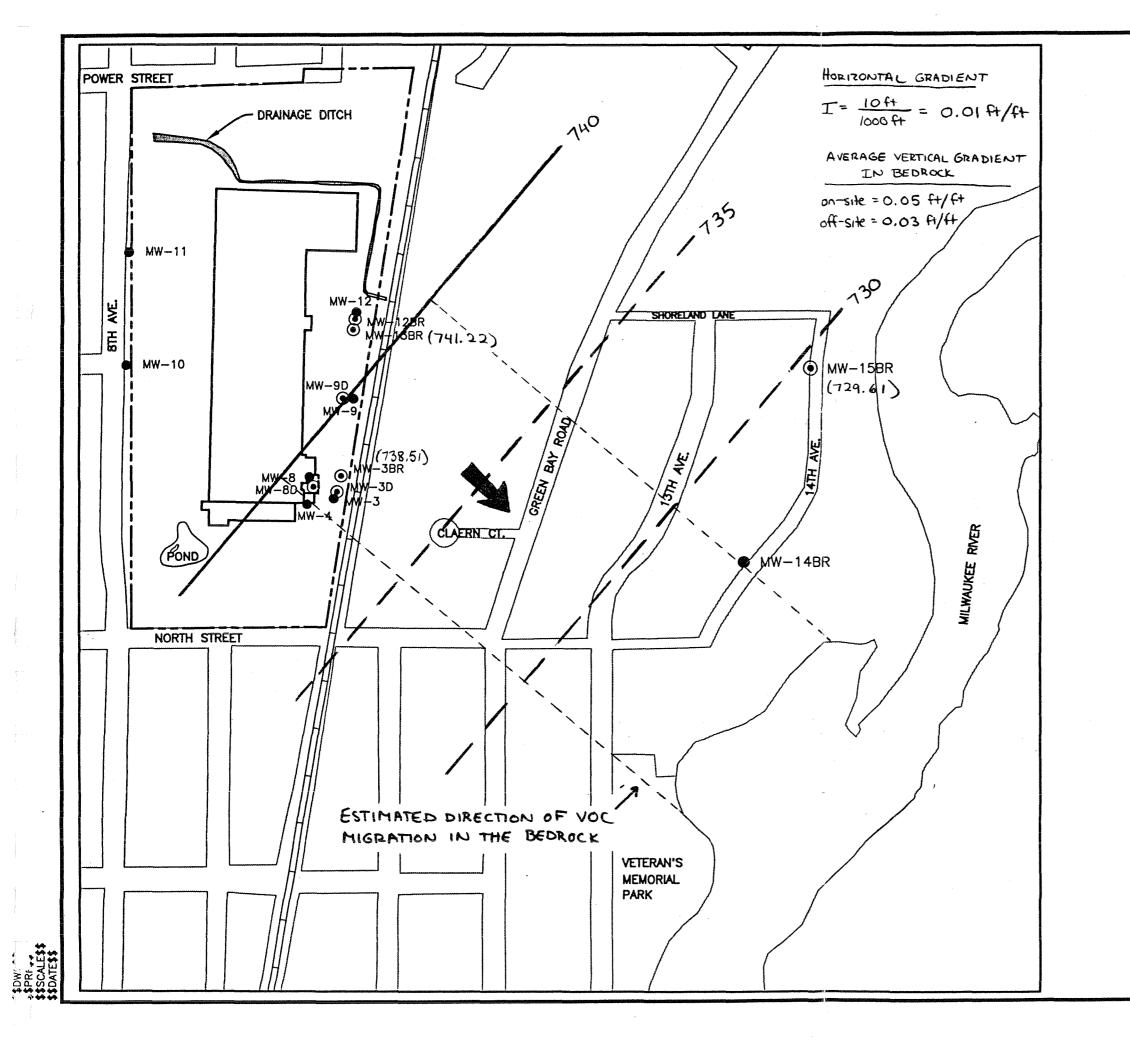
COMPUTATION SHEET

744 Heartland Trail	P.O. Box 8923	Madison, WI 53708-8923 (608) 831-				OF
PROJECT/PROP	OSAL NAME		PREPARED	CHECKED		PROJECT/PROPOSAL NO.
Tecum	iseh Products C	omporny	By:	Date: By:	Date:	3084.07
L						
SOUTH						NORTH
	2016	M 3 3 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9-9-	SB10VOC MW-13BR MW-13BR	8 13 Vo	<u>8</u> -14vo
	# // \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	\(\begin{align*} \be	2 3 X	381 381	N	
750		1391 // CL	T.L.	>> () () () () () () () () () (CLAY
	$\left(\frac{QQ}{QQ}\right)$	39 1 1 1 1 1 1 1 1 1	-103) = 1200-14a	(77-316) \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(58-90) ND	5A~D (0.4-0.8)
720	WEA BED	17-38 (11-28) (NO	-103) # 1200-140 -115) # 350-700			EATHERED BEDROCK
				CAVERN \$ 580		
		120 \$8				
			DOLOMITE	BEDROCK		
660		± 310		1 270 1 530		
		⋣ 140				
630				\$ 350 \$ 410		
		₹ 276 28				
		# 1 28 1		1 300		GROUNDWATER CONCENTRATIONS (Mg/
600				₹ 300 €20		TCE LABORATORY TCA RESULTS
				LOGIC CROSS SECTION A-A'		(TCE) PORTABLE GC TCA) RESULTS
				Vertical Scale: 1"=30"		ND = NOT PETECTED
			H	orizontal Scale: 1"=100"		



COMPUTATION SHEET

ROJECT/PROPOSAL NAME	Madison, WI 53708-8923 (608) 83	PREPARED FAX: (608) 831-3334		CHECKED		PROJECT/PROPOSAL NO.	
		By:	Date:	Ву:	Date:		
Tecomsel Products	Company	LSD	12-15-94			3084,05	
	anganagan garagan gara	e to parties and make the contemporary and the cont		mangan na maturipus menengan na mengantun mengalikih salam sangan kalandah kanjal mendadi SC 100 k Sangan pengan sangan sangan sangan sa	politication with general management of providing a segment on some		garanti kaj la managarangan yahin mengangan kalandaran labah sa
B			The state of the s		The state of the s		B
UEST			and the state of t		And the second s		EAST
					1		
			The state of the s		100 Marie 100 Ma	~	
780 3	<u> </u>				A CALLED TO THE PROPERTY OF TH		
	a a a a a a a a a a a a a a a a a a a	h :					
	TECOMSE H	3 3 3		24 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A	And Alliand	7 3	
1 1	CLAY // //	V. 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7///				MILL
750 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	77/1/1/1/	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/\\/\cLA9 (//	//.\//.	11/11/11/11/11	7817
	SAND			11111111111			
3/2	VAL.	3	5AND	The state of the s			32 July
	V4-3-7-				000000-20-0000000000000000000000000000		734
720					* P7-11-1-0-0-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
			STATE OF THE PROPERTY OF THE P		The state of the s	731.7	
		AVERN \$ 745.42		POLOMITE BEDR	and the state of t		
			No.	7 JOSHUE DE DE	And the second s	735	
690					A CONTRACTOR OF THE CONTRACTOR		
							and the second s
		<u> </u>	The state of the s				
			2				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		5 743,99	The same security and	AND THE PROPERTY OF THE PROPER	A 100 mm m m m m m m m m m m m m m m m m		transportation of the state of
re una contra de la contra del con							
			The state of the s	2000	1		73
			www.c.c.in Activities				
		₹ 740.63	A control of the cont		00-140 Auto-		
630							3
						1	95
					n. approximation		
			7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
600	(III.) The state of the second	= 741.02					
			The state of the s	* * * * * * * * * * * * * * * * * * *			
The state of the s			The state of the s		Monator of the Control of the Contro		
			AND STATE OF THE S				1
			AND ADDRESS OF THE PARTY OF THE				
			ross sect	TON B-B'			
			The state of the s	Address of the second of the s			: :
		\vee	ertical Sco	ile: 1"= 30" Tale: 1"= 200"			FIGURE 5
		H	orizontal S	cale: 1"= 200'			1 TOURE 3



LEGEND

RAILROAD

APPROXIMATE PLANT PROPERTY LINE

MW−3

WATER TABLE WELL

● MW-3D

PIEZOMETER

(729.61)

POTENTIOMETRIC SURFACE

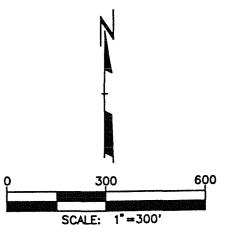
ELEVATION (FEET ABOVE NVGD)

NOTES:

- 1. MW-1, 2, 5, 6, AND 7 ARE GENERALLY LOCATED NORTHWEST OF THE RECYCLING DOCK, BUT ARE NOT SHOWN ON THIS SCALE DRAWING.
- 2. MONITORING WELL LOCATIONS AND ELEVATIONS WERE SURVEYED BY RMT INC. ON 12-5-94.

MEASUREMENT POINT ELEVATIONS

MW-13BR 620.00 MW-13BR 604.06 MW-15BR 626.20



BEDROCK POTENTIOMETRIC SURFACE MAP

(DECEMBER 14, 1994)

TECHMSEH PRODUCTS COMPANY
GRAFTON, WISCONSIN



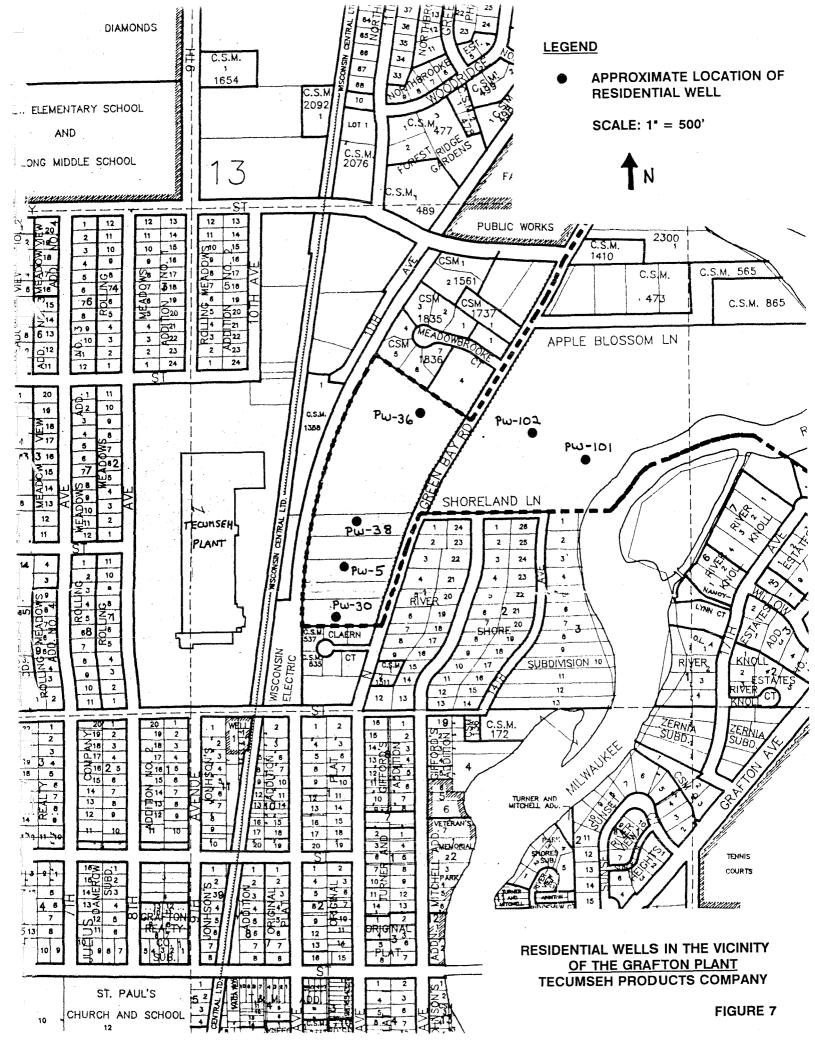
DWN. BY: SPS

APPROVED BY:

DATE: JANUARY 1996

PROJ. # 3084.07

FILE # 30840701



TECUMSEH PRODUCTS COMPANY

FINAL

APPENDIX A

BORING LOGS AND BOREHOLE ABANDONMENT DOCUMENTATION

	of Wisc		ural Re	esources	☐ Eme	d Waste rgency Rea	sponse	_ U:	nder	-	d Tank	8			oil Bo	_	-	Infor	mation 7-91
					∐ Was	tewater .		□o		Resou	ırces					Pag	e 1	of	3
Facility Tecu				Co. 308	4.05						ermit/N	Monitor	ing N	umber		Numb			
				ame and nar					Date	e Drill	ing Sta	rted	Date	Drilli	ng Com	pleted	Drillir	ig Met	hod
	D Env		menta	l Drilling	, Crew	Chief:	Dan			11,	/9/94			11/1	0/94		HSA	4.2	5/2" SS
DNR F	'acitity	Well	No. W	I Unique We	ell No.	Common	Well Na	ame	Fina	al Stat		er Level t MSL	1		vation Feet M	ŀ	orehol		neter Inches
Boring			0435	.60 N, 2	254436	4 52 F			\	Lat	0, 11		Loca	al Grid	Location	-			
State SW		of SE		4 of Section		1.52 E T 10 N	R 21E		-	ong	0 9 H			Fee	:t 🗆]	Feet	∐ E □ w
County	7		<u>'</u>				DN	VR Cou				own/C	ity/o						
Sam	ukee		+			·	46	0			Graf	ton		T	Soil	Prope	rties		
	(In)	± s	Feet	9	oil/Poo	ck Descr	intion							5					1
		Count	占		•	ogic Ori	_			ဟ	υ	£	\Box	at i	- E		<u>ပ</u>		±
Number	Length (I Recovered		Depth		Jnit			Ö	Graphic Log	agram	PID/FID	inda etr	stu	Liquid Limit	asti mit	200	Comments		
Num	Ler Rec	Blow	Dep							s n	Gra Log	We I D i a	PIC	Standard Penetrat	Moisture Content	Lio	П <u>Р</u> Е <u>а</u>	4	Co
A B C D	24 20 14	22 18 26		As above gray b As above 5/2. LEAN (5%), brown	ve, but ye but g	y, dark f, mottle f, mottle trace gra 0YR 4/2	avel, c	dark 10Yi avel wish f.	R	CL				2.5	M M				SS
D	~~	20	- - - 11	Wet at		5 c	,,							73.0	W				ມລ
***************************************	v cert	ify tha	t the in	 nformation o	on this fo	rm is true	and corr	rect to	the	hest o	f my kr	nowled a	Α.	<u></u>			<u></u>	<u> </u>	
Signat				0 0	•	- /		····	Firm		RMT								
Joh (Uswald											744 He	artland 8-831-		•					

	g Num	ber		9VOC Use only as an attachment to Form	4400-	122.					Pag	e 2	of .	3
Number	Length (In) ad Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	SUSN	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Prope pinbil	Plastic Limit	P 200	Comments
E	NR	100/6'	-13 -13 14	No recovery, rock fragment in spoon tip.	The state of the s									SS
		18	15 16	SILTY SAND (SM), sand fine grained, yellowish brown 10YR 5/6, dense.	SM					w				НР
I H	16	65	17	As above, but very dense.	and the first terminal and the formula of the first and th					w				SS
н														HP
I	18	19	21 	POORLY GRADED SAND WITH SILT (SP-SM), 10% silt, yellowish brown 10YR 5/4, medium dense.	SP- SM					W				ss
	20	66	24 	As above.						w				НР
K	20				and the same of th					**				SS
	12	82			de distribuir de					w				ss
M N			-30 -31 -31 -32	As above.										HP

Boring Number	SBS	9VOC Use only as an attachment to Form	4400-	122.					Pag	e 3	of 3	3
Sample	Feet							Soil	Proper	ties		
(In) ed unts	n H	Soil/Rock Description					E					
	占	And Geologic Origin For	ဟ	U	ε	0	a t	re +		υ.		+ s
ath ove		Each Major Unit	ပ	ᅙ	Jra	Ή	atr atr	stur tent	4 i d	sti it	200	hen
Number Length (Ir Recovered Blow Count	Depth		တ	Graphi Log	Well Diagram	PID/FID	Standard Penetrat	Moistur Content	<u>.</u> =	Ø €		Comment
Number 1 100/0				191	30	<u>a</u>	ഗമ	E O	<u> </u>	<u>-</u> П	۵.	<u> </u>
	E		***								:	
0 1 100/-	4"-33	Gravel in spoon.	SP-	開排								SS
	E	Graver in spoon.	SM									
	-34			開建								
	E											
P NR 50/10	00-35	No recovery.										ss
	E	•										
	36											
	E											
4	-37											
	E											
	38											
	E											
	39											
	E	SANDY SILT (ML), gray 10YR	ML									
Q 📆 100/	4" -40	. 5/1, very stiff.						М				SS
Q 100/	E	SILT (ML), gray 10YR 5/1, hard.	ML				>4.5	М				
22	-41	End of Boring at 41 Ft.										
		3										
			;									
								-				
			}									
			Tanasana and an									
									,			
			İ									
					i							
					•							

	of Wisc		ural R	esources	Route ? Solid	l Waste rgency Resp	onse 🔲 U	nder	Waste ground Resou	d Tank	8				oring 400-12	_	Info	ormation 7-91
******			_					ther								e 1	of	2
Facility Tecu				Co. 308	4.05			Lice	ense/P	ermit/l	Monitor	ing N	umber		g Numb 10V			
				ame and nar		•		Dat	e Drill	ing Sta	rted	Date	Drilli	ng Cor	npleted	Drilli	ng M	ethod
	azows		menta	d Drilling	, Crew	Chief: D	an		11,	/7/94			11/	7/94		HS	A 4.2	25/2" SS
DNR F	`acitity	Well	No. W	I Unique We	ell No.	Common W	Vell Name	Fin	al Stat		er Level	Surf			1	oreho		meter
Boring	Locati	ion		***************************************		<u> </u>		<u> </u>			t MSL	Loca		Feet M Locat	ion (If	applica		Inches
State					N	I, E			Lat	09 #					N		·	□ Е
SW		of SE	1/	4 of Section	13	т 10 м,я			ong	0) 11			Fee		S		Feet	□ w
County Oza	' ukee						DNR Co.	unty	Code	Graf		ity/ o	r Villag	ge				
Sam	ıple		t a			· · · · · · · · · · · · · · · · · · ·								Soi	Prope	rties		
	(In)	Counts	F.	S	oil/Roc	k Descri	otion						e i					
,	. Pr	οď	님			ogic Orig			S	υ	5	8	at		_	U		± = = = = = = = = = = = = = = = = = = =
ber	ength	30	ŧ		Each	Major Ui	nit		Ü	Graphic Log	- g	PID/FID	nd e tr	st.	quid +i#	+s +	200	je je
Number	Length (I Recovered	<u>B</u>	Depth						s n	Graf	Well Diagram	PIO	Standard Penetrat	Moisture Content	Liau	Plas	В	10
A B C D	14 20 20	13 16 24		(CL), gravel black LEAN (gravel dark y medium coloring LEAN (plastic 5/4, m 10YR 6/2, volume as above sand se hard a As above	some si (20%), 10YR 2 CLAY (10%), ellowism stiffing). CLAY ity, yellottled 5/2 and ery stiffice, trace am, but 19-9.5 re.	moderate (CL), medi (CL), little high plass h brown, mottled (CL), high plass high pale brown fr. e gravel, rown 10 Y	little fine e plasticit um stiff. le fine sticity, 10YR 4/6 (brown hown 10YF occasiona R 5/3,	y, - , , , , , , , , , , , , , , , , , ,	CL				.5-1.0	M M				ss ss ss
		ify tha	t the in	nformation o	n this for	m is true ar						e.						
Signat	ure		10	lu E	Osco	S		Firm	1		eartland 08-831-							

Borin	g Num	ber		10VOC Use only as an attachment to Form	4400-	122.					Pag	e 2	of	2
San	nple	10	Feet						Soil	Prope	rties			
Number	Length (In) Recovered	Blow Counts	Depth In Fe	Soil/Rock Description And Geologic Origin For Each Major Unit	ន១ន៣	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
E	14	50	13	WELL GRADED SAND (SW), fine to coarse, trace (5%) fine gravel, gray 10YR 5/1, dense.	sw					w				SS
G H	10	50	-16 -17 -17 -18 -19	As above, but little (15%) fine to medium subrounded gravel.						w				SS
I	20	27		POORLY GRADED SAND (SP), fine to medium, trace (5%) fine gravel, gray 10YR 5/1, medium dense.	SP					w				SS
		46	23 	As above but mostly fine sand.						w				HP SS
K L														нР
м ///	1	100+		SILT (ML), with dolomite bedrock fragments, light yellowish brown 10YR 6/4. Auger Refusal at 29.8 Ft. Dolomite Bedrock.	ML					w				SS

	of Wisc			_	l Waste		z. Waste					oil Bo	_	_	Infor	mation 7-91
					rgency Response	□Wa	dergroun ter Resou		S				_			•
	y/Proj umseł			Co. 3084.05		Oth	icense/P	ermit/l	Monitori	ing Nu	ımber		Pag Numb 11V	er	of	2
Boring	Drille	d By (Firm n	ame and name of cre		D	ate Drill	ing Sta	rted	Date	Drillir			Drillin	g Mei	hod
	D Env lazows		menta	l Drilling, Crew	Chief: Dan		11,	/7/94			11/8	8/94		HSA	4.2	5/2" SS
DNR I	acitity	Well	No. W	I Unique Well No.	Common Well N	ame F	inal Stat		er Level t MSL	Surfa		vation Feet M	1	orehole		neter Inches
Boring State	Locati Plane	ion		Ŋ	N, E	L	Lat	0 9 11	·	Local	l Grid	Locati		applica	ble)	
SW		of SE	1/	4 of Section 13	T 10 N,R 21F		Long	0 1 11	2 /0:			et 🗆	S	1	Peet	□ w
Oza Oza	ukee				;	NR Coun	ity Code	Graf		ty/ or	Villag	де				
San	nple	Ŋ	eet								<u>-</u>	Soil	Prope	rties	ι	
Jer	Length (In) Recovered	Count	H F	And Geol	ck Description ogic Origin F Major Unit		s S J	aphic g	Well Diagram	PID/FID	Standard Penetration	Moisture Content	iquid imit	stic it	200	Comments
Number	Reco	Blow	Depth		, ,		s n	Graf	Ji ag	PID	Star	Son is	ğ E	Plas	2,50	L CO
A 77	18	18	1 2 3 3 4 5	LEAN CLAY plasticity, day 10YR 4/6, ve	ry dark brown oderate plasti (CL), high rk yellowish tery stiff, motte gravel, stiff	n city, prown tled.	CL				2-2.5	M M				ss
c 7/	16	14	8		w plasticity, g 5/2, very stif nd seams, stra	ff,	ML			Annabel en	3-3.5	D				SS
D 7	NR	46	-10 -11 -11 -12	No recovery, p spoon is wet	at ~11.5°.	·	SP					w	A LONG TO THE TOTAL THE TOTAL TO AL TO THE T	And the second s		SS
		ify tha	t the in	nformation on this for	rm is true and con					e.						
Signat	иге			h Clswal	<u>d</u>	F'i	irm		eartland 08-831-4							

Borin	g Numl	ber	SB	11VOC Use only as an attachment to Form	4400-	122.	:				Pag	e 2	of 2	2	
San	Sample Soil Properties														
Number	Length (In) Recovered	Blow Counts	Depth In F	Soil/Rock Description And Geologic Origin For Each Major Unit	SUSU	Graphic Log	Well Diagram	PID/FID	Standard Penetratior	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments	
E	12	34	13 14 15	POORLY GRADED SAND (SP), medium to coarse, few (5-10%) gravel, yellowish brown 10YR 5/6, dense Dolomite fragments at 14.2'.						w				ss	
														НР	
G //	8	5 2	18 18	WELL GRADED SAND (SW), fine to coarse, few (10%) fine to medium gravel, trace silt, brown 10YR 5/3, dolomite fragments.	sw					w				SS	
Н			19 											НР	
I H	NR	68	21 	No recovery, pushed gravel or cobble.										SS	
1			23 											HP -	
к	6	100/.1	25 26	POORLY GRADED SAND (SP), fine, trace silt/clay, gray 10YR 5/1, very dense.	SP					w				SS	
22				WEATHERED DOLOMITE BEDROCK, very pale brown 10YR 7/3. End of Boring at 26.2 Ft.		/ /									
				Dolomite Bedrock.											
		-													

	of Wisc		ural Re		Route	To: d Waste			Haz. V	Waste					oil Bo	_	_	nfor	mation 7-91
•						ergency R	espon			groun	l Tanl	C8		-					
					☐ Was	stewater				Resou	irces					ъ	4		2
Facility	/Proj	act Na	ma						Other		ermit /	Monito	ing N	umber	Boring	Pag		of	2
				Co. 3084	1.05				Lice	1156/1	el IIII•/			umber		12V			
				ame and nam					Dat	e Drill	ing St	arted	Dat	e Drillir	ng Com	pleted	Drillin	g Met	hod
	D Env		menta	l Drilling,	Crew	Chief:	Dan				/8/94			,	8/94		HSA	4.25	5/2" S
DNR F	acitity	Well	No. W	I Unique Wel	ll No.	Common	n Well	Name	Fin	al Stat		ter Leve et MSL	1	face Ele		1	orehole :		neter Inches
Boring			0105	.75 N, 2:	E A A A 7	9.58 E			1	Lat	0,1	19	Loc	al Grid			applical	ble)	
State SW		of SE		4 of Section		7.36 E T 10 1	N.R. 2	1 E		ong	0,1	1		Fee	et 🗆		I	eet	⊔ e □ w
County			-/					DNR C					ity/ c						
	ukee	·····	1 .	<u> </u>				46		<u> </u>	Gra	fton		T		*			
San		S	eet											- C	Soil	Prope	rties		-
	(In)	Count	F	So	il/Ro	ck Desc	ripti	on						·	01				
د	h ere	Ç	님	And		logic O	-			ဟ	<u></u>	a E	Ħ	ar ra	ğ t	ס	<u>.</u>	_	ţ
Number	ength	30	Depth		Each	Major	Unit			၁ ၄	Graphic Log	_ B	PID/FID	and tet	ist	quid hit	ast mit	200	Comments
Z Z	Length (Ir Recovered	BIG	Dep))	Gray Log	Well Diagram	PI	Standard Penetrat	Moisture Content	Lia mi	Plas Limi	۵	LO Co
			E																
			1																
			= 1									3							
			E .																
			-2																
A 7/	24	13	-3	CLAYE		ND (SC) nedium				sc					М				ss
			E								22/1	Ä							
			-4	SILT (M					Г	ML		Ц			М				
W			E			, mottle				CL									
в 77	20	28	_5	LEAN C						CL	1	7		.5-1.0	M				ss
В	20	20	=			w (10%								1.0	***				
//			<u>6</u>	5/4, m	edium	llowish stiff.	DIOV	VII IUI	K (9.5	D/M				
			E	SILT (M			 vel. 1	 low		ML				3.5- 4.0	D/M				
2			-7	plastici		own 10			ry	ML									
c 77	14	30	F	stiff.			****			-		4		2.5-	M				ss
	14	30	- 8	LEAN ((CL), s		silt		CL				3.0	M				33
//			E			isticity,		10YR		CL									
c 7			-9	5/1, ve			07					1							
1/2			E	POORL	v CD	ADED	CAN	D (SD)		}	///								
~ 77			-10			10YR 5			,	-		;}			M				
D //	NR	60+	E				, - , -			SP		4							SS
//			-11	No reco		nound o	770110	1/aahh	10]							
D			E	NO TECO	very,	pouna ş	grave	1/ 0000	ie.			;]	ļ						
_ 1/2	1		<u></u>									4							
I here	by cert	ify tha	t the i	nformation or	n this fo	rm is tru	e and	correct t	o the	best c	f my l	nowled	ge.						
Signat	ure			10	1.0	, 1			Firn	n.	RM	Γ							
			(1/1/	(XIII	Jold			1			eartlan 08-831							

Borin	g Num	ber	SB	12VOC Use only as an attachment to Form	4400-	122.					Pag	e 2	of .	2
Sam			Feet							Soil	Prope	rties		
Number	Length (In) Recovered	Blow Counts	Depth In Fe	Soil/Rock Description And Geologic Origin For Each Major Unit	ន១នា	Graphic Log	Well Diagram	PIO/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
E	12	18	-13 -14	WELL GRADED SAND (SW), few fine to medium gravel, trace silt, gray brown 10YR 5/2. Dolomite fragments.	sw					W				SS
			15											НР
F G H	2	38	17	WELL GRADED SAND WITH GRAVEL (SW), medium to coarse sand, some fine to coarse gravel (30-35%), trace silt (5%), gray 10YR 5/1, dense.	sw					W				SS
			19 											нР
I I	12	100/3"	21	POORLY GRADED SAND WITH SILT (SP-SM), fine to medium sand, 10% silt, trace gravel, gray 10YR 5/1, dense.	SP- SM					w	- Annie			SS
1			23 	SILT WITH GRAVEL (ML), little (15-20%) fine to coarse gravel, gray brown 10YR 5/2, stiff.	ML									НР
к	20	42	25 	As above but trace gravel, hard.						D				SS
K L	18	62	27 	As above.									-	SS
м	10	58		As above. WEATHERED DOLOMITE BEDROCK, olive yellow 2.5Y 6/8.			-							SS
				End of Boring at 30.5 Ft.										

		consin of Nat	ural Re	☐ Emergency Response ☐	Unde	Waste rground r Resou		8				oring 100-122	_	Info	rmation 7-91
					Othe		irces					Pag	e 1	of	2
Facilit				Co. 3084.05	Lic	ense/P	ermit/l	Monitor	ing N	ımber		Numb			
				ame and name of crew chief)	Da	te Drill	ing Sta	rted	Date	Drilli	ng Con	pleted	Drilli	ng Me	thod
Ziel	azow	ski		ll Drilling, Crew Chief: Dan			/8/94		<u> </u>		9/94				25/2" SS
DNR I	Cacitity	y Well	No. W	I Unique Well No. Common Well Name	Fir	al Stat		er Level t MSL	Surf		vation Feet M	1	orehol		meter Inches
Boring State		ion		N, E	1	Lat	0, 11		Loca	l Grid		on (If a	pplica	ble)	_
Sw		of SE	1/	4 of Section 13 T 10 N,R 21E		Long	0 y H			Fee	:			Feet	□ E
Count		<u> </u>		DNR C 46			Civil T Graf	own/C	ity/o						11
San			eet				0				Soil	Proper	ties		
	(In) ed	Counts	1	Soil/Rock Description						ion					
د	h (ere	Cou	占	And Geologic Origin For		ဟ	<u></u>	am	유	ard rat	ure n+	-0	<u>.</u>		nts
Number	Length (I Recovered	Blow	Depth	Each Major Unit		၁ ၄	Graphi Log	Well Diagram	PID/FID	Standard Penetrati	Moisture Content	Liquid Limit	last imit	200	Comments
N N	Le Re	<u>@</u>	- B)	Gra	₩ Di	PI	St Pe	운 3	בב	בֿב	۵	ු ව
A B C	24	9 7 100/0*		SANDY LEAN CLAY (CL), ~3 fine sand, trace gravel, high plasticity, yellowish brown 103 5/4, medium stiff, mottled. As above.		CL				.5-1.5	M				SS
C TO	12	26	9	LEAN CLAY (CL), moderate plasticity, gray 10YR 5/1, hard	đ.	CL				>4.5	M/W			emeritärikkinin gabat apakataran energeniska belängsen et intidiaren	SS
			11	POORLY GRADED SAND (SP) fine, grayish brown 10YR 5/2 medium dense.	,	SP		_			,				
I herel		ify tha	t the in	aformation on this form is true and correct to	Firm				e						
).h.	Cloud	T III	•		artland 8-831-							
- · ·		/	/ ' '	C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											

