



**GROUNDWATER EXTRACTION  
AND TREATMENT SYSTEM  
ANNUAL OPERATIONS REPORT FOR THE  
PERIOD JULY 1, 1999, THROUGH DECEMBER 31, 2000**

**SAIC Project 01-1633-00-0822-100**

**Prepared for**

**Harley-Davidson Motor Company  
York, PA**

**September 2001**

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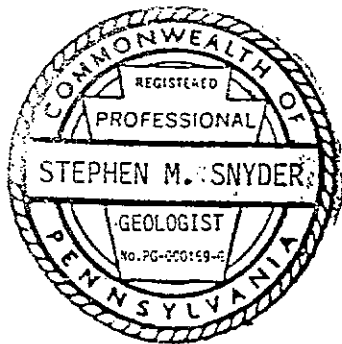
Prepared for

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## TABLE OF CONTENTS

|   | <u>Page</u>    |
|---|----------------|
| <b>LIST OF ACRONYMS</b> .....                                   | Preceding Text |
| <b>EXECUTIVE SUMMARY</b> .....                                  | Preceding Text |
| <b>1.0 INTRODUCTION</b> .....                                   | 1              |
| <b>2.0 GEOLOGY AND HYDROGEOLOGY</b> .....                       | 4              |
| <b>3.0 SITE-WIDE GROUNDWATER MONITORING</b> .....               | 5              |
| 3.1 Groundwater Flow Patterns .....                             | 6              |
| 3.2 Key Well Groundwater Sampling .....                         | 7              |
| <b>4.0 GROUNDWATER COLLECTION AND TREATMENT SYSTEM</b> .....    | 8              |
| 4.1 System Description .....                                    | 8              |
| 4.2 Groundwater Withdrawal and Chemical Removal .....           | 9              |
| <b>5.0 NPBA GROUNDWATER EXTRACTION SYSTEM</b> .....             | 12             |
| 5.1 System Operational Conditions .....                         | 12             |
| 5.2 Groundwater Chemistry .....                                 | 15             |
| <b>6.0 TCA TANK AREA GROUNDWATER EXTRACTION SYSTEM</b> .....    | 17             |
| 6.1 System Operational Conditions .....                         | 17             |
| 6.2 Groundwater Chemistry .....                                 | 21             |
| <b>7.0 WEST PARKING LOT GROUNDWATER EXTRACTION SYSTEM</b> ..... | 23             |
| 7.1 System Operational Conditions .....                         | 23             |
| 7.2 Groundwater Chemistry .....                                 | 24             |
| <b>8.0 SOUTHERN PROPERTY BOUNDARY AREA WELL MONITORING</b> ...  | 26             |
| <b>9.0 EASTERN AREA WELL MONITORING</b> .....                   | 27             |
| <b>10.0 OFF-SITE GROUNDWATER MONITORING</b> .....               | 29             |
| <b>11.0 SUMMARY</b> .....                                       | 32             |

## LIST OF FIGURES

|             |   |                |
|-------------|---|----------------|
| Figure 1-1  | Site Location Map.....  | Following Text |
| Figure 1-2  | Site Map.....   | Following Text |
| Figure 1-3  | Groundwater Treatment System.....   | Following Text |
| Figure 3-1  | Groundwater Elevation Contour Map,<br>December 22-23, 1999.....             | Following Text |
| Figure 4-1  | Record of Tower Influent Chemistry, Total<br>VOC Concentrations.....        | Following Text |
| Figure 4-2  | Record of Tower Influent Chemistry, Individual VOC<br>Concentrations.....   | Following Text |
| Figure 5-1  | Groundwater Withdrawals, Gallons Per Month For<br>Each Extraction Area..... | Following Text |
| Figure 5-2  | TCE in NPBA Key Monitoring Wells.....                                       | Following Text |
| Figure 5-3  | TCE in NPBA Collection Wells.....   | Following Text |
| Figure 5-4  | Predominant VOC Concentrations, Extraction Well CW-1.....                   | Following Text |
| Figure 5-5  | Predominant VOC Concentrations, Extraction Well CW-1A.....                  | Following Text |
| Figure 5-6  | Predominant VOC Concentrations, Extraction Well CW-2.....                   | Following Text |
| Figure 5-7  | Predominant VOC Concentrations, Extraction Well CW-3.....                   | Following Text |
| Figure 5-8  | Predominant VOC Concentrations, Extraction Well CW-4.....                   | Following Text |
| Figure 5-9  | Predominant VOC Concentrations, Extraction Well CW-5.....                   | Following Text |
| Figure 5-10 | Predominant VOC Concentrations, Extraction Well CW-6.....                   | Following Text |
| Figure 5-11 | Predominant VOC Concentrations, Extraction Well CW-7.....                   | Following Text |
| Figure 5-12 | Predominant VOC Concentrations, Extraction Well CW-7A.....                  | Following Text |
| Figure 6-1  | TCE in TCA Area Monitoring Wells.....                                       | Following Text |
| Figure 6-2  | Predominant VOC Concentrations, Extraction Well CW-8.....                   | Following Text |
| Figure 6-3  | Predominant VOC Concentrations, Extraction Well CW-16.....                  | Following Text |
| Figure 7-1  | TCE in WPL Monitoring Wells.....  | Following Text |
| Figure 7-2  | TCE in WPL Collection Wells.....  | Following Text |
| Figure 7-3  | Predominant VOC Concentrations, Extraction Well CW-9.....                   | Following Text |
| Figure 7-4  | Predominant VOC Concentrations, Extraction Well CW-13.....                  | Following Text |
| Figure 7-5  | Predominant VOC Concentrations, Extraction<br>Well CW-15A.....              | Following Text |
| Figure 7-6  | Predominant VOC Concentrations, Extraction<br>Wells CW-14 and CW-17.....    | Following Text |
| Figure 8-1  | TCE in SPBA Monitoring Wells.....   | Following Text |
| Figure 9-1  | TCE in Eastern Area Monitoring Wells.....                                   | Following Text |
| Figure 10-1 | TCE in Off-Site Wells.....  | Following Text |

## LIST OF TABLES

|           |   |                |
|-----------|---|----------------|
| Table 4-1 | VOCs Removed from Collected Groundwater .....                                       | Following Text |
| Table 5-1 | Record of Groundwater Withdrawals .....   | Following Text |
| Table 5-2 | Groundwater Extraction Well Pumping Elevations .....                                | Following Text |
| Table 5-3 | Pre- and Post-Rehabilitation Well Performance Data .....                            | Following Text |
| Table 5-4 | Comparison of Individual VOC vs Total VOC<br>Concentrations, NPBA.....              | Following Text |
| Table 6-1 | Comparison of Individual VOC vs Total VOC<br>Concentrations, TCA Tank Area .....    | Following Text |
| Table 7-1 | Comparison of Individual VOC vs Total VOC<br>Concentrations, West Parking Lot ..... | Following Text |

## LIST OF APPENDICES

|            |  |                |
|------------|--|----------------|
| Appendix A | Data Summary Tables .....                                      | Following Text |
| Table A-1  | Site-Wide Groundwater Levels and Elevation Data.....           | Following Text |
| Table A-2  | Site-wide Groundwater Quality Summary .....                    | Following Text |
| Table A-3  | Groundwater Quality Analyses, Collection<br>Well Samples ..... | Following Text |
| Table A-4  | Water Quality Analyses, Packed Tower Aerator<br>Samples .....  | Following Text |
| Table A-5  | Groundwater Quality Analyses, Off-Site Samples .....           | Following Text |

## LIST OF ACRONYMS

|                 |   |
|-----------------|---|
| ALSI            | - Analytical Laboratory Services, Inc.                |
| bgs             | - below ground surface                                |
| cfm             | - cubic feet per minute                               |
| COC             | - chain of custody                                    |
| DCE             | - 1,2-Dichloroethene                                  |
| DEP             | - Pennsylvania Department of Environmental Protection |
| EPA             | - United States Environmental Protection Agency       |
| GAC             | - granular-activated carbon                           |
| gpd             | - gallons per day                                     |
| gpm             | - gallons per minute                                  |
| Harley-Davidson | - Harley-Davidson Motor Company                       |
| IWTP            | - Industrial Wastewater Treatment Plant               |
| MCL             | - maximum contaminant level                           |
| mg/l            | - milligrams per liter                                |
| NB4             | - North Building 4                                    |
| NPBA            | - Northeast Property Boundary Area                    |
| NPDES           | - National Pollutant Discharge Elimination System     |
| PCE             | - Tetrachloroethene                                   |
| PTA             | - Packed Tower Aerator                                |
| RI/FS           | - remedial investigation/feasibility study            |
| SAIC            | - Science Applications International Corporation      |
| SPBA            | - Southeast Property Boundary Area                    |
| TCA             | - 1,1,1-Trichloroethane                               |
| TCE             | - Trichloroethene                                     |
| TFO             | - Thermal Fume Oxidizer                               |
| TVOCs           | - total volatile organic compounds                    |
| µg/l            | - micrograms per liter                                |
| VOCs            | - volatile organic compounds                          |
| WPL             | - West Parking Lot                                    |

**EXECUTIVE SUMMARY**

## EXECUTIVE SUMMARY

The groundwater extraction and treatment system located at Harley-Davidson Motor Company (Harley-Davidson) in York, Pennsylvania has been in operation for just over ten years. The system operated continuously with few interruptions during the report period of July 1, 1999, through December 31, 2000. The groundwater extraction and treatment system is designed to: 1) prevent off-site groundwater migration in the Northeast Property Boundary Area (NPBA); 2) remove contaminated groundwater in the Trichloroethane (TCA) Tank Area; 3) prevent off-site migration of groundwater in the West Parking Lot (WPL) Area; and 4) remove contaminated groundwater at the former degreaser location in the North Building 4 (NB4) Area.

On average, prior to start-up of the NB4 and WPL wells (WPL groundwater extraction system) in May 1994, the system removed approximately 131 gallons per minute (gpm) of groundwater and 1.2 pounds per day of volatile organic compounds (VOCs). Since the WPL system became operational, the average groundwater-pumping rate from 1995 through December 2000 is approximately 280 gpm with 8.2 pounds per day of total VOCs being removed. Science Applications International Corporation (SAIC) estimates that during the time period from November 1990 through December 2000, approximately 23,000 pounds of VOCs have been removed by the groundwater treatment system. The total amount of groundwater extracted during the 18-month report period was approximately 215 million gallons.

Operation of extraction wells in the NPBA resulted in overlapping cones of depression resulting in a trough in the groundwater table. The trough acts as a barrier to groundwater flow, thereby preventing off-site migration of the VOC plume. Similarly, extraction wells CW-8 and CW-16 developed a cone of depression in the TCA Tank Area. To prevent off-site migration of VOC-contaminated groundwater in the WPL



Area, four extraction wells were activated during May and June 1994. Groundwater elevations in the WPL indicate that groundwater capture is occurring as a result of the operation of the groundwater extraction system. Extraction well CW-15A, located at the northwestern corner of Building 4, has developed a cone of depression in the groundwater table and is removing contaminated groundwater from this former degreaser location.

The combined influent total VOC concentrations to the Packed Tower Aerator (PTA) averaged 1,416 micrograms per liter ( $\mu\text{g/l}$ ) during the reporting period. Trichloroethene (TCE); TCA; 1,2-dichloroethene (DCE); and tetrachloroethene (PCE) are the predominant VOCs comprising the PTA influent chemistry. The PTA effectively removed all VOCs to non-detectable concentrations during the reporting period.

During the report period, the extraction wells, off-site locations and site-wide monitoring wells were sampled for VOCs. Site-wide water levels were measured three times during the reporting period.

VOC concentrations in extraction and monitoring wells in the NPBA have remained fairly constant or have slightly increased during the report period. The VOC concentrations in the TCA Tank Area have not significantly changed during the report period. VOC concentrations have decreased or remained the same during the reporting period in WPL extraction wells, but have shown some increases in WPL monitoring wells. The historical trend of total VOC concentrations in the extraction wells have been generally decreasing with time.

Off-site sampling of local water supplies (wells and springs) is routinely conducted at four locations near the northern edge of the property. Laboratory analysis of these samples detect no chemicals common to Harley-Davidson groundwater. Samples did

detect the presence of trihalomethanes at well below regulatory levels of concern. Trihalomethanes are common in treated drinking water.

One off-site well, the Jack Giambalvo well (RW-5), is located near the southern property edge, but was replaced as a water supply well by connection to the municipal water system in 1999. RW-5 was sampled once during the report period, but is no longer routinely sampled as a water supply well.

The quarterly off-site sampling continues to verify the lack of impacts to off-site surface and groundwater supplies.

## 1.0 INTRODUCTION

## 1.0 INTRODUCTION

The purpose of this report is to summarize the operating record for the Harley-Davidson Motor Company (Harley-Davidson) groundwater extraction and treatment system, and to present groundwater quality data and groundwater level data monitored across the site. The Harley-Davidson facility is located in Springettsbury Township, York, Pennsylvania, as shown on Figure 1-1. This report covers an 18-month time period extending from July 1, 1999, through December 31, 2000. The reporting period has typically been reported for a 12-month period from July through June, but this report has been extended in an effort to provide future annual reporting consistent with the calendar year.

The groundwater extraction portion of the system consists of 15 extraction wells (CW-1, CW-1A, CW-2 through CW-7, CW-7A, CW-8, CW-9, CW-13, CW-15A, CW-16, and CW-17) operating in three separate areas designated the Northeast Property Boundary Area (NPBA), the West Parking Lot (WPL) Area (including the North Building 4 [NB4] Area), and the Trichloroethane (TCA) Tank Area as shown on Figure 1-2.

Extracted groundwater is piped to the central treatment system, located in the groundwater treatment building, for processing through a Packed Tower Aerator (PTA) system prior to discharge to an unnamed tributary of the Codorus Creek (Figure 1-1). Figure 1-3 shows a schematic diagram of the system. Prior to May 1994, PTA off-gases were treated by a granular-activated carbon (GAC) filter system for removal of volatile organic compounds (VOCs) prior to discharge to the atmosphere. Since then, the VOCs have been directed from the PTA through a thermal fume oxidizer (TFO) for destruction prior to discharge.

The groundwater extraction and PTA treatment systems were brought on-line pursuant to an order from the Pennsylvania Department of Environmental Protection (DEP), dated

September 11, 1990. In November 1990, ten extraction wells in the NPBA and TCA Tank Areas were brought on-line, while ongoing studies were performed in the WPL. The WPL Area was brought on-line in May 1994. In conjunction with WPL start-up, PTA off-gases were redirected from the GAC filter to the TFO.

On December 2, 1993, National Pollutant Discharge Elimination System (NPDES) permit No. PA0085677 was issued for the system. This report satisfies Part C, Section 1, Item E of the permit.

The data presented in this report were collected by Science Applications International Corporation (SAIC) under contract to Harley-Davidson, and are summarized in the following chapter format:

- Chapter 2.0, *Geology and Hydrogeology*, briefly summarize the hydrogeologic conditions of the site.
- Chapter 3.0, *Site-Wide Groundwater Monitoring*, summarizes groundwater levels and quality.
- Chapter 4.0, *Groundwater Collection and Treatment System*, describes the design capacity of the system and presents the record of influent and effluent water quality. The VOC loading to the PTA and TFO unit also is presented.
- Chapter 5.0, *NPBA Groundwater Extraction System*, summarizes water levels and VOC concentrations for each extraction well in the NPBA. System performance is evaluated based upon observed trends in these data.

- Chapter 6.0, *TCA Tank Area, Groundwater Extraction System*, describes operation and performance of extraction wells CW-8 and CW-16 located in this area. Water level and VOC concentration data are used to evaluate system performance.
- Chapter 7.0, *West Parking Lot, Groundwater Extraction System*, describes the operation of extraction wells in this area. System performance, water level data, and VOC trends are presented.
- Chapter 8.0, *Off-Site Water Supply*, presents the record of groundwater quality data for off-site locations. System effectiveness at preventing off-site migration is evaluated based upon these data.
- A summary for the groundwater remediation system operation and maintenance is presented in Chapter 9.0, *Summary*.

## **2.0 GEOLOGY AND HYDROGEOLOGY**

## 2.0 GEOLOGY AND HYDROGEOLOGY

Two geologic rock formations underlie the site. Solution-prone, gray limestone underlies the flat lowland (western) portion of the site, and a quartzitic sandstone underlying the more steeply sloping hills or upland area is present on the eastern part of the site. Groundwater beneath the site generally flows from the upland area at the eastern part of the site westward toward Codorus Creek. A detailed discussion of the geology and hydrogeology is included in SAIC's February 1995 report entitled, "Groundwater Extraction and Treatment System Annual Operations Report."



**3.0 SITE-WIDE GROUNDWATER MONITORING**

### 3.0 SITE-WIDE GROUNDWATER MONITORING

As part of ongoing remedial investigation/feasibility study (RI/FS) activities being conducted, a total of 37 new groundwater-monitoring wells were installed at the site during the reporting period. These new monitoring wells are identified as MW-65 through MW-92 (see Figure 3-1). The depth to water was measured in site-wide groundwater wells three times during the reporting period (October 1, 1999, December 22-23, 1999, and June 1, 2000). The depth to water was measured in approximately 145 monitoring wells, groundwater collection wells and piezometers during these events. Site-wide groundwater sampling and analysis was conducted during September 1999 and March/April 2000. The groundwater surface elevation data for these events are presented in Appendix A, Table A-1. A summary of detected VOC results from the site-wide sampling, conducted during September 1999 and March/April 2000 is presented on Table A-2, of Appendix A.

Although a select group of monitoring wells, identified as "key wells" (see Figure 3-1) are typically sampled and analyzed each year, a specific key well sampling event was not conducted this year due to the ongoing RI/FS sampling. Approximately sixty wells, including collection wells, key wells, off-site wells, and other site monitoring wells were sampled during September 1999 and March/April 2000 by another contractor to Harley-Davidson. The comprehensive results of this sampling will be provided in a separate document. Although a number of analyses were conducted for these samples, only the volatile organic compounds (VOCs) results associated with the active pumping wells, off-site wells, and other site-wide monitoring wells will be presented and discussed herein. Following completion of the RI/FS report, it will be necessary to review the key well sampling program and consider changes based on the expanded site characterization.

### 3.1 Groundwater Flow Patterns

Figure 3-1 presents the interpreted shallow groundwater table surface from water levels measured on December 22-23, 1999. The general configuration of the water table at the site indicates a gradient towards the west-southwest. The water table gradient is relatively steep beneath the eastern portion of the site, which is underlain by sandstone. The water table gradient is relatively flat beneath the western portion of the site, which is underlain by limestone bedrock.

The December 1999 water level measurements were generally consistent with the December 1998 water levels. A brief summary of seasonal water level fluctuations is presented below by bedrock aquifer type:

- The water levels in the eastern portion of the site underlain by sandstone ranged from 2 to 13 feet higher in December 1999 compared to December 1998. This range was determined by using wells in the areas not affected by the pumping wells of the NPBA extraction system. Wells constructed in sandstone nearest the contact with the limestone aquifer (such as well CW-10) appear to have the largest groundwater level fluctuations due to drainage into the more permeable limestone aquifer.
- Water levels in the limestone aquifer were generally 2 to 5 feet higher in December 1999 compared to December 1998. Drought conditions existed during the December 1998 measurement period, which may explain these observed differences.

### 3.2 Key Well Groundwater Sampling

In February 1992, a key well sampling program was initiated. Selected monitoring wells were designated as "key wells" based upon location and spatial distribution in order to provide representative groundwater quality data across the site. The locations of these "key wells" are shown on Figure 3-1. The key wells have historically been sampled annually to establish a database of groundwater quality and to monitor changes in groundwater chemistry over time. Due to remedial investigation/feasibility study activities being conducted at the site during this period, a key monitoring well-specific sampling event was not conducted. Site-wide groundwater sampling was conducted during September 1999 and March/April 2000. A summary of detected VOC results from the site-wide sampling is presented on Table A-2, of Appendix A.

General groundwater quality trends based on current and past analytical results for the key wells, the SPBA wells, off-site wells, and the groundwater collection wells are discussed in subsequent chapters of this report. Again, following completion of the RI/FS report, it will be necessary to review the key well sampling program and consider changes based on the expanded site characterization.

**4.0 GROUNDWATER COLLECTION AND  
TREATMENT SYSTEM**

## 4.0 GROUNDWATER COLLECTION AND TREATMENT SYSTEM

The groundwater collection and treatment system serves to remediate groundwater containing dissolved VOCs in four main areas of the site: NPBA, TCA Tank, NB4 and WPL.

### 4.1 System Description

Extraction wells within each of the four main groundwater extraction areas remove groundwater by way of electric submersible pumps controlled by liquid level probes and control circuitry. The water level within each well is maintained between the "on" and "off" probes thus producing an area of drawdown and groundwater capture. The extracted groundwater is conveyed via underground piping to the treatment system where the dissolved VOCs are effectively removed from the groundwater.

The groundwater treatment system is housed in a 30-foot by 40-foot block building attached to the west wall of the industrial wastewater treatment plant. The process flow diagram for the system is presented in Figure 1-3. The treatment system consists of a 2,600-gallon equalization tank; 5 foot-diameter by 47 foot high PTA capable of treating 400 gallons per minute (gpm) of water; and a TFO/incinerator for PTA off-gas treatment. A 10,000-pound vapor-phase GAC unit serves as backup to the TFO. If the TFO is shut down due to normal maintenance or a system malfunction, the WPL portion of the groundwater extraction system is deactivated to prevent excessive VOC loading to the backup GAC unit.

Collected groundwater is pumped from the equalization tank at a maximum flow rate of 400 gpm to the top of the PTA. The water is then distributed evenly over the top of the polypropylene packing and flows down through the 36-foot packed section of the PTA.

A 4,000 cubic foot per minute (cfm) centrifugal blower draws air through the PTA column. The VOCs are effectively "stripped" from the water and then destroyed by thermal oxidation as the off-gas passes through the TFO. In accordance with NPDES Permit No. PA0085677, the treated groundwater flows by gravity from the PTA sump to a storm water sewer (Outfall No. 3) and is ultimately discharged to an unnamed tributary of the Codorus Creek.

The groundwater treatment system is equipped with a PC-based Site Boss® monitoring system. Remote computer terminals are located in both Harley-Davidson and SAIC offices where extraction well pumping rates and treatment processes can be monitored and controlled. System and extraction well pumping rates are adjusted manually at the site.

#### **4.2 Groundwater Withdrawal and Chemical Removal**

Table 4-1 presents recorded groundwater withdrawal and total VOC removal that has been accomplished by the groundwater extraction and treatment system. A system-wide total of approximately 22,993 pounds of VOCs has been removed since the groundwater treatment system began operation in November 1990. On average, prior to start-up of the WPL system in May 1994, approximately 131 gpm of groundwater and 1.2 pounds per day of total VOCs were being extracted by the system. Since the WPL system became operational, the average groundwater-pumping rate from 1995 through December 2000 is approximately 280 gpm with 8.2 pounds per day of total VOCs being removed.

The total amount of groundwater extracted during the period from July 1999 through June 2000 was approximately 215 million gallons (391,000 gallons per day [gpd]; 272 gpm). This extraction rate is slightly lower than the previous report period (7/98 - 6/99) where the average values were approximately 416,000 gpd and 289 gpm. This

lower treatment rate was due in part to shut down of the system during October 1999, during a pumping test that was conducted on another part of the site. Other than this test, the groundwater remediation system operated effectively throughout the current report period with few exceptions.

Quarterly PTA influent analyses, along with the measured extraction volumes are used to calculate the mass of VOCs removed from site groundwater during the reporting period (see Figure 4-1). Using this data, the total estimated mass of VOCs removed from July 1999 through December 2000 was 2,535 pounds (141 pounds per month). This mass removal rate is slightly lower compared to 165 pounds per month (1,980 pounds in 12 months) calculated during the previous reporting period. Estimated pounds per day of total VOCs extracted by the groundwater treatment system for the last five calendar years were:

- 2000 – 4.8 pounds/day
- 1999 – 5.4 pounds/day
- 1998 – 7.7 pounds/day
- 1997 – 7.3 pounds/day
- 1996 – 10.0 pounds/day
- 1995 – 15.3 pounds/day

From the time the groundwater remediation began operation in November 1990 until start-up of the WPL extraction system in May 1994, the PTA influent concentrations averaged approximately 750 micrograms per liter ( $\mu\text{g/l}$ ) of total VOCs. Following start-up of the WPL system, the average total VOC concentration increased to greater than 10,000  $\mu\text{g/l}$ , and has steadily decreased to date. The average total VOCs detected in the



PTA influent samples during the report period were approximately 1,416  $\mu\text{g/l}$ . The trend in PTA influent chemistry is illustrated on Figures 4-1 and 4-2.

The PTA effluent concentrations of VOCs were monitored twice monthly until December 1998. During 1999 and 2000, the PTA effluent was sampled and reported on a monthly basis. Analytical testing results for the reporting period are presented in Table A-4 of Appendix A. The treatment system effluent has maintained non-detectable concentrations of VOCs during this reporting period.

**5.0 NPBA GROUNDWATER EXTRACTION SYSTEM**

## 5.0 NPBA GROUNDWATER EXTRACTION SYSTEM

Groundwater extraction at the NPBA commenced in November 1990. Nine groundwater extraction wells (CW-1, CW-1A, CW-2, CW-3, CW-4, CW-5, CW-6, CW-7 and CW-7A) pump to the NPBA control building where individual pumping rates are controlled and measured. The groundwater from each well is combined to a common three-inch diameter pipeline, which conducts the water to the groundwater treatment system.

### 5.1 System Operational Conditions

The nine wells in the NPBA generally operated continuously as shown in Table 5-1 and Figure 5-1. On occasion, records show obviously diminished groundwater extraction volume from an individual well. These periods of interrupted pumping were related to various repairs and maintenance of the system. The most significant maintenance item was the rehabilitation of three wells, due to iron fouling. Iron fouling caused high water level alarms in these wells during parts of the report period due to reduced groundwater extraction rates.

Table 5-1 presents a record of monthly groundwater withdrawals for each extraction well area on-site for the period covered by this report. The NPBA extraction system, during the current report period, removed approximately 10.7 million gallons of groundwater at an average rate of 584,000 gallons per month, or 13.5 gpm. This volume is nearly identical to the withdrawal from the NPBA during last year's report period (13.8 gpm).

Measured groundwater levels for the current report period are presented in Table A-1. The groundwater contour map (Figure 3-1) shows the effect the groundwater extraction system imposed on the water table at the NPBA Area on December 22-23, 1999. The

groundwater contours shown on Figure 3-1 indicate coalescing cones of depression around each of the NPBA collection wells, which aid in preventing of off-site migration of VOCs from this area.

Table 5-2 summarizes measurements of water levels for extraction wells in the NPBA. The table also lists design "pump on" and "pump off" water level elevations. During the December 1999 measurement round, water levels were maintained near the design drawdown levels (within five feet), in all nine wells.

#### Northern Property Boundary Area Well Rehabilitation

The NPBA wells, pumps, and piping are constantly being negatively impacted by precipitation of iron. Significant declines in groundwater yields have been occurring in well CW-2, CW-4, and CW-7A over the last several years in spite of the regular replacement of pumps and acid cleaning of conveyance piping. As a result of this observation, these wells were rehabilitated in July 1999.

Over the period of July 19 through July 21, 1999, SAIC performed the well rehabilitation on three NPBA wells. Two of the rehabilitated wells (CW-2 and CW-4) are 150 feet in depth, having a 6-inch open rock construction from 48 feet and 63 feet to total depth, respectively. The other well (CW-7A) is constructed of 6-inch stainless screen from 36 feet to 66 feet below ground surface (bgs). All of these wells are constructed in phyllite lithology. Well CW-2 includes a thin zone of quartzitic sandstone at a depth of approximately 130 feet bgs; and well CW-7A terminates in phyllite schist from 61 to 66 feet bgs.

SAIC removed the well pumps/motors and associated piping from the wells. Then the total depth of the well was measured and compared to the well logs to determine if any

sediment accumulation had occurred. CW-2 and CW-7A had only negligible amounts of sediment and CW-4 had approximately a foot of accumulation, none of which was significant enough to affect the well yield. A small obstruction at 75 feet bgs was observed in CW-4. Following the removal of the pump assembly, a brief step-drawdown pumping test was conducted to establish baseline well performance parameters. Turbidity and pH measurements were collected before, and at the end of each step of the pumping tests.

The NPBA wells were treated using approximately 4 gallons per well of hydroxyacetic (glycolic) acid (70 percent solution). The acid was pumped slowly down the well and allowed to remain over night. The following day the wells were injected with water to dislodge mineral scale and iron bacteria from the well screens and the natural formation material surrounding the screens. A water jet was used to inject potable water at high pressure, which also mobilized the acid/water solution and aided in breaking up any encrustation.

Following the water jet and chemical well development, the step-drawdown pumping tests were repeated to measure changes in well efficiency. The results of the pre- and post-rehabilitation tests are provided on Table 5-3. As shown on this table, CW-2 and CW-7A increased their performance by 17 and 25 percent, respectively; whereas no significant change was observed in CW-4 from the rehabilitation efforts.

The water collected during the post-rehabilitation pumping tests had a pH value of approximately 2.5-3 and all collected water was sent to the industrial wastewater treatment plant (IWTP) for treatment and discharge.

### Extraction Well Pumps

SAIC replaced several groundwater extraction well pumps and acid cleaned the underground conveyance piping during the report period, which has resulted in the desired maintenance of water levels at the NPBA for several months. Visual observation of the manifold at the NPBA control building confirmed the successful cleaning of conveyance piping leading to the building.

Flow meters, y-strainers, check valves, and other components of the groundwater extraction system are maintained on a twice per month schedule. This maintenance program has successfully kept the system operational.

## **5.2 Groundwater Chemistry**

The dominant VOCs found in groundwater beneath the NPBA are TCE and PCE. Three monitoring wells (MW-10, MW-12, and RW-2) and nine collection wells (CW-1 through CW-7, CW-1A and CW-7A) were sampled at the NPBA during the report period to evaluate the effectiveness of the NPBA groundwater remediation system. The results of laboratory analyses for the monitoring wells and the collection wells are summarized on Tables A-2 and A-3, respectively.

Table 5-4 is a summary comparing 1998 TCE and PCE (the primary detected VOCs) concentrations with 1999 values from NPBA extraction wells and key wells. The concentration of VOCs in the NPBA extraction wells generally decreased from 1998 to 1999 based on the routine December/June sampling data.

Concentrations of TCE in the NPBA key wells are shown on Figure 5-2. The concentration of TCE in these three wells remained fairly constant during the reporting

period, with the exception of the September 1999 detection at MW-10. A sharp decrease in TCE concentration occurred from December 1998 (540  $\mu\text{g/l}$ ) to September 1999 (24  $\mu\text{g/l}$ ) in MW-10. The March 2000 analytical result represents a return to typical concentration levels (540  $\mu\text{g/l}$ ).

Concentrations of TCE in NPBA extraction wells are shown collectively on Figure 5-3. Concentrations of TCE in these wells increased slightly from the December 1999 to June 2000 routine sampling events. In comparison to the previous year the concentration of TCE in these extraction wells remained fairly constant, or slightly lower during this reporting period. Historically since start-up of the NPBA extraction system, a gradual decreasing trend in TCE is generally observed. During the reporting period, the highest concentrations of TCE at the NPBA were present in wells CW-7A and CW-1A located near the northeastern corner of the property.

Historical trends of the four predominant VOCs (TCE, PCE, 1,1,1-TCA, and cis-1,2-DCE) are illustrated for each of the NPBA extraction wells on Figures 5-4 through 5-12. With the exception of CW-6 (Figure 5-10), TCE is the primary contaminant in the NPBA wells. PCE, 1,1,1-TCA and cis-1,2-DCE have historically been found near or below the analytical detection limit in the NPBA wells.

Figure 5-10 illustrates a significant increase in the concentration of PCE at CW-6 during this reporting period. The concentration of PCE was found at or above that of TCE in this well during all sampling events from July 1999 through December 2000. CW-6 is the only NPBA extraction well, in which TCE has not been the dominant VOC during its history of sampling.

**6.0 TCA TANK AREA GROUNDWATER  
EXTRACTION SYSTEM**



## 6.0 TCA TANK AREA GROUNDWATER EXTRACTION SYSTEM

Groundwater extraction was initiated in November 1990 from CW-8 to prevent TCA migration and remove VOCs from the groundwater in this area. Groundwater extraction was initiated in February 1995 from CW-16 to contain and remediate groundwater beneath the degreaser area inside Building 2. Groundwater from these wells is conveyed a distance of approximately 1,000 feet through a 3-inch line to the groundwater treatment system.

Initially, extraction well CW-8 was pumped at a rate higher than necessary to maintain capture. The early goal was to reverse the direction of migration prior to initiation of groundwater pumping planned for the WPL, which would have potentially pulled the western edge of the TCA tank plume further west. Prior to pumping of the WPL, the groundwater treatment plant, which was designed to handle water from the WPL, had excess capacity. Thus, the capacity was utilized to address the TCA tank plume. When the WPL extraction system came on-line, the pumping rate of CW-8 was reduced.

### 6.1 System Operational Conditions

Extraction wells in the TCA area have generally operated continuously during the report period. Table 5-1 presents a record of monthly groundwater withdrawals from extraction wells CW-8 and CW-16. Approximately 88 million gallons of groundwater were extracted from the TCA Tank Area, averaging approximately 4.9 million gallons per month (111 gpm). The groundwater extraction rate was slightly greater during the previous report period averaging approximately 117 gpm. The recent decrease is due primarily to the shut down of the TCA and WPL extraction wells in October 1999 during a pumping test (see Figure 5-1). The most significant maintenance item was the

rehabilitation of well CW-16, due to reduced groundwater extraction rates observed at this well (see discussion below).

The groundwater contour map (Figure 3-1) shows the effect the groundwater extraction system imposed on the water table at the TCA Area on December 22-23, 1999. Groundwater contours indicate a general area of depression on the groundwater surface in the vicinity of the TCA area as a result of pumping at wells CW-8 and CW-16. The closed 340-foot contour indicates radial flow (capture) toward the TCA extraction wells.

Table 5-2 summarizes measurements of water levels for extraction wells in the TCA Area. The table also lists design "pump on" and "pump off" water level elevations. During the December 1999 measurement round, the observed water levels were within the design drawdown levels for both extraction wells.

Based on the monthly total flow data, the CW-8 daily extraction rates have averaged approximately 120,000 gallons per day (gpd). CW-16 has maintained an average pumping rate during the report period of approximately 41,000 gpd. Pumping rates from CW-8 and CW-16 have averaged approximately 2.4 and 0.75 million gallons per month, respectively, during the reporting period. Again, this groundwater extraction rate was slightly less than the previous reporting period due primarily to the shut down of the TCA and WPL extraction wells in October 1999 during a pumping test.

#### CW-16 Rehabilitation

On December 29 and 30, 1999 and January 3, 2000, SAIC conducted rehabilitation work on CW-16. Well CW-16 is located within a very busy area inside Building 2 and thus the work was conducted during plant shutdown when manufacturing activities in the area were less than normal. Well CW-16 is a 6-inch diameter, 50-foot deep screened well,

with a sand pack and screened interval extending from 30.5 to 50.5 feet bgs in limestone bedrock. Prior to the rehabilitation work, the average pumping rate had declined by more than 50 percent, and the average specific yield had decreased to approximately 2 gallons/foot.

SAIC measured approximately one-inch of sediment accumulation in the bottom of the well. A brief step-drawdown pumping test was then conducted to determine baseline well performance parameters. Based on the results of the pumping test, the well was capable of maintaining a sustained pumping rate of approximately 13 gpm. Before, during and after the pumping test, water quality parameters were collected. These included pH, specific conductivity, turbidity, dissolved oxygen, and temperature. Prior to the addition of acid, the pH of the groundwater was approximately 7.5.

After completion of the pumping test, SAIC pulled the pump assembly out of the well. Inspection of the pump revealed no indication of mineral deposition or iron bacteria buildup. A borehole video camera was used to look at the inside of the well screen to further indicate the reason for the decreased well yield, and to assist in determining the best approach for the rehabilitation. The borehole camera revealed no significant staining, or buildup inside the well or on the screen. There was minor staining on the well screen at a few zones and some brown colored buildup in the vicinity of 40 feet below grade level. The buildup was of a light and fluffy nature, with an appearance similar to filamentous iron bacteria. Based on these observations, the decision was made to use an acid treatment of the well screen and sand pack.

An acid solution consisting of 15 gallons of muriatic (hydrochloric) acid and 50 gallons of water was gravity fed down the well and then the pump and assembly was replaced. The pH of the well water was measured at 0.005 to 0.39. After approximately 3 hours,

500 gallons of water from CW-16 was removed and treated at the wastewater treatment plant prior to discharge.

Four days later CW-16 was checked for well performance. A pumping test was run and it revealed a significant increase in well yield (approximately 35 - 40 gpm), approaching its original capacity. A comparison of pre- and post-rehabilitation measurements are shown in Table 5-3.

Following the well rehabilitation, the flow meter for CW-16 was cleaned and the calibration checked. This was accomplished by shutting down all the pumping wells and turning off the air-stripping tower pump. CW-16 was then turned on and run for a specific amount of time. The amount of water pumped was measured in the holding tank and divided by the amount of time the pump was on. The calibration check indicated that the flow meter was recording the flow rate properly.

Table 5-2 summarizes measurements of water levels for extraction wells in the TCA Area. The table also lists design "pump on" and "pump off" water level elevations. During the December 1999 measurement round, water levels were maintained within the design-drawdown levels in both wells.

CW-8 and CW-16 are not prone to iron fouling, so twice monthly cleaning of y-strainers is normally sufficient for these wells. CW-16 had experienced declines in groundwater yields over the past several years. However, as described above, the rehabilitation of this well significantly increased its production and VOC removal rate.

## 6.2 Groundwater Chemistry

The dominant VOCs found in groundwater beneath the TCA Tank Area are TCE, PCE, 1,1,1-Trichloroethane (TCA), and cis-1,2-Dichloroethene (DCE). This area is the site of a past TCA spill, which resulted in initially high concentrations of TCA. Groundwater extraction and treatment initiated at CW-8 resulted in a rapid decrease in TCA concentrations near the release, with adjacent monitoring wells exhibiting slow declines. The cone of groundwater depression resulting from the active collection wells has resulted in intercepting existing TCE (and PCE) sources. TCE is now the dominant VOC in groundwater beneath this area.

Six monitoring wells (MW-32S&D, MW-34S&D, MW-35D, and MW-54) and two collection wells (CW-8 and CW-16) were sampled at the TCA tank area during the reporting period to evaluate the effectiveness of the groundwater remediation system. The results of laboratory analyses for the monitoring wells and the collection wells are summarized on Tables A-2 and A-3, respectively. Table 6-1 summarizes concentrations of the four dominant VOCs for the TCA area wells and compares last year's and this year's values. Concentrations of TCA, TCE, PCE and DCE show fluctuating concentration trends from 1998 to 1999 in the TCA tank monitoring wells (Figure 6-1). Data for one well (MW-32S) suggests an increasing concentration trend over the past two years.

Figures 6-2 and 6-3 show concentrations of dominant VOCs in TCA tank area extraction wells (CW-8 and CW-16, respectively) since start of pumping. Concentrations of VOCs in these wells increased slightly from the December 1998 to December 1999 routine sampling events. The one exception to this is TCA, which was not detected in either collection well sample during the December 1999 event.

General groundwater quality data for the collection wells in this area (CW-8 and CW-16) indicate that TCE concentrations in extracted groundwater decreased steadily and consistently from December 1996 through December 1999; but has since fluctuated between 300 and 700  $\mu\text{g/L}$  . The dominant VOC present at CW-8 has clearly shifted from 1,1,1-TCA to TCE. In 1990, 1,1,1-TCA accounted for 80 to 85 percent of the TVOC concentration at this well. In 1999, 1,1,1-TCA accounted for 0 percent of the TVOC concentration (see Table 6-1). Currently (January 2001), TCE accounts for 75 and 76 percent of the TVOC concentration in wells CW-8 and CW-16, respectively.

In summary, a review of groundwater quality data from the five monitoring wells and the two active groundwater collection wells, generally indicates improving but fluctuating groundwater quality beneath the TCA Tank Area. Unlike the other surrounding monitoring wells, data for MW-32S exhibits a slight increasing concentration trend in TCE over the past two years. In general, data from the TCA tank area indicate that TCE is the dominant VOC present in this area.

**7.0 WEST PARKING LOT GROUNDWATER  
EXTRACTION SYSTEM**

## 7.0 WEST PARKING LOT GROUNDWATER EXTRACTION SYSTEM

Three groundwater extraction wells (CW-9, CW-13, and CW-17) operate in the WPL Area of the Harley-Davidson property. One additional extraction well (CW-15A) is located near the northwest corner of Building 4. These four wells are referred to as the WPL wells. The purpose of the WPL groundwater extraction system is to prevent off-site migration of groundwater containing dissolved VOCs and to control the migration of VOCs in a plume located near the northwest corner of Building 4. Extracted groundwater from the WPL wells is via underground piping to the groundwater treatment system. The wells are individually piped to the groundwater treatment plant so that flow control, flow measurements and water samples may be obtained for each well at this central location.