Borin	g Num	ber		13VOC Use only as an attachment to Form	4400-	122.					Pag	e 2	of	2
San	nple	S	Feet						c	Soil	Prope	rties		
	Ę å	Counts	I F	Soil/Rock Description			_		d tion	ø .		4.		v
Jec	gth over	ü	1	And Geologic Origin For Each Major Unit	S J	hic	gram	FIL	dar	stur tent	p +	stic +	80	ien†
Ncm	Length (In) Recovered	Blow	Depth		s n	Graphic Log	Well Diagram	PID/FID	Standard Penetrati	Moisture Content	Liqui Limit	Plast Limit	P 200	Comments
E F I I I I I I I I I I I I I I I I I I			E											HP
			13											
			F											
F //	14	85	14	WELL GRADED SAND (SW), fine to coarse sand, few (10%)	sw					w				SS
			15	fine to medium gravel, trace										
			E	(5%) silt, grayish brown 10YR 5/2, very dense, dolomite										
G			16	fragments.										HP
			17											
			Ē,.											
н	10	90	18	As above.						w				SS
			19											
				SILTY SAND (SM), sand fine	SM									
I			= "	grained, gray 10YR 5/1, dense.						W				HP
			-21											
J //	5	108/6"	E	SILT WITH GRAVEL (ML), little (15-20%) fine gravel, nonplastic,	ML					М				SS
			23	gray 10YR 5/1, hard.										
			-24											
К			F											SS
			25 											
			- -26	As above but trace Cine and	ļ [
L	14	140	F	As above but trace fine gravel.						D			·	SS
			27											
24.			28											
			E											
			-29	,										
T			30	As shove but two as also										
м	9	100/3"	E	As above, but trace clay.										SS
				Auger Refusal at 30.8 Ft. Dolomite Bedrock.										
				Dolomite Bouroek.										

	of Wisc		ural Re	esources		d Waste			Vaste		•			oil Bo		-	nfori	mation 7-91
						ergency Respons	_		ground Resou	d Tank	8							
						see water		ther									of 3	3
Facility Tecu				Co. 3084	4.05			Lice	nse/P	ermit/l	Monitor	ing N	umber		Numb			
		-		ame and nam				Date	e Drill	ing Sta	ırted	Date	Drilli	ng Con	pleted	Drillin.	g Metl	nod
	D Env		menta	l Drilling,	, Crew	Chief: Dan			11,	/9/94			11/	9/94		HSA	4.25	5/2" SS
DNR F	'acitity	Well	No. W	I Unique We	ll No.	Common Well	Name	Fina	al Stat		er Level t MSL	Surf		vation Feet M	1	orehole (Diam 3.3 I	
Boring		ion				N, E		<u> </u>	Lat	0 9 11		Loca		Locati	on (If	pplical		
State SW		of SE	1/	4 of Section		ч, с т 10 n, r. 21	E		ong	0,1			Fee	 et □		F	eet [」E]w
County	7						DNR Co	unty	Code	Civil T		ity/ o	r Villa	ζe				
Sam	ukee		+				40			Grai	lon		Ι	Soil	Prope	rties		<u> </u>
	c c	\$	Feet		·1/D -	-1- D'4'-		l					6		•			
	D b	Counts	H	L	•	ck Descriptio logic Origin		ļ	S	u	ا ا			e +		U		\$
Jer	ength ecover		3	7111		Major Unit	1 01		ပ	بَدِ	ar a	Ή	atr	sta ten	P ±	stic it	200	Ē
Number	Length (I Recovered	Blow	Depth			•			s n	Graphic Log	Well Diagram	PID/FID	Standard Penetrat	Moisture Content	Liquid Limit	ار <u>ه</u> ات ه	ص ي	Comments
A 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	24	30 48		(35%), low pla 10YR As abov 10YR	few (asticity 5/4, vi e but 4/2. CLAY low p 10YR	(CL), some 10%) fine gray, yellowish erry stiff. dark grayish (CL), few (blasticity, yellowish) 5/4, very stiff.	avel, brown brown 10%)		CL CL				2.0	M/D M				SS
D	24	37	11 -12	As abov									>4.5	M				ss
I herel Signat		ify tha		***************************************		rm is true and o	orrect to	the Firm				e.						
vigitat	416)	da ()	\mathcal{O} .	0\$		r 11.111	•	RMT 744 H	eartland	l Trail	, Madi	son Wi	sconsir	ı		
				$A_{k} \subset \mathcal{C}$	XDu	jall'					08-831-							

Borin	g Num	ber		14VOC Use only as an attachment to Form	4400-	122.					Pag	e 2	of .	3
San	nple	IV.	Feet							Soil	Prope	rties		
	(In) ed	Counts	ı	Soil/Rock Description					ri on	0,				
ڍ	Length (In Recovered	ပိ	H	And Geologic Origin For	S	Graphic Log	Well Diagram	유	Standard Penetrati	Moisture Content	ס	ပ္	_	Comments
Number	ngt cov	Biow	Depth	Each Major Unit	၁	aph g	agr	PID/FID	and	ist nte	Liquid Limit	Plast Limit	200	ame
_₹	Re Le	<u>~</u>	<u>a</u>		5	69	D We	I	St Pe	<u>୫ ଓ</u>	تت	<u> </u>	d	ပိ
E 7	24	32	13	LEAN CLAY (CL), some silt (35%), high plasticity, gray 10YR 5/1, very stiff.	CL				3-4.0	М				SS
F 7//			15	As above.						М				SS
G 7		44	-17 - - - - - - - - - - - - - - - - - -	POORLY GRADED SAND (SP), fine, trace silt, gray brown 10YR 5/2, dense.	SP					M/W				ss
				Wet @ 18 ft.										нР
I	14	42		As above.					10000	w				SS
1			24											нР
к	16	34	26	As above.						w				SS
<i>''//</i>				LEAN CLAY (CL), trace silt, moderate plasticity, gray 10YR 5/1, very stiff.	CL					D				
L Z	6	100/4'	31 -32	As above, trace fine gravel, hard. 1" silt seam at 30.5-30.7', gray 10YR 5/1, medium stiff.					- Community Comm	D				SS

Borin	g Num	ber	SB	14VOC Use only as an attachment to Form	ı 44 00-	122.	,				Pag	e 3	of	3
	nple		Feet							Soil	Prope			
Number	Length (In) Recovered	Blow Counts	占	Soil/Rock Description And Geologic Origin For Each Major Unit	SUSA	Graphic Log	Well Diagram	PIO/FID	Standard Penetration	Moisture Content	-iquid -imit	Jastic _imit	200	Comments
Number N	1 Length Recover	0 80 80/100 100/3	Jep th		ပ	Graphic	Well Diagram	PID/FID	Standar Penetra	Moistur Content	Liquid Limit	Plastic Limit	P 200	S S S Comment
						Andrew Company of the								

State of			ural Re	esources		Γο: d Waste ergency Response	_		Vaste ground	d Tank	8				oring 00-122		nfori	matior 7 -91
						tewater			Resou	ırces					Do.	e 1		2
Facility	/Proje	ect Na	me		 			Lice		ermit/l	Monitor	ing N	umber	Boring			of .	<u></u>
Tecu	ımseh	Pro	ducts	Co. 3084										SB	15V	<u>oc</u>		
				ame and nam		·		Dat	e Drill	ing Sta	rted	Date	Drillin	ng Com	pleted	Drillin	g Metl	hod
) Env azows		шепта	ii Driiiiiig,	Crew	Chief: Dan			11/1	15/94			11/1	5/94		HSA	4.25	"
DNR F	acitity	Well	No. W	I Unique Wel	l No.	Common Well	Name	Fina	al Stat	ic Wat	er Level	i			- 1	orehole	Diam	eter
D	T									Fee	t MSL		58.8 1			pplical	8.3 I	nches
Boring State			0104	.36 N, 25	54436	0.98 E			Lat	09 11		Loca	ii Giid		•	фриса	_	ΞE
SW		of SE	1/	4 of Section	13	T 10 N,R 21			ong	0 9 81				et 🗆		F	eet [
County							DNR Co 46	unty	Code	Civil T Graf		ity/ o	r Villag	ζe				
Sam			+							0.44		· · · · · · · · · · · · · · · · · · ·		Soil	Prope	rties		
	(In)	±s+	Feet	So	il/Roc	ck Description	n n	1					ion					
		Counts	占	1		logic Origin			ဟ	U	E	0	a+	a +		U		+5
ber	eng†h ecove		1	1		Major Unit			ပ	F i	9 - B	PID/FID	nda	stu	rid +	asti mit	200	mer
Number	Length (I Recovered	Blow	Depth						s n	Graphic Log	Well Diagram	PID	Standard Penetrati	Moisture Content	Lia Limit	P in a	G G	Comments
A B C	24	45		As above As above 5/4 gra	ttle si 10YR e, very e, yelleding t	(CL), 5% gralt, plastic, ye 5/4, stiff. The stiff of the	ellow		CL				2.25	M M				ss
D	22	38	11	As above	e.				SP				3.75	M M	COLORADO POR POR POR POR POR POR POR POR POR PO			SS
		ify tha	t the ir	oformation on	this for	rm is true and c	orrect to	· · · · · · · · · · · · · · · · · · ·		f my kı	nowledg	е.						
Signat	ure	L	<u>.</u>	J. 24	zlı	rect.		Firm	,		eartland 08-831-							

Boring	g Num	ber		15VOC Use only as an attachment to Form	4400-	122.					Pag	e 2	of .	2
Sam			Feet							Soil	Prope	rties		
	(In) ed	Counts	1	Soil/Rock Description					Ö					
) (Jo	두	And Geologic Origin For	S	U	E	Ω	a ta	n +	_	υ		\$
ber	gtt	3	‡	Each Major Unit	ပ	Ë	- Bra	ÆΙ	etr etr	stu ten	<u></u>	÷ ÷	200	le l
Number	Length (In Recovered	Blow	Dep th		S	Graphic Log	Well Diagram	PID⁄FID	Standard Penetration	Moisture Content	Liquid Limit	Plast Limit		Comments
-	<u> </u>	ш_		POORLY GRADED SAND (SP),		<u> </u>	30	<u>а</u>	O IL	Σ0		<u>a </u>	<u> </u>	0
E	19	21	Ē	medium grained, pale brown						w				ss
			-13	10YR 6/3.			1							
			E	As above, brown 10YR 5/3, medium dense.	1	3.6								
			14	mediani dense.										
22			E											
E1			-15											HP
			E											
			16	·										
			E											
F 🕏	22	16	17	As above, grayish brown 2.5Y 5/2.						w				SS
			E											
			-18											
			E											
F1			19											HP
			E											
			2 0											
F1			E											
G 💆	18	30	-21	As above.						w				SS
			E											
			-22											
			E											
G1		_	23											HP
			E											
			-24											
			E		İ									
н	NR	100/4"	25 	No recovery.										SS
4				Auger Refusal at 25.5 Ft.		ļ i								
				Dolomite Bedrock.										
					:									
								•						
				·										
		1												
									ŧ .					

State of Wisco Department of		al Re	sources			se U U	az. Wast ndergrou Vater Res	nd T		,			oil Bo	00-122	2		mation 7-91
D 314 /D 1	. 37					<u> </u>		n	** /3	f 'A			D :			of	1
Facility/Project Tecumseh			Co. 308	4.05			License/	Perm	nt/N	ionitor	ing N	umber		L6V			
Boring Drilled					w chief)	****	Date Dr	illing	Star	rted	Date	Drillir			Drillin	g Met	hod
WTD Envi Zielazowsl		enta	l Drilling	, Crew	Chief: Dan	l 	11	/15/	94			11/1:	5/94		HSA	4.25	;
DNR Facitity	Well No	o. W	Unique W	ell No.	Common Well	Name	Final St			r Level : MSL	1	ace Ele 18.4 1		ì	orehole	Diam 8.3 I	
Boring Locatio			······································				i		, H	WIND	.1				pplical		iiches
State Plane			.08 N, 2			- 70	Lat) H							<u></u>] E
SE 1/4 or	f SE	1/4	4 of Section	13	T 10 N,R 2	DNR Cor	Long			own/C	ity/o		t 🗆	<u>s</u>	F	eet [<u></u>
Ozaukee						46	unity Cou		raf		1 4 y / O	t villag	Ç				
Sample		eet											Soil	Prope	rties		
[CIn]	Counts	щ	S	oil/Roc	k Descripti	on						P					
, cal	no	H			ogic Origin		ဟ	U		E	8	ard at	ıre 1	-	ပ		148
Number Length (Ir Recovered	1	ţ		Each	Major Unit		ر د	0		Well Diagram	PIO/FID	Standard Penetrati	Moisture Content	quid mit	asti mit	200	Comments
Nen Nem	Blow	Depth					S	Gra	Log	Jia Dia	딥	Sta	Mo i Con	i a i	Plas Limi	2	E C
	E		3" Tops	oil.	***************************************		7					-					
	E	-1	8" FAT		(CH).		CH										
A 🖾 2 1	100/2	2	Auger I Compet	ed hole outh.	at 2.8 Ft. omite Bedre approximat Hit auger re	ock.											SS
I hereby certif	y that t	the in	1/		m is true and		the best	RI 744	MT 4 He	owledg artland 8-831-	Trail						

	of Wise				Route To												Info	rmation
Depar	tment	of Nat	ural Re	esources	Solid		_		Waste				F	orm 44	00-122	2		7-91
					☐ Emer	gency Respon			groun Reso	d Tankı	В							
					· · ·	ewater		Other		ai ces					Pag	e 1	of	2
Facility				Co. 308	4.05					ermit/N	Monitor	ing N	umber		Numb	_	***************************************	
				ame and nai		chief)		Dat	e Drill	ing Sta	rted	Date	Drilli				ıg Me	thod
	D Env		nenta	d Drilling	g, Crew	Chief: Dan	1		11/	15/94			11/1	5/94		HSA	4.2	5
DNR F	acitity	Well	No. W	I Unique W	ell No.	Common Wel	l Name	Fin	al Stat		er Level t MSL	1	ace Ele		1	orehol		meter Inches
Boring State			9932	.83 N,	2545872	.33 E			Lat	0 9 11		Loca	al Grid	Locati		applica	ble)	□Е
SE		of SE		4 of Section		r 10 n, r 2	1E	L	ong	09#			Fee	.t 🗆			Feet	□ w
County	y ukee					-	DNR-Co	ounty	Code	Civil T Graf		ity/ o	r Villa	ge				
Sam			+	1			170			Giai	1011			Soil	Prope	rties		7
	Length (In) Recovered	u Counts	th In Feet	1	d Geold	k Descripti ogic Origin Major Unit	For		ຣ ວ	Graphic Log	 agram	PID/FID	Standard Penetration			s+ic	200	Comments
Number	ene.	Blow	Depth			,			S	Graf Log	We I	Ü	Star	5 5	 ₽	L P	P 26) III
A 77	18	30		sand gravel increa yellow rootler SILTY graine 10YR SANDY (ML), (dolon 10YR SILT (N	Y LEA, 0-30%, ses down brown ts. SAND (ed, light 6/4, med 7 SILT V 20% sannite), ligh 6/4, hall ML), 5%	gravel, no	CL), 50d content stic, stiff, fine brown se. AVEL ravel sh brown specific shows a second stiff, fine brown second stiff shows a second shows	% nt vn c,	CL SM ML				1.5	M M				SS
D I herel	24 by cert	105	-10 -11 -12 t the in	LEAN little s 10YR 10YR	CLAY (silt, plas 5/2, gra 5/1, ha	CL), 5% g tic, gray-bading to a rd.	ravel, prown gray			<u> </u>		re.	>4.5	M				ss
Signat	ure /	1 Na	J.	Doze	wal	L.		r irn	11		eartland)8-831-							

Borin	g Num	ber	SB	17VOC Use only as an attachment to Form	4400-	122.					Pag	e 2	of :	2
San	nple	40	Feet							Soil	Prope	rties		
Number	Length (In) Recovered	Blow Counts	Depth In Fe	Soil/Rock Description And Geologic Origin For Each Major Unit	SJSN	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
E		40	- - - - - - - - - - - - -	As above, less gravel (2%), gray 10YR 5/1.	CL				>4.0	М				ss
			—14 —	Thin (1mm) sand seam at base of spoon.										
F <table-cell></table-cell>	5	100/5	16	WEATHERED DOLOMITE BEDROCK, lean clay with gravel, gravel composed of dolomite, hard.					>4.5	М				SS
G	1	100/1	17 	As above, chunks of dolomite.		7/7 7/7				М				SS
			18	Auger Refusal at 18 Ft. Competent Dolomite Bedrock.										

	of Wisc		unal D	esources	Route '					. .						_	_	Info	rmation
Depai	tment	oi Nai	urai ne	esources		d Waste ergency Respon				Vaste ground	l Tank	8		r.	orm 44	00-122	;		7-91
						tewater				Resou		-							
								□ o									e 1	of	6
	y/Proj umseh			Co. 308	4.05				Lice	nse/P	ermit/N	Monitor	ing Ni	umber	_	V3B			
				ame and na					Dat	e Drill	ing Sta	rted	Date	Drillin	ng Com	pleted	Drilli	ng Me	thod
						enn Holme	en				/8/94			11/1					Rotary
DNR I	Facitity	Well	No. W	I Unique W	ell No.	Common We MW3BR	ll Nar	me	Fina	al Stat		er Level t MSL	1	sce Ele 58.7		- 1	orehol 1		neter Inches
	Locati Plane		39622	.38 N,	 254442	2.27 E				Lat	0 9 11		Loca	l Grid	Locati		pplica	ble)	
SW		of SE		4 of Section		T 10 N,R 2	21E		L	ong	0 9 11			Fee	:			Feet	□ E □ W
Count	y ukee						DNI 46		inty	Code	Civil T Graf	Cown/C	ity/ o	r Villag	ζe				
	nple		±.												Soil	Proper	rties		T
	(In)	4	Feet		11/D a	ala Daganina								6					
	D &	Counts	F	II .		ck Descript logic Origin				ဟ		ے	0		<u> ب</u>				S.
r L	t +		1	A		Major Uni		1		ن ن	بار م	r a	Ħ	t dar	e t	<u>+ -:</u>	tic t	0	eu.
Number	Length (Ir Recovered	Blow	Depth		Lacii	iviajoi Cili				လ	Graphic Log	Well Diagram	PIO/FID	Standard Penetrat	Moisture Content	Liquid Limit	Plast Limit	200	Comments
<u>z</u>	٦٣	<u> </u>	E		· · · · · · · · · · · · · · · · · · ·						ם ח	30	<u> </u>	SG	Eυ	<u> </u>	ا م	<u>a</u>	 0_
			1 2 2 3 4 4 5 5 6 6 1 7 7 1 8 8 9 9																
			E_2	701: 4 4		- 401 C	1												
			E.			o 40'. See for descrip													
			E 3			set to 40'													
			E-4	cemen	ıt.														
			<u>=</u> 5																
			<u>=</u> 6				•												
			E_7																
			Ē,																
			E.																
			E-9																
			E-10																
			= 10 = 11												1				
			E																
			13																
			=14																
			-15																
			E_16								:								
			E ₁₇																
			E ''													ļ			
			17 18 19																
			<u>-</u> 19																
			E_20																<u> </u>
		ify the	at the in	nformation (on this fo	rm is true and	corre				f my kı	nowledg	e.						
Signa	ture -			$\Lambda \Delta$		1			Firm	1 .	RMT								
		هد	<u> </u>	D. W.	gen	reel	٧.					eartland 08-831-							

Borin	g Numb	oer	MV	V3BR Use only as an attachment to Form	4400-	122.					Pag	e 2	of	6
Sar	nple		t a							Soil	Prope	rties		
mber	ngth (In) covered	ow Counts	pth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	SUS	aphic g	l. agram	D/FID	Standard Penetration	isture ntent	quid mit	astic mit	200	mments
	Re L	<u> </u>	De		5	ر ق	3 0	I	St	운 🖔	تت	<u> </u>	۵	ο̈
Number	Length (I Recovered	B 0 0 0	UI 41 42 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	And Geologic Origin For	၁ Տ	Graphic Graphic Log	Well Diagram	PID/FID	Standard Penetrat	Moisture	Liquid Limit	Plastic Limit	P 200	Comments
			50 51 52 53											

	g Numi	ber	,	V3BR Use only as an attachment to For	m 4400-	122.	T	1	Soil	Pag Prope	e 3	of	6
Number	Length (In)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	SJSA	Graphic Log Well	DID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73 74 75 77 78 79 80 81 82 83 84 85 86	As above. Penetration Rate, ~0.8 ft/min. As above. Penetration Rate ~0.8 ft/min.									

	g Numl nple			V3BR Use only as an attachment to Form	T	T		<u> </u>		Soil	Prope	 of	6
Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	SOSA	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content		Р 200	Comments
			87 	As above, pale brown 10YR 6/3.									
			96 	As above.									
			104 -105 -106 -107 -108 -109 -110	As above.									
			112 -113 -114 -115 -116 -117 -118 -119	As above.				, a					The state of the s

Borin	g Numl	ber	MV	V3BR Use only as an attachment to Form	4400-	122.	٠				Pag	e 5	of	6
San	nple		Feet							Soil	Prope	rties	,	
Number	Length (In) Recovered	Blow Counts	Depth In Fe	Soil/Rock Description And Geologic Origin For Each Major Unit	SJSN	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
						77								
			E 121			77								
			122			7								
			= 123 = 124			7,7								
			124			77					-			
			E 126								,			
			E 107			2								
			128			7								
			F	,		7/7								
				As above.		7								
	-		= 130 = 131	As above.		77								
			132			7								
			= = 133			77								
			134			//								
			135			7								
			136			//					:			
			= 137				* *							
,			138			-								
			139			7								
			E-140	As above, platey chips, very pale brown 10YR 7/3.		7								
			141	brown 10 YR 7/3.		77								
			142			7							-	
			140 141 142 143 144 145 146			<i>Z</i> ,z								
			E 144			7								
			146			7								
			- 1			7								
			148			Zz								
			147 			77								
			150	As above.		///								
			E-151	AS above.		77								
			152			7/7								
			153			77								

Borin	g Num	ber	MV	V3BR Use only as an attachment to Form	ı 44 00-	122.					Pag	e 6	of (6
San	nple		Feet							Soil	Prope	rties		
	d Li	Counts	i	Soil/Rock Description					e e					
,	ر ا ا	Jon O.	占	And Geologic Origin For	S	U	E	8	a t	e +	_	ပ္		‡s
ber	t gu		ť	Each Major Unit	U	اق _	— g	Ē	nda e tr	st.	i E		200	mer
Number	Length (In) Recovered	Blow	Depth		S N	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plas. Limi	٦ 2	Comments
			154			77								
						77								
			= 150			7/								
			E 196			//								
			155 156 157 158 159		-	7								
			E-158	As above, very pale brown 10YR		77								
			159	8/3.		//								
			F-160	End of Boring at 160 Ft.	-	7								
				Lind of Bolling at 100 Ft.	The state of the s									
					-									
			ļ											
				•										
								-						
														,
				· ·										
		:							-					
	L					1	1			1	l	1	l	Ī

	of Wisc					□ Մո □ w	az. Waste ndergroun ater Reso	d Tan	ks				00-122	!		nation 7-91
Facility	/Proje	ect Na	me			0	ther License/F	ermit/	/Monito	ring N	umber	Boring		e 1 er	ot 4	
-				Co. 3084.05			,	•					V-11			
				ame and name of crev			Date Dril	ling St	arted	Dat	e Drillir	ıg Con	pleted	Drillin	g Meth	nod
) Env azows		menta	l Drilling, Crew	Chief: Dan		11/	14/94	4		11/1	4/94		HSA	Meth 4.25 Diame	
DNR F	acitity	Well	No. W	Unique Well No.	Common Well Na	ame	Final Sta			- 1			1	orehole		
Boring	Locati	On						Fe	et MSL		67.1 1					nches
State 1			0320.	.66 N, 254377	7.35 E		Lat	0,	99				•	·ppcu.	,	Jε
SE	<u>-</u>	of SV	<i>i</i> 1/-	4 of Section 13	T 10 N,R 21E		Long	0,				et 🗆	S	F	eet [□ w
County Ozai					DN 46	-	inty Code		Town/C .fton	ity/ c	or Villag	ζe				
Sam		_	eet									Soil	Prope	rties		
	(In)	Counts	LL.	Soil/Roo	k Description						i.e.					
,) (ος	H	•	ogic Origin Fo		တ	ပ	E	8	ard	ıre 1+		ပ		1+5
Number	ength) 30	+ t	Each	Major Unit		Ü	ਰ _	- g	PIO/FID	e tr	stu	quid mit	+ is + i	88	E E
N E	Length (I Recovered	BIG	Depth				S D	Graphic	Well Diagram	PIC	Standard Penetrati	Moisture Content	Lia mi	Plas Limi1		Comments
A B C D	16 12 24	10 11 14	-10 -11	plasticity, day 10YR 4/6, st 10YR 4/6, st SANDY SILT fine to mediu dark yellowis soft. As above but volume 10YR 6/4, m As above, but medium grav	2/2, stiff. I CLAY (CL), e sand, medium rk yellowish beiff, mottled. (ML), some (3 mm sand, nonph brown 10YF) wet. (CL), high ht yellowish bedium stiff.	some m rown 30%) clastic R 4/6	CL CL				<.5 1.0 2.0	M M W W				SS
I harak	W cont	fy +h-	$\frac{-12}{1}$	oformation on this for	em is true and	roct to	the heat	Y//	4.1 1.			L		<u> </u>		<u> </u>
Signat	·	, 1112					Firm	RM'		5c.						
_				lu Cl Sw	Id			744 H	i Ieartlan 308-831							

Boring	g Numl	ber	MV	V-11 Use only as an attachment to Form	4400-	122.					Pag	e 2	of :	2
Sam		10	Feet							Soil	Prope	rties		
	Length (In) Recovered	Counts	1	Soil/Rock Description					_ <u>.</u>					
د	h (Co	뷰	And Geologic Origin For	ဟ	<u>.0</u>	E E	日	arc	ure n+	ס	i C		Comments
Number	ngt cov	Blow	Depth	Each Major Unit	၁ Տ	Graphic Log	 - 	PIO/FID	and tet	ist ite		ast mit	200	E E
N	Le Re	18	Del	·) <u>5</u>	وي	Well Diagram	PII	Standard Penetrati	Moisture Content	Liqui Limit	<u>a</u> ::	۵.	Š
n 77			E											
E	14	21	13	As above, with fine sand seams,	CL				4.0					SS
			E	medium plasticity, gray brown	Ch				1.0					
			-14	10YR 5/2, hard.										
22			E											
F 🏿	24	21		As above, with occasional silt					>4.0					ss
			_ 16	seams, high plasticity, dry, hard, silt seams are wet.										
F			F 16											
				As above.		V///	[計]							
a 77		4.0	Ē	As above.										
G	24	43	18											SS
			F											
			19	POORLY GRADED SAND (SP),	SP	///								
22			Ē	gray brown 10YR 5/2, medium						w				
н			20	dense.						w				HP
			F	WELL GRADED SAND (SW), fine to coarse grained, little	sw									
			—21 —	(15-25%) fine to coarse gravel,										
I				gray 10YR 5/1, dense.		,,,								
I	5	100/6"	E	LEAN CLAY (CL), trace (5%)						M				SS
			_ 23	fine gravel, high plasticity, gray brown 10YR 5/2, stiff.										
			E		CL						 			
ı //		51	24	LEAN CLAY (CL), little silt,						D				SS
		01	E	medium plasticity, gray brown										33
			25	10YR 5/2, hard.										
			F							l l				
J K		100/6"	-2 6	As above.						D				SS
			E "											
1/2			_ 28		1						}			
				End of Boring at 28 Ft.										

						-								

	of Wise		ural R		e To: olid Waste		U 1	Waste							Number 7-12 Pleted Drilling Meth HSA 4.25' Borehole Diame EL 8.3 In In (If applicable) Feet	rmatior 7-91	
Depa	i cilicile	OI IVAL	arar iu		nid waste mergency Respor				d Tank	8		r	orm 44	100-12	4		7-91
					astewater			r Reso							_		_
E :12	/D:	4 NT					Other		:4/	· · · · · · · · · · · · · · · · · · ·	· >	Y b	D:-			of	2
	y/Proj umsel			Co. 3084.05			Lice	ense/P	ermit/i	Monitoi	ing r	umber					
Boring	g Drille	d By (I	irm n	ame and name of o			Dat	e Drill	ing Sta	rted	Dat	e Drilli	1			ıg Me	thod
	D Env		nenta	d Drilling, Cre	w Chief: Dai	1		11/	14/94			11/1	4/94		HSA	4.2	5"
DNR	Facitity	Well	No. W	I Unique Well No.	Common Wel	l Name	Fin	al Stat		er Leve t MSL		face Ele 57.1		- 1			
	g Locat		0110	00 N 3544	74 27 F		 	Lat	0, 11				Locati	on (If			menes
State SW	Plane	49 of SE		.90 N, 25444 4 of Section 13	7/4.2/ E T 10 N,R 2	1E	T	ong	0 9 H			Fee	et 🗌			Foot	□ E □ w
Count	у	or DE	*/	TOI DECLIOIT ID	1 10 11,102	DNR C					ity/						
	ukee			T	·	46		1	Graf	ton		Т			Feet Coperties		
Sai	nple	Ņ	ee†									<u> </u>		Prope	rties	1	\dashv
	H. B	Counts	In F		ock Descripti							p ÷	Q.				s
ב	th Ver			1	ologic Origin			S	9	E E	딢	dar	tur ent	+ <u>q</u>	15 +	0	ent
Number	Length (In) Recovered	_ o∈	Depth	Eac	h Major Unit			ဟ	ap 0g	Well Diagram	PID/FID	Standard Penetration	Moisture Content	를 들	im:	20	Comments
<u>Ž</u>	ية تــ	മ	٥				·)	تق	Ž O	<u>o</u> .	N O	Σ٥	<u> </u>	<u> </u>	٥	J <u>o</u>
					to 23 feet. Sfor SB11VOC												
		ify that	the in	formation on this		correct t	o the	best o	f my k	nowledg	e.		<u> </u>			of 2 of 2 of 4.25 e Diame 8.3 Ir ble)	
Signa	ture		1 An	(Osmal	X .		Firn	n		artland		il, Madi Fax:			Borehole Diam 8.3 (If applicable) Feet Operties Oper		

Borin	g Numl	ber	M۷	V-12 Use only as an attachment to Form	n 4400-	122.	•				Pag	e 2	of	2
Sar	nple		Feet							Soil	Prope		,	I
Number	Length (In) Recovered	Blow Counts	Depth In Fe	Soil/Rock Description And Geologic Origin For Each Major Unit	SJSN	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23	End of Boring at 23 Ft.										

	of Wisc		ural Re	esources	Route 7	l Waste	_		Waste					oil Bo orm 44			Infor	mation 7-91
					☐ Eme	rgency Respon			rground r Resou	d Tank	8							
					□ was	tewater				irces					Pag	per 1 of 3 per 2BR Drilling Meth Mud/Air I orehole Diame 12/8 In applicable) Feet	3	
	y/Proje umseh			Co. 308	34.05			Lice	ense/P	ermit/l	Monitor	ing N	umber					
				ame and na				Dat	e Drill	ing Sta	rted	Date	Drillin	ng Con	pleted	Drillin	g Me	hod
						enn Holmei	n		-	15/94			11/1	-				
DNR 1	Facitity	Well	No. W	I Unique W	ell No.	Common Well		Fin	al Stat		er Leve	1			1			
Boring	Locati	on				MW-12B1	K	<u> </u>			t MSL		57.0					Inches
	Plane	49	0109	.27 N,	2544471	1.09 E			Lat	O 9 H					N		-	□ Е
SW		of SE	1/	4 of Section	13	T 10 N,R 2			ong	0 9 11		<u> </u>		et 🗆	S	1	Feet	□ w
Count Oza	y ukee						DNR Co 46	unty	Code	Graf		ity/ o	r Villag	ζe				
San	nple		eet											Soil	Prope	rties	1	
	(In)	Counts	LL	S	oil/Roc	k Descripti	on						ion					
د	h ere	ပ္ပ	占	Ar	nd Geol	ogic Origin	For		S	ပ္	E		ard	ure t	70	<u>.</u>		nts
Number	Length (Ir Recovered		Dep th		Each	Major Unit			၁ Տ	Graphic Log	Well Diagram	PIO⁄FIO	and	Moisture Content	Liquid Limit	ast nit	903	Comments
ž	Ler	Blow	De.))	Gra	D E	PII	St	£ 2	تَ دُ	<u> </u>	•	ζ
			1	boring descri	g log fo ption. casing	o 35 feet. S r SB11VOC set to 35 fe	for	i										
I here	by certi	fy tha	·	oformation of	on this for	rm is true and	correct to	o the	best o	f my k	nowledg	e.	1	1	1	<u> </u>	1	
Signat		7		A. 1	<u> </u>			Firn		RMT		Trail						

Borin	g Numl	ber	MV	V-12BR Use only as an attachment to Form	4400-	122.					Pag	e 2	of .	3
Sar	nple	 + s	Feet	Soil/Book Bossintian			,		ion	Soil	Prope	rties		
,	red H	Counts	뜌	Soil/Rock Description And Geologic Origin For	တ	U	Ę	ρ.	a t			υ		+5
Number	Length (In) Recovered	Blow (Depth	Each Major Unit	၁ င	Graphic Log	Well Diagram	PID/FID	Standard Penetrati	Moisture Content	Liquid Limit	Plastic Limit	200	Comments
<u> </u>	Re	8			<u> </u>	<u>P</u> 0	D K	PI	S to	운 <u> </u>	ĒĒ	<u>.</u>	۵	3
			21											
			22											
			23											
			E-24											
			25 26							:				
			27											
			28			,								
						7								
			29 30 31			7/7								
			31			77								
			=32			7								
			33			7/7								
			34			77								
			35			7								
			34 -35 -36 -37 -38 -39	DOLOMITE BEDROCK, very pale brown 10YR 7/4 to dark		7/7								
			E -38	gray 10YR 4/1, angular chips, circulation loss is minimal.		77								
			39	circulation loss is illiminal.		77								
			40			7/7								
			E-41	·		77								
			42			77								
			E-43			7/7								
			E-44			77								
			45 - 46			7,7								
			47			7								
			48			7 /								
			41 42 43 44 45 46 47 48 48 49 50	·		7								
			E 50			7/7			- Indiana					
			E 51	Void from 50 to 54 feet, clay in		///								
			52 53	airstream.		77								
-			- 53			177								

Borin	g Num	ber	M۷	V-12BR Use only as an attachment to Form	4400-	122.					Pag	e 3	of .	3
San	nple	ın	Feet							Soil	Prope	rties		
Number	Length (In) Recovered	Blow Counts	Depth In Fe	Soil/Rock Description And Geologic Origin For Each Major Unit	SJSN	Graphic Log	Well Diagram	PIO/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			54	End of Boring at 60 Ft.										

County C		of Wisc		ural R	esources	Route T Solid Emer	l Waste rgency Respon	se 🔲 U	az. W Inderg	round	l Tankı ırces	8			oil Bo		-	Info	rmation 7-91
Tecumseh Products Co. 3084.05 Date Drilling Started Date Drilling Started Date Drilling Completed Drilling Method 11/16/94 Date Drilling Completed Drilling Method Date Drilling Started Date Drilling Completed Drilling Method									ther									of	6
Bergerson-Caswell, Crew Chief: Glenn Holmen DNR Facility Well No. Wil Unique Well No. Common Well Name MW-13BR Boring Location State Plane 490094.25 N, 2544468.45 E Sw 1/4 of SE 1/4 of Section 13 T10 N.R 21E County Ozaukee DNR County Code Sample Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description And Geologic Origin For Each Major Unit Blind drilled to 60 feet. See boring logs for SB11VOC and MW-12BR, for description. Blind drilled to 60 feet with cement. Blind drilled to 60 feet with cement. Blind drilled to 60 feet with cement. Firm RMT RMT I1/18/94 Mud/Air Rotar, Mud/Air Rotar, Mud/Air Rotar, Surface Elevation Borchole Diameter 1787.4 Feet MSL 1718/10-18/1					Co. 308	4.05			Licen	se/P	ermit/N	Monitor	ing N	umber	_)	
DNR Pacisity Well No. WI Unique Well No. Common Well Name Final Static Water Level Surface Elevation Borehold Diameter 12/8 Inche Boring Location 490094.25 N, 2544468.45 E Lat Long Site Plane Si									Date	Drill	ng Sta	rted	Date	Drillin	ng Com	pleted	Drilli	ng Me	thod
NW-13BR	Ber	gersor	ı-Ca:	swell,	, Crew Ch	nief: Gl	enn Holmer	1		11/1	6/94			11/1	8/94		Mud	l/Air	Rotary
Boring Location County State Plane 490094.25 N, 2544468.45 E Lat O''' Local Grid Location (If applicable) E E E S W 1/4 of SE 1/4 of Section 13 T 10 N,R 21E Lat Long O''' Reet S Peet W E E E E E E E E E	DNR	Facitity	Well	No. W	I Unique W	ell No.	1		Final	Stat			l l			- 1			
SW 1/4 of SE 1/4 of Section 13 T 10 NR 21E Long 0 1					25 NI 2	3544466	0 45 70		1	۰.	09 #		Loca	l Grid		•	pplica	ble)	
County Ozaukee Sample Grafton Soil/Rock Description And Geologic Origin For Each Major Unit Blind drilled to 60 feet. See boring logs for SB11VOC and MW-12BR, for description. 8" steel casing set to 60 feet with cement. Blind drilled to 60 feet with cement. I hereby certify that the information on this form is true and correct to the best of my knowledge. Firm RMT								1 T	- 1		09 11			Tr.				D4	
Sample Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description	-		or SE	1/	4 of Section	13						`own/C	ity/o			<u> </u>		r eet	
Signature Soil/Rock Description Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description Soil/Rock Description Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description Soil/Rock Description Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description Soil/Rock Description Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description Soil/Rock Description Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description Soil/Rock Descriptio						-							• ,						
I hereby certify that the information on this form is true and correct to the best of my knowledge.	Sar	7		e+											Soil	Prope	ties	7	
I hereby certify that the information on this form is true and correct to the best of my knowledge.		급	nts	Щ	S	oil/Roc	k Descripti	on		'				<u>.</u>					
I hereby certify that the information on this form is true and correct to the best of my knowledge.	,) c	ટ્	占	An	d Geol	ogic Origin	For		ဟ	ပ	E		ard	rre +c	75	ပ		1ts
I hereby certify that the information on this form is true and correct to the best of my knowledge.	bei	19 1000		ŧ		Each	Major Unit				rph I	- <u>g</u>	Z.	ind eti	sti	Ξ.Ξ.	151	00	Ja H
I hereby certify that the information on this form is true and correct to the best of my knowledge.	Ž	Rec	<u>B</u>	Dep							Gra Log	We l	PIC	Sta	500	ا ا ا		1	Į
I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature Firm RMT				10 11 12 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	boring MW-1 8" steel	logs for 2BR, for casing	or SB11VOC or descripti	and on.											
	I here	by certi	fy tha	t the i	nformation o	on this for	rm is true and	correct to	the b	est o	f my kr	nowledg	e.	<u></u>		<u> </u>	1		
744 Heartland Trail Madison Wisconsin	Signa	ture		/	1 /	1	0		Firm						_				

Tel: 608-831-4444, Fax: 608-831-3334

Boring 1	Numb	her	MV	V-13BR Use only as an attachment to For	m 4400-	199					Dag	e 2	of (6
Samp	ole			and a state of the	111 4400					Soil	Prope		<u> </u>	T
Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	SOSN	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53											

Borin	g Numl	рег	MV	V-13BR Use only as an attachment to Form	4400-	122.					Pag	e 3	of	6
San	nple	"	Feet							Soil	Prope	rties		
	L p	Counts		Soil/Rock Description					_ <u>.</u>					
د	h ere	S	급	And Geologic Origin For	S	ic	E	A	ard	ure nt	70	ပ္)†s
Number	tgr coc	Blow	Depth	Each Major Unit	၁ Տ	aph B	- agr	PID/FID	and ret	isti	<u> </u>	Plast Limit	200	Comments
	Length (In) Recovered	<u>8</u>			<u>5</u>	Graphic Log	Well Diagram	H	Standard Penetration	Moisture Content	Liquid Limit	<u> </u>	<u>a</u>	້ວ
			54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73											
			E 55											
			56											
			E-57											
			E-58									-		
			E 59											
			E-60			Z,Z								
			61			7,7								
			E-62			77								
			E-63			77			ļ					
			E-64			///								
			E 65	DOLOMITE BEDROCK, very		7								
			E-66	DOLOMITE BEDROCK, very pale brown 10YR 8/3, angular		Z,Z								
			67	chips.		7,7								
			E-68			//					1			
			E-69			7								-
			E-70			7								
			71			77								
			72			7					:			
			E_73			77								
			E-74			77								
			74 75 76	Circulation loss minimal to man		7								
			E-76	Circulation loss, minimal to none. No significant fractures noted		7			ļ					
				during drilling.		$Z_{\mathcal{F}}$								
			78 - 79			7/7								
			- 79			77								
			E 80			 // 								
						//								
			82			2								
			83			7,7								
						Z/Z								
			85			77								
			84 85 86	As above.		77								
•			Ė 👸			<u> </u>								

Soil/Rock Description And Geologic Origin For		1	1		ŧ	DOIL	r tobe	rties		
And Geologic Origin For Each Major Unit	8 ប 8 ព	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	<u>5</u>	P 200	-
\$\frac{5}{0} \frac{5}{0} \frac{6}{0}\$\$ \$\frac{6}{0}\$\$ \$\frac{1}{0}\$\$ \$\frac{1}{0}			Mel Mel Mel Mel Mel Mel Mel Mel Mel Mel	DID	Star	Mois	Lig FLia	P L i		

Borin	g Numl	ber	MV	V-13BR Use only as an attachment to Form	4400-	122.					Pag	e 5	of (6
San	nple	,,	Feet							Soil	Prope	rties		
	(In) ed	Counts		Soil/Rock Description					t ior	a)				10
ا	th ver	S	r I	And Geologic Origin For	ဒ	5	E E	FID	dar	fur ent	0	† ic	60	sut:
Number	Length (In) Recovered	Blow	Depth	Each Major Unit	S O	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plast Limit	P 200	Comments
			121	As above.		77		<u> </u>	O) IL	20		<u> </u>	ш_	0
			122			77								
			E_123			7/7								
			123 124			7-7								
			E-125			7,7								
	der varieties de de la constante de la constan		=-1 2 6			77								*****
			127			7								
			126 127 128 129			7								
			E 130	As above.		7-7								
			= 131	1.0 400 (0.		7,7								
			E-132			7,7								
			<u> </u>			77								
			131 132 133 134 135			7								449 page 54 page 54 page 54 page 54 page 54 page 54 page 54 page 54 page 54 page 54 page 54 page 54 page 54 pa
			135 - 136			77								
			137			7								
			= 138		f	7/7								
			139			7/								
			E 140	As above, very pale brown 10YR		Z ,Z								
			E-141	7/4.		77								
			142			7								
			143			7,7								
			145			77								
			146			7								
			147			7/7								
			148			77								
			149			77								
			= 150			//								
			151			77								
			141 142 143 144 145 146 147 148 149 150 151 152 153			//								
***************************************			193			7	: • : • : 1							

Borin	g Num	ber	M۷	V-13BR Use only as an attachment to Form	4400-	122.					Pag	e 6	of (6
Sar	nple		Feet							Soil	Prope	rties	1	
	Length (In) Recovered	Counts	In Fe	Soil/Rock Description				_	td t+ion	ģ.				v
ber	gth	ပိ 3	+	And Geologic Origin For Each Major Unit	ဒေ	phic	 gran	PID⁄FID	ndar etra	stur	<u>: -</u>	st ic	200	Comments
 	Len	B low	Depth		S D	Graphic Log	Well Diagram	PID	Standard Penetrati	Moisture Content	Liquid Limit	Plast Limit	Ω Ω	CO CO
			154			7								
			155	As above, very pale brown 10YR 8/3.		7								
			156 157			7,7								
			158			7								
			E-159	·		7,7								
			- 160	End of Boring at 160 Ft.				0.00						
						5								

	of Wisc		ural Ro	esources	☐ Eme	Fo: 1 Waste rgency Respor tewater	nse 🔲 1	Jnde	Waste rground r Resou	d Tank	5			oil Bo		407	nfori	mation 7 -91
								Other									of .	3
	y/Proje umsek			Co. 308	4 05			Lice	ense/P	ermit/l	Monitor	ing N	umber			er 1BR		
Boring	Drille	Ву (Firm n	ame and nan	ne of cre			Dat	e Drill	ing Sta	rted	Date	e Drillin			Drillin	g Metl	hod
Ber	gersor	-Cas	swell,	Crew Ch	ief: Gl	enn Holme	n		11/2	29/94			11/2	9/94		Air I	Rotar	y
DNR I	Facitity	Well	No. W	I Unique We	ell No.	Common Wel		Fin	al Stat	ic Wat	er Leve	1			1	orehole		
Boring	Locati	0D				MW-14B	R	<u> </u>		Fee	t MSL		49.0			applical	3.0 1	nches
	Plane		9343	.47 N, 2	54568	3.58 E			Lat	O ? N		Doc	ii Gilu		•	ъррпса	· _	∃ E
SE		of SE	1/	4 of Section	13	T 10 N,R 2			ong	0 9 11		<u> </u>		et 🗌	s	F	eet [<u> w</u>
Count Oza	y ukee						DNR Co	ounty	Code	Graf		ity/o	r Villag	ge				
San	nple		Feet											Soil	Prope	rties		
	(In)	Counts	1	S	oil/Roc	ck Descript	ion						i. P					
د	h ere	So	片	An		ogic Origin			တ	<u></u>	a	유	ard	n t	ъ	i c		nts
Number	Length (In Recovered	Blow	Depth		Each	Major Uni	t		၁ Տ	Graphic Log	Well Diagram	PIO/FIO	Standard Penetrati	Moisture Content	Liquid Limit	astic mit	200	Comments
<u></u>	Re	<u> </u>	0							Gra	3 0	PI	St	운요	تت	Pla Lim	۵	8_
			E_1			~2 feet. S o 3.5 feet.	Set 8"											
														Ę				
			3 						ŀ	7/								
			E 3			EDROCK,				 				1				
			-4			y 10YR 6/2 balls, hard				7	11				ŧ			
			E-5		•	,				7								
			E-6							77								
			7							Z,Z								
			E-8			s-minimal it fractures		•		ZZ	11							
			E-9		drillin		notou			77	1 [
			_ 10							77								
			E_11							///						.		
			E_12							1//								
			= 12 = 13							77								
										7								
			14							77				ļ				
			E			ey chips, n	0			Z,Z								
			16 E	notice	able Cia	ay balls.				ZZ						<u> </u>	-	
			17 	Damatura		- 00 C4/-	. •			7,7								
			18	Penetrai	non rai	te ~0.8 ft/n	nın.			77								
			19							7/								
			E_20	1					<u> </u>	<u> </u>	<u> </u>				<u> </u>		L	<u></u>
		fy tha	t the in	nformation o	n this fo	rm is true and	correct t					ge.						
Signat	ure	1	. 4	N 11		red	•	Firn	11	RMT	artlanc	l Trail	. Madie	son Wi	sconsir			
		\mathcal{M}	<u> </u>	\sqrt{N}	Jen	JUN V					8-831-							

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Borin	g Num	ber		V-14BR Use only as an attachment to Form	4400-	122.					Pag	e 2	of .	3
Sar	nple	Ŋ	Feet						c	Soil	Prope	rties		
Number	Length (In) Recovered	Blow Counts	Depth In F	Soil/Rock Description And Geologic Origin For Each Major Unit	n s c s	Graphic Log	Well Diagram	PIO/FID	Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	Comments
			21	As above, some of the dolomite chips are yellowish red (iron-stained).										

Borin	g Num	ber	ΜV	V-14BR Use only as an attachment to Form	4400-	122.					Pag	e 3	of .	3
Number	Length (In) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	s c s	Graphic Log	Well Diagram	PIO/FID	Standard Penetration	Moisture Content	Proper pindi timil	Plastic Limit	P 200	Comments
			54 -55 -56 -57 -58 -59 -60 -61 -62 -63	As above, very pale brown 10YR 7/4, no iron-staining. End of Boring at 63 Ft.				a.	W a.	E 0			a.	

rces Solid V	Waste ency Response	□ Uı □ w □ Oı	ndergron ater Re ther	ind T	es			F	orm 44	00-122 Pag	e 1		mation 7-91
2094.05			License	Pern	nit/M	loni t ori	ng Ni	ımber					
	chief)		Date Di	illing	Star	ted	Date	Drillir				g Met	hod
rew Chief: Gler	ın Holmen		11	/30/	/94			12/2	2/94		Mud,	/Air	Rotary
- 1		me	Final S							- 1			
N 2545973	70 F		Lat	o	o , H		Loca	l Grid				ole)	
			-	o	O 9 11			Fee			F		□ E □ w
	DN						ty/o				<u>-</u>		
	46) 		G	Graft	ton			e ail	Drana	-+:	-	
								Ę	3011	Frope	rties	······································	1
•	-		٠,	١.,		اء		b ‡	e .				υ
•)1	ı	ابر		la l	Ĥ	dar tre	tur.	- i	+- +-	Ø	en.
Zuon IV	anjor Onit			ran	9 0	i ag	Ė	tar	o i s	<u> </u>	a i		Comments
boring log for description.	SB17VOC fo												
clay, light brow 6/2, hard.	wnish gray 1(OYR ect to		R	MT			, Madis	son Wi	sconsir			
	Solid Waste Solid Waste	Emergency Response Wastewater D. 3084.05 and name of crew chief) The Chief: Glenn Holmen Sique Well No. Common Well Name MW-15BR N, 2545873.70 E Section 13 T 10 N,R 21E DN 46 Soil/Rock Description And Geologic Origin For Each Major Unit Clind drilled to 17.5 ft. See boring log for SB17VOC for description. Steel casing set to 17.5 fee cement).	Soil/Rock Description And Geologic Origin For Each Major Unit Soil/Rock Description And Geologic Origin For Each Major Unit Steel casing set to 17.5 feet (no cement).	Solid Waste Haz. Waste Haz. Waster Waster Waster Water Response Other Wastewater Water Response Other Wastewater Other Oth	Solid Waste Haz. Waste Ha	Solid Waste Haz. Waste Emergency Response Underground Tanks Water Resources Other	Solid Waste Haz. Waste Emergency Response Underground Tanks Waster Resources Other	Solid Waste Haz. Waste Ha	Solid Waste Har. Waste Property Response Underground Tanks Wastewater Underground Tanks Underground Tanks Water Resources Other	Solid Waste Has. Waste Has. Waste Form 44	Solid Waste Har. Waste Horm 4400-122	Soild Waste Emergency Response Wastewater WW-15BR Date Drilling Started 11/30/94 Mud. 12/2/94 Mud. MW-15BR Feet MSL 752.2 Feet MSL 12 Mud. MW-15BR Feet MSL 752.2 Feet MSL 12 Mud. MW-15BR Section 13 T 10 N, 21E Long O' " Local Grid Location (If application And Geologic Origin For Each Major Unit O' Gat Bold Grafton Soil Properties Soil/Rock Description And Geologic Origin For Each Major Unit O' Gat Bold Grafton Soil Properties Soil/Rock Description Soil/Rock Descri	Solid Waste Haz. Waste Prom 4400-122

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Borin	g Numl	ber	MV	V-15BR Use only as an attachment to Form	n 4400-	122.					Pag	e 2	of (6
San	nple	10	Feet							Soil	Prope	rties		
	Length (In) Recovered	Counts		Soil/Rock Description					Standard Penetration	۵ı.				
٤	th	S	H	And Geologic Origin For	S J	ic	e e	E.	dan	ure en t	σ.	<u></u>	_	inte
Number	Sua.	Blow	Dep th	Each Major Unit	S	Graphic Log	Well Diagram	PID/FID	tang ene 1	Moisture Content	Liquid Limi†	Plast Limit	200	Comments
<u> Ž</u>	78				>	5 J	<u>ař</u>	<u>g.</u>	က် ရှိ	ĔŬ		ا ا	۵.	<u>3</u>
			E-21			z/, z								
			22			77								
			E-23			7/								
			24			77								
			25			7,7								
			= 26			7								
			27			77								
			28			17								
			29			77								
			30	2' shaley zone at ~30 feet. Soft		7								
			31	drilling.	İ	ZZ								
			32			77								
			33			/								
			=34			77								
			35			Z_Z								
			36			7/								
			37		}	7/								
			38			//								
			= 39 =			77								
			40	As above, no clay.		ZZ								
			E-41			7								
			42			77								
			<u>-</u> 43			7								
			E-44			77								
			45		Manager Control of the Control of th	// /								
			= 46			77								
			<u>-47</u>			77								
			48			7								
			4 9			7								
			-50 -			7,7								
			51			// /								
			21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53			77								
			-53			///								

Sample City 1	Borin	g Num	ber	MV	V-15BR Use only as an attachment to Form	4400-	122.	٠				Pag	e 3	of	6
C 1 2 3 3 3 3 4 4 4 4 4 4	Sar	nple	10							<i></i>	Soil	Prope	rties	r	
As above, light gray 10YR 7/2. 55 56 56 57 58 59 60 60 60 60 60 60 60 60 60 6	Number	Length (In) Recovered	Blow Counts	占	And Geologic Origin For	၁ Տ	Graphic Log	Well Diagram	PID/FID	Standard Penetratior	Moisture Content	Liquid Limit	Plastic Limit		Comments
Penetration rate = 0.8 ft/min., circulation loss minimal to none.				70 -71 -72 -73 -74 -75 -76 -77 -78 -79 -80 -81 -82 -83 -84 -85	As above, very pale brown 10YR 7/3. Penetration rate = 0.8 ft/min.,										

Borin	g Numl	ber	MV	V-15BR Use only as an attachment to Form	a 44 00-	122.					Pag	e 4	of	6
Sar	nple	,,	Feet							Soil	Prope	rties	r	
	Length (In) Recovered	Counts		Soil/Rock Description					Standard Penetration	_				
د	h ere	Con	뉴	And Geologic Origin For	လ	<u>0</u>	E		ard rat	ure -+	73	<u>.</u> 0		1+5
Number	tgc Sov		Dep†h	Each Major Unit	S	Graphic Log	- agr	PID/FID	and ret	isti	Liquid Limit	Plast Limit	200	Comments
<u></u>	Ref.	B our))	Gray Log	Well Diagram	PII	S†8 Per	Moisture Content	Lia	= =	<u>a</u>	٥
			87			//								
			88			7								
			89			7								
			90			77								
			91			Z,Z								ļ
			92			7,7								
			93			77								
			94			///								
			90 90 91 92 93 94 95 96 97 198 199 100	As above.		7								
			96	As above.		77								
			97			Z,Z								
			E-98			ZZ								
			99			7/								
			100			77								
			101	•		1//								
			102			7/]]
			-			7				. '				
			103 104			$Z_{\mathcal{I}}^{\prime}$								
						Z,Z								
			105			7/								
			106			77			ļ					
			107			7/								
			-108 -			7								
			1109			77								-
			_	As above, very pale brown 10YR		ZZ								
			-111	8/3.	ļ	Z,Z								
			E 112			7,7								
			113											
			114			//			ŧ					
			-115			77						:		
			116			77							ĺ	
			E-117			Z,Z								
			118			Z ,Z								
			119			7								
		l	E_120			77								

Borin	g Num	ber	MV	V-15BR Use only as an attachment to Form	4400-	122.					Pag	e 5	of	6
Sar	nple	10	Feet							Soil	Prope	rties		
	(In)	Counts		Soil/Rock Description					Standard Penetration	n:				.,
Ë	th Ver	ػ	h H	And Geologic Origin For	s ၁	i.c	ä	F	dar	tra tra	ם_	÷ +	5	in te
Number	Length (Ir Recovered	Blow	Depth	Each Major Unit	တ	raptog	Well Diagram	PID/FID	tanc	Moisture Content	Liquid Limit	Plast Limit	200	Comments
	78	<u> </u>	E))	(O) _	30	<u>a</u>	ωď	ΣÜ	١١٦	ه ا	α_	ŭ
			121			77								
			122			77								
			123			77								
			124	1		7/ 7								
			125			77								
			126			1//								
			127			7								
			129			 								
			130			77								
			131	As above.		77								
			132			7,7								
			E-133			7/7								
			= 134			77								
			135			7/								
			136			7,7					:			
			137			7/7								
			138 -139 -140			77								
			E-139			77								
			140			7,7								
			141			7						-		
			142			77								
			E-143			77								
			<u> </u>			Z_Z								
			145			77								
			146			77								
			E 147											
			E 148			Z,Z								
			149			//				,				
			150	As above, pale brown 10YR 6/3.		77								
			151			///								
			141 142 143 144 145 146 147 148 149 150 151 152 153			7								
	L		F ***			$\vdash \leftarrow$								

Boring Number	IW-15BR Use only as an attachment to F	orm 4400-122.	Page 6 of 6
Prec	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S Graphic Log Well Diagram PID/FID Standard	Moisture Content Content Liquid Limit Plastic Limit P 200
	54 55 56 57 58 59 60 As above. 61 62 63 64 End of Boring at 164 Ft.		

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1)	GENERAL INFORMATION	(2) F	ACILIT	YNAME			
(-)	Well/Drillhole/Borehole County			Vell Owner (.	If Known)		
	Location SB-9VOC Ozaukee	1					•
		P.	esent W	ell Owner			
	SW 1/4 of SE 1/4 of Sec. 13 ; T. 10 N; R. 21 N	1		eh Prod	nata.		
	(If applicable)		reet or f		ucus		
		1					
	Gov't Lot Grid Number			rth Str e, Zip Code			
	Grid Location	1	•	-			
	ft. N. S., ft. E. W.	G	raito	n, WI	- 81		
	Civil Town Name	1			or Name (II Appu	icapie) Mi	Unique Well No.
	Grafton		3B-9V				
	Street Address of Well	R	eason Fo	or Abandonn	nent		
	900 North Street			nger nee	ded	Q4111	
	Ciry, Village	D	ate of A	bandonment			
	Grafton]	1-9-	94			
WE	ELL/DRILLHOLE/BOREHOLE INFORMATION						
(2)	Original Well/Dnllhole/Borehole Construction Completed On	(4) C	epth to	Water (Feet)	10.0		
	(Date) 11-9-94	P	ump &	Piping Remo	ved? Y	≈ □ No [X	Not Applicable
	(200)			lemoved?		s ☐ № [X	
	Monitoring Well Construction Report Available?			moved?	H X		
		1		eft in Place?	H 🛠		Not Applicable
		ł	No, Ex		L *`	∞ U 140	
	Drillhole	"	140, 114	Prant			
	Borehole	;		C + O55 T		63 V. 6	757
		3		-	selow Surface?	☐ X≈ [
	Construction Type:	l l		-	Rise to Surface?	X Y≈ [
	☐ Driven (Sandpoint) ☐ Dug] [ter 24 Hours?	☐ Y≈ [
	Other (Specify)		If Yes,	Was Hole Re	topped?		№
		(S) R	equired	Method of P	lacing Sealing M	atemal	
	Formation Type:	1'' _					. .
	□ Unconsolidated Formation □ Bedrock	1 =	=	uctor Pipe-G		onductor Pipe-	-
	_		Dum			ther (Explain)	
	Total Well Depth (ft.) Casing Diameter (ins.)	(6)	ealing N	/laterials		For monitor	ing wells and
	(From groundsurface)		Near	Cement Gro	ut	monitoring	well boreholes only
		1 [☐ Sand	-Cement (Co	ncrete) Grout		
	Casing Depth (ft.)	1 6	Conc	rete	!	☐ Bentonit	e Pellets
		ı	T Clay-	Sand Slurry	1	Granular Granular	Bentonite
	Was Well Annular Space Grouted? Yes No Unknow			onite-Sand SI		-	e - Cement Grout
	If Yes, To What Depth?			ped Bentoniu			
	11 16, 10 What Deput:	! !	M Cimp				
: (7)	Carling Massairl Hand		(T.)	T- (E+)	No. Yards, Sacks Sealant	Mix Pario	or Mud Weight
	Sealing Material Used	Pro	m (Ft.)	To (Ft.)	or Volume	MITY KATIO	Of Miles weight
-	:		_				
-	Bentonite Chips	30	irface	40.8	16 bags		
-		 					
		1					
4]	
		İ					
(8)	Comments:						
		<u></u>					
(9)	Name of Person or Firm Doing Sealing Work		(10)	FO	R DNR OR C	OHNTY IIS	E ONLY
. (2)	The state of the s	j		Received/Ins	المراجعين المتناز التربيط المتناز المتناز		County
	WID Unvironmental Drilling	_	Date	Kecewering	becrea	District	County
	Signature of Person Doing Work Date Signed		<u> </u>				wejka u
	1 La 1-12/5/94		Revi	ewer/Inspect	or a second		
	Screet or Route Telephone Number						
	101 Alderson St. (715)359-7090		Folk	w-up Neces	sary	2011 - A. P. C. S. L. P. S. C. S. L. P. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C	
	City, State, Zip Code	\dashv			•	141 - 114	
	Schofield, WI 54476		<u> </u>				.10