Extraction wells CW-9, CW-13, and CW-15A began operation in May 1994, and CW-17 began operating in September 1995. Well CW-17 was a replacement extraction well for CW-14. CW-14 operated as one of the WPL extraction wells between June 1994 and March 1995, when it stopped operating due to excessive sediment buildup in the well.

### 7.1 System Operational Conditions

Approximately 113 million gallons of groundwater were extracted from the WPL Area during the report period (see Table 5-1), averaging approximately 6.3 million gallons per month (143 gpm). The groundwater extraction rate recorded during the previous report period was slightly greater at approximately 159 gpm. The recent decline in pumping was due primarily to shut down of the WPL and TCA extraction wells in October 1999 during a pumping test (see Figure 5-1).



The groundwater contour map (Figure 3-1) shows the effect the groundwater extraction system imposed on the water table at the WPL Area on December 22-23, 1999. Groundwater contours indicate a general area of depression on the groundwater surface surrounding the WPL area which demonstrates capture of local groundwater and prevention of off-site migration. The completeness of capture in the southwestern corner of the WPL is being reviewed as part of the ongoing RI/FS.

Table 5-2 summarizes measurements of water levels for extraction wells in the WPL. The table also lists design "pump on" and "pump off" water level elevations. During the December 1999 measurement round, water levels were maintained within or near the design-drawdown levels for all 4 wells.

The WPL wells operated as designed throughout the report period with few exceptions. The only required routine maintenance on the WPL wells is twice monthly cleaning of the y-strainers. The current maintenance program has maintained reliable operation of extraction wells CW-9, CW-13, CW-15A, and CW-17.

## 7.2 Groundwater Chemistry

TCE, PCE, DCE, and TCA are the dominant VOCs present in groundwater beneath this area. Nine monitoring wells (MW-5, MW-6, MW-37S&D, MW-38S&D, MW-39D, and MW-51S&D) and four collection wells (CW-9, CW-13, CW-15A, and CW-17) were sampled in the WPL area during the report period. The results of laboratory analyses for the monitoring wells and the collection wells are summarized on Tables A-2 and A-3, respectively. Concentrations of the most prevalent VOC in this area (TCE) is graphed for monitoring wells and extraction wells on Figures 7-1 and 7-2, respectively. Concentrations of TCE in the collection wells exhibit a fluctuating concentration trend, with a slight increase from the December 1999 to June 2000 routine sampling events.

Between June 2000 and December 2000, three of the four wells (excluding CW-9) return to a decreasing concentration trend.

Table 7-1 summarizes concentrations of the four dominant VOCs for the WPL wells, and compares last year and this year's values. TCE was the dominant detected VOC in all of the WPL extraction wells with the exception of CW-9 (PCE = 48 percent). TCE represents 43 to 55 percent of the total volatile organic compounds (TVOCs) in each of the other three WPL extraction wells. TCA remains a significant component (37 percent) of the TVOCs measured in the NB4 extraction well (CW-15A).

Figures 7-3 through 7-6 show concentrations of dominant VOCs in WPL extraction wells since start-up of pumping. TCE is the dominant VOC recovered by three of the four collection wells in this area (CW-13, CW-15A, and CW-17). Each of these three wells exhibits a relatively consistent decreasing trend in TCE concentration. The highest concentrations of TCE (and VOCs) are present in well CW-15A, located near the northern end of Building No. 4. CW-15A also continues to exhibit elevated, yet decreasing concentrations of 1,1,1-TCA. PCE continues to remain the dominant VOC found at CW-9 (see Figure 7-3).

In comparison to the previous year, the concentration of VOCs in three of these extraction wells (CW-9, CW-13, and CW-15A) exhibited fluctuating concentration trends but remained fairly consistent. Extraction well CW-17 exhibited slightly higher concentrations of VOCs, compared to last year. Historically since start-up of the NPBA extraction system, an initial increase, followed by a gradual decreasing trend in TCE is generally observed for each of the extraction wells.

**8.0 SOUTHERN PROPERTY BOUNDARY AREA  
WELL MONITORING**

## 8.0 SOUTHERN PROPERTY BOUNDARY AREA WELL MONITORING

Eleven wells (MW-40S&D, MW-41S&D, MW-42S/M/D, MW-43S&D, and MW-64S&D) located near the Southern Property Boundary Area (SPBA) were sampled during the reporting period. These wells were sampled as part of a site-wide sampling event for the RI/FS effort. MW-41S&D and MW-43S&D are part of the original key well sampling program. Additionally, CW-10 and CW-11 are part of the key well sampling program, but were not sampled this year because of the RI/FS activities.

The dominant VOC detected in groundwater beneath this area is TCE, followed by lesser concentrations of PCE, and some TCA. The analytical results are discussed below and summarized on Table A-2. Concentrations of the most prevalent VOC in this area (TCE) are graphed and included as Figure 8-1. This illustration shows the relative concentrations of TCE in selected SPBA wells since 1990.

**9.0 EASTERN AREA WELL MONITORING**

## 9.0 EASTERN AREA WELL MONITORING

As part of the key well sampling program, two wells are routinely sampled to monitor groundwater quality near the eastern portion of the Harley-Davidson property. Wells MW-2 and MW-17 were sampled during the September 1999 and April 2000 events during this reporting period. The dominant VOCs detected in groundwater beneath this area are TCE and PCE. The analytical results are discussed below and summarized on Table A-2. Concentrations of TCE are graphed and included as Figure 9-1, showing the relative concentrations of the eastern area key wells. A brief summary of the analytical results is presented below:

- MW-2 is located next to a former cyanide disposal area near the eastern site property boundary. PCE and TCE were the only VOCs detected in the MW-2 sample. Concentrations of TCE decreased 35 percent from the September 1999 to March 2000 sampling (from 57  $\mu\text{g/l}$  to 37  $\mu\text{g/l}$ ). However, the PCE concentrations increased 33 percent during this same time period (from 98  $\mu\text{g/l}$  to 130  $\mu\text{g/l}$ ). Overall, TCE and PCE concentrations have exhibited a generally consistent decreasing trend over the last few years of monitoring.
- Monitoring well MW-17 is located in the east-central portion of the site, south of the landfill. The only VOC detected in the September 1999 and March 2000 samples from this location was TCE. Concentrations of TCE decreased 10 percent from the September 1999 to April 2000 sampling (from 83 to 75  $\mu\text{g/l}$ ). Although a slight increase in TCE was observed from the fall 1998 to the September 1999 sampling, TCE concentrations have

exhibited a relatively consistent decreasing concentration trend since it was initially detected at a maximum concentration of 254  $\mu\text{g/l}$  in 1987.

**10.0 OFF-SITE GROUNDWATER MONITORING**



## 10.0 OFF-SITE GROUNDWATER MONITORING

A quarterly sampling program of off-site groundwater supplies adjacent to and downgradient of the Harley-Davidson property was initiated in April 1988. During this report period, sampling occurred in September 1999, December 1999, March 2000, June 2000, September 2000, and December 2000. Four groundwater/surface water locations, designated "RW" for a residential well and "S" for a spring sample, were included in this sampling program during the report period:

- RW-4 - Folk residence.
- RW-5 - Giambalvo Pontiac
- S-6 - Hollinger spring.
- S-7 - Wilhide spring.

Sampling locations RW-4, S-6, and S-7 are sampled routinely on a quarterly basis. Well RW-5 (Giambalvo Pontiac) is no longer utilized as a water supply well, and was only sampled during September 1999 and March 2000 as part of the ongoing RI/FS activities. Harley-Davidson connected Giambalvo Pontiac to the city water supply in January 1999. The RW-5 data summary is provided in Table A-2, of Appendix A.

Groundwater sampling locations RW-4, S-6, and S-7 are located to the north of the Harley-Davidson property as shown on Figure 1-2. A complete description of baseline sampling of residential wells is contained in the R.E. Wright Environmental, Inc. report, entitled "Report of Investigations in the NPBA, TCA tank, and containment areas of the Harley-Davidson, Inc. York facility," dated August 1988. Concentrations of the most prevalent VOC (when detected) in this area (TCE) are graphed and included as Figure 10-1, showing the relative concentrations of the off-site locations.

During the reporting period, RW-4 (residential well) was sampled directly from the tap within the residence. Grab samples were collected directly from springs S-6 and S-7, which are located on residential properties. The off-site samples were analyzed for VOCs and free and total cyanide. Analytical results for these three locations are presented in Table A-5 of Appendix A. A summary of the sampling results from all four off-site locations is provided below:

- VOCs and cyanide were not detected during any of the sampling events in this reporting period for RW-4 (Folk Residence). Total cyanide was detected previously in RW-4 in 1993. All tested compounds in this well remain well below the EPA drinking water maximum contaminant level (MCL).
- TCE was detected during the September 1999 and March 2000 sampling events at RW-5 (Giambalvo Pontiac). The detected concentration of TCE was 4 µg/l during both sampling events. TCE had previously been detected at a maximum concentration of 57 µg/l during the 1995-reporting period (Figure 10-1). This well is no longer sampled quarterly as part of the off-site groundwater supply monitoring program since Giambalvo Pontiac was connected to the city water supply in January 1999.
- Cyanide was not detected during any of the sampling events in this reporting period for S-6 (Tate Residence). Cyanide was previously detected in S-6 at 13 µg/l in 1992. The concentration remains well below the MCL of 200 µg/l. Chloroform was detected during all six sampling events in S-6, ranging from 4.1 µg/l to 6.6 µg/l. Chloroform has been

consistently detected at similar concentrations in S-6 during every sampling event since September 1995, but levels remain well below the MCL of 100 µg/l. No other VOCs were detected at this location.

- Chloroform was detected during all six sampling rounds in S-7 (Hermann Residence), ranging from 2.2 to 3.1 µg/l. Chloroform has consistently been detected in S-7 since June 1997, with the exception of March 1998. Levels have remained well below the MCL of 100 µg/l. No other VOCs were detected at this location during the reporting period. Cyanide was not detected during any of the sampling events in this reporting period. Although cyanide has been detected in previous sampling events in S-7, the concentrations have remained well below the MCL of 200 µg/l.

A trip blank sample accompanied each set of quarterly off-site samples as part of the quality control procedures. VOCs were not detected in any of trip blanks.

11.0 SUMMARY

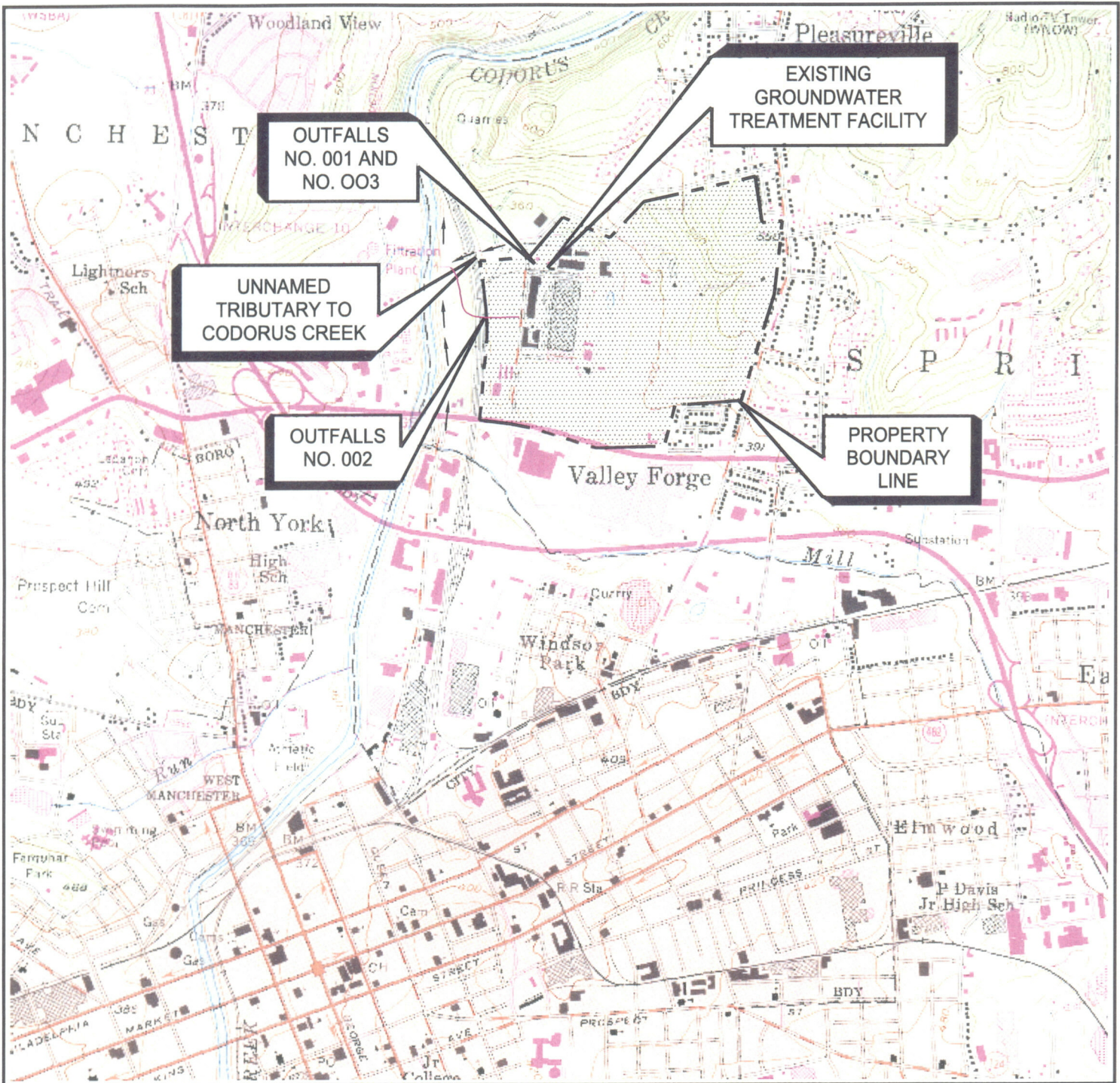
## 11.0 SUMMARY

Operation of extraction wells in the NPBA resulted in overlapping cones of depression resulting in a trough in the groundwater table. The trough acts as a barrier to groundwater flow, thereby preventing off-site migration. Removal of groundwater from extraction wells CW-8 and CW-16 developed a cone of depression in the TCA Tank Area, and removed significant quantities of VOCs. Similarly, three extraction wells were operated in the WPL, which removed significant amounts of VOCs and restricted off-site migration of groundwater. One additional extraction well, operating next to the WPL (CW-15A), also successfully removed VOC-containing groundwater at the former degreaser location in the North Building 4 (NB4) Area. Total VOC concentrations of the treatment system influent have steadily declined since pumping was initiated at the WPL in May 1994.

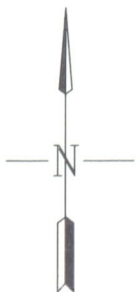
The current bimonthly preventative maintenance program has pro-actively facilitated continuous operation of the groundwater extraction and treatment systems with few exceptions during the report period.

The current groundwater monitoring program involves measuring groundwater levels and sampling/analyzing onsite key wells and off-site locations. The current monitoring provides sufficient data to assess the effectiveness of the collection and treatment systems. The key well program should be reviewed after completion of the RI/FS, and potentially modified, considering new data.

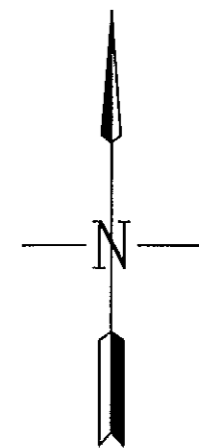
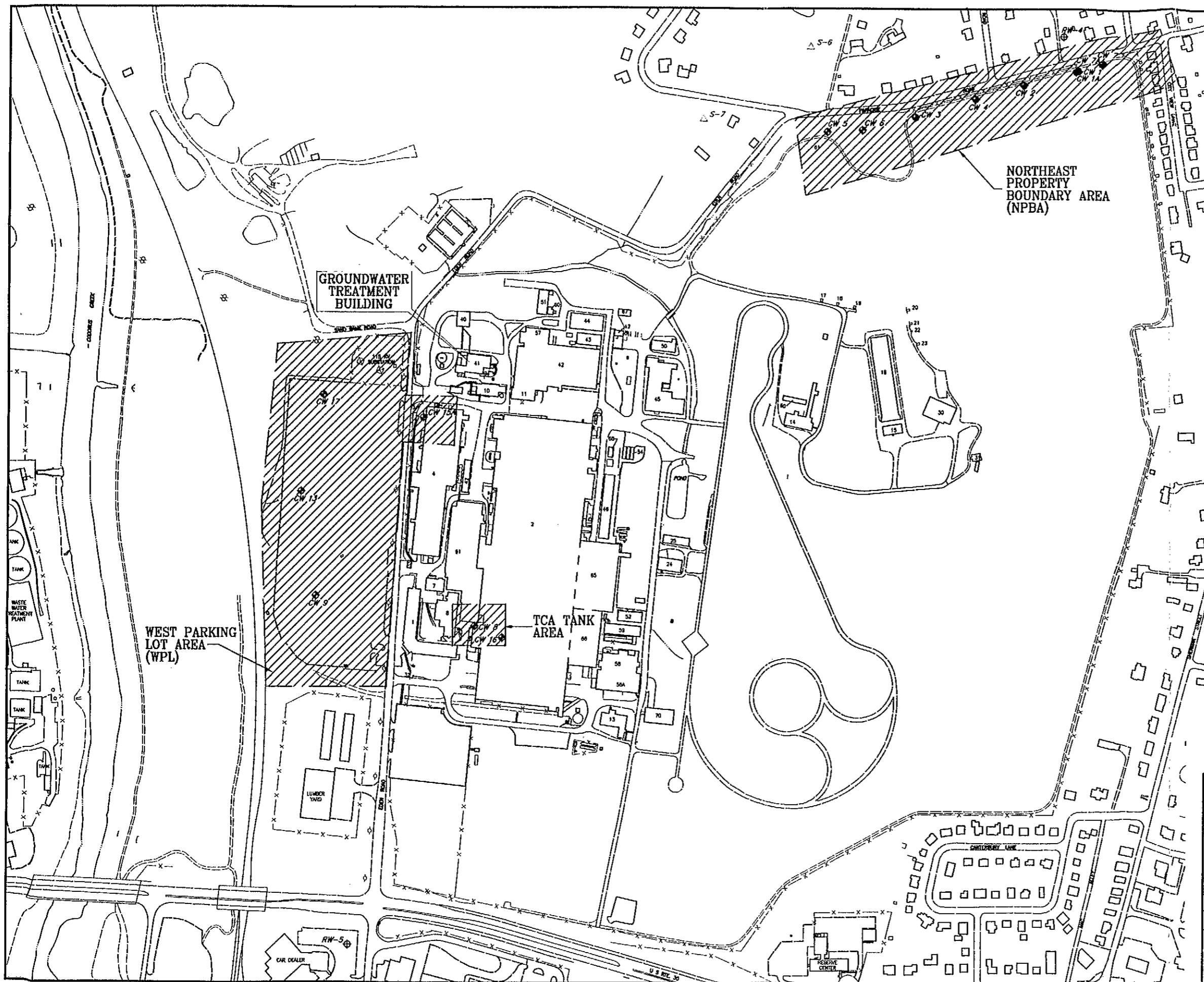
**FIGURES**



NOTE: BASE MAP FROM THE YORK PA., USGS 7 1/2 MIN TOPOGRAPHIC QUADRANGLE (PR 1990).

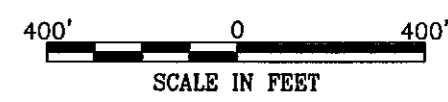


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|                             |                      | <b>Science Applications<br/>International Corporation</b><br>An Employee-Owned Company |            |



**LEGEND**

- BUILDING NO. 2
- ⊕ CW-2 EXTRACTION WELL NO. CW-2
- - - - - PROPERTY LINE
- STREAM COURSE OR EDGE OF WATER
- ▨ GROUNDWATER EXTRACTION SYSTEM AREAS
- ⊕ RW-4 MONITORING WELL LOCATION AND DESIGNATION
- △ S-6 SURFACE WATER MONITORING LOCATION AND DESIGNATION



**HARLEY-DAVIDSON  
MOTOR COMPANY**

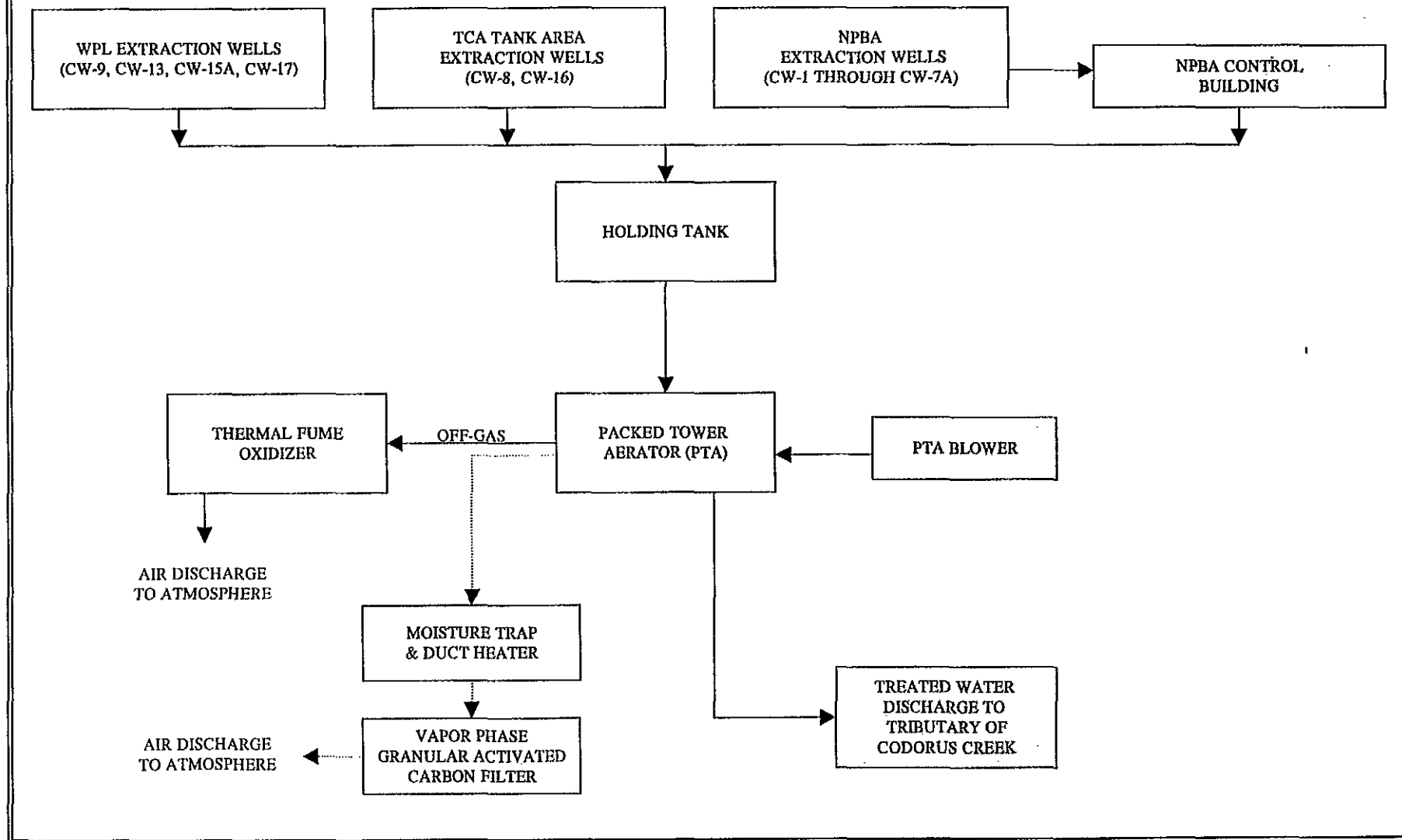
**SITE MAP**

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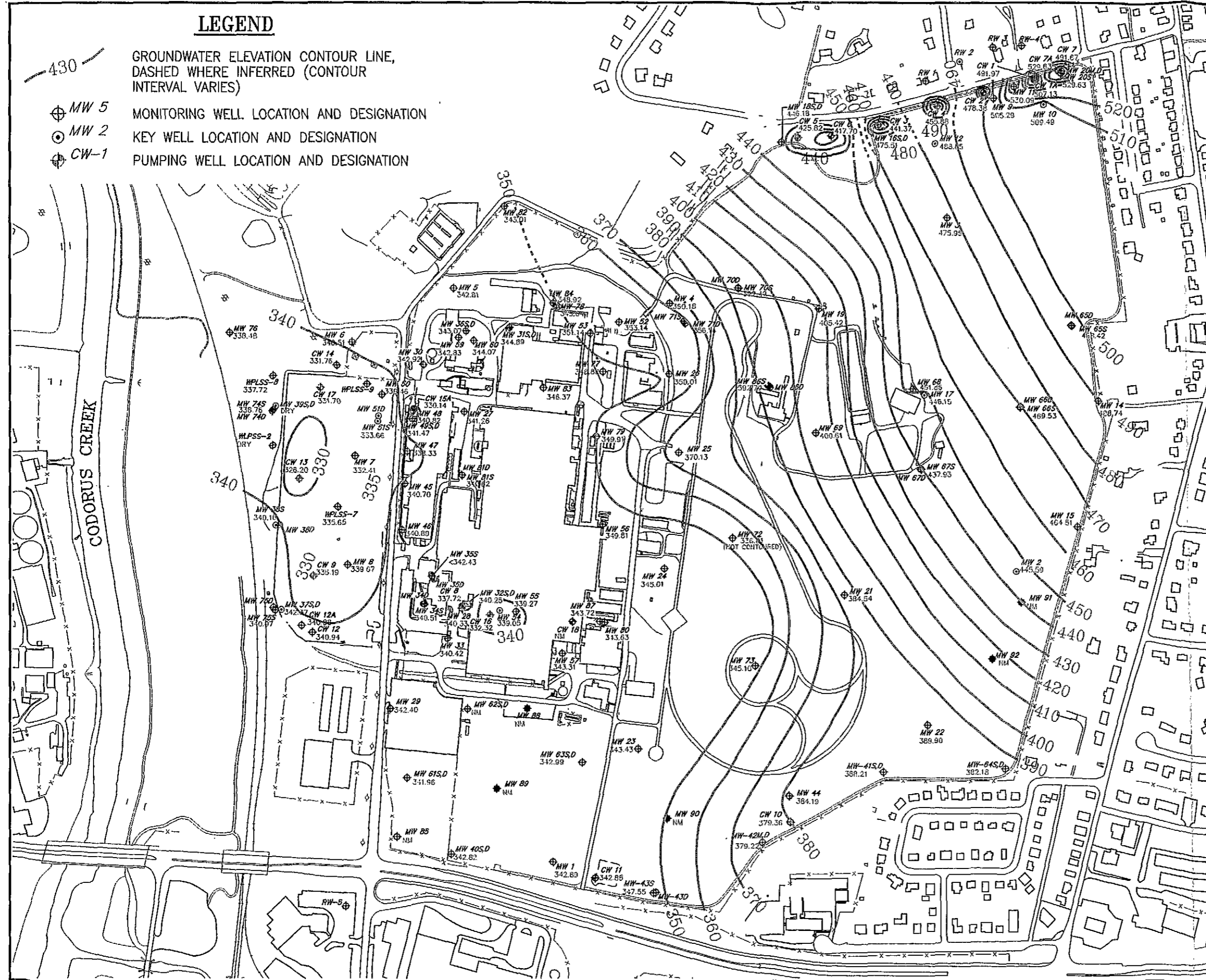


# FIGURE 1-3 GROUNDWATER TREATMENT SYSTEM Harley-Davidson Motor Company



**LEGEND**

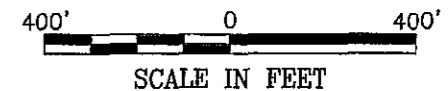
- 430 — GROUNDWATER ELEVATION CONTOUR LINE, DASHED WHERE INFERRED (CONTOUR INTERVAL VARIES)
- ⊕ MW 5 MONITORING WELL LOCATION AND DESIGNATION
- ⊙ MW 2 KEY WELL LOCATION AND DESIGNATION
- ⊕ CW-1 PUMPING WELL LOCATION AND DESIGNATION



12/22-23/99 Groundwater Surface Elevations & Approximate Daily Pumping Volumes From "CW" Wells Harley-Davidson Motor Company

| Well ID | Groundwater Extraction (gallons) | 12/22-23/99 Water Level (ft. AMSL) | Well ID | 12/22-23/99 Water Level (ft. AMSL) |
|---------|----------------------------------|------------------------------------|---------|------------------------------------|
| CY-1    | 4,454                            | 491.97                             | NW-385  | 340.16                             |
| CY-1A   | 23                               | 507.13                             | NW-398  | N.M.                               |
| CY-2    | 1                                | 478.38                             | NW-405  | 342.62                             |
| CY-3    | 5,394                            | 441.37                             | NW-415  | 388.21                             |
| CY-4    | 3,925                            | 455.88                             | NW-425  | 378.22                             |
| CY-5    | 2,378                            | 425.82                             | NW-435  | 347.55                             |
| CY-6    | 6,550                            | 417.70                             | NW-44   | 384.19                             |
| CY-7    | 632                              | 491.87                             | NW-45   | 340.70                             |
| CY-7A   | 1                                | 529.83                             | NW-46   | 340.20                             |
| CY-8    | 147,000                          | 337.72                             | NW-47   | 338.53                             |
| CY-9    | 52,722                           | 335.19                             | NW-48   | 340.82                             |
| CY-10   | N.O.                             | 379.38                             | NW-49S  | 341.47                             |
| CY-11   | N.O.                             | 342.88                             | NW-60S  | 338.48                             |
| CY-12   | 0                                | 340.94                             | NW-61S  | 333.68                             |
| CY-13A  | N.O.                             | 340.88                             | NW-62   | 355.14                             |
| CY-13   | 91,084                           | 328.20                             | NW-63   | 351.14                             |
| CY-14   | N.O.                             | 331.76                             | NW-64   | 339.05                             |
| CY-15   | N.O.                             | 339.01                             | NW-65   | 339.27                             |
| CY-15A  | 4,783                            | 330.14                             | NW-66   | 349.81                             |
| CY-16   | 18,775                           | 332.32                             | NW-67   | 343.31                             |
| CY-17   | 74,289                           | 331.70                             | NW-69   | 342.83                             |
| CY-18   | N.O.                             | N.M.                               | NW-69   | 344.07                             |
| NW-1    |                                  | 342.88                             | NW-61S  | 341.96                             |
| NW-2    |                                  | 445.59                             | NW-62S  | N.M.                               |
| NW-3    |                                  | 475.95                             | NW-63S  | 342.99                             |
| NW-4    |                                  | 388.18                             | NW-64S  | 382.18                             |
| NW-5    |                                  | 345.81                             | NW-65S  | 486.42                             |
| NW-6    |                                  | 340.51                             | NW-66S  | 469.83                             |
| NW-7    |                                  | 332.41                             | NW-67S  | 437.93                             |
| NW-8    |                                  | 339.67                             | NW-68   | 451.88                             |
| NW-9    |                                  | 625.28                             | NW-69   | 490.81                             |
| NW-10   |                                  | 959.49                             | NW-70S  | 382.42                             |
| NW-11   |                                  | 630.08                             | NW-71S  | 358.14                             |
| NW-12   |                                  | 486.65                             | NW-72   | 336.01                             |
| NW-13   |                                  | 488.74                             | NW-73   | 345.10                             |
| NW-14   |                                  | 484.51                             | NW-74S  | 338.78                             |
| NW-15   |                                  | 475.51                             | NW-75S  | 340.97                             |
| NW-16   |                                  | 448.16                             | NW-76   | 338.48                             |
| NW-17   |                                  | 446.18                             | NW-77   | 348.88                             |
| NW-18   |                                  | 446.18                             | NW-78   | 348.88                             |
| NW-19   |                                  | 405.42                             | NW-79   | 349.91                             |
| NW-20   |                                  | 528.83                             | NW-80   | 343.63                             |
| NW-21   |                                  | 384.54                             | NW-81S  | 340.82                             |
| NW-22   |                                  | 399.60                             | NW-82   | 343.01                             |
| NW-23   |                                  | 343.43                             | NW-83   | 348.37                             |
| NW-24   |                                  | 345.01                             | NW-84   | 348.37                             |
| NW-25   |                                  | 370.13                             | NW-85   | 348.82                             |
| NW-26   |                                  | 350.01                             | NW-86   | N.M.                               |
| NW-27   |                                  | 341.28                             | NW-87S  | 382.79                             |
| NW-28   |                                  | 340.33                             | NW-87   | 343.72                             |
| NW-29   |                                  | 342.40                             | NW-88   | N.M.                               |
| NW-30   |                                  | 342.92                             | NW-89   | N.M.                               |
| NW-31   |                                  | 344.83                             | NW-90   | N.M.                               |
| NW-32   |                                  | 340.25                             | NW-91   | N.M.                               |
| NW-33   |                                  | 340.42                             | NW-92   | N.M.                               |
| NW-34   |                                  | 340.51                             | NW-93   | N.M.                               |
| NW-35   |                                  | N.M.                               | NW-94   | 335.68                             |
| NW-36   |                                  | 343.67                             | NW-95   | 337.72                             |
| NW-37   |                                  | 342.57                             |         |                                    |

Note:  
 \* - Groundwater extraction values were recorded on 12/22/99.  
 N.O. - Not Operated  
 N.M. - Not Measured  
 ft. AMSL - feet Above Mean Sea Level (AMSL)



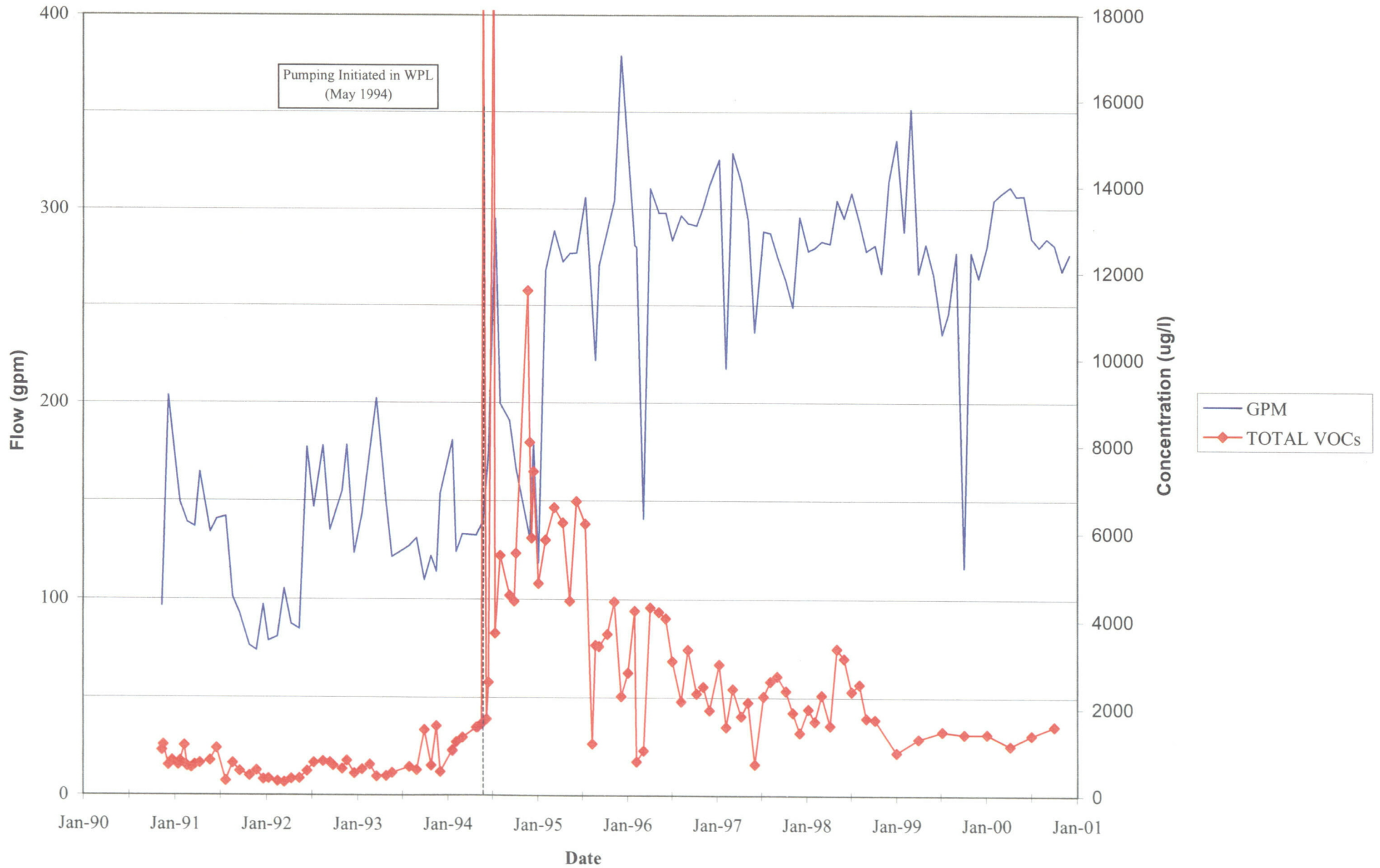
**HARLEY-DAVIDSON MOTOR COMPANY**

**GROUNDWATER ELEVATION CONTOUR MAP - DECEMBER 22, 23, 1999**

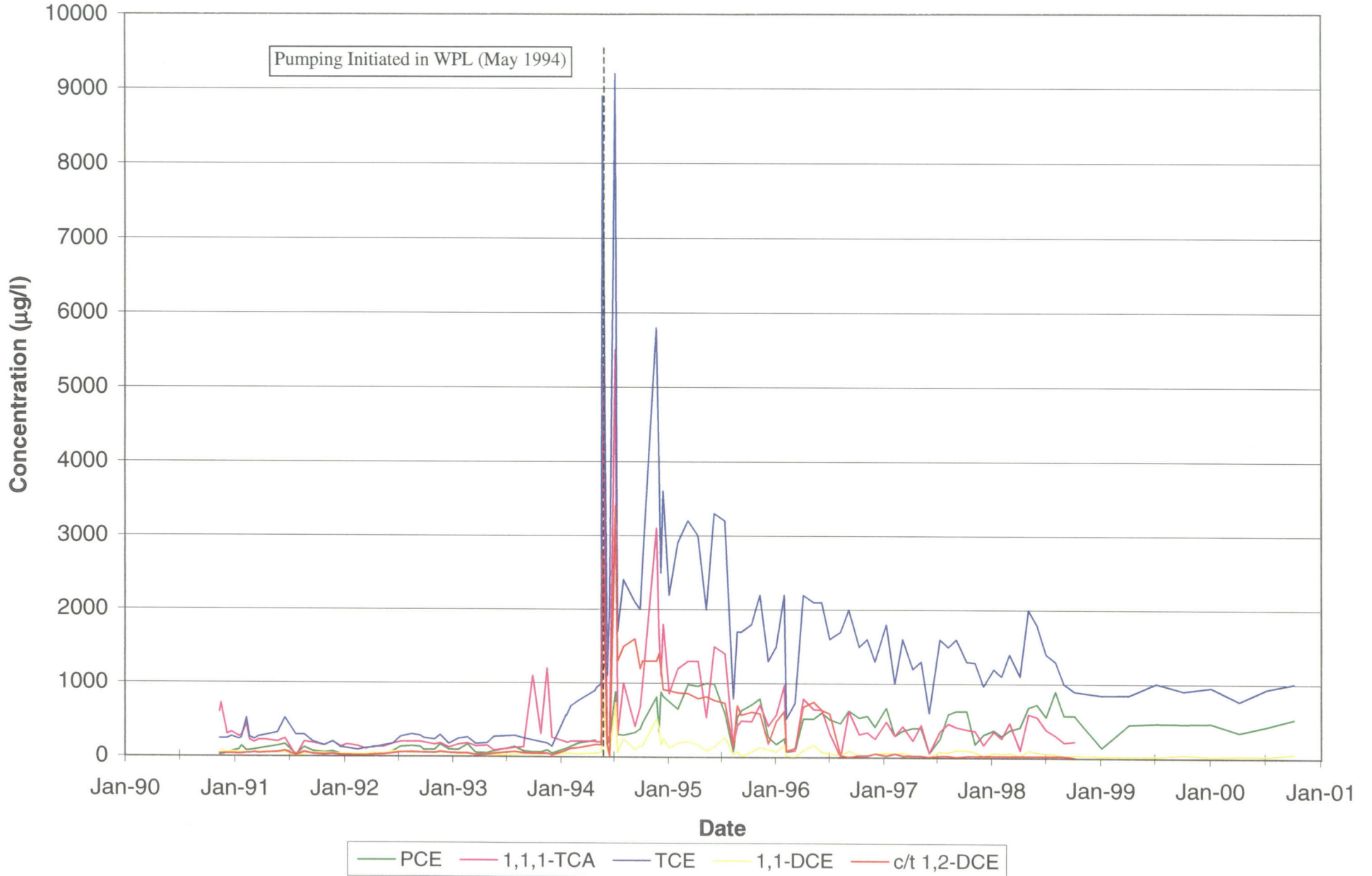
|                             |              |                      |            |
|-----------------------------|--------------|----------------------|------------|
| drawn RAM                   | checked SMS  | approved SMS         | figure no. |
| date 12/15/00               | date 10-3-01 | date 10-3-01         | 3-1        |
| Job no. 01-1633-00-1671-000 |              | file no. 01671-001-B |            |