DNR/COUNTY

(1)	GENERAL INFORMATION (C	2) FAC	тшт	NAME				
gianian.	Well/Drillhole/Borehole County			ell Owner (li	Known)			
	Location SB-10VOC Ozaukee	_			÷	*.		
	A E	Pres	ent W	ell Owner		-		
	SW 1/4 of SE 1/4 of Sec. 13 ; T. 10 N; R. 21 W	Tec	n ms	eh Produ	icts			
	(If applicable)		et or R					
	Gov't Lot Grid Number			rth Stre	Δ †			
**********	Grid Location			Zip Code				
	ft. N. S.,ft. E. W.	•		n, WI				
	Civil Town Name	Faci	IIV W	eil No. and/or	Name (If Applic	abie) WI Unique Well No.		
	Grafton		-10		rane (II rippue	Wi Cinque Wen No.		
-	Street Address of Weil			r Abandonme		<u> </u>		
	900 North Street			ger need	led			
	City, Village		-7-					
()	Grafton	11	_ / _	74				
	LL/DRILLHOLE/BOREHOLE INFORMATION							
(د)	Original Well/Drillhole/Borehole Construction Completed On	(4) Dep	טו ווויני	Water (Feet)	12.0			
	(Date) 11-7-94		•	Piping Remov	ved? ☐ Yes	No 🔯 Not Applicable		
		Lin	er(s) R	emoved?	☐ Ye	s No 🔯 Not Applicable		
	Monitoring Well Construction Report Available?			moved?	☐ Ye			
	☐ Water Well ☐ Yes ☐ No	Cas	ing L	ft in Place?	Y∝			
	☑ Drillhole	If N	lo, Ex	plain		_		
	Borehole							
		Wa	s Casi	ng Cut Off B	elow Surface?	☐ Yes ☐ No		
	Construction Type:				ise to Surface?	X Yes I No		
				-	er 24 Hours?	☐ Yes 🔀 No		
	☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)			Was Hole Re		☐ Yes ☐ No		
	T	(5) Required Method of Placing Sealing Material						
	Formation Type:	X	Condi	ictor Pipe-Gr	avity Co	nductor Pipe-Pumped		
	X Unconsolidated Formation		Dump	Bailer	□ Ot	her (Explain)		
,	Total Well Depth (ft.) Casing Diameter (ins.)	(6) Sealing Materials For monitoring wells and						
	(From groundsurface)		-	Cement Grou	t	monitoring well boreholes only		
	(l Ħ		Cernent (Con				
	Casing Depth (ft.)		Conc		1	☐ Bentonite Pellets		
	Cashig Depar (IL)			Sand Slurry	l I	Granular Bentonite		
	Was Wall Assules Course 12	. =		onite-Sand Sh	,	Bentonite - Cement Grout		
	Was Well Annular Space Grouted? Yes No Unknown			nute-Sand Silved Bentonite		Bentonie - Cement Grode		
	If Yes, To What Depth? Feet	الما	Curbi	aimoinsa pse				
: (7)		T _	.= \	- /r \	No. Yards, Sacks Sealant	Mix Ratio or Mud Weight		
` '	Sealing Material Used	From	(Ft.)	To (Ft.)	or Volume	MIX KAILO OI MING WEIGHT		
	:	6						
	Bentonite Chips	Surf	ace	29.5	ll bags			
_		+						
		+						
_		-						
		<u> </u>						
্ স্ত	Comments:							
(9)	Name of Person or Firm Doing Sealing Work	T	(10)	FOF	DNR OR CO	DUNTY USE ONLY		
	WID Environmental Drilling		Date	Received/Ins		District/County		
	Signature of Person Doing Work / Date Signed	-	1					
	Signature of Person Doing work Date Signed		0	ewer/inspect	The state of the s	F		
		-	Ven	rwer\HDJeeg				
	Somet or Route Telephone Number			7	a garagaga	en Timer see and the see and the see and the see and the see and the see and the see and the see and the see a		
	101 Alderson St. (715)359-7090		Foll	ow-up Necess	ary	The Control of the Co		
	City, State, Zip Code	1			·	and the second s		
	Schofield, WI 54476		-			Ц		

(1) GENERAL INFORMATION	(2) FACILITY NAME						
Well/Drillhole/Borehole County	Original Well Owner (If Known)						
Location SB-11VOC Ozaukee	ongale wor owner (a rational)						
CU CE 12 10 21 XE	Present Well Owner						
\underline{SW} 1/4 of \underline{SE} 1/4 of Sec. $\underline{13}$; T. $\underline{10}$ N; R. $\underline{21}$ $\underline{\square}$ w	Tecumseh Products						
(If applicable)	Street or Route						
Gov't Lot Grid Number	900 North Street						
Grid Location	City, State, Zip Code						
ft. N. S.,ft. E. W.	Grafton, WI						
Civil Town Name	Facility Weil No. and/or Name (It Applicable) WI Unique Well No.						
Grafton Street Address of Well	SB-11VOC						
	Reason For Abandonment						
900 North Street City, Village	No longer needed Date of Abandonment						
Grafton	11-7-94						
WELL/DRILLHOLE/BOREHOLE INFORMATION							
	(4) Depth to Water (Feet) 12.0						
(Date) 11-7-94	Pump & Piping Removed? Yes No X Not Applicable						
(Date)	Liner(s) Removed? Yes No X Not Applicable						
☐ Monitoring Well Construction Report Available?	Screen Removed? Yes No X Not Applicable						
☐ Water Well ☐ Yes ☐ No	Casing Left in Place? Yes No						
Torillhole	If No, Explain						
Borehole							
	Was Casing Cut Off Below Surface? Yes No						
Construction Type:	Did Sealing Material Rise to Surface? X Yes No						
∑ Drilled	Did Material Settle After 24 Hours? Yes 🔀 No						
Other (Specify)	If Yes, Was Hole Retopped? Yes No						
	(5) Required Method of Placing Sealing Material						
Formation Type:	☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped						
☐ Unconsolidated Formation ☐ Bedrock	Dump Bailer Cther (Explain)						
Total Well Depth (ft.) Casing Diameter (ins.)	(6) Sealing Materials For monitoring wells and						
(From groundsurface)	Neat Cement Grout monitoring well boreholes only						
(Sand-Cement (Concrete) Grout						
Casing Depth (ft.)	Concrete Bentonite Pellets						
and the same of th	Clay-Sand Slurry Granular Bentonite						
Was Well Annular Space Grouted? Yes No Unknown	Bentonite-Sand Slurry Bentonite - Cement Grout						
If Yes, To What Depth? Feet	☐ Chipped Bentonite						
7)	No. Yards.						
Sealing Material Used	From (Ft) To (Ft) Sacks Sealant Mix Ratio or Mud Weight						
	or Volume						
Bentonite Chips	Surface 26.2 10 bags						
(8) Comments:							
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY						
WID Avironmental Divilling	Date Received/Inspected District/County						
Signature of Person, Doing Work Date Signed							
1 La 1 12/5/94	Reviewer/Inspector						
Street or Route Telephone Number							
101 Alderson St. (715)359-7090	Follow-up Necessary						
City, State, Zip Code							
Schofield, WI 54476							

(1)	GENERAL INFORMATION	(2)	FACILIT	Y NAME			
<u>`</u>	Well/Drillhole/Borehole County			Well Owner (lf Known)		
	Location SB-12VOC Ozaukee	ĺ	•		······································		
	X E	-	Present W	ell Owner			
	SW 1/4 of SE 1/4 of Sec. 13; T. 10 N; R. 21	1		seh Prod	n ot c		
	(If applicable)	-	Street or		ucts		
	Gov't Lot Grid Number	1		orth Str			
	Grid Location Grid Location	-		te, Zip Code			
			•	-			
	ft.	 	Grafte	on, WI	Se Nome de Se		
					or Name (II App	ucable) WI Unique Well No.	
	Grafton	<u> </u>	SB-12				
	Street Address of Well	1		or Abandonn			
	900 North Street		No lor	nger nee	<u>ded</u>		
	City, Village			bandonment			
-	Grafton		11-8-	.94			
	ELL/DRILLHOLE/BOREHOLE INFORMATION						
(3)	Original Weil/Drillhole/Borehole Construction Completed On	(4)	Depin to	Water (Feet)	12.0		
	(Date) 11-8-94		Pump &	Piping Remo	ved?	es No No Not Applicable	
÷	11-0-74			Removed?	_		
	Monitoring Well Construction Report Available?		Screen Re			,,	
	☐ Water Weil ☐ Yes ☐ No	ļ		eft in Place?			
	Drillhole		If No, Ex		LJ '	(æ 🔲 No	
			п 140, Ех	.pram	·		
	☐ Borehole		W G	· C · O			
				-	elow Surface?	Yes No	
	Construction Type:	1		•	Rise to Surface?	∑ Yes ☐ No	
	Drilled Driven (Sandpoint) Dug				ter 24 Hours?	☐ Yes 🏻 No	
	U Other (Specify)		If Yes,	Was Hole Re	topped?	Yes No	
		(5)	Required	Method of P	lacing Sealing N	1arenai	
	Formation Type:	(3)					
	☐ Unconsolidated Formation ☐ Bedrock			uctor Pipe-Gr		Conductor Pipe-Pumped	
	-		Dumi			Other (Explain)	
	Total Well Depth (ft.) Casing Diameter (ins.)	(6) Sealing Materials For monitoring wells and					
	(From groundsurface)	1	☐ Neat	Cement Grou	ıt	monitoring well boreholes only	
			Sand	-Cernent (Cor	ncrete) Grout		
	Casing Depth (ft.)		Conc	rete		Bentonite Pellets	
-	· · · · · · · · · · · · · · · · · · ·	1	□ Clay-	Sand Slurry		Granular Bentonite	
	Was Well Annular Space Grouted? Yes No Unknown	,		onite-Sand SI	urrv	Bentonite - Cement Grout	
	If Yes, To What Depth?			ped Bentonite	•	Demondre - Caneir Groun	
	1 rest	<u>!</u>	Los Cimpi	per bemoniu			
(7)	Sealing Material Used		/T. \	T (T-)	No. Yards, Sacks Sealant	Mix Ratio or Mud Weight	
	Seating Material Osed	F	om (Ft.)	To (Ft.)	or Volume	MIX KAID OF MIN Weight	
:	:	\top					
	Bentonite Chips	1	Surface	30.5	ll bags		
		+-					
		+-	·				
		\bot					
-					1		
(8)	Comments:						
(9)	Name of Person or Firm Doing Sealing Work		(10)	FOR	ONR OR C	OUNTY USE ONLY	
1-7	WID Prironmental Drilling			Received/Ins		District/County	
		_	Date	. Naca taning	herren.	District County	
	<u> </u>	_	Kevi	ewer/Inspecto	X		
	Street or Route Telephone Number		<u></u>	e igawie i			
	101 Alderson St. (715)359-7090		Folk	ow-up Necess	ary	mass state of the control of	
	City, State, Zip Code				•		
	Schofield, WI 54476		<u> </u>			-	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1)	GENERAL INFORMATION				Y NAME			
	Well/Drillhole/Borehole County		Or	iginal V	Vell Owner (lf Known)		
	Location SB-13VOC	Ozaukee				• / -		
		ΧE	Pro	sent W	ell Owner	······································		
	<u>SW</u> 1/4 of <u>SE</u> 1/4 of Sec. <u>13</u> ; T	10_N; R21 😽 🙀	Te	ecums	seh Prod	ucts		
	(If applicable)			eet or l		4000		
	Gov't Lot	Grid Number	90	O No	orth Str	00+		
	Grid Location	Glandine			te, Zip Code	EEL		
				-	-			
	ft. N. S., Civil Town Name	ft.	G:	aito	on, WI			
				-		or Name (II Appi	cable) W	I Unique Well No.
	Grafton		S	B-13	VOC			
	Street Address of Well		Re	ason F	or Abandonm	ient		
	900 North Street	1	No	o Tor	nger nee	ded		
	City, Village				bandonment			
	Grafton	į	1	1-8-	94			
WE	ELL/DRILLHOLE/BOREHOLE INFO	RMATION						
	Original Weil/Drillhole/Borehole Construct		(4) D	mth to	Water (Feet)	77.0		
Ψ,		ion completed on	` '	-				
	(Date) 11-8-94			-	Piping Remo	ved?	≊ ∏ No	
					lemoved?	□ Y	es 🗌 No	X Not Applicable
	☐ Monitoring Well Constr	uction Report Available?	So	reen Re	moved?	□ Y		X Not Applicable
	☐ Water Well]Yes □ No	C	sing L	eft in Place?	≓ Y	s ⊟ No	
	☑ Drillhole	- 10 - 10		No, Ex			ш	
	Borebole	-						
	Borenoie	•	11	C	Cut Off D	elow Surface?		GX:
					_			□ No
	Construction Type:				-	lise to Surface?	Trineriel .	□ №
	☑ Drilled □ Driven (Sandpo	oint) Dug	D	d Mate	rial Settle Af	ter 24 Hours?	☐ Yes	∑ №
	Other (Specify)			If Y⇔,	Was Hole Re	topped?	☐ Yes	□ No
			(C D		Markadas (19	Nami = 2 C - 11 - N4		
	Formation Type:		l'′			lacing Sealing M		
	☐ Unconsolidated Formation	Bedrock		Condi	uctor Pipe-Gr	ravity C	onductor Pip	e-Pumped
	Circuisondated Formation] Bellock		Dum	Bailer		ther (Explain	n)
	Total Well Depth (ft.) Casing 1	Diameter (ins.)	(6) Sealing Materials For monitoring wells and					
	(From groundsurface)	-			Cement Grou	11		g well boreholes only
	(110111 grownssarase)		=				momorni	g wen corenoies only
			-	•	-	rcrete) Grout		
	Casing Depth (ft.)	•	<u> </u>	Conc		1		ite Pellets
] Clay-	Sand Slurry	Į.	Granul	ar Bentonite
	Was Well Annular Space Grouted?	Yes 🗌 No 🔲 Unknown	IE] Benu	onite-Sand SI	urry ¦	Benton	nite - Cement Grout
	If Yes, To What Depth?	Feet	1 5	Chim	ped Bentonite	i	_	
			!		politica production and the second			
(7)	Sealing Material Use	4		/E+\	To (Ft.)	No. Yards, Sacks Sealant	Mix Rari	io or Mud Weight
	. Sealing Material Ose	u	rron	(Ft.)	10 (Ft.)	or Volume	MIX Kan	to or mad weight
	:			_				
	Bentonite Chips		Sur	face	30.8	11 bags		
							İ	
							1	
					-			
(8)	Comments:		л.				1	
(0)	Comments.							
(9)	Name of Person or Firm Doing Sealing W	ork		(10)	FOR	ONR OR C	OUNTY U	SE ONLY
	WID Environmental Drillir		1	Date	Received/Ins	pected	Distric	t/County
		uc Signed	-	1				
	Transfer of Leizur Tonis Mork Ita	•					- P. W. 1. W.	
	In I want	12/5/94	1	Kevi	ewer/inspecto	x		
		iepnone Number					Service Service	990 (9) (100 cm) (100 cm)
	101 Alderson St.	715 ⁾ 359–7090		Follo	w-up Necess	ary		
	City, State, Zip Code		1		•	* ·		
	Schofield, WI 54476							
			1	•				

DNR/COUNTY

(I) GENERAL INFORMATION (2) FACILITY NAME
Well/Drillhole/Borehole County	Original Well Owner (If Known)
Location SB-14VOC Ozaukee	
Σ 10 10 21 Σ Ε	Present Well Owner
SW 1/4 of SE 1/4 of Sec. 13; T. 10 N; R. 21 W	Tecumseh Products
(If applicable)	Street or Route
Gov't Lot Grid Number	900 North Street
Grid Location	City, State, Zip Code
ft. N. S., ft. E. W.	Grafton, WI Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Civil Town Name	
Grafton Street Address of Weil	SB-14VCC
900 North Street	No longer needed
City, Village	Date of Abandonment
Grafton	11-9-94
WELL/DRILLHOLE/BOREHOLE INFORMATION	
	(4) Depth to Water (Feet) 17.5
(Date) 11-9-94	Pump & Piping Removed? Yes No X Not Applicable
	Liner(s) Removed? Yes No X Not Applicable
Monitoring Well Construction Report Available?	Screen Removed? Yes No X Not Applicable
☐ Water Well ☐ Yes ☐ No	Casing Left in Place? Yes No
☑ Drillhole	If No, Explain
Borehole	
	Was Casing Cut Off Below Surface? ☐ Yes ☐ No
Construction Type:	Did Sealing Material Rise to Surface? X Yes No
☐ Driven (Sandpoint) ☐ Dug	Did Material Settle After 24 Hours? Yes X No
Cther (Specify)	If Yes, Was Hole Retopped? Yes No
	(5) Required Method of Placing Sealing Material
Formation Type:	☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Unconsolidated Formation ☐ Bedrock	Dump Bailer Other (Explain)
Total Well Depth (ft.) Casing Diameter (ins.)	(6) Sealing Materials For monitoring wells and
(From groundsurface)	Neat Cement Grout monitoring well boreholes only
	Sand-Cement (Concrete) Grout
Casing Depth (ft.)	Concrete Bentonite Pellets
	Clay-Sand Slurry Granular Bentonite
Was Well Annular Space Grouted? Yes No Unknown	,
If Yes, To What Depth? Feet	Chipped Bentonite
(7)	No. Yards,
Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant Mix Ratio or Mud Weight or Volume
Bentonite Chips	Surface 45.0 16 bags
(8) Comments:	
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE: ONLY
WID Dironmental Drilling	Date Received/Inspected District/County
Signature of Person Doing Work Days Signed	
(12/5/94	Reviewer/Inspector
Street or Route / Telephone Number	
101 Alderson St. (715)359-7090	Follow-up Necessary
City, State, Zip Code	
Schofield, WI 54476	

(1)	GENERAL INFORMATION	(2)	FACILIT	Y NAME			
-	Well/Drillhole/Borehole County		Original V	Vell Owner (1	t Known)		
	Location SB-15VOC Ozaukee				* 2 +		•
	X E		Present W	ell Owner			
	SW 1/4 of SE 1/4 of Sec. 13 ; T. 10 N; R. 21 7	1	Tecums	seh Prodi	ucts		
	(If applicable)		Street or i	Route			
	Gov't Lot Grid Number		900 No	orth Str	eet		
	Grid Location		City, Stat	e, Zip Code			
	ft. N. S.,ft. E. W.		Grafto	on, WI			
-	Civil Town Name		Facility W	eil No. ana/c	or Name (II App	olicable) WI	Unique Well No.
	Grafton		SB-15V	OC			
	Street Address of Weil		Reason Fo	or Abandonm	nent		
	900 North Street		No lor	nger nee	ded & Auge	er Refusal	
	City, Village			bandonment			
	Grafton	<u> </u>	11-15	-94			
	ELL/DRILLHOLE/BOREHOLE INFORMATION	ومحسوم					
(ت)	Original Weil/Drillhole/Borehole Construction Completed On	(4)	Depth to	Water (Feet)	12.0		
	(Date) 11-15-94			Piping Remo	ved?	Yes 🗌 No 🛭	Not Applicable
				lemoved?		Yes ☐ No [Not Applicable
	Monitoring Well Construction Report Available?		Screen Re		L J	Yes No [Not Applicable
	☐ Water Well ☐ Yes ☐ No			eft in Place?		Yes 🗍 No ¯	
	△ Drillhole		If No, Ex	plain		**************************************	
	Borehole						
				-	lelow Surface?	- Innered	<u></u> №
	Construction Type:			-	lise to Surface?	السيسية	□ N ₀
	☐ Drilled ☐ Driven (Sandpoint) ☐ Dug				ter 24 Hours?	☐ Yes	X №
	Other (Specify)		If Yes,	Was Hole Re	topped?	∏ Y≊	N₀
		ত্য	Required	Method of P	lacing Sealing N	Matemai	
	Formation Type:	10		uctor Pipe-Gr		Conductor Pipe	-Pumped
	☐ Unconsolidated Formation ☐ Bedrock		=	Bailer		Other (Explain	-
	Total Well Depth (ft.) Casing Diameter (ins.)	(6)	Sealing N				ring wells and
	(From groundsurface)	(-)		Cement Gro	11		well boreholes only
	(Toni groundation)				ncrete) Grout	monum	well borelioles only
	Casing Depth (ft.)		Conc		iorom) Groun		te Pellets
	Castig Depti (IL)			Sand Slurry			r Bentonite
	Was Well Annular Space Grouted? Yes No Unknown	_		onite-Sand SI	l tempre.		te - Cement Grout
	If Yes, To What Depth?	"		ped Bentonite	•) Demoin	ie - Cemen Groun
	If 165, 10 what Deput:	<u>!</u>	D Curb	ped Bentonia			
(7)	Sealing Material Used	-	from (Ft.)	To (Ft.)	No. Yards. Sacks Sealant	Mix Ratio	or Mud Weight
	Scaling Hillerian Cocci	1,	TOTT (1 t.)	10 (1)	or Volume		
:			Surface	25 5	120.1		
	Bentonite Chips		J41.23	25.5	12 bags		
						Ì	
		Ì					
		T					
		\top					
: (8) Comments:						
				<u> </u>			
(9)	Name of Person or Firm Doing Sealing Work	Т	(10)	FO	R DNR OR	COUNTY US	E ONLY
(-,	WID Phrironmental Drilling		Date	Received/Ins			/County
	Signature of Person Doing Works Days Signed	_	Jun		,,,,,	. I	
	Signature of Person Doing World Date Signed		Ram	ewer/Inspect		F. C. Strategick	565056655556
	Street or Route Telephone Number	\dashv	l nex				
	101 Alderson St. (715) 359–7090		-	XC			
	City, State, Zip Code	_	roth	ow-up Neces:	sary		
	·						
	Schofield, WI 54476		•				

(1)	GENERAL INFORMATION	((2) F.	ACILIT	Y NAME					
	Well/Drillhole/Borehole Co	unty	0	nginal V	Vell Owner (li	Known)				
	Location SB-17VOC	Ozaukee				* : -				
		XE	Pı	esent W	ell Owner					
	SE 1/4 of SE 1/4 of Sec. 13	: T. 10 N; R. 21	Т	ecims	seh Produ	icts				
	(If applicable)									
	Gov't Lot	Grid Number	Tecumseh Products Street or Route 900 North Street City, State, Zip Code W. Grafton, WI Fachiny Weil No. and/or Name (If Applicable) SB-17VÖC Reason For Abandonment No longer needed Date of Abandonment 11-15-94 [4) Depth to Water (Feet) none Pump & Piping Removed? Yes No Not Applicable Yes Not Applicable Yes No Not Applicable Yes Not App							
	Grid Location	01.01.01.01								
	ft. \[N. \[S.,	ft. \square E. \square W.		•	=					
	Civil Town Name		F:	ichir W	eil No. and/or	r Name (II Appli	canie) IWI I mous Well No			
				-			WI Gladac Wea No.			
	Grafton Street Address of Well					***				
		į (-	_						
	919 14th Avenue					<u>led</u>				
	City, Village									
CONTRACTOR	Grafton			.1-10.	-94					
	ELL/DRILLHOLE/BOREHOLE I									
(د)	Original Well/Drillhole/Borehole Con	struction Completed On	(4) L	epth to	Water (Feet)	none				
	(Date) 11-15-94		P	ump &	Piping Remov	ved? 🔲 Ye	≈ No ⊠ Not Applicable			
			Onginal Well Owner (If Known) E							
	Monitoring Well	onstruction Report Available?	S	creen Re	moved?	☐ Ye	Yes No Not Applicable Yes No Not Applicable Yes No Not Applicable Yes No Not Applicable Yes No face? Yes No face? Yes No Ing Material Conductor Pipe-Pumped Other (Explain) For monitoring wells and monitoring well boreholes only out Bentonite Pellets Granular Bentonite Bentonite - Cement Grout Indicate Automatical Services OR COUNTY USE ONLY District/County			
	Water Well	☐ Yes ☐ No	(asing L	eft in Place?	≓ Ye				
	A Drillhole		Ongmal Well Owner (If Known) Present Well Owner Tecumseh Products Street or Route 900 North Street City, State, Zip Code Grafton, WI Facility Well No. and/or Name (If Applicable) SB-17VôC Reason For Abandonment No longer needed Date of Abandonment 11-15-94 (4) Depth to Water (Feet) none Pump & Piping Removed?							
	Borehole		Facility Weil No. and/or Name (If Applicable) WI Unique Weil No. SB-17VÖC							
	Boleible									
	Construction Type:				-		<u> </u>			
	Construction Type: Drilled Driven (S	androint) Dug								
		andpoint) 🗀 💆								
	Other (Specify)									
			(5) F	Lequired	Method of Pl	acing Sealing Ma	atenal			
	Formation Type:	· ·	٦	If Yes, Was Hole Retopped? Yes No Required Method of Placing Sealing Material Conductor Pipe-Gravity Conductor Pipe-Pumped Dump Bailer Other (Explain)						
		∐ Bedrock	ř	<u> </u>						
	Total Wall Danib (6)	ising Diameter (ins.)	(6) Sealing Materials For monitoring wells and							
	Total Weil Depth (ft.) Ca (From groundsurface)	and Dianett (113.)								
	(From groundsurface)						montaining went sortholes only			
						icreie) Grout	Domestic Bullion			
	Casing Depth (ft.)					i				
					-	I I				
	Was Well Annular Space Grouted?	Yes No Unknown		Bentonite - Cement Grout						
	If Yes, To What Depth?	Feet	Liner(s) Removed? Screen Removed? Casing Left in Place? If No, Explain Was Casing Cut Off Below Surface? Did Sealing Material Rise to Surface? Did Material Settle After 24 Hours? If Yes, Was Hole Retopped? Sealing Materials Conductor Pipe-Gravity Dump Bailer Conductor Pipe-Gravity Dump Bailer Other (Explain) (6) Sealing Materials Neat Cement Grout Sand-Cement (Concrete) Grout Concrete Clay-Sand Slurry Bentonite Pellets Clay-Sand Slurry Bentonite - Cement From (Ft.) To (Ft.) Socks Sealant or Volume Surface Not App Not App Not App Not App Not App Not App Not App Not App Not App Not App Not App Not App Not App Not App Not App Not App Not App Not App No X and Surface? Yes No No Other (Explain) For monitoring wells an monitoring wells an monitoring wells an monitoring well borehold Bentonite Pellets Clay-Sand Slurry Bentonite - Cement Surface 18.0 6 bags							
=			i –		T T	No. Yaras,				
(7)	Sealing Materia	d Used	Fro	m (Ft.)	To (Ft.)		Mix Ratio or Mud Weight			
-			 			or Volume				
	Bentonite Chips	į.	S	urface	18.0	6 bags				
	benconice chips					1 223	***************************************			
			1							
			1		1		·			
_			1			1				
(8)) Comments:				<u> </u>	· <u></u>				
(0	Comments.									
			_	1.10		V DND 00 0	OLDERAL MCC. ONE W			
(9) Name of Person or Firm Doing Seal	ing Work								
	WID Environmental Dry	lling		Date	Received/Ins	pected	District/County			
	Signature of Person Doing Work	Date Signed	٦			the state of				
	19 / Cola			Rev	iewer/inspect	or a grand	resident Substate di Arian del			
	Street or Route	Telephone Number	7							
	101 Alderson St.	(715)359-7090		Foll	law-up Neces	:araz	the state of the s			
	City, State, Zip Code	1 /13-335 /030	-	1:00	ia w-ah i teres	,				
	Schofield WT 54476			Ļ						

TECUMSEH PRODUCTS COMPANY

FINAL

APPENDIX B

WELL CONSTRUCTION AND DEVELOPMENT DOCUMENTATION

A. Protective pipe, top elevation

B. Well casing, top elevation

769.67ft. MSL

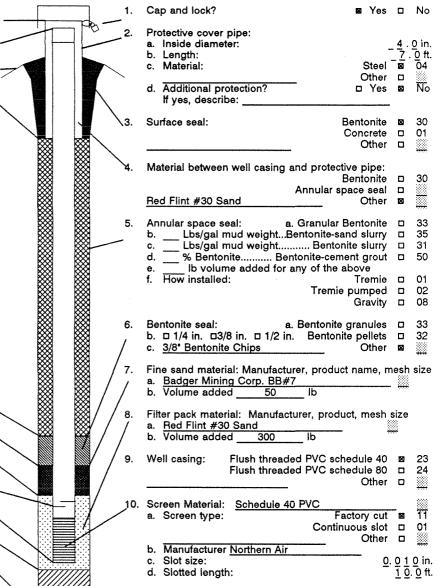
7 6 9 . 5 5 ft. MSL

Rev 4-9

Well Number
DNR Well Number 1 1 / 1 4 / 9 4 M M D D YY Name and Firm)
DD YY
e and Firm)

C. Lar	id surface elevation 7 6 7 . 1 π. MSL
D. Sur	face seal, bottom <u>7 6 6 . 6</u> ft. MSL or <u>0</u> . <u>5</u> ft.
12.	USCS classification of soil near screen: GP
13.	Sieve analysis attached? Yes □ No 🗷
14.	Drilling method used: Rotary □ 50 Hollow Stem Auger ■ 41Other □
15.	Drilling fluid used: Water □ 02 Air □ 01 Drilling Mud □ 03 None ⊠ 99
16.	Drilling additives used? Yes □ No ⊠
	Describe
17.	Source of water (attach analysis):

<u>766.6</u>	ft. MSL or	_ <u>0</u> , <u>5</u> ft.
<u>759.1</u>	ft. MSL or	_ <u>8</u> . <u>0</u> ft.
<u>757.1</u>	ft. MSL or	<u>1</u> <u>0</u> . <u>0</u> ft.
<u>755.1</u>	ft. MSL or	<u>1</u> <u>2</u> . <u>0</u> ft.
<u>745.1</u>	ft. MSL or	<u>2</u> <u>2</u> . <u>0</u> ft.
<u>743.1</u>	ft. MSL or	<u>2</u> <u>4</u> . <u>0</u> ft.
<u>739.1</u>	ft. MSL or	<u>28.0</u> ft.
		_ <u>8</u> . <u>3</u> in.
	_	2 . <u>3 8</u> in.
	_	<u>2</u> . <u>0</u> <u>0</u> in.
	7 5 9 · 1 7 5 7 · 1 7 5 5 · 1 7 4 5 · 1 7 4 3 · 1	_



Backfill material (below filter pack):

3/8" Bentonite Chips

None □14

Other 🗷

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

Signature Firm RMT, Inc.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. VR 141, Wis. Adm. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

	lid Waste 🗆 Haz. Waste 🗆 Wastewater 🗅 se & Repair 🗅 Underground Tanks 🗅 Other 🗅	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 4-90
Facility/Project Name Tecumseh Products Company 3084.05	Local Grid Location of Well N. □ E ft. □ S. ft. □ W	Well Name MW-12
Facility License, Permit or Monitoring Number	Grid Origin Location Lat	Wis. Unique Well Number DNR Well Number
Type of Well:Water Table Observation Well 2 11 Piezometer □ 12	St. Plane 490118.90 ft. N, 2544474.27 ft. E.	Date Well Installed 1 1 / 1 4 / 9 4 M M D D Y Y
	Section Location of Waste/Source	
Distance Well is From Waste/Source Boundary ft.	SW% of SE% of Sec.13, T10N, R21 DW Location of Well Relative to Waste/Source	
Is Well A Point of Enforcement Std. Application?	U □ Upgradient S □ Sidegradient D ■ Downgradient N □ Not Known	Dan Zielazowski WTD Environmental Drilling
A. Protective pipe, top elevation 7 5 9 . 5	6 ft. MSL1. Cap a	and lock? ⊠ Yes □ No
B. Well casing, top elevation 7 5 9 . 5		etive cover pipe:
C. Land surface elevation 7 5 7 . 1	a. Ins	
	C. Wil	aterial: Steel ⊠ 04 Other □
D. Surface seal, bottom 7 5 6 . 6 ft. MSL or 12. USCS classification of soil near screen:		Iditional protection? So Yes D No yes, describe: Bumper posts
GP□ GM□ GC□ GW□ SW⊠ SP SM□ SC□ ML□ MH□ CL□ CH□ Bedrock□	" 3 Surface	De seal: Bentonite Other Other
13. Sieve analysis attached? Yes □ No ■	4. Mater	ial between well casing and protective pipe:
14. Drilling method used: Rotary Hollow Stem Auger	50 41 Red F	Bentonite □ 30 Annular space seal □ □ Iint #30 Sand Other ■
Other 🗆		ar space seal: a. Granular Bentonite 🗆 33 Lbs/gal mud weightBentonite-sand slurry 🗈 35
15. Drilling fluid used: Water □ 02 Air □ Drilling Mud □ 03 None □	□ 01	Lbs/gal mud weightBentonite-sand slurry
16. Drilling additives used? Yes □ No ■		w installed: Tremie □ 01 Tremie pumped □ 02 Gravity □ 08
Describe		nite seal: a. Bentonite granules □ 33 1/4 in. □ 3/8 in. □ 1/2 in. Bentonite pellets □ 32
17. Source of water (attach analysis):	c. <u>3/</u>	Bentonite Chips Other State Other State Other State Other State Other State Other State Other Other State Other Other Other State Other Ot
E. Bentonite seal, top 756.6 ft. MSL or	/ _ a. <u>Ba</u>	lume added 50 lb
	—	pack material: Manufacturer, product, mesh size
F. Fine sand, top 7 4 9 . 1 ft. MSL or		d Flint #30 Sand Jume added <u>250</u> Ib
G. Filter pack, top 7 4 7 . 1 ft. MSL or	9. Well d	easing: Flush threaded PVC schedule 40 2 23 Flush threaded PVC schedule 80 2 24
H. Screen joint, top <u>7</u> <u>4</u> <u>5</u> . <u>1</u> ft. MSL or	1 2 · 0 ft.	Other D
I. Well bottom 7 3 5 . 1 ft. MSL or	== =	n Material: Schedule 40 PVC
J. Filter pack, bottom 7 3 4 . 1 ft. MSL or		Continuous slot □ 01
K. Borehole, bottom <u>7 3 4</u> . <u>1</u> ft. MSL or		anufacturer Northern Air ot size: 0. 0 1 0 in
L. Borehole, diameter		otted length: $\frac{1}{2}$ 0.0 ft
M. O.D. well casing	2 . <u>3</u> <u>8</u> in.	ill material (below filter pack): None 🛮 14 Other 🗆
N. I.D. well casing	2 . <u>0 0</u> in.	
hereby certify that the information on this form is		
Signature Please complete herb aides at this form and return	RMT, Inc.	this form as required by the 144 147 and 160 Wis

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin Department of Natural Resource			ız. Waste □ Was Underground Tan		er 🗅	Form 4400-	CONSTRUCTION		ev. 4
Facility/Project Name Tecumseh Products Company	y 3084.05	Local Grid L	ocation of Well	ft.	□ E.	Well Name MW-	12BR		
Facility License, Permit or Mo	nitoring Number	Grid Origin L Lat.			or	Wis. Unique Well N	umber DNR V	/ell N	umbe
Type of Well:Water Table Ob- Piezometer	servation Well □ 11 ⊠ 12		0109.27 ft. N, 254-			Date Well installed	<u>1</u> <u>1</u> /	1 <u>6</u> /	9 <u>4</u> Y Y
Distance Well is From Waste/	Source Boundary ft.	Location of \	4 of Sec.13, T10	aste/Source		Well Installed By: (Persons' Name	and F	irm)
Is Well A Point of Enforcemen	nt Std. Application? □ Yes □ No	U 🗆 Upgradi D 🗷 Downgr		idegradier Iot Known		Bergerson-Caswell,	Inc.		
. Protective pipe, top elevation	7 <u>7 5 9</u> . <u>6 4</u>	ft. MSL			Cap and	lock?	3	Yes	ם !
3. Well casing, top elevation	759.43			2.		e cover pipe: e diameter: th:		-3	<u>8.0</u> 37.6
C. Land surface elevation	<u> 7 5 7 . 0</u>	#. MSL			c. Mater			Steel Other	18 (
). Surface seal, bottom 7	<u>57.0</u> ft. MSL or_	<u>0</u> . <u>0</u> ft.		, ,		ional protection?		Yes	
12. USCS classification of s GP□ GM□ GC□ (SM□ SC□ ML□ I Bedrock ■				3.	Surface s	, describe: <u>Bumper p</u> seal:	Bento Cond	onite crete Other	25 (
13. Sieve analysis attached	? Yes⊡ No⊠			4.	Material	between well casing	and protective p	ipe:	
14. Drilling method used: Hollow Stem	Rotary ⊠ 50	41					Bento Annular space C		
15. Drilling fluid used: Wat Drilling Mu	Other 🗆 💈 er 🗆 02 Air 🙉 ud 🙉 03 None 🗆	01			b L c L d % e	space seal: a bs/gal mud weightE bs/gal mud weight 6 Bentonite Be lb volume added for installed:	mtonite s ntonite-cement c any of the above Tre	lurry lurry grout emie	
16. Drilling additives used? Describe	Yes 🗆 No 🛭						Tremie pum Gr	ped avity	D ·(
17. Source of water (attach	analysis):			,		e seal:			D 3
						d material: Manufactu ican Materials 45/55 i		ne, m	esh s
E. Bentonite seal, top 7 5	7.0 ft. MSL or _	0 . 0 ft.				ne added 50	lb		***
	0.0 ft. MSL or 4			//:	a. Red F	ck material: Manufac Flint #30 Sand ne added 1,900	turer, product, n lb	nesh s	ize
3. Filter pack, top 7 0	9.0 ft. MSL or 4	<u>8</u> . <u>0</u> ft.			Well casi	***************************************	ed PVC schedul	e 40	a :
I. Screen joint, top 7 0	<u>8</u> . <u>0</u> ft. MSL or <u>4</u>	9 . <u>0</u> ft.		/ .		Flush thread	ed PVC schedul C	e 80 Other	
Well bottom 7 0	<u>3</u> . <u>0</u> ft. MSL or <u>5</u>	4 . <u>0</u> ft.			Screen N				:
. Filter pack, bottom 7 0	3.0 ft. MSL or 5	4 . Q ft.			a. Scree	ы туре:	Factory Continuous C		
Borehole, bottom <u>6</u> <u>9</u>	7.0 ft. MSL or 6	<u>o</u> . <u>o</u> ft.			b. Manu c. Slot s	ıfacturer <u>Timco Mfg.,</u> size:			010
. Borehole, diameter	_ {	<u>3</u> . <u>0</u> in.			d. Slotte	ed length:		_	5.0
1. O.D. well casing	_ 3 .	<u>5</u> <u>0</u> in.				material (below filter p ay material from void		lone Other	□14 ⊠
I. I.D. well casing	_	. <u>8</u> <u>2</u> in.							

Please complete both sides of this ferm and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin Department of Natural Resources Route : Env. R	to: Solid Waste i esponse & Repa	□ Haz. Waste ir □ Undergrou	□ Wastewater : und Tanks □ O	ther 🗆	MONITORING WELL CONS Form 4400-113A		Rev. 4-90
Facility/Project Name Tecumseh Products Company 3084.05	Local (Grid Location of	□ N.	□ E. ft. □ W.	Well Name MW-14BR		
Facility License, Permit or Monitoring Num	I	rigin Location	_ong	ór	Wis. Unique Well Number	DNR Well N	lumber
Type of Well:Water Table Observation Wel Piezometer	□ 12 ULT 1	ne 489343.47 ft. 	. N, 2545683.58 aste/Source	ft. E.	Date Well Installed	12 / 06 MM DD	/ <u>9 4</u> Y Y
Distance Well is From Waste/Source Bound Is Well A Point of Enforcement Std. Application	ft. Location U U U		13, T10N, R21 ive to Waste/Sou S □ Sidegrad N □ Not Know	ient	Well Installed By: (Persons Glenn Holmen Bergerson-Caswell, Inc.	s' Name and f	Firm)
A. Protective pipe, top elevation 74 B. Well casing, top elevation 74 C. Land surface elevation 74 D. Surface seal, bottom 748.5 ft. M 12. USCS classification of soil near scree GP GM GM GC GW SW SW SM SC ML MH CL GBedrock 13. Sieve analysis attached? Yes 14. Drilling method used: Rotary Hollow Stem Auger Other 15. Drilling fluid used: Water G2 Drilling Mud G3	9.00 ft. MSL 8.79 ft. MSL 9.0 ft. MSL 9.0 ft. MSL SL or 0.5 ft. CH C		1. 2. 3. 4.	Annular b. Leg Annular b. Leg Annular b. Leg C. Leg	te cover pipe: e diameter: th: rial: tional protection? s, describe: 8" steel casing to seal: between well casing and pro Annula space seal: a. Granu bs/gal mud weightBentonit bs/gal mud weight Be b volume added for any of tinstalled:	Steel Other Steel Other Steel Bentonite Concrete Other Detective pipe: Bentonite ar space seal Other Ular Bentonite ee-sand slurry ntonite slurry cement grout	30 01 02 01 02 01 02
H. Screen joint, top 7 2 9 . 0 ft. MS I. Well bottom 7 1 4 . 0 ft. MS	L or 13.0 ft. L or 15.0 ft. L or 20.0 ft. L or 35.0 ft. L or 36.5 ft.		6. 7. 8.	b. 🗆 1/4 c. 3/8" I Fine san a. Amei b. Volur Filter pa a. Red b. Volur Well cas Screen i a. Screen b. Manu c. Slots d. Slots	A in. □3/8 in. □ 1/2 in. Bender Bentonite Chips Ind material: Manufacturer, provices Materials 45/55 meshome added 75 lb CK material: Manufacturer, provinces Manufacturer, provinces Manufacturer, provinces Manufacturer, provinces Manufacturer Flush threaded PVC Flush threaded	roduct name, moduct, mesh schedule 40 other patricular other other patricular other patricu	33 32 32 33 32 34 35 35 35 35 35 35 35 35 35 35 35 35 35
M. O.D. well casing	_ <u>3</u> . <u>5</u> <u>0</u> in.		11.		material (below filter pack): tonite Chips	None Other	
N. I.D. well casing	_ <u>2</u> . <u>8</u> <u>2</u> in.				THE ST. 121		
I hereby certify that the information on this for Signature		orrect to the bes Firm	st of my knowled	dge.		-	

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Facility/Project Name		1	igin Locati				Well Name	MW-3BR		
Tecumseh Products (company			.38 ft. N, 2		27 ft. E.	Well Install	ed By: (Person's l	Name and Firn	n)
Date Well Installed		l		of Waste/So		■ E.		nen, crew chief	,	_
11/18/94		SW 1/4	of SE 1/	4 of Sec.13	, T.10 N	l, R.21□ W.	Bergersor	-Caswell, Inc.		
Protective pipe, top e		758.59	ft. MSL—			Cap and i	ock?		Yes i	□ No
Well casing, top eleva	tion	757.82	ft. MSL 🔨	\backslash		Wellhead	manifold for	Multi-Port Monito	orina System	
Land surface elevation		758.7			T				3 - 7	
Bentonite seal, top	<u>757.2</u> ft.	MSL or .	1.5 ft. ~	-				e: (Flush Mount)		
LICCC -IKiKi	-6 :1		Darley et	71/21			e diameter:			.0 in.
USCS classification	or son near	screen: _	Bedrock	- 1 6/1		b. Leng c. Mate				.O ft. Steel
Drilling method used	: Uolo	R w Stem A	otary			L	J. 141.			21001_
Drilling fluid used:		er 🛘	Air 📕			8" steel	casing to 40	feet. Cemented i	n place.	
Drining hala asea.	Dr illing Mu		None 🛘				næ	Flush threaded F	N/C aabadila (40 🗖
				-101		Well Casi	rig.	Flush threaded P		
Fine sand, top	<u>704.7</u> ft.	MSL or	54.0 ft.					riasii tii caaca i	ve seriodale o	
Filter pack, top	<u>703.7</u> ft.		`			Bentonite	e seal:	3/8" Benton	ite Chips (1.0	00 lb.)
Packer, bottom	703.2 ft.				$\bot \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$					
Screen joint, top	702.7 ft.		`			Fine sand	l material: 🗛	merican Materials	45/55 mesh	(50#)
Transducer, Port 1	702.00 ft.	MSL or	<u>56.7</u> ft		出土	CAMBUN	IC DODT #1			
Screen joint, bottom	697.7 ft.	MSL or	61.0 ft		4	SAMPLIN	IG PORT #1			
Packer, top	<u>695.7</u> ft.	MSL or	63.0 ft			Filter pag	ck material:	Red Flint	#30 sand (27	75 lb.)
Filter pack, bottom	<u>695.7</u> ft.	MSL or	63.0 ft.			Bentonite	a coal:	2/9" Pont	onite Chips (6	00 lb)
Fine sand, top	660.7 ft.	MSL or	98.0 ft			Bencome	s Seal.	370 Benu	office Chips (or	<u>00 lb. 1</u>
Filter pack, top	<u>659.7</u> ft.	MSL or	99.0 ft.			Fine sand	l material: 🛕	merican Materials	45/55 mesh	(50#)
Packer, bottom	659.7 ft.	MSL or	99.0 ft. <			- Files and		n al Eka	#20 1/2	70 IL V
Screen joint, top	658.7 ft.	MSL or 1	100.0 ft]41	Filter par	ck material:	Red Film	#30 sand (27	/5 ID.)
Transducer, Port 2	<u>658.54</u> ft.	MSL or 1	100.2 ft.		V #	- SAMPLIN	IG PORT #2			
Screen joint, bottom	653.7 ft.	MSL or 1	<u>105.0</u> ft. -		山					
Packer, top	652.2 ft.	MSL or _	106.5 ft.			Permane	nt seir-inflat	ing Dow packer		
Filter pack, bottom	<u>651.7</u> ft.	MSL or 1	107.0 ft.		11/4	Bentonite	e seal:	3/8" Bent	onite Chips (5	20 lb.)
Fine sand, top	<u>621.7</u> ft.	MSL or	137.0 ft.	, MI		Eine een	1 material: A	merican Materials	15/55 mank	(504)
Filter pack, top	<u>620.7</u> ft.	MSL or	138.0 ft. ~			Fine Sand	a material: A	mencan materials	TJ/ JJ mesn	130#)
Packer, bottom	620.2 ft.	MSL or 1	138.5 ft.		- 1	Filter pag	ck material:	Red Flint	#30 sand (30	00 lb.)
Transducer, Port 3	<u>620.00</u> ft.	MSL or 1	138.7 ft.		4	-	IG PORT #3			
Screen joint, top	619.7 ft.	MSL or 1	139.0 ft.	~ ‡ 	#	_				
Screen joint, bottom	614.7 ft.	MSL or _	144.0 ft.			Screen	naterial: een type:		Schedule 8	O PVC
Filter pack, bottom	612.7 ft.	MSL or	146,0 ft.	- 1///			nufacturer:			co Co.
Borehole, bottom	<u>598.7</u> ft.	MSL or 1	1 <u>60.0</u> ft.~	V//	X	c. Slot				10 in.
Borehole, diameter	<u>8.0</u> in					d. Slot	ted length:		_5	.0 ft.
O.D. well casing	3.50 in					Backfill r	naterial (belo	ow filter pack):	N	one 🗖
I.D. well casing	2.82 in.						ntonite Chips			her 📕
I hereby certify/that the information on this form is true and correct to the best of my knowledge.										
Signatur e		/		1	Firm					
dis	~ (D = C	X/De	rac	1-1		KUL, I	<u> </u>			

Facility/Project Name		Grid O	rigin Locati	on			Well Name	MW-13BR	
Tecum seh Products (Company			.25 ft. N, 2		3.45 ft. E.	Well Instal	led By: (Person's Name and	d Firm)
Date Well Installed				of Waste/S		E.		nen, crew chief	
11/21/94		SW 1/	4 of SE 1/	4 of Sec.13	3, T.10 N	i, R.21□ W.	Ber ger so	n-Caswell, Inc.	
Protective pipe, top e		759.88	ft. MSL			Cap and I	ock?	■ Ye	es 🛭 No
Well casing, top eleva	ition		ft. MSL	$\overline{}$		Wellhead	manifold for	Multi-Port Monitoring Sys	stem
Land surface elevation			ft. MSL					The state of the s	
Bentonite seal, top	<u>757.4</u> ft. I	MSL or	<u>0.0</u> ft.	\ .				e: (Stickup well casing)	
				$\neg \square$			e diameter:		8.0 in.
USCS classification	of soil near	screen: _	Bedrock	- 1 1		b. Leng c. Mate			2.5 ft.
Drilling method used	l:		Rotary 📕			C. Mate	er Iai.		Steel
Dalling Goldens			Auger 🗆			8" steel	casing to 60	feet. Cemented in place.	
Drilling fluid used:	wat Drilling Mu	er 🛘 ıd 🖥	Air None					-	
				$\neg N$		— Well casi	ng:	Flush threaded PVC sched	
Fine sand, top	<u>669, 9</u> ft.	MSI or	87 5 ft s					Flush threaded PVC sched	tule 80
Filter pack, top	668, 9 ft.					Bentonite	e seal:	3/8" Bentonite Chips	(1, 475 lb.)
Packer, bottom				VV/L	$\coprod \!$	20.766716		- Marina Million	
•	668, 4 ft.			1		Fine sand	material: A	merican Materials 45/55 r	nesh (50#
Screen joint, to p	<u>667, 8</u> ft.			774					
Transducer, Port 1	<u>666. 04</u> ft.				日主民	SAMPLIN	IG PORT #1		
Screen joint, bottom				- +	T + U				
Filter pack, bottom	<u>660, 9</u> ft.	MSL or	96, 5 ft.			Filter pad	k material:	Red Flint #30 sar	nd (275 lb.)
Packer, to p	<u>659. 9</u> ft.	MSL or	97.5 ft			Bentonite	e seal·	3/8" Bentonite Chip	ne (350 lh)
Fine sand, top	<u>640. 4</u> ft.	MSL or	117. 0 fts			Dentant	J Juli.	57 6 Bernerine Crite	3 (330 10.7
Filter pack, top	<u>639. 4</u> ft.	MSL or	<u>118. 0</u> ft.			Fine sand	l material: <u>A</u>	merican Materials 45/55 i	mesh (50#
Packer, bottom	<u>638, 9</u> ft.	MSL or	<u>118, 5</u> ft						
Screen joint, to p	<u>638. 6</u> ft.	MSL or	<u>118. 8</u> ft			Filter pad	ck material:	Red Flint #30 san	d (250 lb.)
Transducer, Port 2	<u>637. 51</u> ft.	MSLor	<u>119, 9</u> ft		日土民	- SAMPLIN	IG PORT #2		
Screenjoint, bottom	<u>633, 6</u> ft.	MSL or	<u>123, 8</u> ft		7+1				
Packer, top	<u>631. 4</u> ft.					Permane	nt self-inflat	ing Dow packer	
Filter pack, bottom	631. 4 ft.								
,,	***************************************		120.0			— Bentonite	e seal:	3/8" Bentonite Chip	s (400 lb.)
Fine sand, top	<u>606. 4</u> ft.			N 1/1		Fine sand	d material: A	merican Materials 45/55	mesh (50#
Filter pack, top	<u>605. 4</u> ft.	MSL or	<u>152. 0</u> ft. -			/			THE STATE OF THE S
Packer, bottom	<u>605. 4</u> ft.	MSL or	<u>152. 0</u> ft			Filter pad	k material:	Red Flint #30 san	d (400 lb.)
Screen joint, to p	<u>604. 4</u> ft.	MSL or	<u>153. 0</u> ft. "	一丁丰	本国		IG PORT #3		
Transducer, Port 3	604, 06 ft.	MSLor	<u>153. 3</u> ft			OMMITTING .	iururi#3		
Screen joint, bottom	<u>599. 4</u> ft. l	MSL or	<u>158. 0</u> ft. "		ш	Screen n		Schedule 80 P	
Filter pack, bottom	<u>597. 4</u> ft.				7777		een type:	£	actory Cut
Borehole, bottom	<u>597.4</u> ft.			_ <i>\///</i>	H/λ	р. маг c. Slot	nufacturer:		Timco Co. 0.010 in.
				V //	~~~		ted length:		5.0 ft.
Borehole, diameter	_8.0 in.						-	au.	
O.D. well casing	<u>3.50</u> in.					Backfill n	naterial (belo	ow filter pack):	None I
I.D. well casing	<u>2.82</u> in.						***************************************		Other \square
I hereby certify that	the informa	tion on t	this form is	true and c		o the best of r	ny knowledg	je.	
Signature Lu	a which	1/201	wal	~	Firm	RMT, I	nc.		
		~			1	,	-		

Facility/Project Name	•	Grid Origin Locati	on		Well Name	MW-15BR		\neg
Tecumseh Products C	Company	St. Plane 489953	.55 ft. N, 25	545873.70 ft. E.	Well Install	ed By: (Person's Na	me and Firm	
Date Well Installed		Section Location	of Waste/So	urce E.		en, crew chief	ne and rit m	<u>'</u> .
12/02/94		SE 1/4 of SE 1/4	of Sec.13,	T.10 N, R.21 🗖 W.	Bergerson	-Caswell, Inc.		
Protective pipe, top e	levation	752.21 ft. MSL-	The second secon	Cap and	l lock?		Yes [] No
Well casing, top eleva	tion	751.01 ft. MSL	\backslash \blacksquare		d manifold for	Multi-Port Monitori	na Svetem	
Land surface elevation	n	752.2 ft. MSL		片 I	a mam da ra	march of thomas	ng System	
Bentonite seal, top	<u>750.7</u> ft. l	MSL or <u>1.5</u> ft.—	-	1 7 7		e: (Flush Mount)		
			\neg \square		de diameter:			.0 in.
USCS classification	of soil near	screen: <u>Bedrock</u>	- 16/1	b. Ler	-			O ft.
Drilling method used		Rotary 🌌		C. Ma	terial:		_3	teel
		w Stem Auger		8" stee	I casing to 17.	.5 feet.		
Drilling fluid used:		er 🔲 Air 🖬		Well and		Floor thousands of DVA	5 lu - d d - 4	^ =
	Drilling Mu	d = None Li		Well ca	sing:	Flush threaded PVI Flush threaded PVI		_
						riddir cir caucu r vo	J SCHOOLE O	· .
Fine sand, top		MSL or <u>30.0</u> ft.	\	Bentoni	te seal:	3/8" Benton	ite Chips (50	00 lb.)
Packer, bottom		MSL or <u>30.9</u> ft.						
Filter pack, top		MSL or <u>31.0</u> ft.		Fine sar	id material: <u>Ar</u>	merican Materials 4	5/55 mesh ((50#)
Screen joint, top	720.2 ft.	MSL or <u>32.0</u> ft		,				
Transducer, Port 1	<u>719.68</u> ft.	MSL or <u>32.5</u> ft.	- F 	SAMPLI	NG PORT #1			
Screen joint, bottom	715.2 ft.	MSL or <u>37.0</u> ft.				n - let	201/20	
Packer, top	713.8 ft.	MSL or <u>38,4</u> ft.		Filter p	ack material:	Ked Flint #	30 sand (30	0 16.)
Filter pack, bottom	<u>713.2</u> ft.	MSL or <u>39.0</u> ft.		TP	ant calf inflati	ing Dow packer		
			<i>[</i> 2]	Per man	ent Sen-Innaci	ing Dow packer		
			<i>[</i> 2]	11/2				
			<i>[</i>]					
•			12	Bentoni	te seal:	3/8" Bentonite	Chips (1.50	00 lb.)
			<i>M</i> 1	11/2				
			1/21	11/2				
Fine sand, top	<u>629.2</u> ft.	MSL or <u>123.0</u> ft	12	112				
Filter pack, top	628.0 ft.	MSL or <u>124.0</u> ft.		Fine sar	nd material: A	merican Materials 4	5/55 mesh	(50#)
Packer, bottom		MSL or <u>124.4</u> ft		Filter n	ack material:	Red Flint #	30 sand (30	00 lb \
Screen joint, top		MSL or <u>125.0</u> ft.]+1		INVA I BUILT	AND TO	- × 1×1.1
Transducer, Port 2		MSL or <u>126.0</u> ft	——非	SAMPL	NG PORT #2			
Screen joint, bottom		MSL or <u>130.0</u> ft	一十七	LT Screen	material:		Schedule 40	O PVC
Filter pack, bottom	620.0 ft.	MSL or <u>132.0</u> ft		00000000000	reen type:		Factor	
, ,				Б. М.	anufacturer:		Iimc	o Co.
			<i>\\\\\</i>		ot size:			10 in.
Borehole, bottom	<u>588.2</u> ft.	MSL or <u>164.0</u> ft.	. [///	d. SI	otted length:		_ 5	.0 ft.
Borehole, diameter	_8.0 in		\\//\/	neal en	motorial (hel-	uu filton maal-)-	A.I	T
O.D. well casing	3.50 in.				materiai (beio entonite Chips	w filter pack): (750 lb.)		one 🔲 her 📕
I.D. well casing							30	
i.b. well casing	<u>3.00</u> in.							
I hereby certify that	the informa	ition on this form is	true and co	rrect to the heet of	my knowledo	ie		
Signatur e	. the intot ma		u ue anu co	Firm				
	ag. V	Sewest	~	RMT,	Inc.			

State of Wisconsin Department of Natural Resources

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 4-90

Route to:	Solid Waste □	Haz. Waste 🗆	Wastewate	er 🗆	
Env. Resp	onse & Repair	□ Underground	d Tanks □	Other 🗆	

Facility/Project Name Tecumseh Products Company 3084.05	County Name Ozaukee		Well Name MW-11			
Facility License, Permit or Monitoring Number	County Code 4 6	Wis. Unique Well Nur	mber DNI	R Well Number		
Can this well be purged dry?	■ Yes □ No		Before Development	After Development		
Well development method surged with bailer and bailed surged with bailer and pumped surged with block and bailed	416142	11. Depth to Water (from top of well casing)	a. <u>1 0.2 1</u> ft.	_ <u>1 9.7 5</u> ft.		
surged with block and pumped surged with block, bailed and pumped compressed air bailed only	□ 62 □ 70 □ 20 ■ 10	Date	b. 12/08/94 m m d d y y	12/09/94 m m d d y y		
pumped only pumped slowly Other	□ 51 □ 50	Time	c. <u>3: 2 0</u> B p.m.	3: 4_0 B p.m.		
3. Time spent developing well	<u>6_0</u> min.	12. Sediment in well bottom	<u>0. 0</u> inches	<u>0. 0</u> inches		
4. Depth of well (from top of well casing)	_ <u>2 4.7</u> ft.	13. Water clarity	Clear □ 10 Turbid ■ 15 (Describe)	Clear □ 20 Turbid ■ 25 (Describe)		
5. Inside diameter of well	<u>2.0_0</u> in.		Brown, very turbid	Brown, very turbid		
Volume of water in filter pack and well casing	_ <u>1 1.2</u> gal.					
7. Volume of water removed from well	<u>1_6.0</u> gal.	Fill in if drilling fluids	were used and well is at s	olid waste facility:		
8. Volume of water added (if any)	<u>0.0</u> gal.					
9. Source of water added N/A		14. Total suspended solids	mg/l	mg/l		
	vantaunatu	15. COD	mg/l	mg/l		
10. Analysis performed on water added? (If yes, attach results)	□ Yes □ No					
16. Additional comments on development:						
Bailed dry four times						
Well developed by: Person's Name and Firm		I hereby certify that the knowledge.	ne above information is tru	e and correct to the best of my		
Name: Lisa S. Drzewiecki		Signature:	wa J. Wale	wet:		
Firm: RMT Inc.		Print Initials:	\mathcal{D} , \mathcal{A}_{z}			

Firm:

RMT Inc.

Facility/Project Name County Tecumseh Products Company 3084.05 County			Well Name MW-12		
Facility License, Permit or Monitoring Number	County Code 4 6	Wis. Unique Well Nur	nber	DNR Well Number	
1. Can this well be purged dry?	□ Yes 18 No		Before Developmen	t After Development	
Well development method surged with bailer and bailed surged with bailer and pumped surged with block and bailed surged with block and pumped	□ 41 2 61 □ 42 □ 62	11. Depth to Water (from top of well casing)	a. <u>1 3.8 5</u> ft.	_ <u>1 4.6 5</u> ft.	
surged with block, bailed and pumped compressed air bailed only	□ 70 □ 20 □ 10	Date	b. <u>11/16/94</u> m m d d y y	11/16/94 m m d d y y ■ a.m.	
pumped only pumped slowly Other	口 51 口 50 口 <u>※</u>	Time	c. <u>7:40 p.m.</u>		
-		12. Sediment in well bottom	_ <u>0</u> . <u>1</u> inches	_ <u>0. 0</u> inches	
3. Time spent developing well	<u>9_0</u> min.				
4. Depth of well (from top of well casing)	<u>2 4, 6</u> ft.	13. Water clarity	Clear 11 Turbid 28 13 (Describe)	5 Turbid □ 25	
5. Inside diameter of well	<u>2.0_0</u> in.		Brown, turbid		
Volume of water in filter pack and well casing	8.3 gal.				
7. Volume of water removed from well	<u>9 0.0</u> gal.	Fill in if drilling fluids	were used and well is	s at solid waste facility:	
8. Volume of water added (if any)	<u>0.0</u> gal.				
9. Source of water added N/A		14. Total suspended solids	mg/l	mg/l	
		15. COD	mg/l	mg/l	
 Analysis performed on water added? (If yes, attach results) 	□ Yes □ No				

16. Additional comments on development:

Well developed by: Person's Name and Firm	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: Dan Zielazowski	Signature: Lisa & Murech.
Firm: WTD Environmental Drilling	Print Initials: LSD
	Firm: RMT, Inc.

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 4-90

Route to: Solid Waste
Haz. Waste
Wastewater
Env. Response & Repair
Underground Tanks
Other

Facility/Project Name Tecumseh Products Company 3084.05 County Name Ozaukee			Well Name MW-12BR		
Facility License, Permit or Monitoring Number	County Code 4 6	Wis, Unique Well Nur	mber	DNR Well Number	
1. Can this well be purged dry?	□ Yes ■ No		Before Development	After Development	
Well development method surged with bailer and bailed surged with bailer and pumped surged with block and bailed surged with block and pumped	□ 41 ■ 61 □ 42 □ 62	11. Depth to Water (from top of well casing)	a. <u>1 3.8 3</u> ft.	_ <u>1 4.9 5</u> ft.	
surged with block, bailed and pumped compressed air bailed only	□ 70 □ 20 □ 10	Date	b. <u>12/02/94</u> m m d d y y	12/02/94 m m d d y y	
pumped only pumped slowly Other	□ 51 □ 50 □	Time	c. 3:00 mp.m.		
	- ***	12. Sediment in well bottom	_ <u>0. 0</u> inches	_ <u>0. 0</u> inches	
3. Time spent developing well	_ <u>6 0</u> min.				
4. Depth of well (from top of well casing)	_ <u>5 5.5</u> ft.	13. Water clarity	Clear 10 Turbid 82 15 (Describe)		
5. Inside diameter of well	_ <u>2.8 2</u> in.		Brown		
Volume of water in filter pack and well casing	_ <u>1 7.2</u> gal.		**************************************		
7. Volume of water removed from well	<u>7 2 0.0</u> gal.				
8. Volume of water added (if any)	0. 0 gal.	Fill in if drilling fluids	were used and well is	at solid waste facility:	
9. Source of water added N/A		14. Total suspended solids	mg/l	mg/l	
		15. COD	mg/l	mg/l	
Analysis performed on water added? (If yes, attach results)	□ Yes □ No	•			

Additional comments on developm	ent:
---	------

Pumped the well for 1 hour at 12 gpm.

Water level during pumping = 22.18 T/PVC

Well developed by: Person's Name and Firm	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: Glenn Holmen	Signature: Lisa S. Wewtech.
Firm: Bergerson-Caswell, Inc.	Print Initials: <u>LSD</u>
	Firm: RMT, Inc.

Route to: Solid Waste
Haz. Waste
Wastewater
Env. Response & Repair
Underground Tanks
Other
Underground

Facility/Project Name County Tecumseh Products Company 3084.05 Ozauk			Well Name MW-14BR		
Facility License, Permit or Monitoring Number	County Code 4 6	Wis. Unique Well Nur	nber DN	IR Well Number	
Can this well be purged dry?	□ Yes 🛭 No		Before Development	After Development	
Well development method surged with bailer and bailed surged with bailer and pumped surged with block and bailed surged with block and pumped	□ 41 □ 61 □ 42 □ 62	11. Depth to Water (from top of well casing)	a. <u>1 2.9 8</u> ft.	_ <u>1 5.7 4</u> ft.	
surged with block, bailed and pumped compressed air bailed only	□ 70 □ 20 □ 10	Date	b. 12/06/94 m m d d y y	12/06/94 m m d d y y	
pumped only pumped slowly Other	≅ 51 □ 50 □ ∑	Time	c. <u>3:1 0</u> B p.m.	<u>4:0_3</u> ⊠ p.m.	
Other		12. Sediment in well bottom	_ <u>0</u> . <u>0</u> inches	<u>0. 0</u> inches	
3. Time spent developing well	<u>4_5</u> min.				
4. Depth of well (from top of well casing)	_ <u>3_4.9</u> ft.	13. Water clarity	Clear □ 10 Turbid 2 15 (Describe)	Clear 2 20 Clear 2 5 (Describe)	
5. Inside diameter of well	<u>2.82</u> in.		Light brown, Moderate turbidity		
Volume of water in filter pack and well casing	<u>1 8.7</u> gal.				
7. Volume of water removed from well	<u>3 4 5.0</u> gal.				
		Fill in if drilling fluids	were used and well is at	solid waste facility:	
8. Volume of water added (if any)	<u>0.0</u> gal.				
9. Source of water added N/A		14. Total suspended solids	mg/l	mg/l	
· ·		15. COD	mg/l	mg/l	
10. Analysis performed on water added? (If yes, attach results)	□ Yes □ No				

Additional comments on development	16.	Additional	comments	on	develo	pmen	t
--	-----	------------	----------	----	--------	------	---

Pumped at 5 gpm for 5 minutes, then increased pumping rate to 8 gpm and pumped for 40 minutes.