**SAIC** Science Applications International Corporation  
 An Employee-Owned Company

**Figure 4-1**  
**Record of Tower Influent Chemistry**  
 Total VOC Concentrations  
 Start-up through December 31, 2000



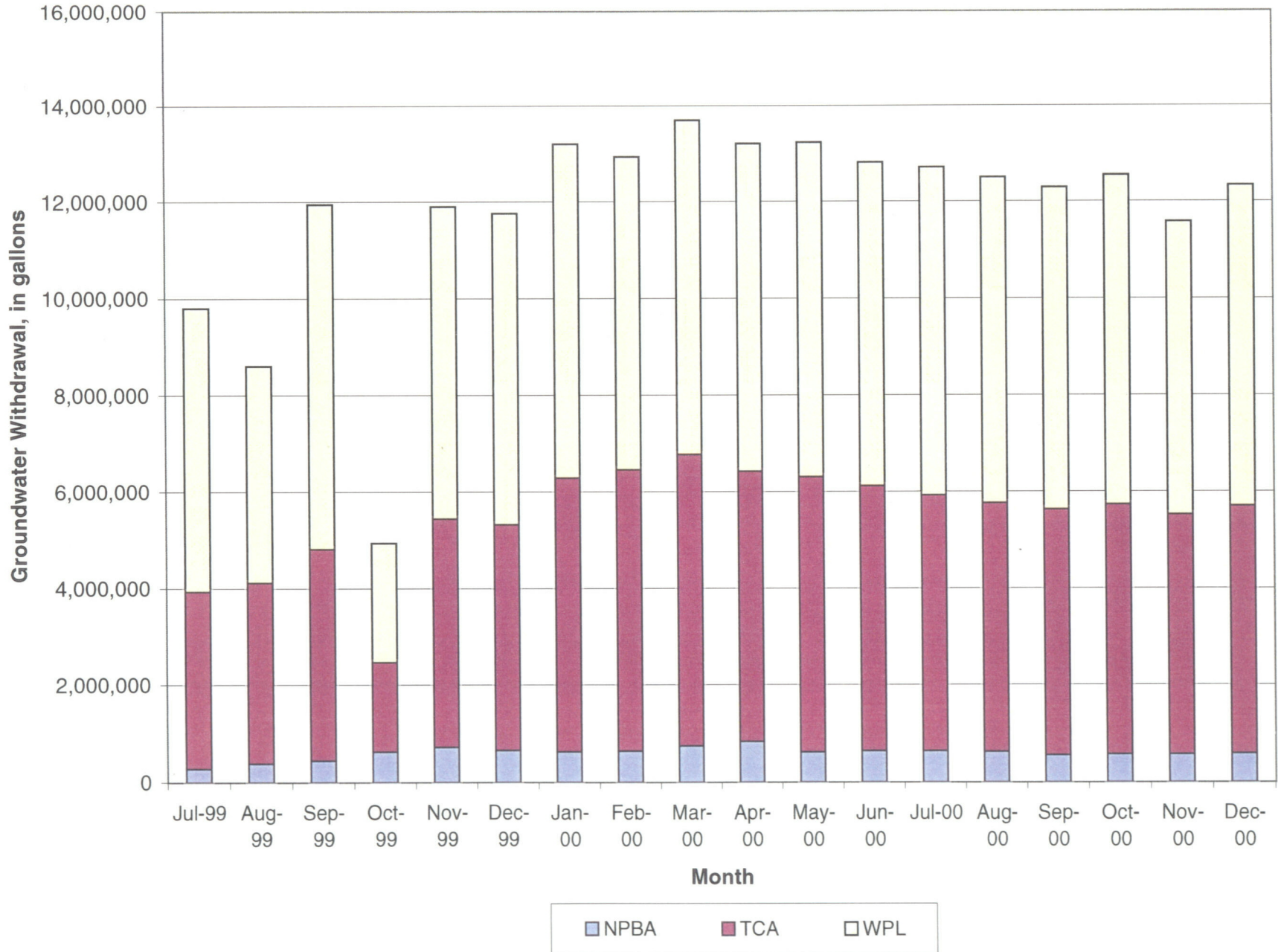
**Figure 4-2**  
**Record of Tower Influent Chemistry**  
Individual VOC Concentrations  
Start-up through December 31, 2000



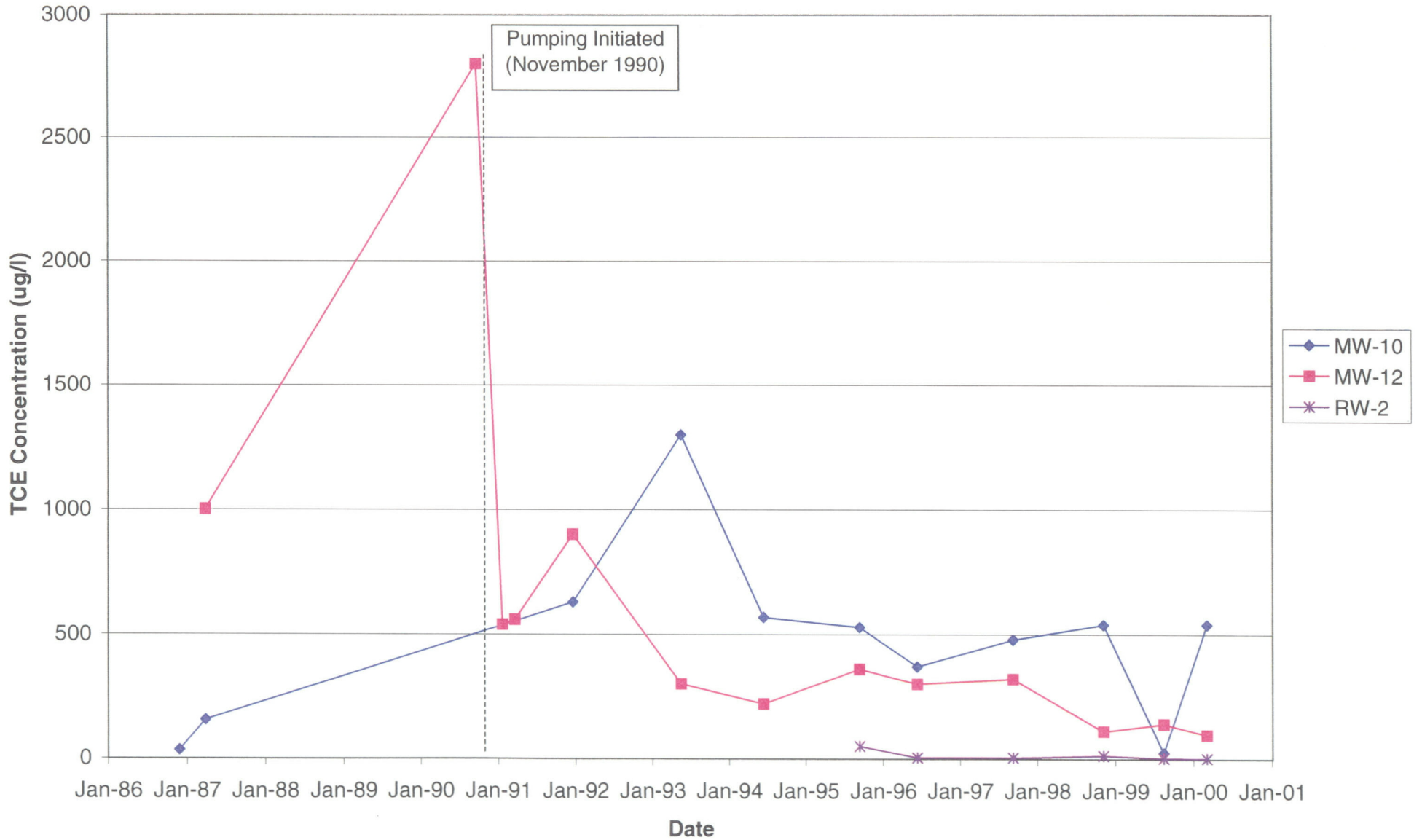
### Figure 5-1

#### Groundwater Withdrawals

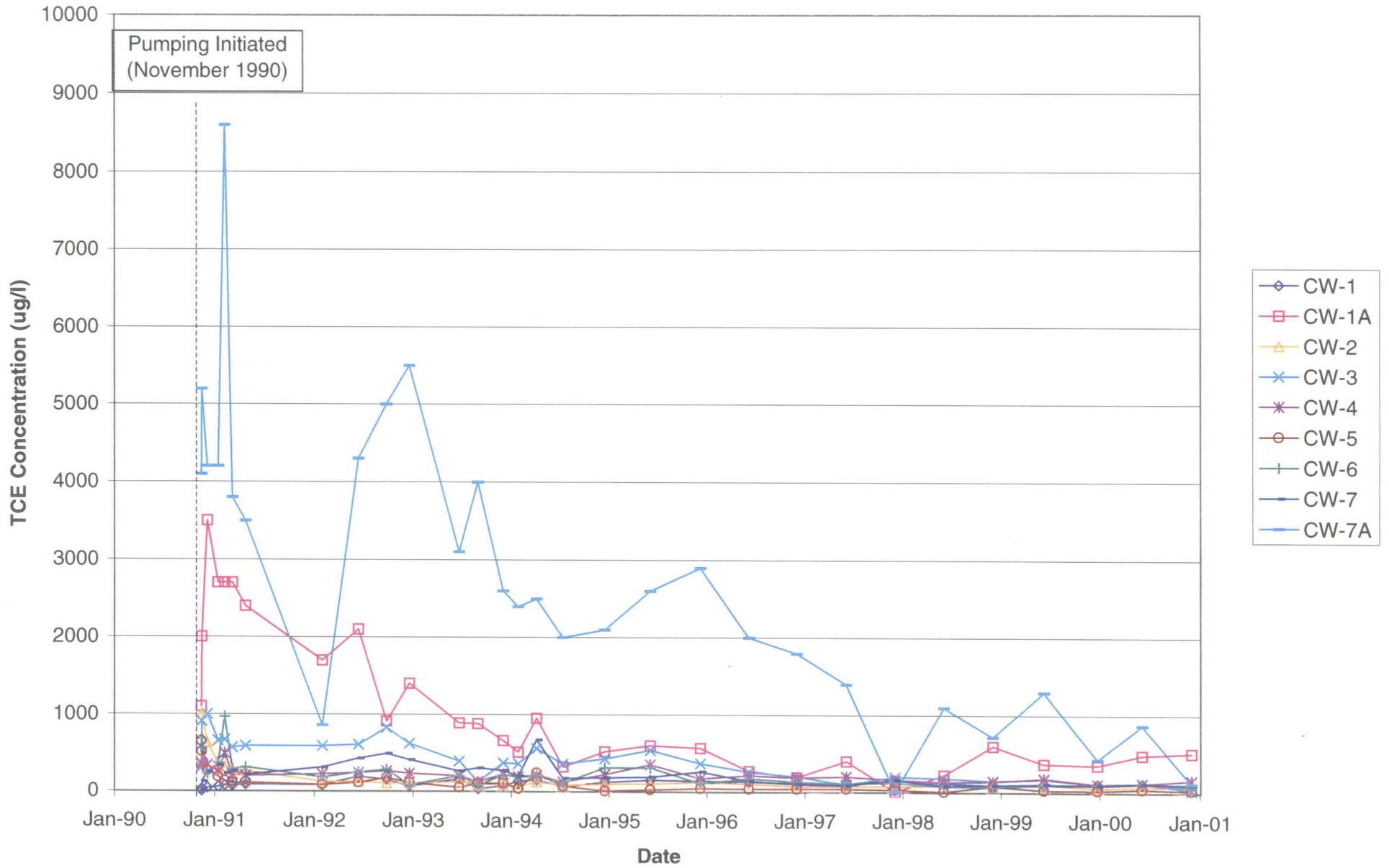
Gallons Per Month for Each Extraction Area



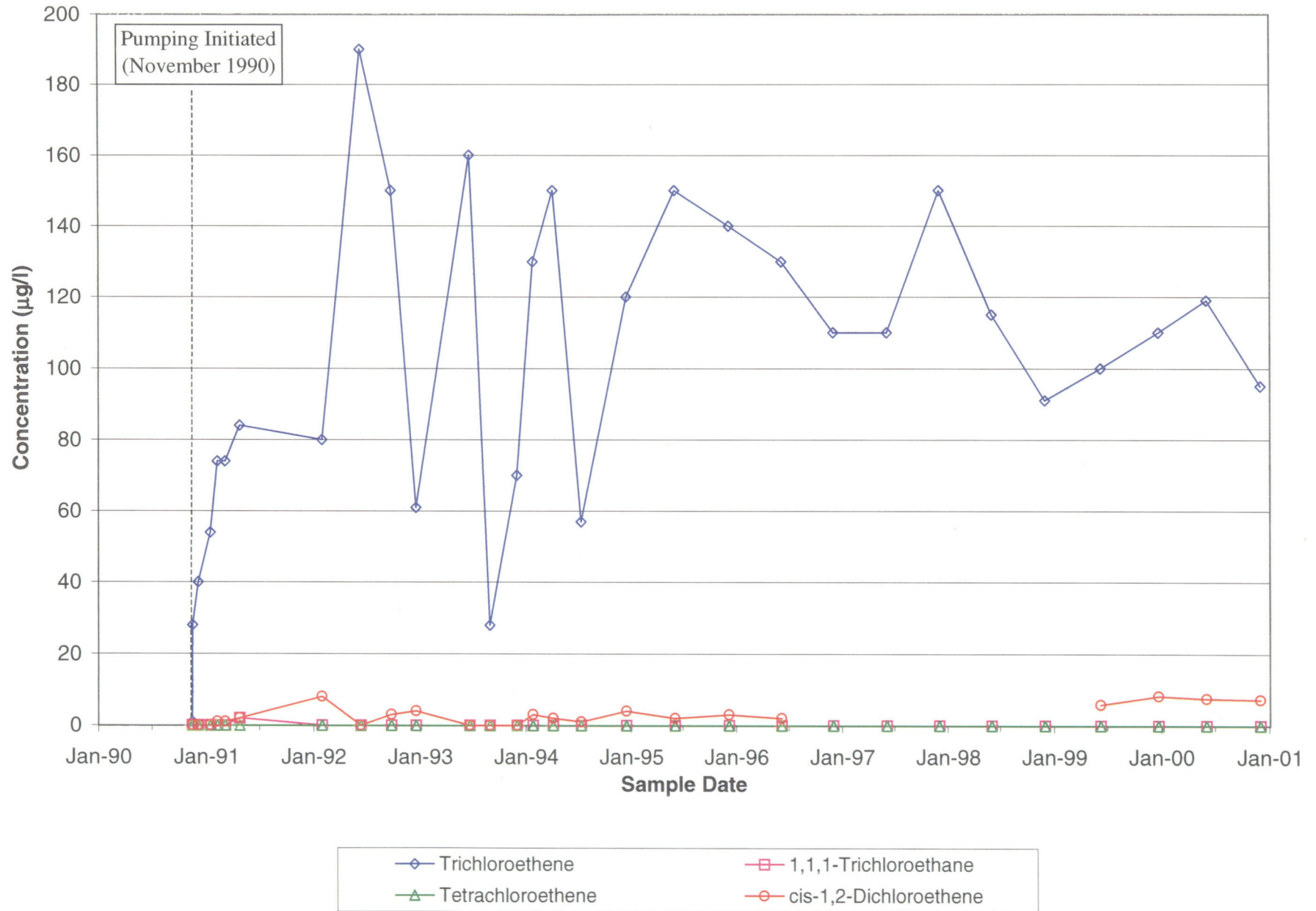
**Figure 5-2**  
**TCE in NPBA Key Monitoring Wells**  
Harley-Davidson Motor Company