Water level during pumping = 24.47 T/PVC

Well developed by: Person's Name and Firm	I hereby certify that the above information is true and correct to the best of my knowledge.			
Name: Glenn Holmen	Signature: Loa J. Meuled.			
Firm: Bergerson-Caswell, Inc.	Print Initials: <u>(S </u> <u>D</u>			
	Firm: RMT, INC.			

TECUMSEH PRODUCTS COMPANY

FINAL

APPENDIX C

RESULTS OF LABORATORY ANALYSIS OF GROUNDWATER - MONITORING WELLS

PAT

PROJECT NAME: TECUMSEH PROJECT NO: 03084.05

WORK ORDER NO: 6144

REPORT DATE: 12/27/94

PAGE NO: 1

SAMPLE NO.	STATION ID	COLL. DATE	SAMPLE NO.	STATION ID	COLL. DATE
6144-002	TRIP BLANK				
6144-003 6144-004	MW-12 MW-12BR	12/14/94 12/14/94			
6144-005 6144-006	MW-9D MW-8D	12/14/94 12/14/94			
6144-007 6144-008	MW-13BR-1 MW-13BR-2	12/14/94 12/14/94			
6144-009 6144-010	MW-3D MW-13BR-3	12/14/94 12/14/94			
6144-011 6144-012	MW-14BR MW-11	12/14/94 12/14/94			
6144-013 6144-014	MW-15BR-1 MW-15BR-2	12/14/94 12/14/94			
6144-015 6144-016	MW-3BR-1 MW-3BR-2	12/14/94 12/14/94			
6144-017	MW-3BR-3	12/14/94			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and RMT Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by RMT Laboratory management, as is verified by the following signature.

Approval Signature

Date

Lab Cert. #: WI DNR 113138520, MN DNR 055-999-107, SC DHEC 83001, TN DOH 02916



PAGE: 1

PROJECT NAME: TECUMSEH

PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-002

STATION ID: TRIP BLANK

WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94

COLLECTION DATE:

ANALYSIS DATE: 12/19/94

METHOD: 8021

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	•	CODE UNITS
Dichlorodifluoromethane	<2.0	2.0	ug/L
Chloromethane	<1.0	1.0	ug/L
Vinyl chloride	<1.0	1.0	ug/L
Bromomethane	<5.0	5.0	ug/L
Chloroethane	<1.0	1.0	ug/L
Fluorotrichloromethane	<1.0	1.0	ug/L
1,1-Dichloroethene	<1.0	1.0	ug/L
Methylene chloride	<1.0	1.0	ug/L
trans-1,2-Dichloroethene	<1.0	1.0	ug/L
1,1-Dichloroethane	<1.0	1.0	ug/L
2,2-Dichloropropane	<2.0	2.0	ug/L
cis-1,2-Dichloroethene	<1.0	1.0	ug/L
Chloroform	<1.0	1.0	ug/L
Bromochloromethane	<1.0	1.0	ug/L
1,1,1-Trichloroethane	<1.0	1.0	ug/L
1,1-Dichloropropene	<1.0	1.0	ug/L
Carbon tetrachloride	<1.0	1.0	ug/L
1,2-Dichloroethane	<1.0	1.0	ug/L
Benzene	<1.0	1.0	ug/L
Trichloroethene	<1.0	1.0	ug/L
1,2-Dichloropropane	<1.0	1.0	ug/L
Bromodichloromethane	<1.0	1.0	ug/L
Dibromomethane	<1.0	1.0	ug/L
cis-1,3-Dichloropropene	<1.0	1.0	ug/L
Toluene	<1.0	1.0	ug/L
trans-1,3-Dichloropropene	<1.0	1.0	ug/L
1,1,2-Trichloroethane	<1.0	1.0	ug/L
Tetrachloroethene	<2.0	2.0	ug/L
1,3-Dichloropropane	<2.0	2.0	ug/L
Chlorodibromomethane	<1.0	1.0	. ug/L
1,2-Dibromoethane	<1.0	1.0	ug/L
Chlorobenzene	<1.0	1.0	ug/L
1,1,1,2-Tetrachloroethane	<2.0	2.0	ug/L
Ethylbenzene	<1.0	1.0	ug/L
Xylene, total	<3.0	3.0	ug/L
Styrene	<1.0	1.0	ug/L
Isopropylbenzene	<1.0	1.0	ug/L
Bromoform	<2.0	2.0	ug/L
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L
1,2,3-Trichloropropane	<1.0	1.0	ug/L
n-Propylbenzene	<1.0	1.0	ug/L



PROJECT NAME: TECUMSEH

PROJECT NUMBER: 03084.05

LAB SAMPLE NUMBER: 6144-002 STATION ID: TRIP BLANK

WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94

COLLECTION DATE:

ANALYSIS DATE: 12/19/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
AND BUT DOES AND AND AND AND AND	AMERICA SECURIO SECURIO SECURIO SECURIO SECURIO	WE NO 112	the san and san	
Bromobenzene	<1.0	1.0		ug/L
1,3,5-Trimethylbenzene	<1.0	1.0		ug/L
2-Chlorotoluene	<1.0	1.0		ug/L
4-Chlorotoluene	<1.0	1.0		ug/L
tert-Butylbenzene	<2.0	2.0		ug/L
1,2,4-Trimethylbenzene	<1.0	1.0		ug/L
sec-Butylbenzene	<1.0	1.0		ug/L
p-Isopropyltoluene	<1.0	1.0		ug/L
1,3-Dichlorobenzene	<1.0	1.0		ug/L
1,4-Dichlorobenzene	<1.0	1.0		ug/L
n-Butylbenzene	<1.0	1.0		ug/L
1,2-Dichlorobenzene	<1.0	1.0		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L
1,2,4-Trichlorobenzene	<1.0	1.0		ug/L
Hexachlorobutadiene	<1.0	1.0		ug/L
Naphthalene	<5.0	5.0		ug/L
1,2,3-Trichlorobenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-003

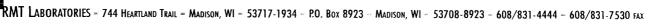
REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/21/94

STATION ID: MW-12

METHOD: 8021

WI DNR LAB ID: 113138520

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<100	100	Affice objects cannot spayed	ug/L
Chloromethane	<50	50		ug/L
Vinyl chloride	<50	50		ug/L
Bromomethane	<250	250		ug/L
Chloroethane	<50	50		ug/L
Fluorotrichloromethane	<50	50		ug/L
1,1-Dichloroethene	61	50		ug/L
Methylene chloride	<50	50		ug/L
trans-1,2-Dichloroethene	<50	50		ug/L
1,1-Dichloroethane	150	50		ug/L
2,2-Dichloropropane	<100	100		ug/L
cis-1,2-Dichloroethene	<50	50		ug/L
Chloroform	<50	50		ug/L
Bromochloromethane	<50	50		ug/L
1,1,1-Trichloroethane	490	50		ug/L
1,1-Dichloropropene	<50	50		ug/L
Carbon tetrachloride	<50	50		ug/L
1,2-Dichloroethane	<50	50		ug/L
Benzene	<50	50		ug/L
Trichloroethene	3000	50		ug/L
1,2-Dichloropropane	<50	50		ug/L
Bromodichloromethane	<50	50		ug/L
Dibromomethane	<50	50		ug/L
cis-1,3-Dichloropropene	<50	50		ug/L
Toluene	<50	50		ug/L
trans-1,3-Dichloropropene	<50	50		ug/L
1,1,2-Trichloroethane	<50	50		ug/L
Tetrachloroethene	<100	100		ug/L
1,3-Dichloropropane	<100	100		ug/L
Chlorodibromomethane	<50	50		ug/L
1,2-Dibromoethane	<50	_{>} 50		ug/L
Chlorobenzene	<50	. 50		ug/L
1,1,1,2-Tetrachloroethane	<100	100		ug/L
Ethylbenzene	<50	50		ug/L
Xylene, total	<150	150		ug/L
Styrene	<50	50		ug/L
Isopropylbenzene	<50	50		ug/L
Bromoform	<100	100		ug/L
1,1,2,2-Tetrachloroethane	<50	50		ug/L
1,2,3-Trichloropropane	<50	50		ug/L
n-Propylbenzene	<50	.50		ug/L



PROJECT NAME: TECUMSEH PROJECT NUMBER: 03084.05 LAB SAMPLE NUMBER: 6144-003

STATION ID: MW-12

WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/21/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
Bromobenzene	<50	50		ug/L
1,3,5-Trimethylbenzene	<50	50		ug/L
2-Chlorotoluene	<50	50		ug/L
4-Chlorotoluene	<50	50		ug/L
tert-Butylbenzene	<100	100		ug/L
1,2,4-Trimethylbenzene	<50	50		ug/L
sec-Butylbenzene	<50	50		ug/L
p-Isopropyltoluene	<50	50		ug/L
1,3-Dichlorobenzene	<50	50		ug/L
1,4-Dichlorobenzene	<50	50		ug/L
n-Butylbenzene	<50	50		ug/L
1,2-Dichlorobenzene	<50	50		ug/L
1,2-Dibromo-3-chloropropane	<50	50		ug/L
1,2,4-Trichlorobenzene	<50	50		ug/L
Hexachlorobutadiene	<50	50		ug/L
Naphthalene	<250	250		ug/L
1,2,3-Trichlorobenzene	<50	50		ug/L



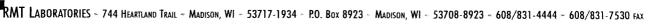
PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-004

144-004 A

STATION ID: MW-12BR WI DNR LAB ID: 113138520 REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<20	20		ug/L
Chloromethane	<10	10		ug/L
Vinyl chloride	<10	10		ug/L
Bromomethane	<50	50		ug/L
Chloroethane	<10	10		ug/L
Fluorotrichloromethane	<10	10		ug/L
1,1-Dichloroethene	35	10		ug/L
Methylene chloride	<10	10		ug/L
trans-1,2-Dichloroethene	<10	10		ug/L
1,1-Dichloroethane	180	10		ug/L
2,2-Dichloropropane	<20	20		ug/L
cis-1,2-Dichloroethene	<10	10		ug/L
Chloroform	<10	10		ug/L
Bromochloromethane	<10	10		ug/L
1,1,1-Trichloroethane	580	10		ug/L
1,1-Dichloropropene	<10	10		ug/L
Carbon tetrachloride	<10	10		ug/L
1,2-Dichloroethane	<10	10		ug/L
Benzene	<10	10		ug/L
Trichloroethene	84	10		ug/L
1,2-Dichloropropane	<10	10		ug/L
Bromodichloromethane	<10	10		ug/L
Dibromomethane	<10	10		ug/L
cis-1,3-Dichloropropene	<10	10		ug/L
Toluene	<10	10		ug/L
trans-1,3-Dichloropropene	<10	10		ug/L
1,1,2-Trichloroethane	<10	10		ug/L
Tetrachloroethene	<20	20		ug/L
1,3-Dichloropropane	<20	.20		ug/L
Chlorodibromomethane	<10	10		ug/L
1,2-Dibromoethane	<10	10		ug/L
Chlorobenzene	<10	10		ug/L
1,1,1,2-Tetrachloroethane	<20	20		ug/L
Ethylbenzene	<10	10		ug/L
Xylene, total	<30	30		ug/L
Styrene	<10	10		ug/L
Isopropylbenzene	<10	10		ug/L
Bromoform	<20	20		ug/L
1,1,2,2-Tetrachloroethane	<10	10		ug/L
1,2,3-Trichloropropane	<10	10		ug/L
n-Propylbenzene	<10	10		ug/L
- •				J,



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-004

STATION ID: MW-12BR WI DNR LAB ID: 113138520 REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
مستد مستد ميد ميد من من من من م				
Bromobenzene	<10	10		ug/L
1,3,5-Trimethylbenzene	<10	10		ug/L
2-Chlorotoluene	<10	10		ug/L
4-Chlorotoluene	<10	10		ug/L
tert-Butylbenzene	<20	20		ug/L
1,2,4-Trimethylbenzene	<10	10		ug/L
sec-Butylbenzene	<10	10		ug/L
p-Isopropyltoluene	<10	10		ug/L
1,3-Dichlorobenzene	<10	10		ug/L
1,4-Dichlorobenzene	<10	10		ug/L
n-Butylbenzene	<10	10		ug/L
1,2-Dichlorobenzene	<10	10		ug/L
1,2-Dibromo-3-chloropropane	<10	10		ug/L
1,2,4-Trichlorobenzene	<10	10		ug/L
Hexachlorobutadiene	<10	10		ug/L
Naphthalene	<50	50		ug/L
1,2,3-Trichlorobenzene	<10	10		ug/L



PROJECT NAME: TECUMSEH PROJECT NUMBER: 03084.05 LAB SAMPLE NUMBER: 6144-005

STATION ID: MW-9D WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/19/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<100	100		ug/L
Chloromethane	<50	50		ug/L
Vinyl chloride	<50	50		ug/L
Bromomethane	<250	250		ug/L
Chloroethane	<50	50		ug/L
Fluorotrichloromethane	<50	50		ug/L
1,1-Dichloroethene	<50	50		ug/L
Methylene chloride	<50	50		ug/L
trans-1,2-Dichloroethene	<50	50		ug/L
1,1-Dichloroethane	94	50		ug/L
2,2-Dichloropropane	<100	100		ug/L
cis-1,2-Dichloroethene	680	50		ug/L
Chloroform	<50	50		ug/L
Bromochloromethane	<50	50		ug/L
1,1,1-Trichloroethane	350	50		ug/L
1,1-Dichloropropene	<50	50		ug/L
Carbon tetrachloride	<50	50		ug/L
1,2-Dichloroethane	<50	50		ug/L
Benzene	<50	50		ug/L
Trichloroethene	1400	50		ug/L
1,2-Dichloropropane	<50	50		ug/L
Bromodichloromethane	<50	50		ug/L
Dibromomethane	<50	50		ug/L
cis-1,3-Dichloropropene	<50	50		ug/L
Toluene	<50	50		ug/L
trans-1,3-Dichloropropene	<50	50		ug/L
1,1,2-Trichloroethane	<50	50		ug/L
Tetrachloroethene	<100	100		ug/L
1,3-Dichloropropane	<100	100		ug/L
Chlorodibromomethane	<50	50		ug/L
1,2-Dibromoethane	<50	50		ug/L
Chlorobenzene	<50	50		ug/L
1,1,1,2-Tetrachloroethane	<100	100		ug/L
Ethylbenzene	<50	50		ug/L
Xylene, total	<150	150		ug/L
Styrene	<50	50		ug/L
Isopropylbenzene	<50	50		ug/L
Bromoform	<100	100		ug/L
1,1,2,2-Tetrachloroethane	<50	50		ug/L
1,2,3-Trichloropropane	<50	50		ug/L
n-Propylbenzene	<50	50		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-005

COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/19/94

REPORT DATE: 12/27/94

STATION ID: MW-9D

METHOD: 8021

WI DNR LAB ID: 113138520

COMPOUND	RESULT	EQL	CODE	UNITS
NAME AND THE PART OF THE PART		Nis 100 100		
Bromobenzene	<50	50		ug/L
1,3,5-Trimethylbenzene	<50	50		ug/L
2-Chlorotoluene	<50	50		ug/L
4-Chlorotoluene	<50	50		ug/L
tert-Butylbenzene	<100	100		ug/L
1,2,4-Trimethylbenzene	<50	50		ug/L
sec-Butylbenzene	<50	50		ug/L
p-Isopropyltoluene	<50	50		ug/L
1,3-Dichlorobenzene	<50	50		ug/L
1,4-Dichlorobenzene	<50	50		ug/L
n-Butylbenzene	<50	50		ug/L
1,2-Dichlorobenzene	<50	50		ug/L
1,2-Dibromo-3-chloropropane	<50	50		ug/L
1,2,4-Trichlorobenzene	<50	50		ug/L
Hexachlorobutadiene	<50	50		ug/L
Naphthalene	<250	250		ug/L
1,2,3-Trichlorobenzene	<50	50		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-006

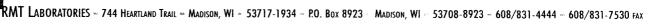
REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/19/94

STATION ID: MW-8D

METHOD: 8021

WI DNR LAB ID: 113138520

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<2.0	2.0		ug/L
Chloromethane	<1.0	1.0		ug/L
Vinyl chloride	<1.0	1.0		ug/L
Bromomethane	<5.0	5.0		ug/L
Chloroethane	<1.0	1.0		ug/L
Fluorotrichloromethane	<1.0	1.0		ug/L
1,1-Dichloroethene	<1.0	1.0		ug/L
Methylene chloride	<1.0	1.0		ug/L
trans-1,2-Dichloroethene	<1.0	1.0		ug/L
1,1-Dichloroethane	<1.0	1.0		ug/L
2,2-Dichloropropane	<2.0	2.0		ug/L
cis-1,2-Dichloroethene	<1.0	1.0		ug/L
Chloroform	<1.0	1.0		ug/L
Bromochloromethane	<1.0	1.0		ug/L
1,1,1-Trichloroethane	<1.0	1.0		ug/L
1,1-Dichloropropene	<1.0	1.0		ug/L
Carbon tetrachloride	<1.0	1.0		ug/L
1,2-Dichloroethane	<1.0	1.0		ug/L
Benzene	<1.0	1.0		ug/L
Trichloroethene	1.8	1.0		ug/L
1,2-Dichloropropane	<1.0	1.0	•	ug/L
Bromodichloromethane	<1.0	1.0		ug/L
Dibromomethane	<1.0	1.0		ug/L
cis-1,3-Dichloropropene	<1.0	1.0		ug/L
Toluene	<1.0	1.0		ug/L
trans-1,3-Dichloropropene	<1.0	1.0		ug/L
1,1,2-Trichloroethane	<1.0	1.0		ug/L
Tetrachloroethene	<2.0	2.0		ug/L
1,3-Dichloropropane	<2.0	2.0		ug/L
Chlorodibromomethane	<1.0	1.0		ug/L
1,2-Dibromoethane	<1.0	1.0		ug/L
Chlorobenzene	<1.0	1.0		ug/L
1,1,1,2-Tetrachloroethane	<2.0	2.0		ug/L
Ethylbenzene	<1.0	1.0		ug/L
Xylene, total	<3.0	3.0		ug/L
Styrene	<1.0	1.0		ug/L
Isopropylbenzene	<1.0	1.0		ug/L
Bromoform	<2.0	2.0		ug/L
1,1,2,2-Tetrachloroethane	<1.0	1.0		ug/L
1,2,3-Trichloropropane	<1.0	1,.0		ug/L
n-Propylbenzene	<1.0	1.0		ug/L
· · · · · · · · · · · · · · · · · · ·				٠,



PROJECT NAME: TECUMSEH PROJECT NUMBER: 03084.05 LAB SAMPLE NUMBER: 6144-006

STATION ID: MW-8D

WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/19/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
popu mitti salti anna dalei anna anna		*==		=====
Bromobenzene	<1.0	1.0		ug/L
1,3,5-Trimethylbenzene	<1.0	1.0		ug/L
2-Chlorotoluene	<1.0	1.0		ug/L
4-Chlorotoluene	<1.0	1.0		ug/L
tert-Butylbenzene	<2.0	2.0		ug/L
1,2,4-Trimethylbenzene	<1.0	1.0		ug/L
sec-Butylbenzene	<1.0	1.0		ug/L
p-Isopropyltoluene	<1.0	1.0		ug/L
1,3-Dichlorobenzene	<1.0	1.0		ug/L
1,4-Dichlorobenzene	<1.0	1.0		ug/L
n-Butylbenzene	<1.0	1.0		ug/L
1,2-Dichlorobenzene	<1.0	1.0		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L
1,2,4-Trichlorobenzene	<1.0	1.0		ug/L
Hexachlorobutadiene	<1.0	1.0		ug/L
Naphthalene	<5.0	5.0		ug/L
1,2,3-Trichlorobenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-007

REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

STATION ID: MW-13BR-1 WI DNR LAB ID: 113138520 METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<20	20		ug/L
Chloromethane	<10	10		ug/L
Vinyl chloride	<10	10		ug/L
Bromomethane	<50	50		ug/L
Chloroethane	<10	10		ug/L
Fluorotrichloromethane	<10	10		ug/L
1,1-Dichloroethene	70	10		ug/L
Methylene chloride	<10	10		ug/L
trans-1,2-Dichloroethene	<10	10		ug/L
1,1-Dichloroethane	190	10		ug/L
2,2-Dichloropropane	<20	20		ug/L
cis-1,2-Dichloroethene	22	10		ug/L
Chloroform	<10	10		ug/L
Bromochloromethane	<10	10		ug/L
1,1,1-Trichloroethane	530	10		ug/L
1,1-Dichloropropene	<10	10		ug/L
Carbon tetrachloride	<10	10		ug/L
1,2-Dichloroethane	<10	10		ug/L
Benzene	<10	10		ug/L
Trichloroethene	270	10		ug/L
1,2-Dichloropropane	<10	10		ug/L
Bromodichloromethane	<10	10		ug/L
Dibromomethane	<10	10		ug/L
cis-1,3-Dichloropropene	<10	10		ug/L
Toluene	<10	10		ug/L
trans-1,3-Dichloropropene	<10	10		ug/L
1,1,2-Trichloroethane	<10	10		ug/L
Tetrachloroethene	<20	20		ug/L
1,3-Dichloropropane	<20	20		ug/L
Chlorodibromomethane	<10	10		ug/L
1,2-Dibromoethane	<10	10		ug/L
Chlorobenzene	<10	10		ug/L
1,1,1,2-Tetrachloroethane	<20	20		ug/L
Ethylbenzene	<10	10		ug/L
Xylene, total	<30	30		ug/L
Styrene	<10	10		ug/L
Isopropylbenzene	<10	10		ug/L
Bromoform	<20	20		ug/L
1,1,2,2-Tetrachloroethane	<10	10	-	ug/L
1,2,3-Trichloropropane	<10	10		ug/L
n-Propylbenzene	<10	10		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-007

STATION ID: MW-13BR-1 WI DNR LAB ID: 113138520 REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
page ratio data data takin alian alian alian		till lake age		111 111 111 111 111 111 111 111 111 11
Bromobenzene	<10	10		ug/L
1,3,5-Trimethylbenzene	<10	10		ug/L
2-Chlorotoluene	<10	10		ug/L
4-Chlorotoluene	<10	10		ug/L
tert-Butylbenzene	<20	20		ug/L
1,2,4-Trimethylbenzene	<10	10		ug/L
sec-Butylbenzene	<10	10		ug/L
p-Isopropyltoluene	<10	10		ug/L
1,3-Dichlorobenzene	<10	10		ug/L
1,4-Dichlorobenzene	<10	10		ug/L
n-Butylbenzene	<10	10		ug/L
1,2-Dichlorobenzene	<10	10		ug/L
1,2-Dibromo-3-chloropropane	<10	10		ug/L
1,2,4-Trichlorobenzene	<10	10		ug/L
Hexachlorobutadiene	<10	10		ug/L
Naphthalene	<50	50		ug/L
1,2,3-Trichlorobenzene	<10	10		ug/L



PROJECT NAME: TECUMSEH PROJECT NUMBER: 03084.05 LAB SAMPLE NUMBER: 6144-008

REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/21/94

STATION ID: MW-13BR-2 WI DNR LAB ID: 113138520 METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	 <20	20		ug/L
Chloromethane	<10	10		ug/L
Vinyl chloride	<10	10		ug/L
Bromomethane	<50	50		ug/L
Chloroethane	<10	10		ug/L
Fluorotrichloromethane	<10	10		ug/L
1,1-Dichloroethene	53	10		ug/L
Methylene chloride	<10	10		ug/L
trans-1,2-Dichloroethene	<10	10		ug/L
1,1-Dichloroethane	130	10		ug/L
2,2-Dichloropropane	<20	20		ug/L
cis-1,2-Dichloroethene	33	10		ug/L
Chloroform	<10	10		ug/L
Bromochloromethane	<10	10		ug/L
1,1,1-Trichloroethane	410	10		ug/L
1,1-Dichloropropene	<10	10		ug/L
Carbon tetrachloride	<10	10		ug/L
1,2-Dichloroethane	<10	10		ug/L
Benzene	<10	10		ug/L
Trichloroethene	350	10		ug/L
1,2-Dichloropropane	<10	10		ug/L
Bromodichloromethane	<10	10		ug/L
Dibromomethane	<10	10		ug/L
cis-1,3-Dichloropropene	<10	10		ug/L
Toluene	<10	10		ug/L
trans-1,3-Dichloropropene	<10	10		ug/L
1,1,2-Trichloroethane	<10	10		ug/L
Tetrachloroethene	<20	20		ug/L
1,3-Dichloropropane	<20	20		ug/L
Chlorodibromomethane	<10	10		ug/L
1,2-Dibromoethane	<10	10		ug/L
Chlorobenzene	<10	10		ug/L
1,1,1,2-Tetrachloroethane	<20	20		ug/L
Ethylbenzene	<10	10		ug/L
Xylene, total	<30	30		ug/L
Styrene	<10	10		ug/L
Isopropylbenzene	<10	10		ug/L
Bromoform	<20	20		ug/L
1,1,2,2-Tetrachloroethane	<10	10		ug/L
1,2,3-Trichloropropane	<10	10		ug/L
n-Propylbenzene	<10	10		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-008

STATION ID: MW-13BR-2 WI DNR LAB ID: 113138520 REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/21/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
				
Bromobenzene	<10	10		ug/L
1,3,5-Trimethylbenzene	<10	10		ug/L
2-Chlorotoluene	<10	10		ug/L
4-Chlorotoluene	<10	10		ug/L
tert-Butylbenzene	<20	20		ug/L
1,2,4-Trimethylbenzene	<10	10		ug/L
sec-Butylbenzene	<10	10		ug/L
p-Isopropyltoluene	<10	10		ug/L
1,3-Dichlorobenzene	<10	10		ug/L
1,4-Dichlorobenzene	<10	10		ug/L
n-Butylbenzene	<10	10		ug/L
1,2-Dichlorobenzene	<10	10		ug/L
1,2-Dibromo-3-chloropropane	<10	10		ug/L
1,2,4-Trichlorobenzene	<10	10		ug/L
Hexachlorobutadiene	<10	10		ug/L
Naphthalene	<50	50		ug/L
1,2,3-Trichlorobenzene	<10	10		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-009

REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/19/94

STATION ID: MW-3D

METHOD: 8021

WI DNR LAB ID: 113138520

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<10	10	**** *** ***	ug/L
Chloromethane	<5.0	5.0		ug/L ug/L
Vinyl chloride	5.8	5.0		ug/L ug/L
Bromomethane	<25	25		ug/L
Chloroethane	<5.0	5.0		ug/L
Fluorotrichloromethane	<5.0	5.0		ug/L
1,1-Dichloroethene	12	5.0		ug/L
Methylene chloride	<5.0	5.0		ug/L
trans-1,2-Dichloroethene	<5.0	5.0		ug/L
1,1-Dichloroethane	9.8	5.0		ug/L
2,2-Dichloropropane	<10	10		ug/L
cis-1,2-Dichloroethene	<5.0	5.0		ug/L
Chloroform	<5.0	5.0		ug/L
Bromochloromethane	<5.0	5.0		ug/L
1,1,1-Trichloroethane	28	5.0		ug/L
1,1-Dichloropropene	<5.0	5.0		ug/L
Carbon tetrachloride	⁻ <5.0	5.0		ug/L
1,2-Dichloroethane	<5.0	5.0		ug/L
Benzene	<5.0	5.0		ug/L
Trichloroethene	27	5.0		ug/L
1,2-Dichloropropane	<5.0	5.0		ug/L
Bromodichloromethane	<5.0	5.0		ug/L
Dibromomethane	<5.0	5.0		ug/L
cis-1,3-Dichloropropene	<5.0	5.0		ug/L
Toluene	<5.0	5.0		ug/L
trans-1,3-Dichloropropene	<5.0	5.0		ug/L
1,1,2-Trichloroethane	<5.0	5.0		ug/L
Tetrachloroethene	<10	10		ug/L
1,3-Dichloropropane	<10	10		ug/L
Chlorodibromomethane	<5.0	5.0		ug/L
1,2-Dibromoethane	<5.0	5.0		ug/L
Chlorobenzene	<5.0	5.0		ug/L
1,1,1,2-Tetrachloroethane	<10	10		ug/L
Ethylbenzene	<5.0	5.0		ug/L
Xylene, total	<15	15		ug/L
Styrene	<5.0	5.0		ug/L
Isopropylbenzene	<5.0	5.0		ug/L
Bromoform	<10	10		ug/L
1,1,2,2-Tetrachloroethane	<5.0	5.0		ug/L
1,2,3-Trichloropropane	<5.0	5.0		ug/L
n-Propylbenzene	<5.0	5.0		ug/L



PROJECT NAME: TECUMSEH PROJECT NUMBER: 03084.05 LAB SAMPLE NUMBER: 6144-009

STATION ID: MW-3D

WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/19/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
22 AD 42 AN 10 AN 10 AN 10 AN				
Bromobenzene	<5.0	5.0		ug/L
1,3,5-Trimethylbenzene	<5.0	5.0		ug/L
2-Chlorotoluene	<5.0	5.0		ug/L
4-Chlorotoluene	<5.0	5.0		ug/L
tert-Butylbenzene	<10	10		ug/L
1,2,4-Trimethylbenzene	5.9	5.0		ug/L
sec-Butylbenzene	<5.0	5.0		ug/L
p-Isopropyltoluene	<5.0	5.0		ug/L
1,3-Dichlorobenzene	<5.0	5.0		ug/L
1,4-Dichlorobenzene	<5.0	5.0		ug/L
n-Butylbenzene	<5.0	5.0		ug/L
1,2-Dichlorobenzene	<5.0	5.0		ug/L
1,2-Dibromo-3-chloropropane	<5.0	5.0		ug/L
1,2,4-Trichlorobenzene	<5.0	5.0		ug/L
Hexachlorobutadiene	<5.0	5.0		ug/L
Naphthalene	<25	25		ug/L
1,2,3-Trichlorobenzene	<5.0	5.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-010

STATION ID: MW-13BR-3 WI DNR LAB ID: 113138520 REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
			Marie Store Store Store	
Dichlorodifluoromethane	<40	40		ug/L
Chloromethane	<20	20		ug/L
Vinyl chloride	<20	20		ug/L
Bromomethane	<100	100		ug/L
Chloroethane	<20	20		ug/L
Fluorotrichloromethane	<20	20		ug/L
1,1-Dichloroethene	78	20		ug/L
Methylene chloride	<20	20		ug/L
trans-1,2-Dichloroethene	<20	20		ug/L
1,1-Dichloroethane	210	20		ug/L
2,2-Dichloropropane	<40	40		ug/L
cis-1,2-Dichloroethene	21	20		ug/L
Chloroform	<20	20		ug/L
Bromochloromethane	<20	20		ug/L
1,1,1-Trichloroethane	620	20		ug/L
1,1-Dichloropropene	<20	20		ug/L
Carbon tetrachloride	<20	20		ug/L
1,2-Dichloroethane	<20	20		ug/L
Benzene	<20	20		ug/L
Trichloroethene	300	20		ug/L
1,2-Dichloropropane	<20	20		ug/L
Bromodichloromethane	<20	20		ug/L
Dibromomethane	<20	20		ug/L
cis-1,3-Dichloropropene	<20	20		ug/L
Toluene	<20	20		ug/L
trans-1,3-Dichloropropene	<20	20		ug/L
1,1,2-Trichloroethane	<20	20		ug/L
Tetrachloroethene	<40	40		ug/L
1,3-Dichloropropane	<40	40		ug/L
Chlorodibromomethane	<20	20		ug/L
1,2-Dibromoethane	<20	20		ug/L
Chlorobenzene	<20	20		ug/L
1,1,1,2-Tetrachloroethane	<40	40		ug/L
Ethylbenzene	<20	20		ug/L
Xylene, total	<60	60		ug/L
Styrene	<20	20		ug/L
Isopropylbenzene	<20	20		ug/L
Bromoform	<40	40		ug/L
1,1,2,2-Tetrachloroethane	<20	20		ug/L
1,2,3-Trichloropropane	<20	20		ug/L
n-Propylbenzene	<20	20		ug/L
* 3				<i>3</i> / –



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-010

STATION ID: MW-13BR-3 WI DNR LAB ID: 113138520 REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
	AND THE PROPERTY AND PROPERTY AND PROPERTY.	****	the mat time top	
Bromobenzene	<20	20		ug/L
1,3,5-Trimethylbenzene	<20	20		ug/L
2-Chlorotoluene	<20	20		ug/L
4-Chlorotoluene	<20	20		ug/L
tert-Butylbenzene	<40	40		ug/L
1,2,4-Trimethylbenzene	<20	20		ug/L
sec-Butylbenzene	<20	20		ug/L
p-Isopropyltoluene	<20	20		ug/L
1,3-Dichlorobenzene	<20	20		ug/L
1,4-Dichlorobenzene	<20	20		ug/L
n-Butylbenzene	<20	20		ug/L
1,2-Dichlorobenzene	<20	20		ug/L
1,2-Dibromo-3-chloropropane	<20	20		ug/L
1,2,4-Trichlorobenzene	<20	20		ug/L
Hexachlorobutadiene	<20	20		ug/L
Naphthalene	<100	100		ug/L
1,2,3-Trichlorobenzene	<20	20		ug/L

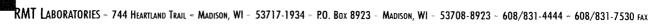


PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-011

STATION ID: MW-14BR WI DNR LAB ID: 113138520 REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<2.0	2.0		ug/L
Chloromethane	<1.0	1.0		ug/L
Vinyl chloride	<1.0	1.0		ug/L
Bromomethane	<5.0	5.0		ug/L
Chloroethane	<1.0	1.0		ug/L
Fluorotrichloromethane	<1.0	1.0		ug/L
1,1-Dichloroethene	<1.0	1.0		ug/L
Methylene chloride	<1.0	1.0		ug/L
trans-1,2-Dichloroethene	<1.0	1.0		ug/L
1,1-Dichloroethane	<1.0	1.0		ug/L
2,2-Dichloropropane	<2.0	2.0		ug/L
cis-1,2-Dichloroethene	<1.0	1.0		ug/L
Chloroform	<1.0	1.0		ug/L
Bromochloromethane	<1.0	1.0		ug/L
1,1,1-Trichloroethane	<1.0	1.0		ug/L
1,1-Dichloropropene	<1.0	1.0		ug/L
Carbon tetrachloride	<1.0	1.0		ug/L
1,2-Dichloroethane	<1.0	1.0		ug/L
Benzene	<1.0	1.0		ug/L
Trichloroethene	<1.0	1.0		ug/L
1,2-Dichloropropane	<1.0	1.0		ug/L
Bromodichloromethane	<1.0	1.0		ug/L
Dibromomethane	<1.0	1.0		ug/L
cis-1,3-Dichloropropene	<1.0	1.0		ug/L
Toluene	<1.0	1.0		ug/L
trans-1,3-Dichloropropene	<1.0	1.0		ug/L
1,1,2-Trichloroethane	<1.0	1.0		ug/L
Tetrachloroethene	<2.0	2.0		ug/L
1,3-Dichloropropane	<2.0	2.0		ug/L
Chlorodibromomethane	<1.0	1.0		ug/L
1,2-Dibromoethane	<1.0	1.0		ug/L
Chlorobenzene	<1.0	1.0		ug/L
1,1,1,2-Tetrachloroethane	<2.0	2.0		ug/L
Ethylbenzene	<1.0	1.0		ug/L
Xylene, total	<3.0	3.0		ug/L
Styrene	<1.0	1.0		ug/L
Isopropylbenzene	<1.0	1.0		ug/L
Bromoform	<2.0	2.0		ug/L
1,1,2,2-Tetrachloroethane	<1.0	1.0		ug/L
1,2,3-Trichloropropane	<1.0	1.0		ug/L
n-Propylbenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH PROJECT NUMBER: 03084.05 LAB SAMPLE NUMBER: 6144-011

COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94 METHOD: 8021

REPORT DATE: 12/27/94

STATION ID: MW-14BR WI DNR LAB ID: 113138520

COMPOUND	RESULT	EQL	CODE	UNITS
		Name along stalls.		
Bromobenzene	<1.0	1.0		ug/L
1,3,5-Trimethylbenzene	<1.0	1.0		ug/L
2-Chlorotoluene	<1.0	1.0	>	ug/L
4-Chlorotoluene	<1.0	1.0		ug/L
tert-Butylbenzene	<2.0	2.0		ug/L
1,2,4-Trimethylbenzene	<1.0	1.0		ug/L
sec-Butylbenzene	<1.0	1.0		ug/L
p-Isopropyltoluene	<1.0	1.0		ug/L
1,3-Dichlorobenzene	<1.0	1.0		ug/L
1,4-Dichlorobenzene	<1.0	1.0		ug/L
n-Butylbenzene	<1.0	1.0		ug/L
1,2-Dichlorobenzene	<1.0	1.0		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L
1,2,4-Trichlorobenzene	<1.0	1.0		ug/L
Hexachlorobutadiene	<1.0	1.0		ug/L
Naphthalene	<5.0	5.0		ug/L
1,2,3-Trichlorobenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH PROJECT NUMBER: 03084.05 LAB SAMPLE NUMBER: 6144-012

STATION ID: MW-11

WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	 <40	40	300 301 301 301	===== ug/L
Chloromethane	<20	20		ug/L ug/L
Vinyl chloride	<20	20		
Bromomethane	<100	100		ug/L
Chloroethane	<20	20		ug/L
Fluorotrichloromethane	<20	20		ug/L
1,1-Dichloroethene	<20	20		ug/L ug/L
Methylene chloride	<20	20		ug/L ug/L
trans-1,2-Dichloroethene	<20	20		ug/L
1,1-Dichloroethane	<20	20		ug/L ug/L
2,2-Dichloropropane	<40	40	•	ug/L ug/L
cis-1,2-Dichloroethene	<20	20		ug/L
Chloroform	<20	20		ug/L ug/L
Bromochloromethane	<20	20		ug/L ug/L
1,1,1-Trichloroethane	<20	20		ug/L
1,1-Dichloropropene	<20	20		ug/L ug/L
Carbon tetrachloride	<20	20		
1,2-Dichloroethane	<20	20		ug/L ug/L
Benzene	<20	20		
Trichloroethene	710	20		ug/L
1,2-Dichloropropane	<20	20		ug/L
Bromodichloromethane	<20	20		ug/L
Dibromomethane	<20	20		ug/L ug/L
cis-1,3-Dichloropropene	<20	20		-
Toluene	<20	20		ug/L ug/L
trans-1,3-Dichloropropene	<20	20		
1,1,2-Trichloroethane	<20	20		ug/L
Tetrachloroethene	<40	40		ug/L
1,3-Dichloropropane	<40	40		ug/L
Chlorodibromomethane	<20	20		ug/L
1,2-Dibromoethane	<20	20		ug/L
Chlorobenzene	<20	20		ug/L
1,1,1,2-Tetrachloroethane	<40	40		ug/L
Ethylbenzene	<20	20		ug/L
Xylene, total	<60	60		ug/L
Styrene	<20	20		ug/L
Isopropylbenzene	<20	20		ug/L
Bromoform	<40	40		ug/L
1,1,2,2-Tetrachloroethane	<20	20		ug/L
				ug/L
1,2,3-Trichloropropane	<20	20		ug/L
n-Propylbenzene	<20	20		ug/L



PROJECT NAME: TECUMSEH PROJECT NUMBER: 03084.05 LAB SAMPLE NUMBER: 6144-012

STATION ID: MW-11

WI DNR LAB ID: 113138520

REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
200 100 100 100 100 100 100 100		NAME AND ADDRESS ADDRESS		2000 Ben 1000 Bill 1800
Bromobenzene	<20	20		ug/L
1,3,5-Trimethylbenzene	<20	20		ug/L
2-Chlorotoluene	<20	20		ug/L
4-Chlorotoluene	<20	20		ug/L
tert-Butylbenzene	<40	40		ug/L
1,2,4-Trimethylbenzene	<20	20		ug/L
sec-Butylbenzene	<20	20		ug/L
p-Isopropyltoluene	<20	20		ug/L
1,3-Dichlorobenzene	<20	20		ug/L
1,4-Dichlorobenzene	<20	20		ug/L
n-Butylbenzene	<20	20		ug/L
1,2-Dichlorobenzene	<20	20		ug/L
1,2-Dibromo-3-chloropropane	<20	20		ug/L
1,2,4-Trichlorobenzene	<20	20		ug/L
Hexachlorobutadiene	<20	20		ug/L
Naphthalene	<100	100		ug/L
1,2,3-Trichlorobenzene	<20	20		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-013

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94

STATION ID: MW-15BR-1 WI DNR LAB ID: 113138520 METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<2.0	2.0		ug/L
Chloromethane	<1.0	1.0		ug/L
Vinyl chloride	<1.0	1.0		ug/L
Bromomethane	<5.0	5.0		ug/L
Chloroethane	<1.0	1.0		ug/L
Fluorotrichloromethane	<1.0	1.0		ug/L
1,1-Dichloroethene	<1.0	1.0		ug/L
Methylene chloride	<1.0	1.0		ug/L
trans-1,2-Dichloroethene	<1.0	1.0		ug/L
1,1-Dichloroethane	<1.0	1.0		ug/L
2,2-Dichloropropane	<2.0	2.0		ug/L
cis-1,2-Dichloroethene	<1.0	1.0		ug/L
Chloroform	<1.0	1.0		ug/L
Bromochloromethane	<1.0	1.0		ug/L
1,1,1-Trichloroethane	<1.0	1.0		ug/L
1,1-Dichloropropene	<1.0	1.0		ug/L
Carbon tetrachloride	<1.0	1.0		ug/L
1,2-Dichloroethane	<1.0	1.0		ug/L
Benzene	<1.0	1.0		ug/L
Trichloroethene	<1.0	1.0		ug/L
1,2-Dichloropropane	<1.0	1.0		ug/L
Bromodichloromethane	<1.0	1.0		ug/L
Dibromomethane	<1.0	1.0		ug/L
cis-1,3-Dichloropropene	<1.0	1.0		ug/L
Toluene	2.5	1.0		ug/L
trans-1,3-Dichloropropene	<1.0	1.0		ug/L
1,1,2-Trichloroethane	<1.0	1.0		ug/L
Tetrachloroethene	<2.0	2.0		ug/L
1,3-Dichloropropane	<2.0	2.0		ug/L
Chlorodibromomethane	<1.0	1.0		ug/L
1,2-Dibromoethane	<1.0	1.0		ug/L
Chlorobenzene	<1.0	1.0		ug/L
1,1,1,2-Tetrachloroethane	<2.0	2.0		ug/L
Ethylbenzene	<1.0	1.0		ug/L
Xylene, total	<3.0	3.0		ug/L
Styrene	<1.0	1.0		ug/L
Isopropylbenzene	<1.0	1.0		ug/L
Bromoform	<2.0	2.0		ug/L
1,1,2,2-Tetrachloroethane	<1.0	1.0		ug/L
1,2,3-Trichloropropane	<1.0	1.0		ug/L
n-Propylbenzene	<1.0	1.0		ug/L



REPORT DATE: 12/27/94

COLLECTION DATE: 12/14/94

PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-013

44-013 ANALYSIS DATE: 12/20/94 METHOD: 8021

STATION ID: MW-15BR-1 WI DNR LAB ID: 113138520

COMPOUND	RESULT	EQL	CODE	UNITS
tribit alter alter avent man more static inne-	SERVICE SOURCE SOURCE SOURCE COMMAN			
Bromobenzene	<1.0	1.0		ug/L
1,3,5-Trimethylbenzene	<1.0	1.0		ug/L
2-Chlorotoluene	<1.0	1.0		ug/L
4-Chlorotoluene	<1.0	1.0		ug/L
tert-Butylbenzene	<2.0	2.0		ug/L
1,2,4-Trimethylbenzene	<1.0	1.0		ug/L
sec-Butylbenzene	<1.0	1.0		ug/L
p-Isopropyltoluene	<1.0	1.0		ug/L
1,3-Dichlorobenzene	<1.0	1.0		ug/L
1,4-Dichlorobenzene	<1.0	1.0		ug/L
n-Butylbenzene	<1.0	1.0		ug/L
1,2-Dichlorobenzene	<1.0	1.0		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L
1,2,4-Trichlorobenzene	<1.0	1.0		ug/L
Hexachlorobutadiene	<1.0	1.0		ug/L
Naphthalene	<5.0	5.0		ug/L
1,2,3-Trichlorobenzene	<1.0	1.0		ug/L

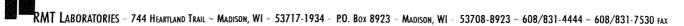


PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-014

STATION ID: MW-15BR-2 WI DNR LAB ID: 113138520 REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<2.0	2.0		ug/L
Chloromethane	<1.0	1.0		ug/L
Vinyl chloride	<1.0	1.0		ug/L
Bromomethane	<5.0	5.0		ug/L
Chloroethane	<1.0	1.0		ug/L
Fluorotrichloromethane	<1.0	1.0		ug/L
1,1-Dichloroethene	<1.0	1.0		ug/L
Methylene chloride	<1.0	1.0		ug/L
trans-1,2-Dichloroethene	<1.0	1.0		ug/L
1,1-Dichloroethane	<1.0	1.0		ug/L
2,2-Dichloropropane	<2.0	2.0		ug/L
cis-1,2-Dichloroethene	<1.0	1.0		ug/L
Chloroform	<1.0	1.0		ug/L
Bromochloromethane	<1.0	1.0		ug/L
1,1,1-Trichloroethane	<1.0	1.0		ug/L
1,1-Dichloropropene	<1.0	1.0		ug/L
Carbon tetrachloride	<1.0	1.0		ug/L
1,2-Dichloroethane	<1.0	1.0		ug/L
Benzene	<1.0	1.0		ug/L
Trichloroethene	<1.0	1.0		ug/L
1,2-Dichloropropane	<1.0	1.0		ug/L
Bromodichloromethane	<1.0	1.0		ug/L
Dibromomethane	<1.0	1.0		ug/L
cis-1,3-Dichloropropene	<1.0	1.0		ug/L
Toluene	1.6	1.0		ug/L
trans-1,3-Dichloropropene	<1.0	1.0		ug/L
1,1,2-Trichloroethane	<1.0	1.0		ug/L
Tetrachloroethene	<2.0	2.0		ug/L
1,3-Dichloropropane	<2.0	2.0		ug/L
Chlorodibromomethane	<1.0	1.0		ug/L
1,2-Dibromoethane	<1.0	1.0		ug/L
Chlorobenzene	<1.0	1.0		ug/L
1,1,1,2-Tetrachloroethane	<2.0	2.0		ug/L
Ethylbenzene	<1.0	1.0		ug/L
Xylene, total	<3.0	3.0		ug/L
Styrene	<1.0	1.0		ug/L
Isopropylbenzene	<1.0	1.0		ug/L
Bromoform	<2.0	2.0		ug/L
1,1,2,2-Tetrachloroethane	<1.0	1.0		ug/L
1,2,3-Trichloropropane	<1.0	1.0		ug/L
n-Propylbenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-014

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94

STATION ID: MW-15BR-2 WI DNR LAB ID: 113138520 METHOD: 8021

COMPOUND	RESULT	EQL	CODE	ÜNITS
	200 and 200 and 200 and			
Bromobenzene	<1.0	1.0		ug/L
1,3,5-Trimethylbenzene	<1.0	1.0		ug/L
2-Chlorotoluene	<1.0	1.0		ug/L
4-Chlorotoluene	<1.0	1.0		ug/L
tert-Butylbenzene	<2.0	2.0		ug/L
1,2,4-Trimethylbenzene	<1.0	1.0		ug/L
sec-Butylbenzene	<1.0	1.0		ug/L
p-Isopropyltoluene	<1.0	1.0		ug/L
1,3-Dichlorobenzene	<1.0	1.0		ug/L
1,4-Dichlorobenzene	<1.0	1.0		ug/L
n-Butylbenzene	<1.0	1.0		ug/L
1,2-Dichlorobenzene	<1.0	1.0		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L
1,2,4-Trichlorobenzene	<1.0	1.0		ug/L
Hexachlorobutadiene	<1.0	1.0		ug/L
Naphthalene	<5.0	5.0		ug/L
1,2,3-Trichlorobenzene	<1.0	1.0		ug/L

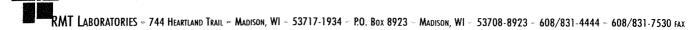


PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-015

REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

STATION ID: MW-3BR-1 WI DNR LAB ID: 113138520 METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<10	10		===== ug/L
Chloromethane	<5.0	5.0		ug/L ug/L
Vinyl chloride	<5.0	5.0		ug/L ug/L
Bromomethane	<25	25		ug/L
Chloroethane	<5.0	5.0		ug/L ug/L
Fluorotrichloromethane	<5.0	5.0		ug/L
1,1-Dichloroethene	13	5.0		ug/L
Methylene chloride	<5.0	5.0		ug/L
trans-1,2-Dichloroethene	<5.0	5.0		ug/L
1,1-Dichloroethane	65	5.0		ug/L
2,2-Dichloropropane	<10	10		ug/L
cis-1,2-Dichloroethene	45	5.0		ug/L
Chloroform	<5.0	5.0		ug/L
Bromochloromethane	<5.0	5.0		ug/L
1,1,1-Trichloroethane	120	5.0		ug/L
1,1-Dichloropropene	<5.0	5.0		ug/L
Carbon tetrachloride	<5.0	5.0		ug/L
1,2-Dichloroethane	<5.0	5.0		ug/L
Benzene	<5.0	5.0		ug/L
Trichloroethene	88	5.0		ug/L
1,2-Dichloropropane	<5.0	5.0		ug/L
Bromodichloromethane	<5.0	5.0		ug/L
Dibromomethane	<5.0	5.0		ug/L
cis-1,3-Dichloropropene	<5.0	5.0		ug/L
Toluene	<5.0	5.0		ug/L
trans-1,3-Dichloropropene	< 5.0	5.0		ug/L
1,1,2-Trichloroethane	<5.0	5.0		ug/L
Tetrachloroethene	<10	10		ug/L
1,3-Dichloropropane	<10	10		ug/L
Chlorodibromomethane	<5.0	5.0		ug/L
1,2-Dibromoethane	<5.0	5.0		ug/L
Chlorobenzene	<5.0	5.0		ug/L
1,1,1,2-Tetrachloroethane	<10	10		ug/L
Ethylbenzene	<5.0	5.0		ug/L
Xylene, total	<15	15		ug/L
Styrene	<5.0	5.0		ug/L
Isopropylbenzene	<5.0	5.0		ug/L
Bromoform	<10	10		ug/L
1,1,2,2-Tetrachloroethane	<5.0	5.0	i	ug/L
1,2,3-Trichloropropane	<5.0	5.0		ug/L
n-Propylbenzene	<5.0	5.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-015

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94

STATION ID: MW-3BR-1 WI DNR LAB ID: 113138520 METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
	-			
Bromobenzene	<5.0	5.0		ug/L
1,3,5-Trimethylbenzene	<5.0	5.0		ug/L
2-Chlorotoluene	<5.0	5.0		ug/L
4-Chlorotoluene	<5.0	5.0		ug/L
tert-Butylbenzene	<10	10		ug/L
1,2,4-Trimethylbenzene	<5.0	5.0		ug/L
sec-Butylbenzene	<5.0	5.0		ug/L
p-Isopropyltoluene	<5.0	5.0		ug/L
1,3-Dichlorobenzene	<5.0	5.0		ug/L
1,4-Dichlorobenzene	<5.0	5.0		ug/L
n-Butylbenzene	<5.0	5.0		ug/L
1,2-Dichlorobenzene	<5.0	5.0		ug/L
1,2-Dibromo-3-chloropropane	<5.0	5.0		ug/L
1,2,4-Trichlorobenzene	<5.0	5.0		ug/L
Hexachlorobutadiene	<5.0	5.0		ug/L
Naphthalene	<25	25		ug/L
1,2,3-Trichlorobenzene	<5.0	5.0		ug/L



PROJECT NAME: TECUMSEH PROJECT NUMBER: 03084.05 LAB SAMPLE NUMBER: 6144-016 REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

STATION ID: MW-3BR-2

METHOD: 8021

WI DNR LAB ID: 113138520

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<20	20		ug/L
Chloromethane	<10	10		ug/L
Vinyl chloride	<10	10		ug/L
Bromomethane	<50	50		ug/L
Chloroethane	<10	10		ug/L
Fluorotrichloromethane	<10	10		ug/L
1,1-Dichloroethene	56	10		ug/L
Methylene chloride	<10	10		ug/L
trans-1,2-Dichloroethene	<10	10		ug/L
1,1-Dichloroethane	190	10		ug/L
2,2-Dichloropropane	<20	20		ug/L
cis-1,2-Dichloroethene	20	10		ug/L
Chloroform	<10	10		ug/L
Bromochloromethane	<10	10		ug/L
1,1,1-Trichloroethane	140	10		ug/L
1,1-Dichloropropene	<10	10		ug/L
Carbon tetrachloride	<10	10		ug/L
1,2-Dichloroethane	<10	10		ug/L
Benzene	<10	10		ug/L
Trichloroethene	310	10		ug/L
1,2-Dichloropropane	<10	10		ug/L
Bromodichloromethane	<10	10		ug/L
Dibromomethane	<10	10		ug/L
cis-1,3-Dichloropropene	<10	10		ug/L
Toluene	<10	10		ug/L
trans-1,3-Dichloropropene	<10	10		ug/L
1,1,2-Trichloroethane	<10	· 10		ug/L
Tetrachloroethene	<20	20		ug/L
1,3-Dichloropropane	<20	20		ug/L
Chlorodibromomethane	<10	10		ug/L
1,2-Dibromoethane	<10	10		ug/L
Chlorobenzene	<10	10		ug/L
1,1,1,2-Tetrachloroethane	<20	20		ug/L
Ethylbenzene	<10	10		ug/L
Xylene, total	<30	30		ug/L
Styrene	<10	10		ug/L
Isopropylbenzene	<10	10		ug/L
Bromoform	<20	20		ug/L
1,1,2,2-Tetrachloroethane	<10	10		ug/L
1,2,3-Trichloropropane	<10	10		ug/L
n-Propylbenzene	<10	10		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-016

STATION ID: MW-3BR-2 WI DNR LAB ID: 113138520 REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
	Salate mines administrative terms mann			300 MM 300 MM 307
Bromobenzene	<10	10		ug/L
1,3,5-Trimethylbenzene	<10	10		ug/L
2-Chlorotoluene	<10	10		ug/L
4-Chlorotoluene	<10	10		ug/L
tert-Butylbenzene	<20	20		ug/L
1,2,4-Trimethylbenzene	<10	10		ug/L
sec-Butylbenzene	<10	10		ug/L
p-Isopropyltoluene	<10	10		ug/L
1,3-Dichlorobenzene	<10	10		ug/L
1,4-Dichlorobenzene	<10	10		ug/L
n-Butylbenzene	<10	10		ug/L
1,2-Dichlorobenzene	<10	10		ug/L
1,2-Dibromo-3-chloropropane	<10	10		ug/L
1,2,4-Trichlorobenzene	<10	10		ug/L
Hexachlorobutadiene	<10	10		ug/L
Naphthalene	<50	50		ug/L
1,2,3-Trichlorobenzene	<10	10		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-017

REPORT DATE: 12/27/94
COLLECTION DATE: 12/14/94
ANALYSIS DATE: 12/20/94

STATION ID: MW-3BR-3 WI DNR LAB ID: 113138520 METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<10	10		ug/L
Chloromethane	<5.0	5.0		ug/L
Vinyl chloride	<5.0	5.0		ug/L
Bromomethane	<25	25		ug/L
Chloroethane	<5.0	5.0		ug/L
Fluorotrichloromethane	<5.0	5.0		ug/L
1,1-Dichloroethene	8.6	5.0		ug/L
Methylene chloride	<5.0	5.0		ug/L
trans-1,2-Dichloroethene	<5.0	5.0		ug/L
1,1-Dichloroethane	39	5.0		ug/L
2,2-Dichloropropane	<10	10		ug/L
cis-1,2-Dichloroethene	25	5.0		ug/L
Chloroform	<5.0	5.0		ug/L
Bromochloromethane	<5.0	5.0		ug/L
1,1,1-Trichloroethane	28	5.0		ug/L
1,1-Dichloropropene	<5.0	5.0		ug/L
Carbon tetrachloride	<5.0	5.0		ug/L
1,2-Dichloroethane	<5.0	5.0		ug/L
Benzene	<5.0	5.0		ug/L
Trichloroethene	270	5.0		ug/L
1,2-Dichloropropane	<5.0	5.0		ug/L
Bromodichloromethane	<5.0	5.0		ug/L
Dibromomethane	<5.0	5.0		ug/L
cis-1,3-Dichloropropene	<5.0	5.0		ug/L
Toluene	<5.0	5.0		ug/L
trans-1,3-Dichloropropene	<5.0	5.0		ug/L
1,1,2-Trichloroethane	<5.0	5.0		ug/L
Tetrachloroethene	<10	10		ug/L
1,3-Dichloropropane	<10	10		ug/L
Chlorodibromomethane	<5.0	5.0		ug/L
1,2-Dibromoethane	<5.0	5.0		ug/L
Chlorobenzene	<5.0	5.0		ug/L
1,1,1,2-Tetrachloroethane	<10	10		ug/L
Ethylbenzene	<5.0	5.0		ug/L
Xylene, total	<15	15		ug/L
Styrene	<5.0	5.0		ug/L
Isopropylbenzene	<5.0	5.0		ug/L
Bromoform	<10	10		ug/L
1,1,2,2-Tetrachloroethane	<5.0	5.0		ug/L
1,2,3-Trichloropropane	<5.0	5.0		ug/L
n-Propylbenzene	<5.0	5.0		ug/L

PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.05
LAB SAMPLE NUMBER: 6144-017

STATION ID: MW-3BR-3 WI DNR LAB ID: 113138520 REPORT DATE: 12/27/94 COLLECTION DATE: 12/14/94 ANALYSIS DATE: 12/20/94

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
Milital dilatar dallatar dallatar salami salami salami salami	The state was the state	200 Spin 200		
Bromobenzene	<5.0	5.0		ug/L
1,3,5-Trimethylbenzene	<5.0	5.0		ug/L
2-Chlorotoluene	<5.0	5.0		ug/L
4-Chlorotoluene	<5.0	5.0		ug/L
tert-Butylbenzene	<10	10		ug/L
1,2,4-Trimethylbenzene	<5.0	5.0		ug/L
sec-Butylbenzene	<5.0	5.0		ug/L
p-Isopropyltoluene	< 5.0	5.0		ug/L
1,3-Dichlorobenzene	<5.0	5.0		ug/L
1,4-Dichlorobenzene	<5.0	5.0		ug/L
n-Butylbenzene	<5.0	5.0		ug/L
1,2-Dichlorobenzene	<5.0	5.0		ug/L
1,2-Dibromo-3-chloropropane	<5.0	5.0		ug/L
1,2,4-Trichlorobenzene	<5.0	5.0		ug/L
Hexachlorobutadiene	<5.0	5.0		ug/L
Naphthalene	<25	25		ug/L
1,2,3-Trichlorobenzene	<5.0	5.0		ug/L

		iNc.	نيها لي	Madison	. U WI 53717	7	Fox Valley, WI	N:	ashville,	TN	1	Aug	usta, GA	1	Chi	icago,TL	L_	Cincinnati, Ol	л ¹
					rtland Trail 808) 831-4		Columbus, OH Milwaukee, WI	G	reenville	, SC		Lan	sing, MI		Los	s Angeles, C	A	Madison, WI	
	LABORAT	ORIES	:		3) 831-753		Will Wadnee, VVI										10	053854	
	F-268 (R2/92 (Use Black Ink		Cł	HAIN (OF CL	JSTOD'	Y RECORD											red (Yes/No)	
•	Boules Prepar					Date/Time			1			Æ	-/F/	/-/-	//			red (Tes/No) red (Code)	
	ting		·			12-8-5	14 4:004			Contained his	ontory			//	//		/ c	ode: A - None	
	Project No.O	- 1-	Client:	-						el l		/ _		//	///	/ /	, -	B - HNO3	
i	3084	,05	-1	ecuv	nsel	\		nber		Cortain.	> \{	3.0	/ /		//.	5/		C - H₂SO4 D - NaOH	
								Total Number Of Containers			\vec{v}		//		/ _ (%		E - HCl	
	Lab No.	Yr. 94			0-			Tota Of C	/			/ /	///	//	MATRIT	_		F .	
	6144	Date	Time			mple Station	וט		/		\leftarrow	$\overline{}$		-	\	Comment	S:		
	061				p Bla				1-4			-							
	06 Z	1.		1	i BI	ank,		2	+	_2							*****		
	003	12:14	9:10		<u> </u>			3	-	3	-								
	064		9:55	Mu	7-150	<u> 3B</u>		3		3	_	-							
	005	1	10:00		1-3D			3		3		1							
	006	7	11:55	Mw	-8D			3		3									
	007	17-14	12:30		13B			3		3									
	008	12-14	17:40		-13BI	5-5		3		3									
Λ···	009	12-14	12:40	MU	1-312			3	1	3									
12/.	060	12-14	17,20	Mw	-133	12-3		3		3									
12/15/9	w 00\$\$		3:00	MW.	-14Bi	۷		3		3									
•	012	12-14	5:15	Mh	1-11			3		3									
	013		3:40	Mw-	-15BR-	-1		3		3									
	SAMPLER Relinquished t	ov (Sia.)			Date/	Гime	Received by (Sig.)	1119115 -1	TN	С	Date/Tir	me		НА	ZARDS AS	SSOCIATED	WITH:	SAMPLES	
	0 1	11	_		1		2	001111 3	L / "	1230	- 1	2130 p	m						
÷	Moad	WZe	wor)	W /2	-15-94	12:30A~	Shipper Hame & #			12-19	S								
	Relinquished t	oy (Sig.)			Date/	Time	Received by (Sig.)				Date/Tir	me							
							Shipper Name & #								•	For Lab Use	Only)		
		, (O: -)				*	Desired by (Cir.)) - (T		_	Receip	ot Temp	*		Receipt pH	
	Relinquished I	. 1			Date/		Received by (Sig.) Shipper Name & #	? Johnso	m		Date/Tir			3	$^{\circ}$ C			N/A	
Zi	Walk	-In		12-	-15-94	9130Am	Shipper Name & #			12-13.	14/9	:30g A	7						
* The same	Custody Seal		Present/	Absort			Seal	Inta	t Inta				1	Seal #'s					
	Custody Seal		rieseilv		······		Jear	IIId	, mile	WHITE -	LABOR	ATORY	COPY		REPORT	APPENDIX	birt.	K - SAMPLERISUE	STALLET



Madison, WI 53717 744 Heartland Trail Phone (608) 831-4444 Fox Valley, WI Columbus, OH Milwaukee, WI Nashville, TN Greenville, SC Augusta, GA Lansing, MI Chicago, IL Los Angeles, CA Cincinnati, OH Madison, WI

	LABORA 1 F-268 (R2/92			FAX (608) 83						,					*			Νō	0538	395
	(Use Black Ink	Only)	CI	HAIN OF	CUSTOD, Date/Time	Y RECORD		-				A	/-	/	//	//	///	Filte	ered (Yes/N ved (Code)	lo)
	Dotties 1 repai		.,		Date/ Time						riory/						///	$\overline{}$	ode: A - N	
	Project No.		Client:	_						Set ly	"/	/ /	/ /	/ /	//	//	/ /		В - Н	NO3
	3084.	0.5		Tecons	h		Total Number Of Containers		con	ainet Inde	/\ \9		//	//	//				C - H D - N	аОН
	Lab No. 6144	Yr. <u>즉닉</u> Date	Time		Sample Station	ı ID	Total N		60%	10 2 J	<i>Y</i>				//.	MATRIT	Comme	nts:	E - H F	
0	0/4	12-14	3:50	Mw-15	3R-2		3		15	L										
ks	015			Mc0-37			3		3	ر ا										
_	0/16	12-14	8:05	1MW-3B	R-2	,,,,===================================	3	ļ	3	7/5/	Q					ļ				
	019	12-14	8:10m	MW-3B	<u>r-3</u>		3	<u> </u>	3		7									
							ļ		<u> </u>							<u> </u>				
									ļ							ļ			- / " '	
								-	 			-								
								-	-											
					····			ļ	-											·
					·			-	-							ļ				
								ļ								 				
	0.110150	<u></u>					<u> </u>	<u> </u>	<u> </u>				l							
	SAMPLER Relinquished t	y (Sig.)		1 [ate/Time	Received by (Sig.)	anlk i	~a)			ite/Tim	ne			HAZ	ARDS A	SSOCIATE	D WITH	SAMPLES	
	Lo	z W	pero	12-15	94 12:30A	② V Shipper Name & #	V41/ -1	, I V	1.	2-15	1/2	2:30 0m								
	Relinquished t	y (Sig.)			ate/Time	Received by (Sig.)				Da	ite/Tim	ne								
						Shipper Name & #											For Lab Use	e Only)		
	Dalin aviah ad h	(Cia.)			Junta (Timo	Dogging hy (Sig.)			_		ite/Tim		_		Receipt	Temp			Receipt p	Н
ر ا	Relinquished to (5)		,	12-15-0	4 9:30x	Received by (Sig.) Shipper Name & #	P. John	ر القوم.	/ // <u>-</u>			ne 130a)	71		3"				11/6	
	Custody Seal		Present//	Absent		Seal	Intac	. In	tact				L	Se	eal #'s					

PROJECT NAME: TECUMSEH PROJECT NO: 03084.07 WORK ORDER NO: 6280

REPORT DATE: 01/18/95

PAGE NO: 1

COLL. DATE SAMPLE NO. STATION ID STATION ID COLL. DATE SAMPLE NO. 6280-002 TRIP BLANK 01/09/95 6280-003 MW-11

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and RMT Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by RMT Laboratory management, as is verified by the following signature.