**Figure 5-3**  
**TCE in NPBA Collection Wells**  
 Harley-Davidson Motor Company

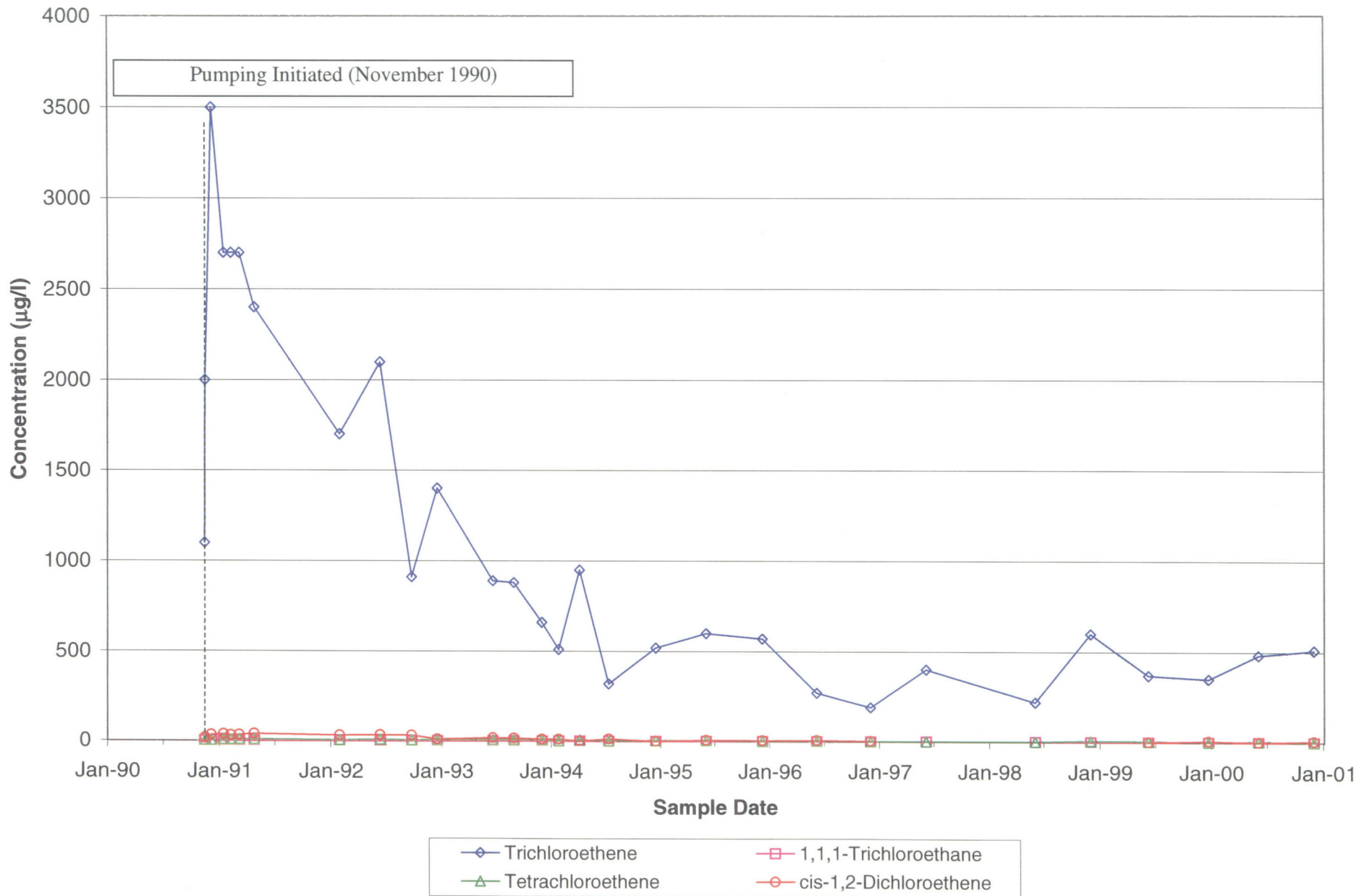


**Figure 5-4**  
**Predominant VOC Concentrations**  
**Extraction Well CW-1**

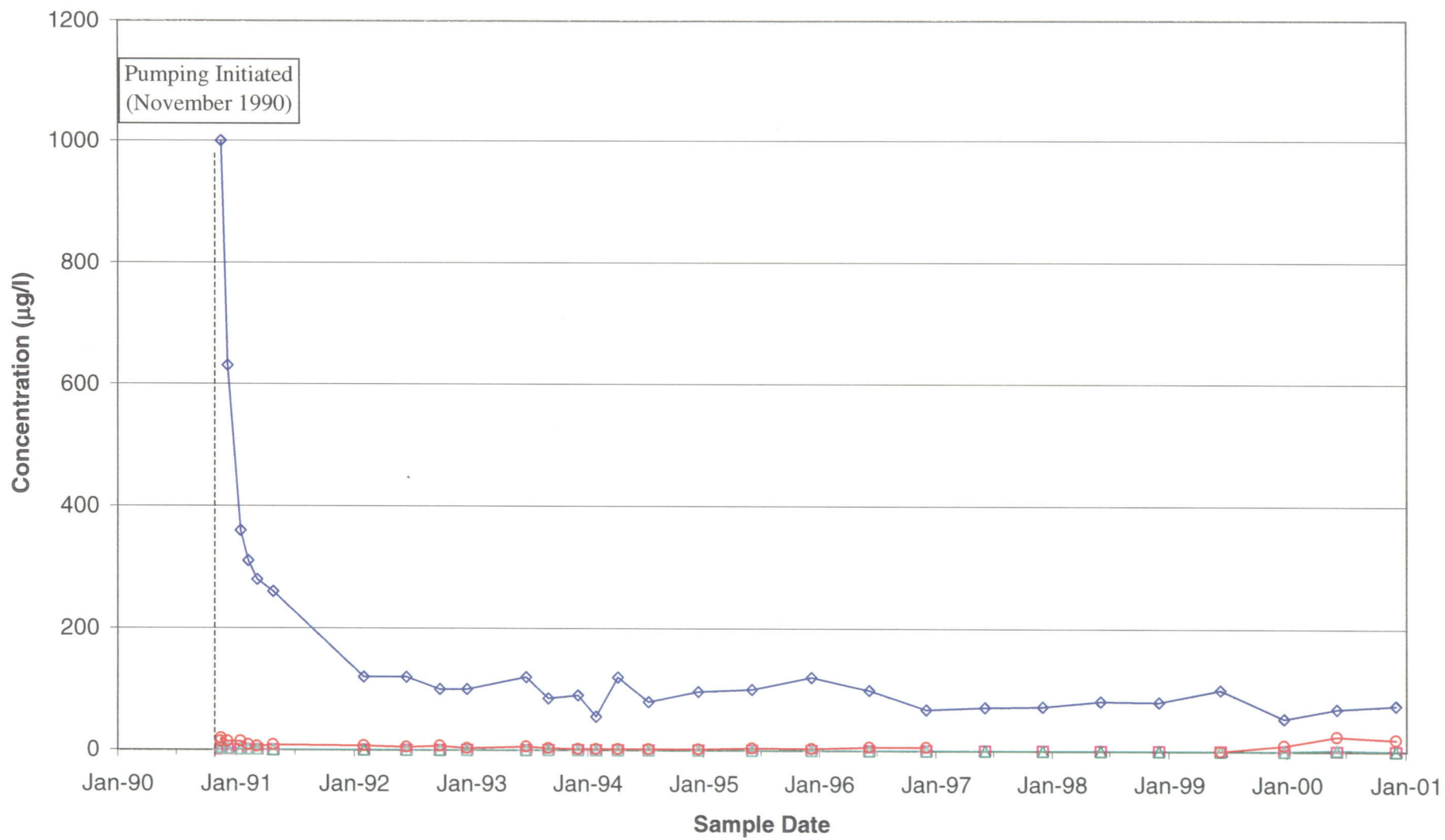




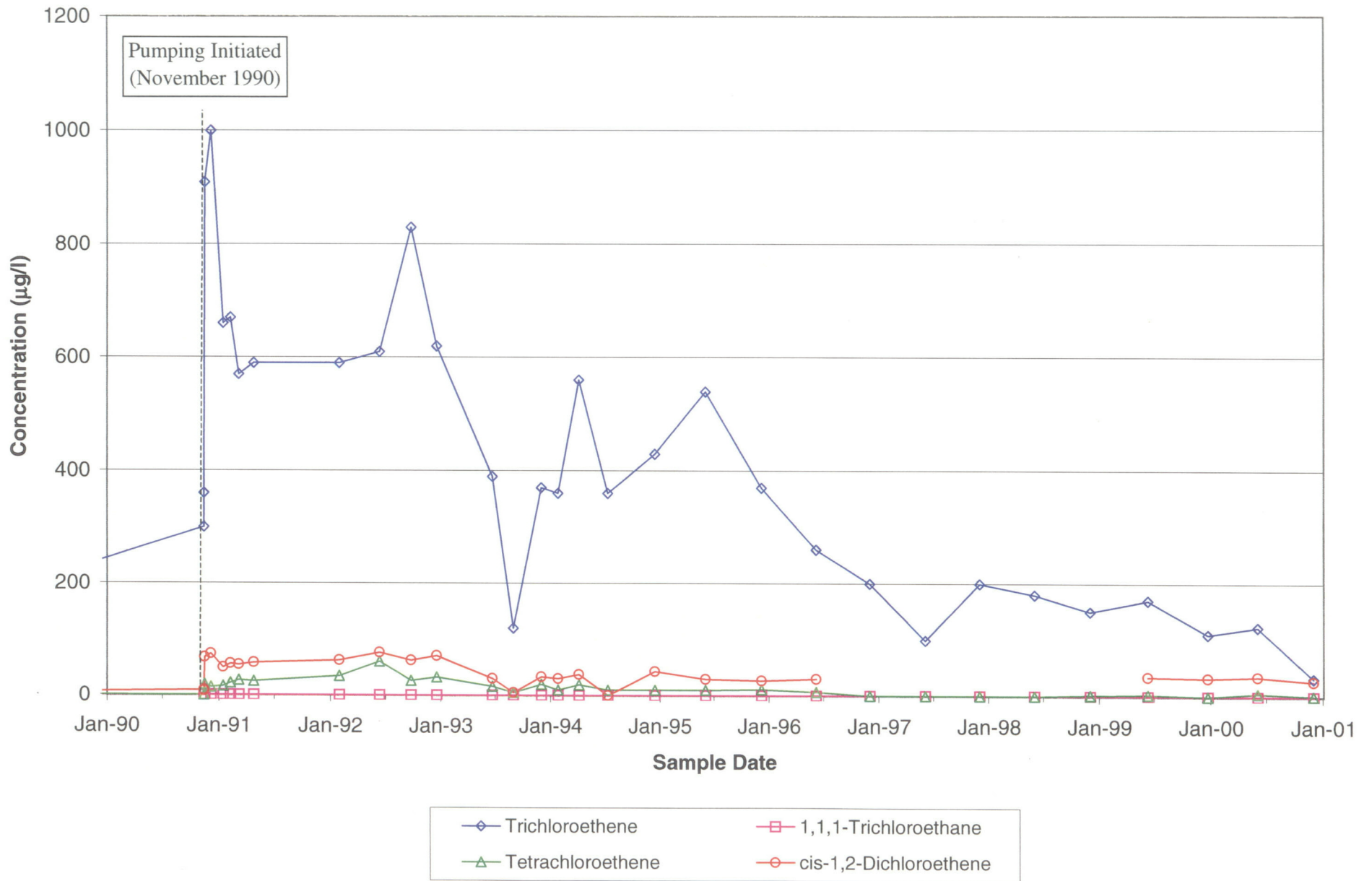
**Figure 5-5**  
**Predominant VOC Concentrations**  
**Extraction Well CW-1A**



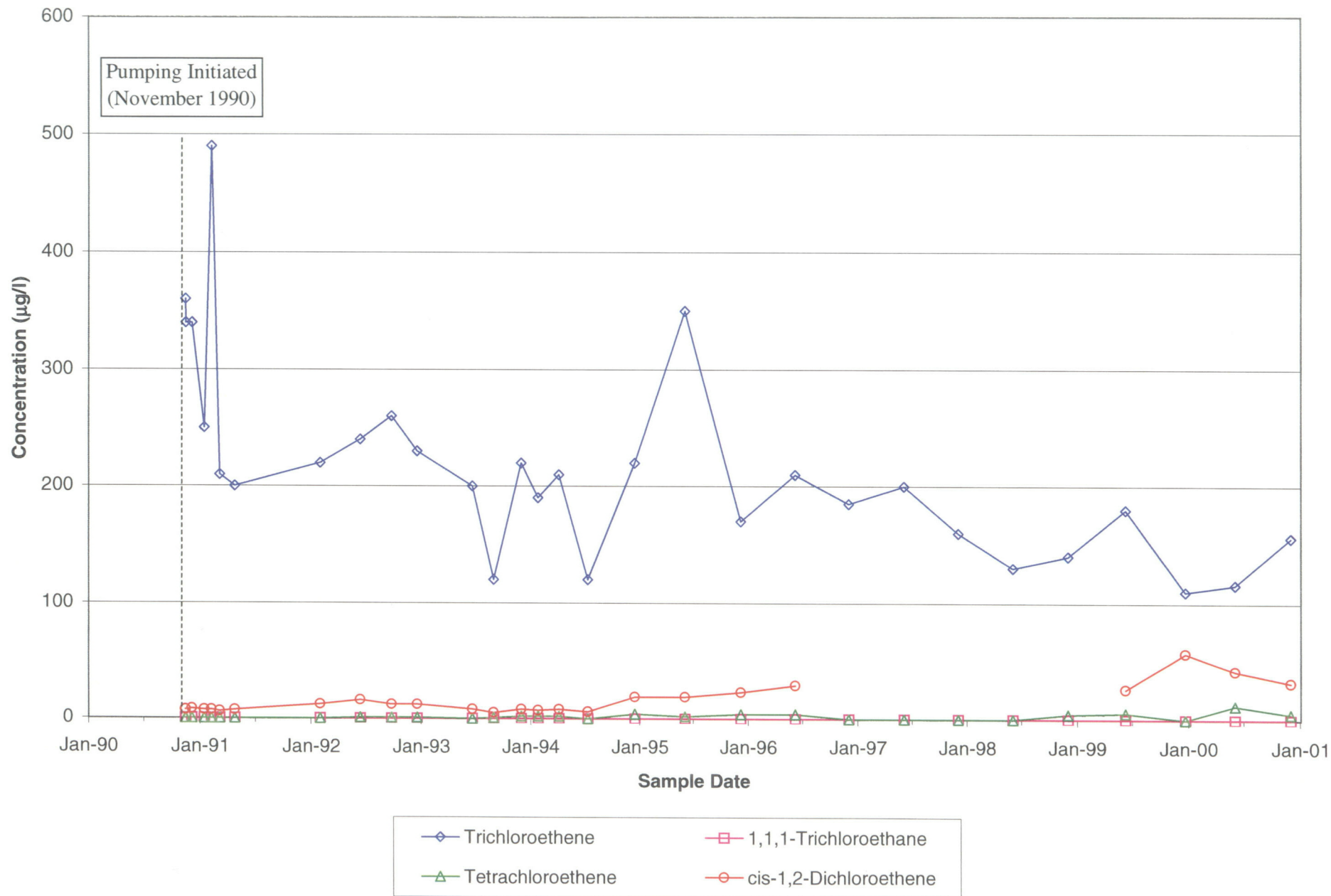
**Figure 5-6**  
**Predominant VOC Concentrations**  
**Extraction Well CW-2**



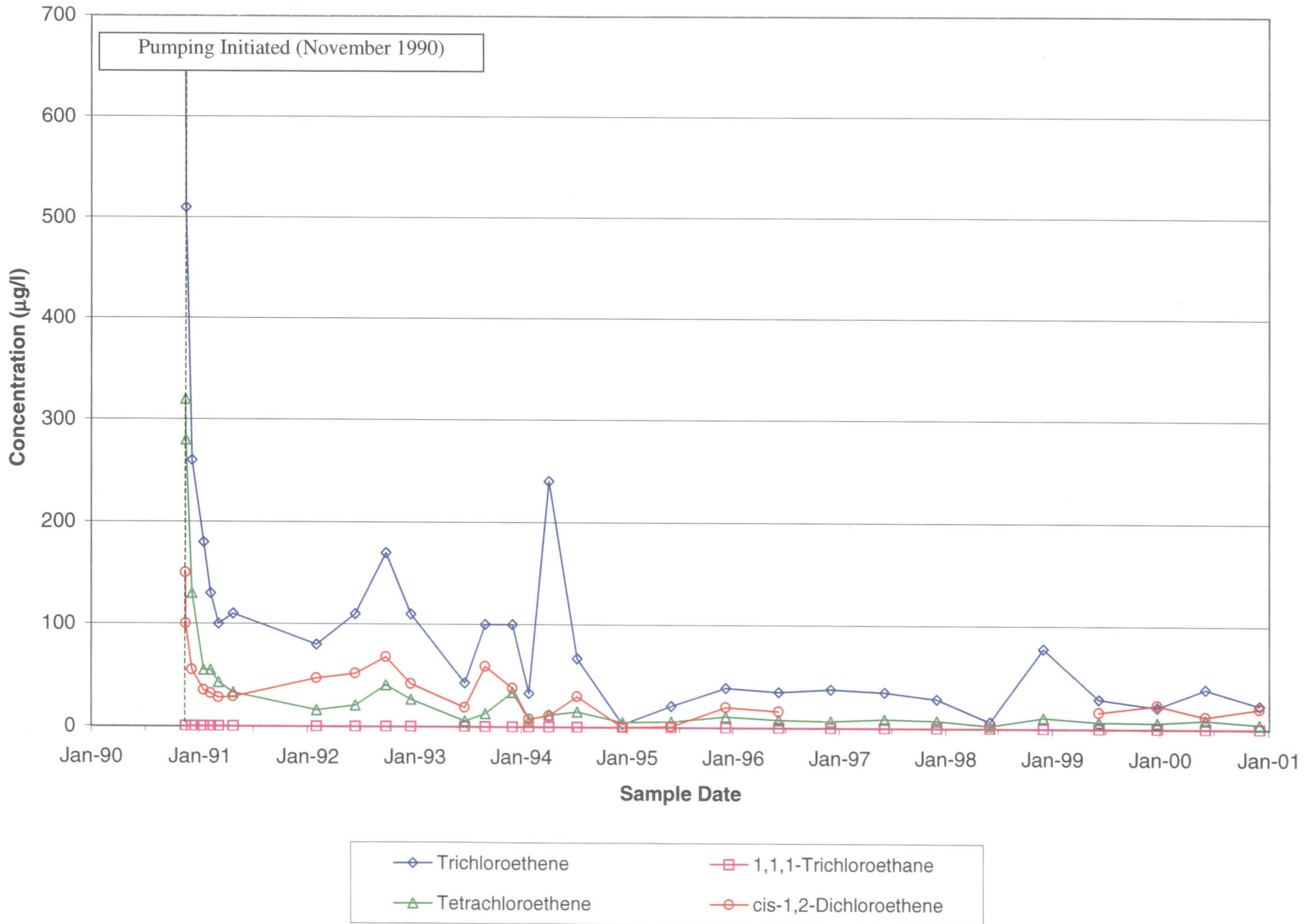
**Figure 5-7**  
**Predominant VOC Concentrations**  
**Extraction Well CW-3**



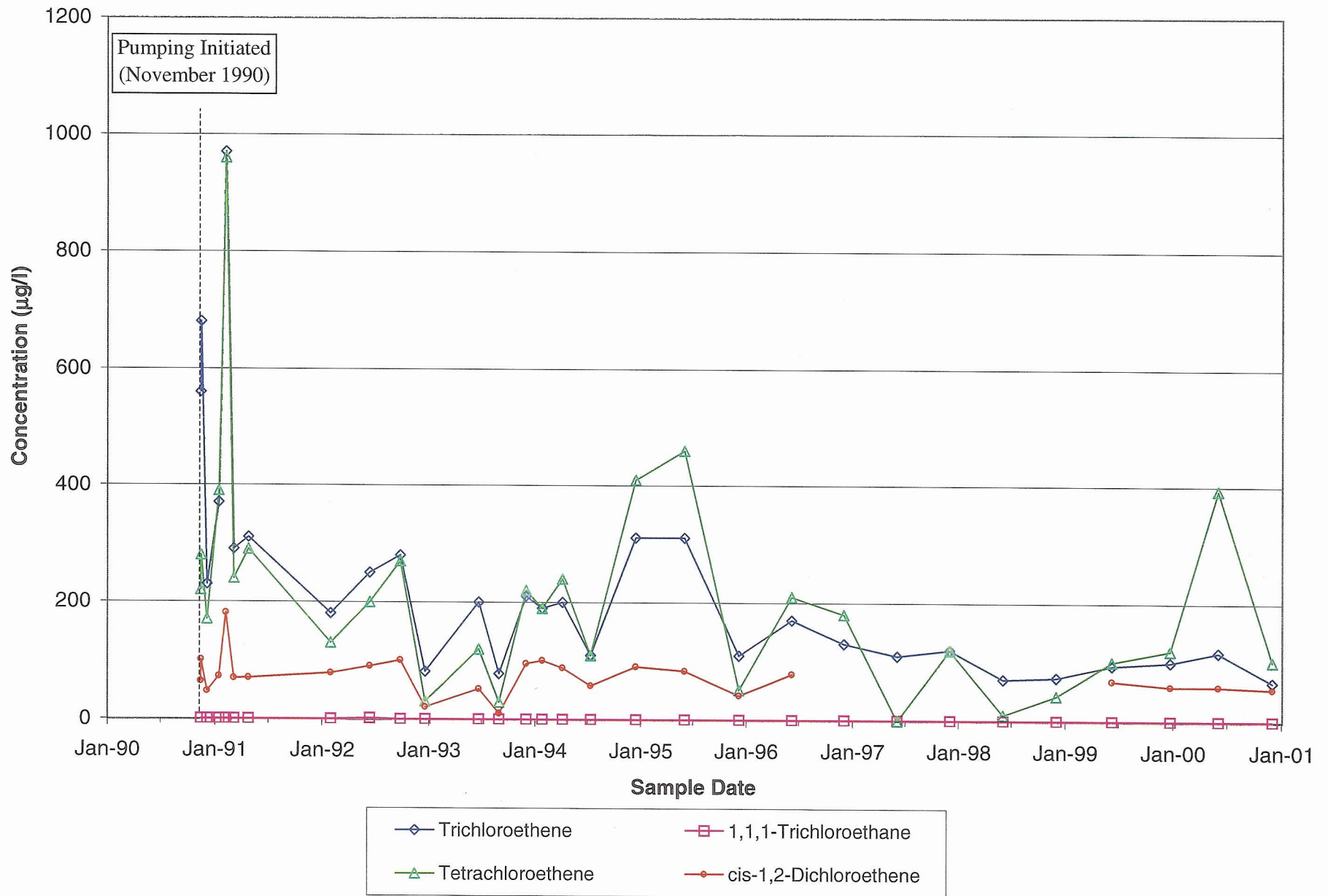
**Figure 5-8**  
**Predominant VOC Concentrations**  
**Extraction Well CW-4**



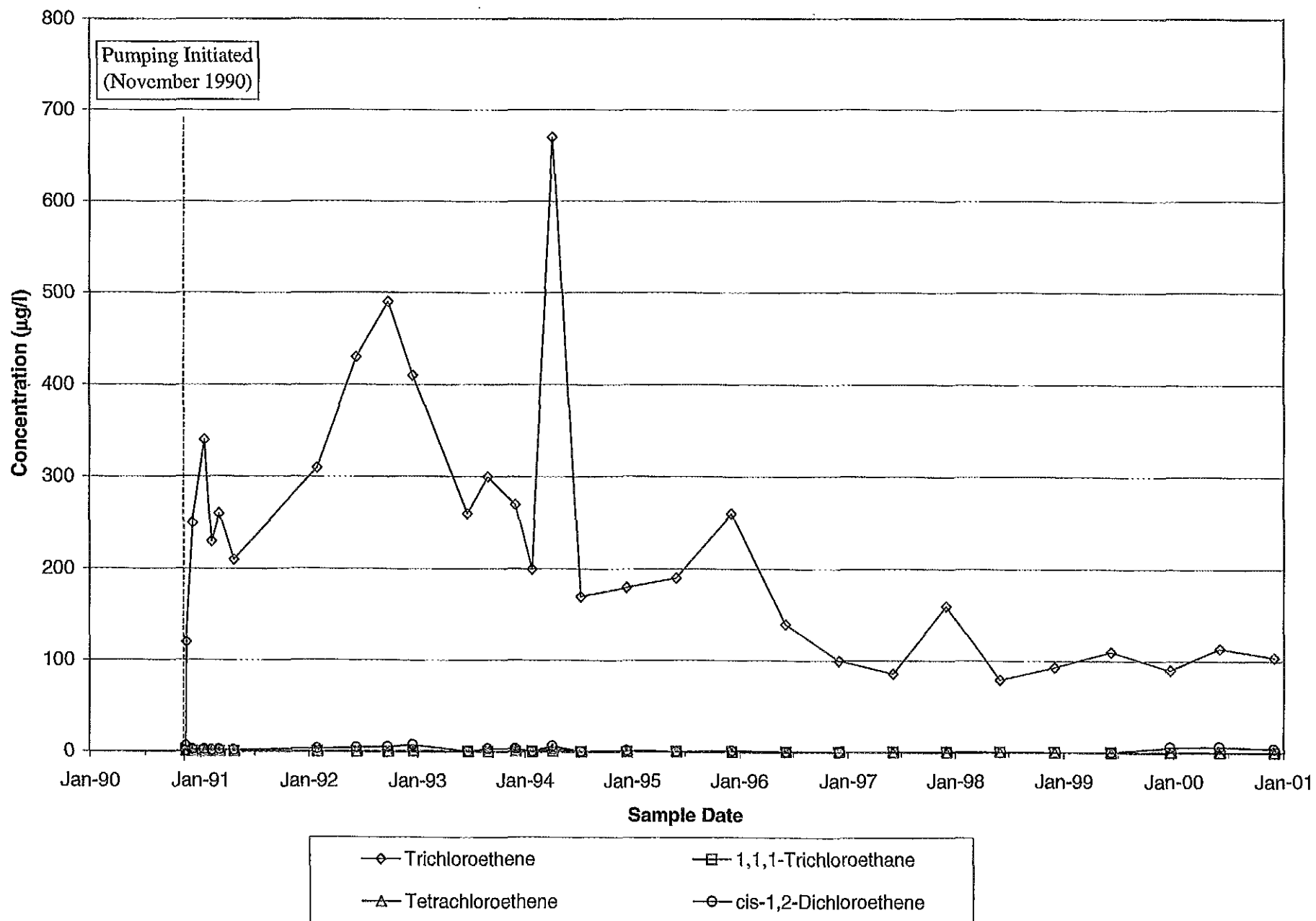
**Figure 5-9**  
**Predominant VOC Concentrations**  
**Extraction Well CW-5**



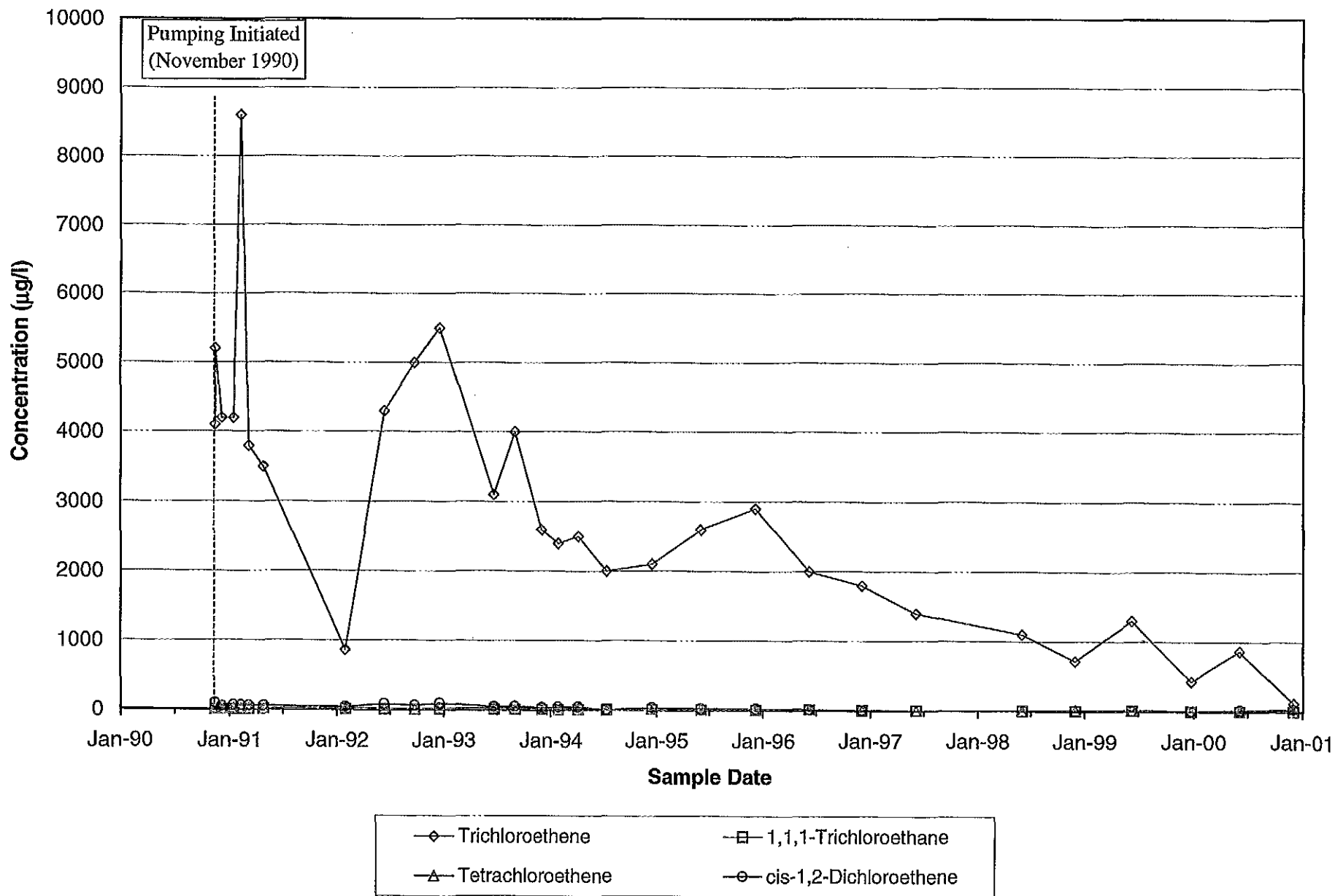
**Figure 5-10**  
**Predominant VOC Concentrations**  
**Extraction Well CW-6**



**Figure 5-11**  
**Predominant VOC Concentrations**  
**Extraction Well CW-7**

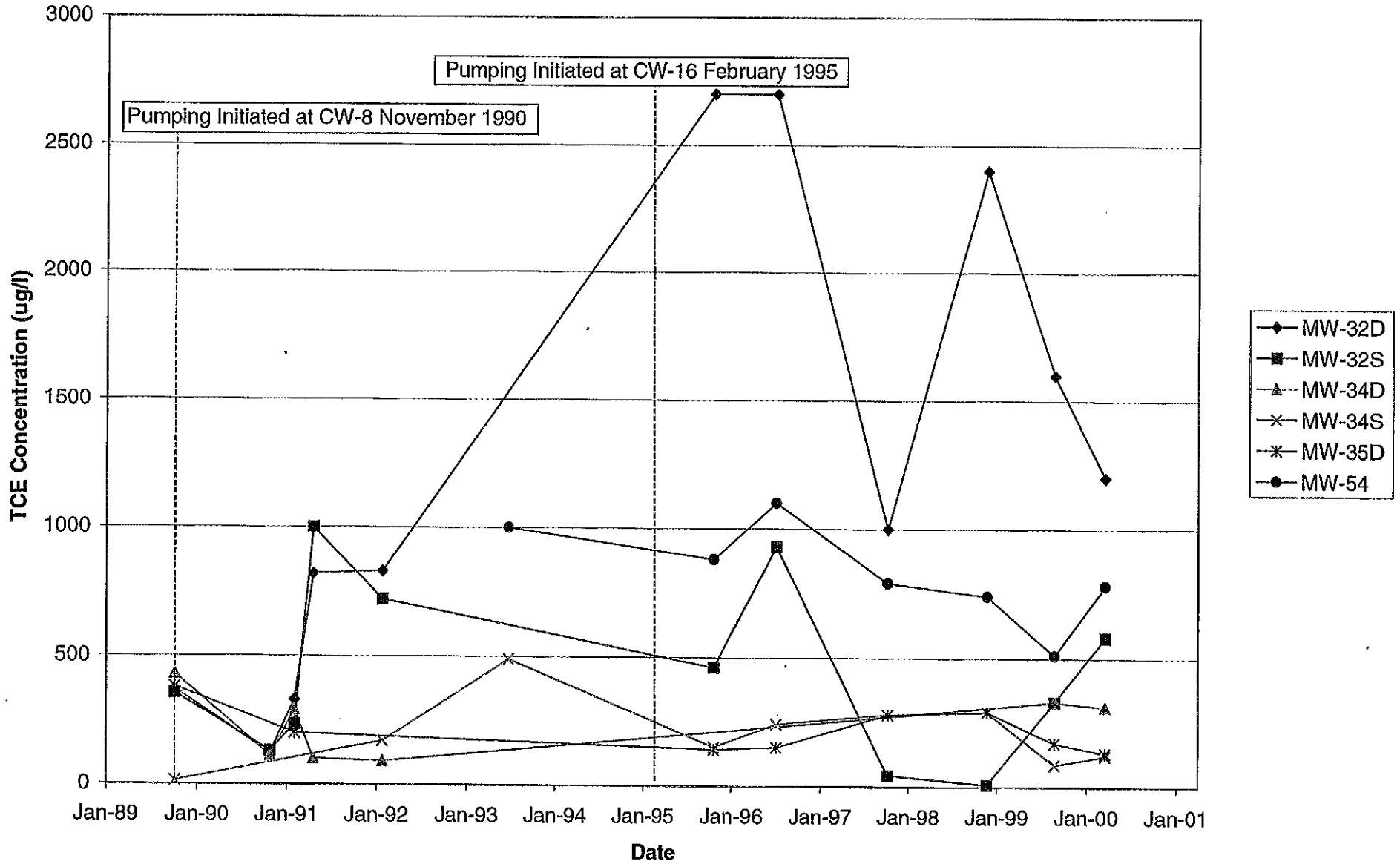


**Figure 5-12**  
**Predominant VOC Concentrations**  
**Extraction Well CW-7A**

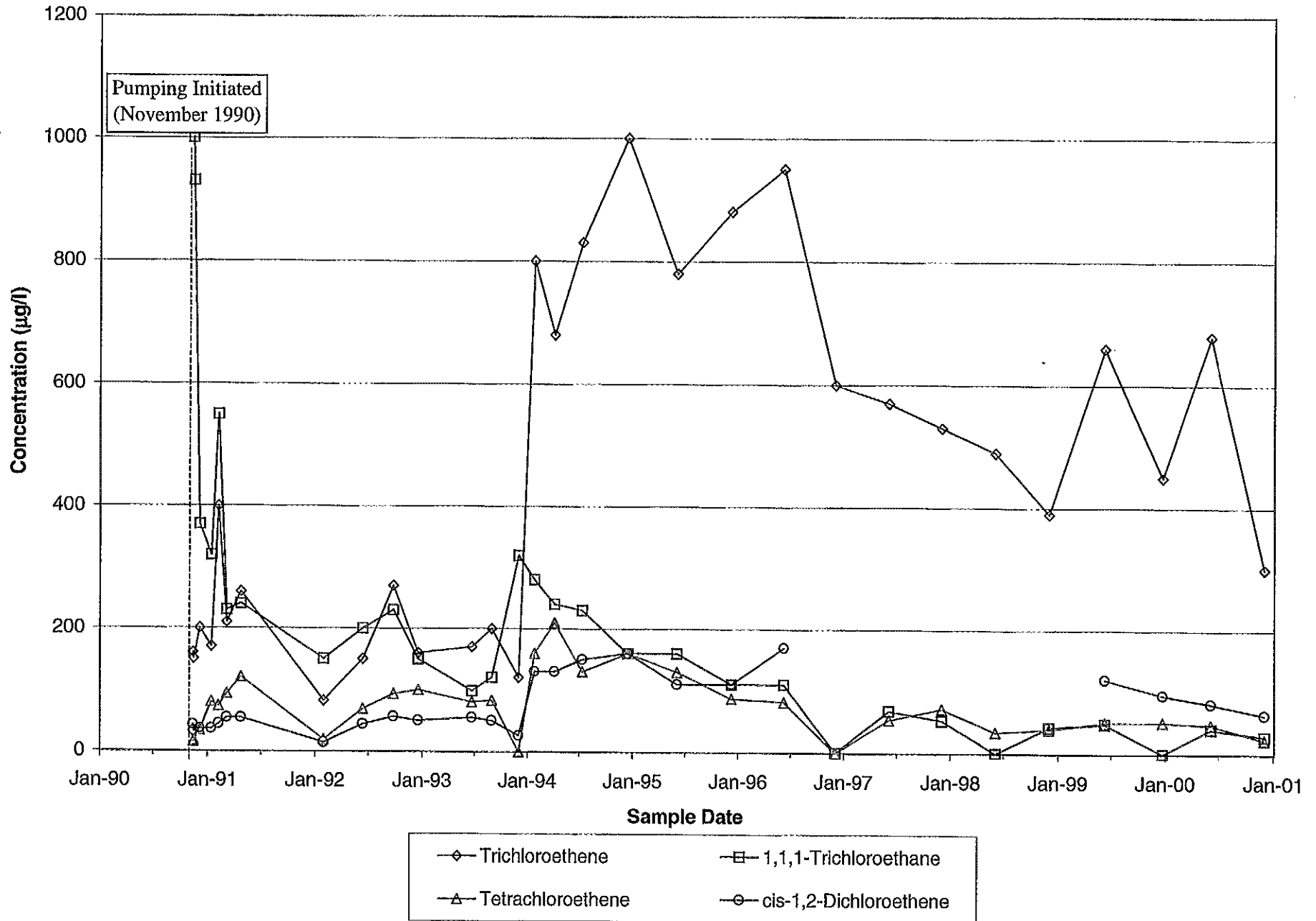




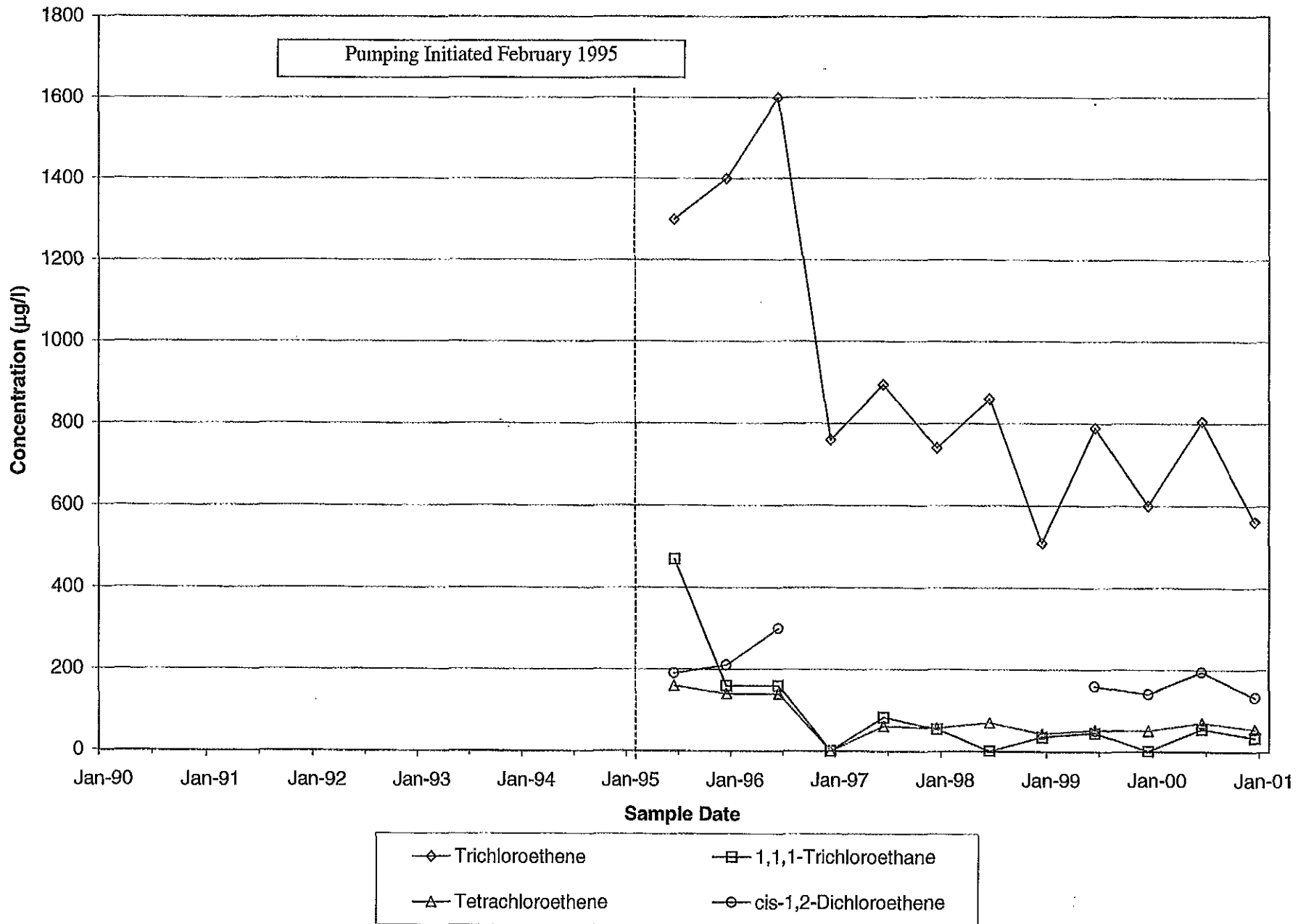
**Figure 6-1**  
**TCE in TCA Area Monitoring Wells**  
 Harley-Davidson Motor Company



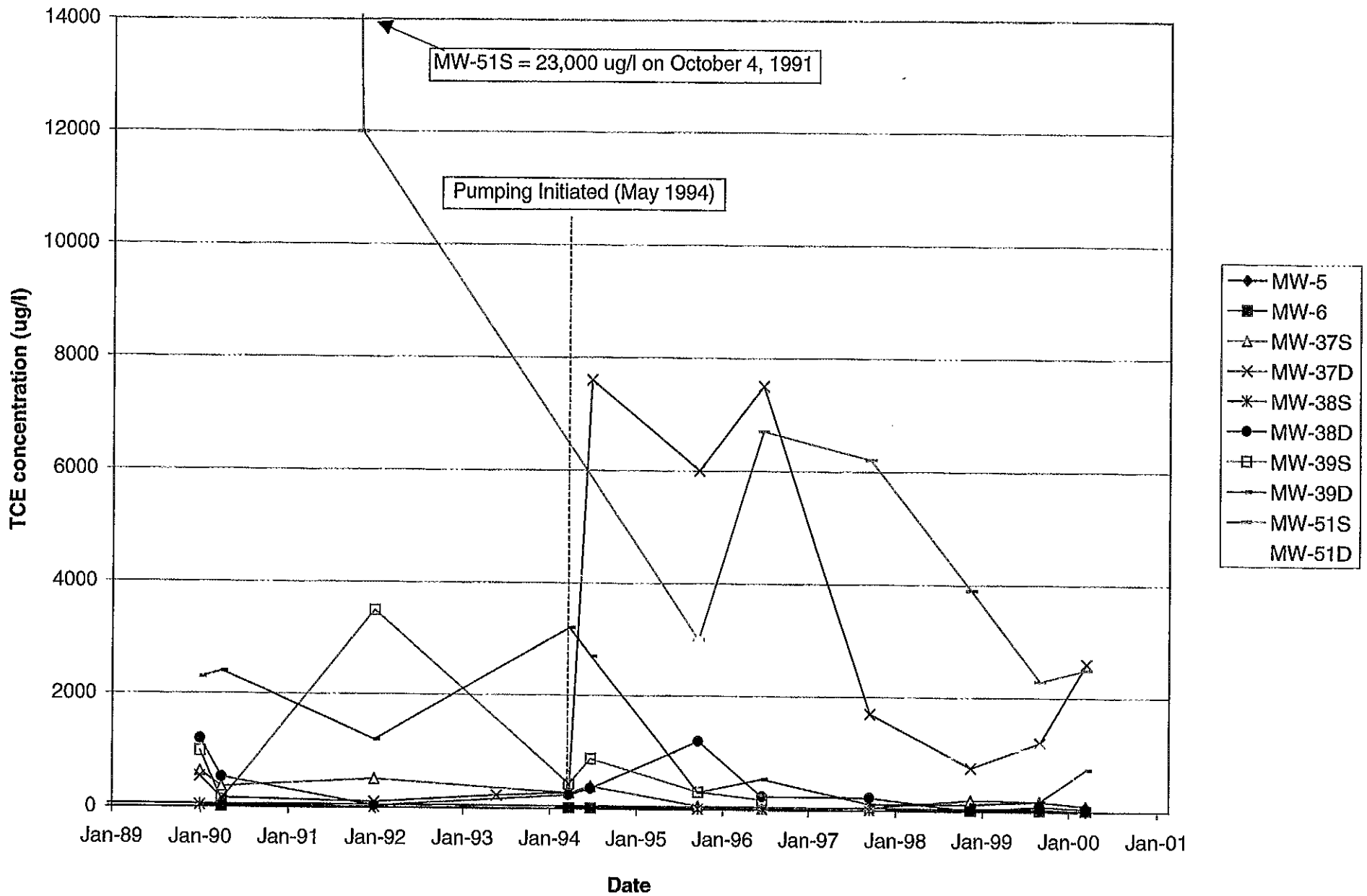
**Figure 6-2**  
**Predominant VOC Concentrations**  
**Extraction Well CW-8**