Lab Cert. #: WI DNR 113138520, MN DNR 055-999-107, SC DHEC 83001, TN DOH 02916



PROJECT NAME: TECUMSEH PROJECT NUMBER: 03084.07

LAB SAMPLE NUMBER: 6280-002

STATION ID: TRIP BLANK WI DNR LAB ID: 113138520

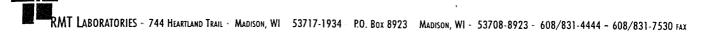
REPORT DATE: 01/18/95

COLLECTION DATE:

ANALYSIS DATE: 01/13/95

METHOD: 8021

COMPOUND	RESULT		ODE UNITS
Dichlorodifluoromethane	<2.0	2.0	ug/L
Chloromethane	<1.0	1.0	ug/L
Vinyl chloride	<1.0	1.0	ug/L
Bromomethane	<5.0	5.0	ug/L
Chloroethane	<1.0	1.0	ug/L
Fluorotrichloromethane	<1.0	1.0	ug/L
1,1-Dichloroethene	<1.0	1.0	ug/L
Methylene chloride	<1.0	1.0	ug/L
trans-1,2-Dichloroethene	<1.0	1.0	ug/L
1,1-Dichloroethane	<1.0	1.0	ug/L
2,2-Dichloropropane	<2.0	2.0	ug/L
cis-1,2-Dichloroethene	<1.0	1.0	ug/L
Chloroform	<1.0	1.0	ug/L
Bromochloromethane	<1.0	1.0	ug/L
1,1,1-Trichloroethane	<1.0	1.0	ug/L
1,1-Dichloropropene	<1.0	1.0	ug/L
Carbon tetrachloride	<1.0	1.0	ug/L
1,2-Dichloroethane	<1.0	1.0	ug/L
Benzene	<1.0	1.0	ug/L
Trichloroethene	<1.0	1.0	ug/L
1,2-Dichloropropane	<1.0	1.0	ug/L
Bromodichloromethane	<1.0	1.0	ug/L
Dibromomethane	<1.0	1.0	ug/L
cis-1,3-Dichloropropene	<1.0	1.0	ug/L
Toluene	<1.0	1.0	ug/L
trans-1,3-Dichloropropene	<1.0	1.0	ug/L
1,1,2-Trichloroethane	<1.0	1.0	ug/L
Tetrachloroethene	<2.0	2.0	ug/L
1,3-Dichloropropane	<2.0	2.0	ug/L
Chlorodibromomethane	<1.0	1.0	ug/L
1,2-Dibromoethane	<1.0	1.0	ug/L
Chlorobenzene	<1.0	1.0	ug/L
1,1,1,2-Tetrachloroethane	<2.0	2.0	ug/L
Ethylbenzene	<1.0	1.0	ug/L
Xylene, total	<3.0	3.0	ug/L 🐞
Styrene	<1.0	1.0	ug/L
Isopropylbenzene	<1.0	1.0	ug/L
Bromoform	<2.0	2.0	ug/L
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L
1,2,3-Trichloropropane	<1.0	1.0	ug/L
n-Propylbenzene	<1.0	1.0	ug/L



PROJECT NAME: TECUMSEH

PROJECT NUMBER: 03084.07 LAB SAMPLE NUMBER: 6280-002

STATION ID: TRIP BLANK WI DNR LAB ID: 113138520

REPORT DATE: 01/18/95

COLLECTION DATE:

ANALYSIS DATE: 01/13/95

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
			====	
Bromobenzene	<1.0	1.0		ug/L
1,3,5-Trimethylbenzene	<1.0	1.0		ug/L
2-Chlorotoluene	<1.0	1.0		ug/L
4-Chlorotoluene	<1.0	1.0		ug/L
tert-Butylbenzene	<2.0	2.0		ug/L
1,2,4-Trimethylbenzene	<1.0	1.0		ug/L
sec-Butylbenzene	<1.0	1.0		ug/L
p-Isopropyltoluene	<1.0	1.0		ug/L
1,3-Dichlorobenzene	<1.0	1.0		ug/L
1,4-Dichlorobenzene	<1.0	1.0		ug/L
n-Butylbenzene	<1.0	1.0		ug/L
1,2-Dichlorobenzene	<1.0	1.0		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L
1,2,4-Trichlorobenzene	<1.0	1.0		ug/L
Hexachlorobutadiene	<1.0	1.0		ug/L
Naphthalene	<5.0	5.0		ug/L
1,2,3-Trichlorobenzene	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH
PROJECT NUMBER: 03084.07
LAB SAMPLE NUMBER: 6280-003

LAB SAMPLE NUMBER: 6280-0 STATION ID: MW-11

WI DNR LAB ID: 113138520

REPORT DATE: 01/18/95 COLLECTION DATE: 01/09/95 ANALYSIS DATE: 01/13/95

METHOD: 8021

COMPOUND	RESULT	EQL	CODE	UNITS
Dichlorodifluoromethane	<40	40		ug/L
Chloromethane	<20	20		ug/L
Vinyl chloride	<20	20		ug/L
Bromomethane	<100	100		ug/L
Chloroethane	<20	20		ug/L
Fluorotrichloromethane	<20	20		ug/L
1,1-Dichloroethene	<20	20		ug/L
Methylene chloride	<20	20		ug/L
trans-1,2-Dichloroethene	<20	20		ug/L
1,1-Dichloroethane	<20	20		ug/L
2,2-Dichloropropane	<40	40		ug/L
cis-1,2-Dichloroethene	<20	20		ug/L
Chloroform	<20	20		ug/L
Bromochloromethane	<20	20		ug/L
1,1,1-Trichloroethane	<20	20		ug/L
1,1-Dichloropropene	<20	20		ug/L
Carbon tetrachloride	<20	20		ug/L
1,2-Dichloroethane	<20	20		ug/L
Benzene	<20	20		ug/L
Trichloroethene	600	20		ug/L
1,2-Dichloropropane	<20	20		ug/L
Bromodichloromethane	<20	20		ug/L
Dibromomethane	<20	20		ug/L
cis-1,3-Dichloropropene	<20	20		ug/L
Toluene	<20	20		ug/L
trans-1,3-Dichloropropene	<20	20		ug/L
1,1,2-Trichloroethane	<20	20		ug/L
Tetrachloroethene	<40	40		ug/L
1,3-Dichloropropane	<40	40		ug/L
Chlorodibromomethane	<20	20		ug/L
1,2-Dibromoethane	<20	20		ug/L
Chlorobenzene	<20	20		ug/L
1,1,1,2-Tetrachloroethane	<40	40		ug/L
Ethylbenzene	<20	20		ug/L
Xylene, total	<60	60		ug/L
Styrene	<20	20		ug/L
Isopropylbenzene	<20	20		ug/L
Bromoform	<40	40		ug/L
1,1,2,2-Tetrachloroethane	<20	20		ug/L
1,2,3-Trichloropropane	<20	20		ug/L
n-Propylbenzene	<20	. 20		ug/L

PROJECT NAME: TECUMSEH PROJECT NUMBER: 03084.07 LAB SAMPLE NUMBER: 6280-003 REPORT DATE: 01/18/95 COLLECTION DATE: 01/09/95 ANALYSIS DATE: 01/13/95

STATION ID: MW-11

METHOD: 8021

WI DNR LAB ID: 113138520

COMPOUND	RESULT	EQL	CODE	UNITS
Note that were seen about 1000 1000 to the	THE RISE SECTION SECTION			
Bromobenzene	<20	20		ug/L
1,3,5-Trimethylbenzene	<20	20		ug/L
2-Chlorotoluene	<20	20		ug/L
4-Chlorotoluene	<20	20		ug/L
tert-Butylbenzene	<40	40		ug/L
1,2,4-Trimethylbenzene	<20	20		ug/L
sec-Butylbenzene	<20	20		ug/L
p-Isopropyltoluene	<20	20		ug/L
1,3-Dichlorobenzene	<20	20		ug/L
1,4-Dichlorobenzene	<20	20		ug/L
n-Butylbenzene	<20	20		ug/L
1,2-Dichlorobenzene	<20	20		ug/L
1,2-Dibromo-3-chloropropane	<20	20		ug/L
1,2,4-Trichlorobenzene	<20	20		ug/L
Hexachlorobutadiene	<20	20		ug/L
Naphthalene	<100	100		ug/L
1,2,3-Trichlorobenzene	<20	20		ug/L

RMT REPORT
TECUMSEH PRODUCTS COMPANY

FINAL

APPENDIX D

RESULTS OF LABORATORY ANALYSIS OF GROUNDWATER - RESIDENTIAL WELLS



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NO: 03084.09 WORK ORDER NO: 6042

WI DNR LAB ID: 113138520

REPORT DATE: 12/05/94

PAGE NO: 1

SAMPLE NO.	STATION ID	COLL. DATE	SAMPLE NO.	STATION ID	COLL. DATE
6042-002	TRIP BLANK	12/01/94			
6042-003	PW-36	12/01/94			
6042-004	PW-5	12/01/94			
6042-005	PW-38	12/01/94			
6042-006	PW-101	12/01/94			
6042-007	PW-102	12/01/94			
6042-008	PW-30	12/01/94			

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and RMT Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by RMT Laboratory management, as is verified by the following signature.

Approval Signature

Date

1/18



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NUMBER: 03084.09 LAB SAMPLE NUMBER: 6042-002

STATION ID: TRIP BLANK WI DNR LAB ID: 113138520

REPORT DATE: 12/05/94 COLLECTION DATE: 12/01/94 ANALYSIS DATE: 12/02/94

METHOD: 524.2

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<0.5	0.5		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	0.3	0.5	Q	ug/L
Acetone	7.2	5.0	•	ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	· <5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NUMBER: 03084.09
LAB SAMPLE NUMBER: 6042-003
STATION ID: PW-36 (1385GBR)

WI DNR LAB ID: 113138520

REPORT DATE: 12/06/94 COLLECTION DATE: 12/01/94 ANALYSIS DATE: 12/02/94

METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
	**************************************		*************************************	
Chloromethane	<0.5 <0.5	0.5		ug/L
Bromomethane	<0.5	0.5 0.5		ug/L
Vinyl chloride	<0.5			ug/L
Chloroethane	0.1	0.5 0.5	0	ug/L
Methylene chloride	<5.0	5.0	Q	ug/L
Acetone Carbon disulfide	<0.5	0.5		ug/L
	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene				ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	0.3	0.5	Q	ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L

Notes: 1) EQL = Estimated quantitation limit (this is the lowest concentration that can be detected and measured within specified limits of precision and accuracy).

2) "Q" indicates that the reported concentration is less than the limit of quantitation (EQL) for the analytical method. 3) Methylene chloride is a common laboratory contaminant that was also detected in the trip blank for this sample.



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NUMBER: 03084.09
LAB SAMPLE NUMBER: 6042-004
STATION ID: PW-5 (1335 GRR)

STATION ID: PW-5 (1335 GBR) WI DNR LAB ID: 113138520

REPORT DATE: 12/06/94 COLLECTION DATE: 12/01/94 ANALYSIS DATE: 12/02/94

METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<0.5	0.5		ug/L
Bromomethane	<0.5	0.5		ug/L ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	0.7	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	0.9	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	0.5	0.5	Q	ug/L
Dibromochloromethane	<0.5	0.5	-	ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH - GRAFTON PROJECT NUMBER: 03084.09

LAB SAMPLE NUMBER: 6042-005

STATION ID: PW-38 (1347, 1355 GBR)

WI DNR LAB ID: 113138520

REPORT DATE: 12/06/94 COLLECTION DATE: 12/01/94 ANALYSIS DATE: 12/02/94

METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<0.5	0.5	### **** *****	ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	0.5	0.5	Q	ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	1.8	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	1.1	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	0.4	0.5	Q	ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NUMBER: 03084.09

LAB SAMPLE NUMBER: 6042-006

STATION ID: PH 101 (13862 CR)

STATION ID: PW-101 (1386a GBR)

WI DNR LAB ID: 113138520

REPORT DATE: 12/06/94 COLLECTION DATE: 12/01/94 ANALYSIS DATE: 12/02/94

METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<0.5	0.5	to an anche	ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	0.1	0.5	Q	ug/L
1,2-Dichloroethane	<0.5	0.5	٩	ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L ug/L
Bromoform	<0.5	0.5		
4-Methyl-2-pentanone	<5.0	5.0		ug/L ug/L
2-Hexanone	<5.0	5.0		
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
	<0.5	0.5		ug/L
1,2-Dibromoethane				ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NUMBER: 03084.09
LAB SAMPLE NUMBER: 6042-007

STATION ID: PW-102 (1386b GBR)

WI DNR LAB ID: 113138520

REPORT DATE: 12/06/94
COLLECTION DATE: 12/01/94
ANALYSIS DATE: 12/02/94

METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<0.5	0.5		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	12	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methy1-2-pentanone	2.8	5.0	Q	ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L

Notes: 1) EQL = Estimated quantitation limit (this is the lowest concentration that can be detected and measured within specified limits of precision and accuracy).

2) "Q" indicates that the reported concentration is less than the limit of quantitation (EQL) for the analytical method. 3) Acetone is a common laboratory contaminant that was also detected in the trip blank for this sample.



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NUMBER: 03084.09
LAB SAMPLE NUMBER: 6042-008

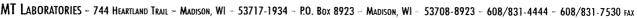
STATION ID: PW-30(1319 GBR) WI DNR LAB ID: 113138520

REPORT DATE: 12/06/94 COLLECTION DATE: 12/01/94 ANALYSIS DATE: 12/02/94

METHOD: 524.2

VOLATILE ORGANICS ANALYSIS REPORT

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<0.5	0.5	100,000,000	ug/L
Bromomethane	<0.5	0.5		ug/L ug/L
Vinyl chloride	<0.5	0.5		ug/L ug/L
Chloroethane	<0.5	0.5		ug/L ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	0.2	0.5	Q	ug/L
1,1-Dichloroethane	2.8	0.5	٩	ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	2.0	0.5		ug/L
Chloroform	0.5	0.5		ug/L ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	2.3	0.5		ug/L ug/L
Carbon tetrachloride	<0.5	0.5		ug/L ug/L
Bromodichloromethane	<0.5	0.5		ug/L ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	1.4	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L ug/L
Benzene	<0.5	0.5		ug/L ug/L
trans-1,3-Dichloropropene	<0.5	0.5		
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L ug/L
2-Hexanone	<5.0	5.0		-
Tetrachloroethene	0.2	0.5	Q	ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5	Q	ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
	<0.5	0.5	•	ug/L
Ethylbenzene				ug/L
Styrene	<0.5	0.5 0.5		ug/L
Xylene, total	<0.5 <0.5	0.5		ug/L
1,3-Dichlorobenzene				ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



E PAT

PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NO: 03084.09 WORK ORDER NO: 6210

REPORT DATE: 12/28/94

PAGE NO: 1

SAMPLE NO.	STATION ID	COLL. DATE	SAMPLE NO.	STATION ID	COLL. DATE
**					
6210-002	TRIP BLANK				
6210-003	PW-5	12/19/94			
6210-004	PW-36	12/19/94			
6210-005	PW-38	12/19/94			
6210-006	PW-30	12/19/94			
6210-007	PW-101	12/19/94			
6210-008	PW-102	12/19/94			
6210-009	STORAGE BLANK				

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and RMT Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by RMT Laboratory management, as is verified by the following signature.

Approval Signature

Date

Dat

ab Cert. #: WI DNR 113138520, MN DNR 055-999-107, SC DHEC 83001, TN DOH 02916



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NUMBER: 03084.09

LAB SAMPLE NUMBER: 6210-002

STATION ID: TRIP BLANK WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94

COLLECTION DATE:

ANALYSIS DATE: 12/21/94

METHOD: 524.2

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	0.2	0.5	Q	ug/L
Acetone	5.0	5.0	B(4)	ug/L
Carbon disulfide	<0.5	0.5	_ (·)	ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5	•	ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5	•	ug/L
Toluene	0.06	0.5	Q	ug/L
Chlorobenzene	<0.5	0.5	•	ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NUMBER: 03084.09 LAB SAMPLE NUMBER: 6210-003

STATION ID: PW-5

WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94 COLLECTION DATE: 12/19/94 ANALYSIS DATE: 12/21/94

METHOD: 524.2

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	0.4	0.5	Q	ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	0.6	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	0.3	0.5	Q	ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methy1-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NUMBER: 03084.09 LAB SAMPLE NUMBER: 6210-004

STATION ID: PW-36

WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94 COLLECTION DATE: 12/19/94 ANALYSIS DATE: 12/21/94

METHOD: 524.2

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	0.1	0.5	Q	ug/L
trans-1,2-Dichloroethene	<0.5	0.5	•	ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	0.3	0.5	Q	ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NUMBER: 03084.09
LAB SAMPLE NUMBER: 6210-005

STATION ID: PW-38

WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94 COLLECTION DATE: 12/19/94 ANALYSIS DATE: 12/22/94

METHOD: 524.2

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	0.2	0.5	Q	ug/L
trans-1,2-Dichloroethene	<0.5	0.5	4	ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	1.0	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	0.7	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	0.5	0.5	Q ·	ug/L
trans-1,3-Dichloropropene	<0.5	0.5	·	ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NUMBER: 03084.09 LAB SAMPLE NUMBER: 6210-006

STATION ID: PW-30

WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94 COLLECTION DATE: 12/19/94 ANALYSIS DATE: 12/22/94

METHOD: 524.2

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		===== ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	0.2	0.5	Q	ug/L
1,1-Dichloroethane	2.3	0.5	•	ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	1.9	0.5		ug/L
Chloroform	0.4	0.5	Q	ug/L
1,2-Dichloroethane	<0.5	0.5	,	ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	2.1	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	1.4	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	0.2	0.5	Q	ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NUMBER: 03084.09
LAB SAMPLE NUMBER: 6210-007

STATION ID: PW-101

WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94 COLLECTION DATE: 12/19/94 ANALYSIS DATE: 12/22/94

METHOD: 524.2

COMPOUND	RESULT	EQL	CODE	UNITS
Annual court miles into the miles again their		**** **** ****		
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5	•	ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	0.1	0.5	Q	ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L ug/L
	<1.0	1.0		
1,2-Dibromo-3-chloropropane	<1.U	1.0		ug/L



PROJECT NAME: TECUMSEH - GRAFTON

PROJECT NUMBER: 03084.09
LAB SAMPLE NUMBER: 6210-008

STATION ID: PW-102

WI DNR LAB ID: 113138520

REPORT DATE: 12/28/94 COLLECTION DATE: 12/19/94 ANALYSIS DATE: 12/22/94

METHOD: 524.2

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	<0.5	0.5		ug/L
Acetone	<5.0	5.0		ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	0.1	0.5	Q	ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L



PROJECT NAME: TECUMSEH - GRAFTON REPORT DATE: 12/28/94

PROJECT NUMBER: 03084.09 COLLECTION DATE:

LAB SAMPLE NUMBER: 6210-009 ANALYSIS DATE: 12/22/94

STATION ID: STORAGE BLANK METHOD: 524.2 WI DNR LAB ID: 113138520

COMPOUND	RESULT	EQL	CODE	UNITS
Chloromethane	<1.0	1.0		ug/L
Bromomethane	<0.5	0.5		ug/L
Vinyl chloride	<0.5	0.5		ug/L
Chloroethane	<0.5	0.5		ug/L
Methylene chloride	0.2	0.5	Q	ug/L
Acetone	<5.0	5.0	•	ug/L
Carbon disulfide	<0.5	0.5		ug/L
1,1-Dichloroethene	<0.5	0.5		ug/L
1,1-Dichloroethane	<0.5	0.5		ug/L
trans-1,2-Dichloroethene	<0.5	0.5		ug/L
cis-1,2-Dichloroethene	<0.5	0.5		ug/L
Chloroform	<0.5	0.5		ug/L
1,2-Dichloroethane	<0.5	0.5		ug/L
2-Butanone	<5.0	5.0		ug/L
Bromochloromethane	<0.5	0.5		ug/L
1,1,1-Trichloroethane	<0.5	0.5		ug/L
Carbon tetrachloride	<0.5	0.5		ug/L
Bromodichloromethane	<0.5	0.5		ug/L
1,2-Dichloropropane	<0.5	0.5		ug/L
cis-1,3-Dichloropropene	<0.5	0.5		ug/L
Trichloroethene	<0.5	0.5		ug/L
Dibromochloromethane	<0.5	0.5		ug/L
1,1,2-Trichloroethane	<0.5	0.5		ug/L
Benzene	<0.5	0.5		ug/L
trans-1,3-Dichloropropene	<0.5	0.5		ug/L
Bromoform	<0.5	0.5		ug/L
4-Methyl-2-pentanone	<5.0	5.0		ug/L
2-Hexanone	<5.0	5.0		ug/L
Tetrachloroethene	<0.5	0.5		ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5		ug/L
1,2-Dibromoethane	<0.5	0.5		ug/L
Toluene	<0.5	0.5		ug/L
Chlorobenzene	<0.5	0.5		ug/L
Ethylbenzene	<0.5	0.5		ug/L
Styrene	<0.5	0.5		ug/L
Xylene, total	<0.5	0.5		ug/L
1,3-Dichlorobenzene	<0.5	0.5		ug/L
1,4-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dichlorobenzene	<0.5	0.5		ug/L
1,2-Dibromo-3-chloropropane	<1.0	1.0		ug/L

Organic GC/MS Data Qualifier Sheet

B(n)	Analyte is present in the method blank. If the processes that were applied to the sample were applied to the method blank, the value of the analyte in the method blank would likely be "n".
D	Analyte value from a diluted analysis.
E	Analyte concentration exceeds calibration range (see Sample Narrative).
H(n)	Analysis performed "n" days past holding time.
J	Estimated concentration of tentatively identified compounds (TICs).
·K	Concentration may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
NR	Not required.
Q	Qualitative mass spectral evidence of analyte present; concentration is less than the reporting limit.
U	Analyte undetected.
W	Sample received with headspace.

RMT REPORT
TECUMSEH PRODUCTS COMPANY

FINAL

APPENDIX E

IDENTIFICATION OF POTENTIAL SOURCE AREAS



TECUMSEH PRODUCTS COMPANY

ENGINE AND TRANSMISSION GROUP

NEW HOLSTEIN OPERATIONS
1604 MICHIGAN AVENUE
NEW HOLSTEIN, WISCONSIN 53061-1175

PHONE: 414-898-5711 FAX: 414-898-4576

January 25, 1995

ATTN: Mr. Scott J. Ferguson Wisconsin Department of Natural Resources 4041 North Richards Street P.O. Box 12436 Milwaukee, WI 53212

RE: SOIL AND GROUNDWATER HAZARDOUS WASTE DETERMINATION

Dear Mr. Ferguson,

This letter is in response to your letter of December 22, 1994 which requested that a hazardous waste determination be made for the soil and groundwater contaminated with chlorinated volatile organics at the Tecumseh facility. As a preliminary matter, Tecumseh does not consider the in-place soil and groundwater to be a solid waste. It would only arguably become a solid waste if it has to be removed and disposed offsite. Nonetheless, Tecumseh understands the importance of determining the origin of the chlorinated solvents in the soil and groundwater and has attempted to do so. However, that is not a simple task given the fact that Tecumseh has been operating at this location since approximately 1955 and a predecessor, Power Products, had operated there since approximately 1952. Based upon a review of the limited records available, discussions with employees, and soil and groundwater results, Tecumseh believes as follows:

TCE

TCE was apparently used from the 1950s to the middle to late 1960s for degreasing purposes. During this period, degreasing primarily occurred in the northwest corner of the original building in an at-grade degreaser. Degreasing was also done in the southeast area of the original building in an at-grade dip tank which as replaced by a "Manpro" degreaser in approximately 1966. Incidental product spills from the degreasers in the southeast area may have entered the subsurface through cracks in the floor or through floor drains.

During the period TCE was used, waste management activities occurred primarily on a concrete dock area in the northwest corner of the original building (see Figure 1; hereafter west dock area). TCE awaiting disposal off-site was accumulated in

55-gallon drums at the west dock area. Some machine cleaning using chlorinated solvents was also apparently done at the west dock area. It is believed that the west dock area may be the origin of the TCE in the groundwater on the downgradient (east) side of the plant.

TCA

TCA replaced TCE as the primary degreaser sometime in the middle to late sixties. (Available historical usage rates are attached as Exhibit 1) At about that time, waste management activity was also moved to a new dock in the southeastern area of the original building. Machine cleaning also occurred in this area as well. Waste materials were generally accumulated in large containers i.e. liquid lugger boxes (LLB) (as opposed to barrels) awaiting off-site disposal. This area was enclosed in approximately 1975 and the waste management activity was moved to the current recycling dock located directly to the south.

The current recycling dock was constructed with a sump that is flush with the surface with its opening covered by a slotted storm sewer cover. The recycling dock is covered by a canopy and the floor is constructed with six inches of reinforced concrete, pitched to the sump located near the center. The sump was designed as part of the recycling dock for two main reasons:

- 1. Collection of excess nonhazardous machining coolant from the cast iron, and aluminum boring/chip trailers. Nonhazardous machining coolant (97% water, 3% soluble oil) is released from the borings/chips as the trailers are filled over a 3-4 day period. The machining coolant drains to the sump where it is then pumped into the transportable LLB; and
- Collection of rain and snow (storm water) that is forced into the dock area by storms/wind. Storm water drains to the sump at the center of the dock and is pumped into the LLB.

Prior to 1981, the LLB would have also contained other liquid and oil wastes such as: kerosene, waste oils, waste TCA and TCA still bottoms, machining coolants, stoddard solvent, mineral spirits, paint booth water, and air compressor condensate water. During this time period, the LLB had a large sealable hatch. The large hatch made the emptying of waste liquids (typically 55-gallon barrels) easy and clean. The large opening also made it very easy to determine when the LLB was nearing capacity, thus minimizing any overfilling. When the LLB would reach capacity, the hatch was sealed shut and the vendor would transport the LLB to the disposal facility.

After 1983 hazardous waste streams were kept separate and disposed of in 55-gallon drums. The LLB was used only for

nonhazardous wastes and the style had changed to a manhole size hatch. Waste liquids were no longer dumped into the LLB but pumped instead. This style of manhole hatch and transfer of nonhazardous liquids is similar to today's operation.

While incidental spills of product and waste may have occurred during the late 1960s and 1970s in this area, as noted in the September 12, 1994 letter, Tecumseh is unaware of any discharges of waste chlorinated solvents accumulated in this area since at least 1980.

Additionally, in 1979, a new at-grade degreaser was installed in the southeast corner of the 1968 addition (see Figure 1). The TCA for the degreaser was supplied from a 4,000 gallon aboveground tank. The tank was filled using approximately 120 feet of 2-inches steel pipe that ran from the top of the tank across the ceiling, down the east plant wall to a valve and quick connect coupling outside the building wall. Deliveries of TCA by tank truck occurred at this point. It is believed that spills of TCA product occurred during the filling process and that these spills are the origins of much of the TCA in the groundwater on the downgradient edge of the facility.

SUMMARY

Tecumseh does not believe that intentional disposal of waste TCA or TCE systematically occurred on site. Rather it appears that:
(1) the origin of most of the TCE can be related to activities (machine cleaning, waste accumulation) on the west dock and product spillage from the southeast degreasers; (2) the origin of most of the TCA can be related to filling operations for the engine degreaser in the southeast corner of the 1968 addition; and (3) waste management activities and machine cleaning in the area of the waste management dock and recycling dock prior to 1980 may have resulted in incidental spills for TCE and TCA.

If I can be of any further assistance, please give me a call.

Sincerely,

TECUMSEH PRODUCTS. COMPANY

Kerry DeKeyser, CHMM

Group Environmental Manager

EXHIBIT 1

HISTORICAL CHEMICAL USAGE REPORT ANNUAL USUAGE OF TRICHLOROETHANE (TCA)

YEAR	TCA GALLONS PURCHASED
Pre 1976	Not Available
1977	16,469
1978	Not Available
1979	22,244
1980	9,943
1981	7,064
1982	5,500
1983	7,166
1984	9,000
1985	8,133
1986	Not Available
1987	9,642
1988	8,669
1989	13,424
1990	10,834
1991	3,438
1992	528
1993	55
1994	0