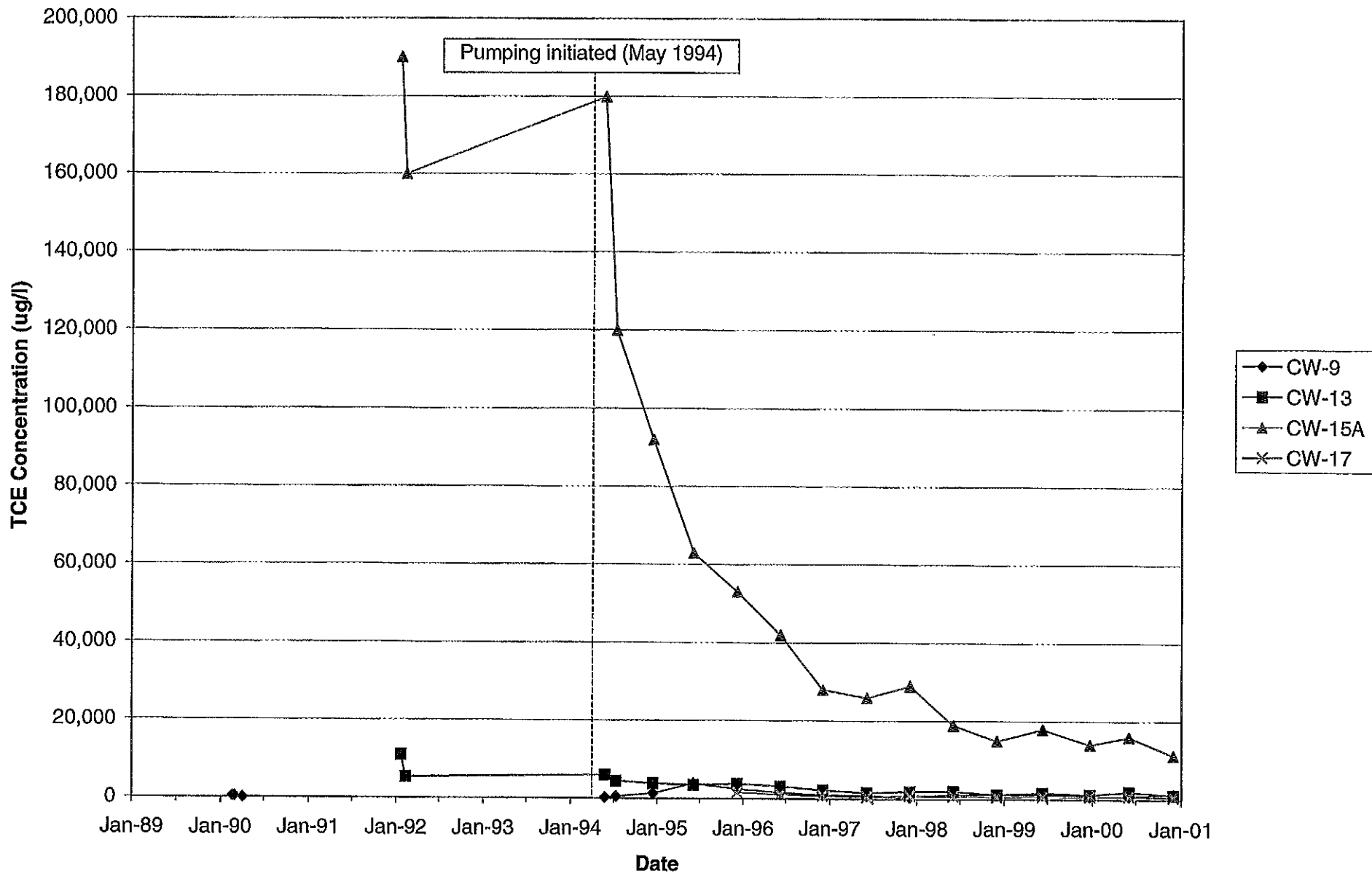
**Figure 6-3**  
**Predominant VOC Concentrations**  
**Extraction Well CW-16**



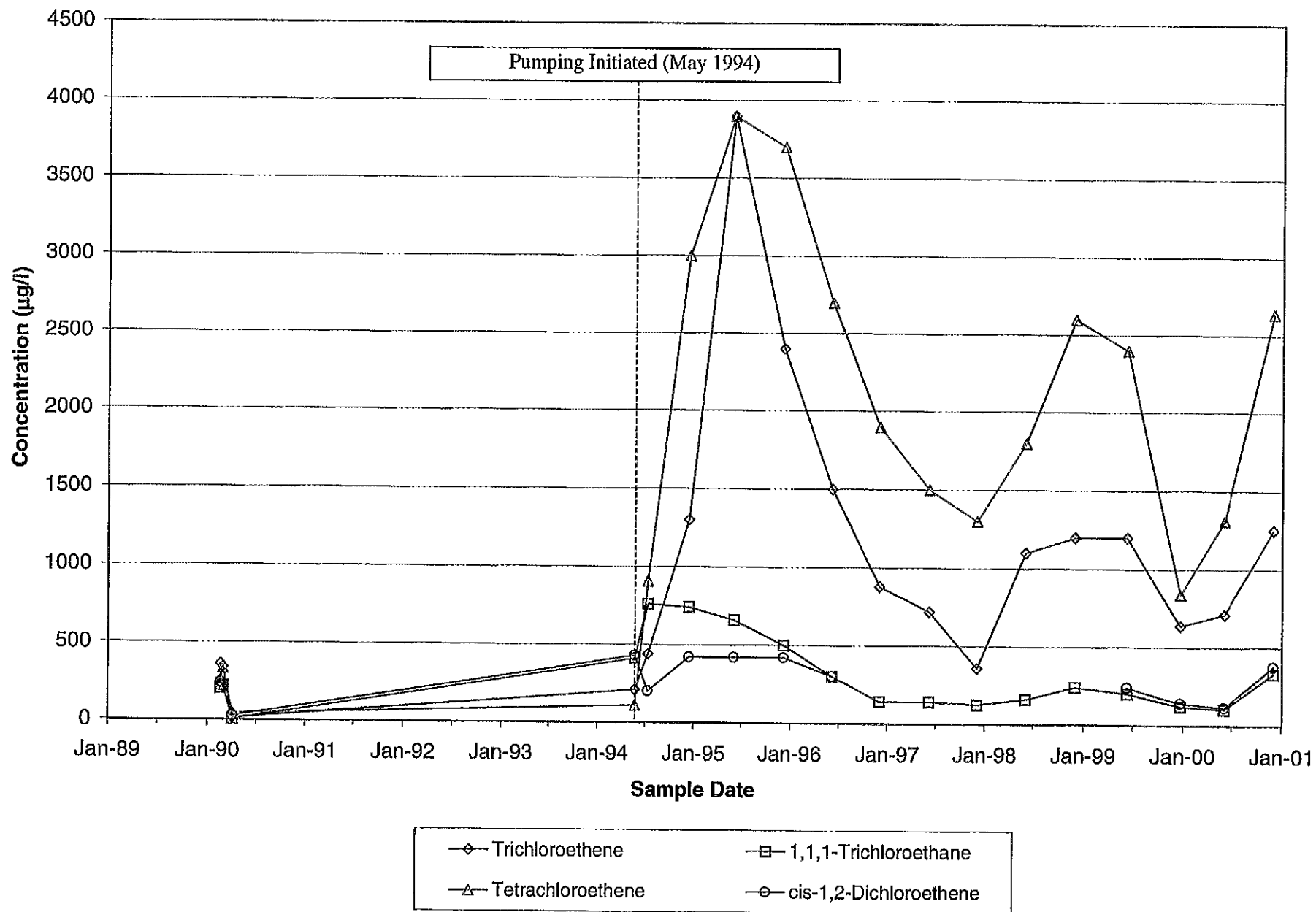
**Figure 7-1**  
**TCE in WPL Monitoring Wells**  
 Harley-Davidson Motor Company



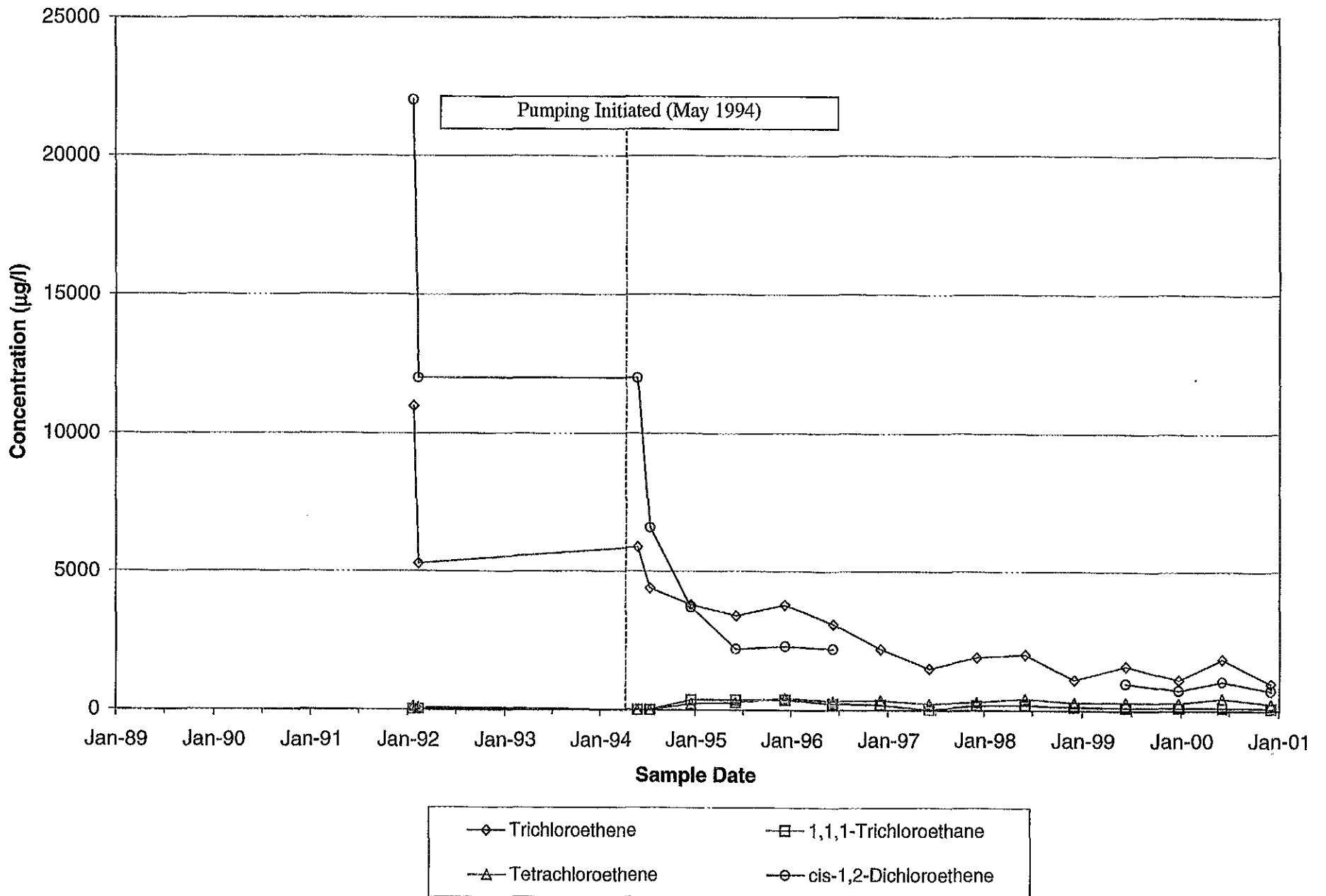
**Figure 7-2**  
**TCE in WPL Collection Wells**  
 Harley-Davidson Motor Company



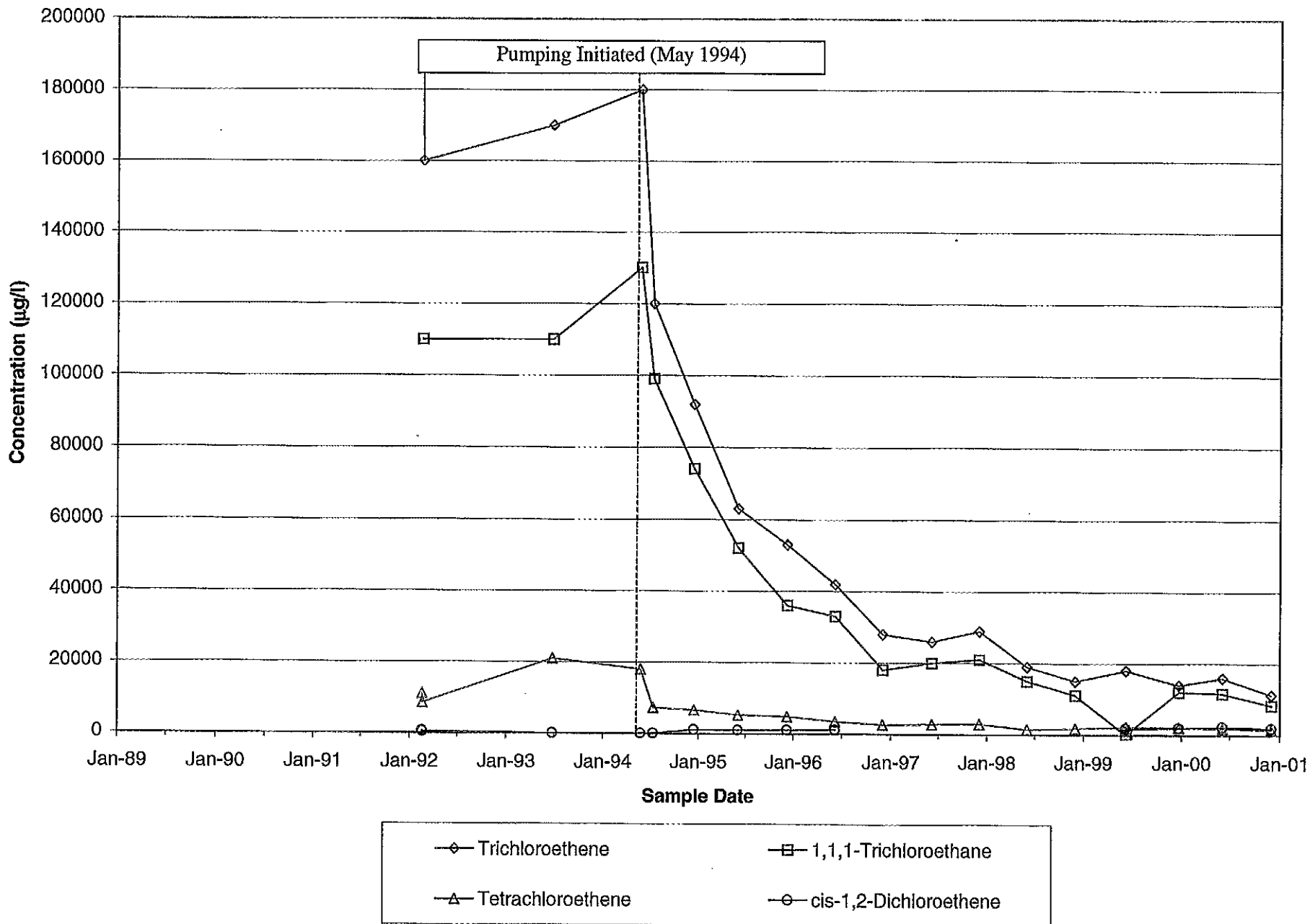
**Figure 7-3**  
**Predominant VOC Concentrations**  
**Extraction Well CW-9**



**Figure 7-4**  
**Predominant VOC Concentrations**  
**Extraction Well CW-13**

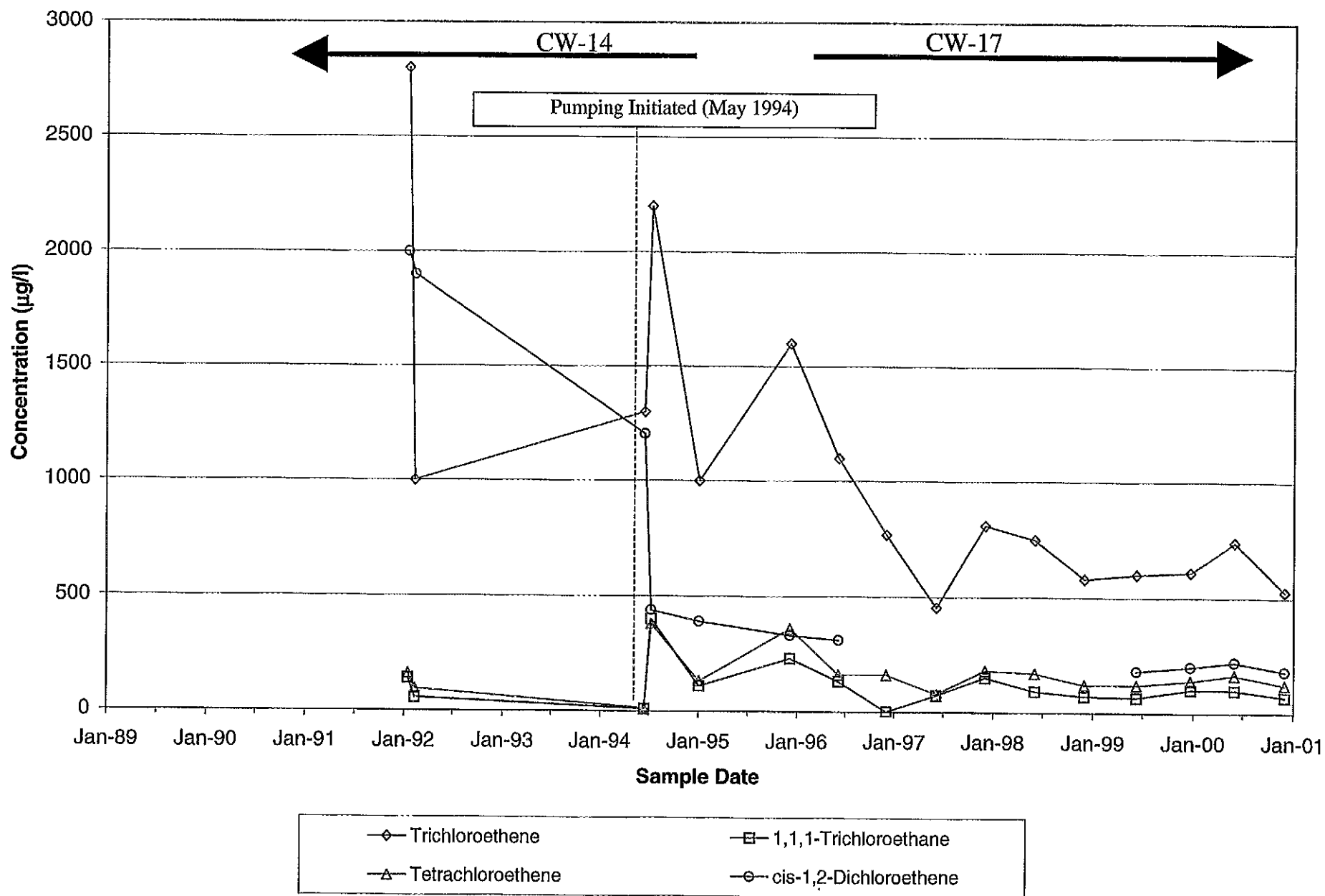


**Figure 7-5**  
**Predominant VOC Concentrations**  
**Extraction Well CW-15A**





**Figure 7-6**  
**Predominant VOC Concentrations**  
**Extraction Wells CW-14 and CW-17**



**Figure 8-1**  
**TCE in SPBA Monitoring Wells**  
 Harley-Davidson Motor Company

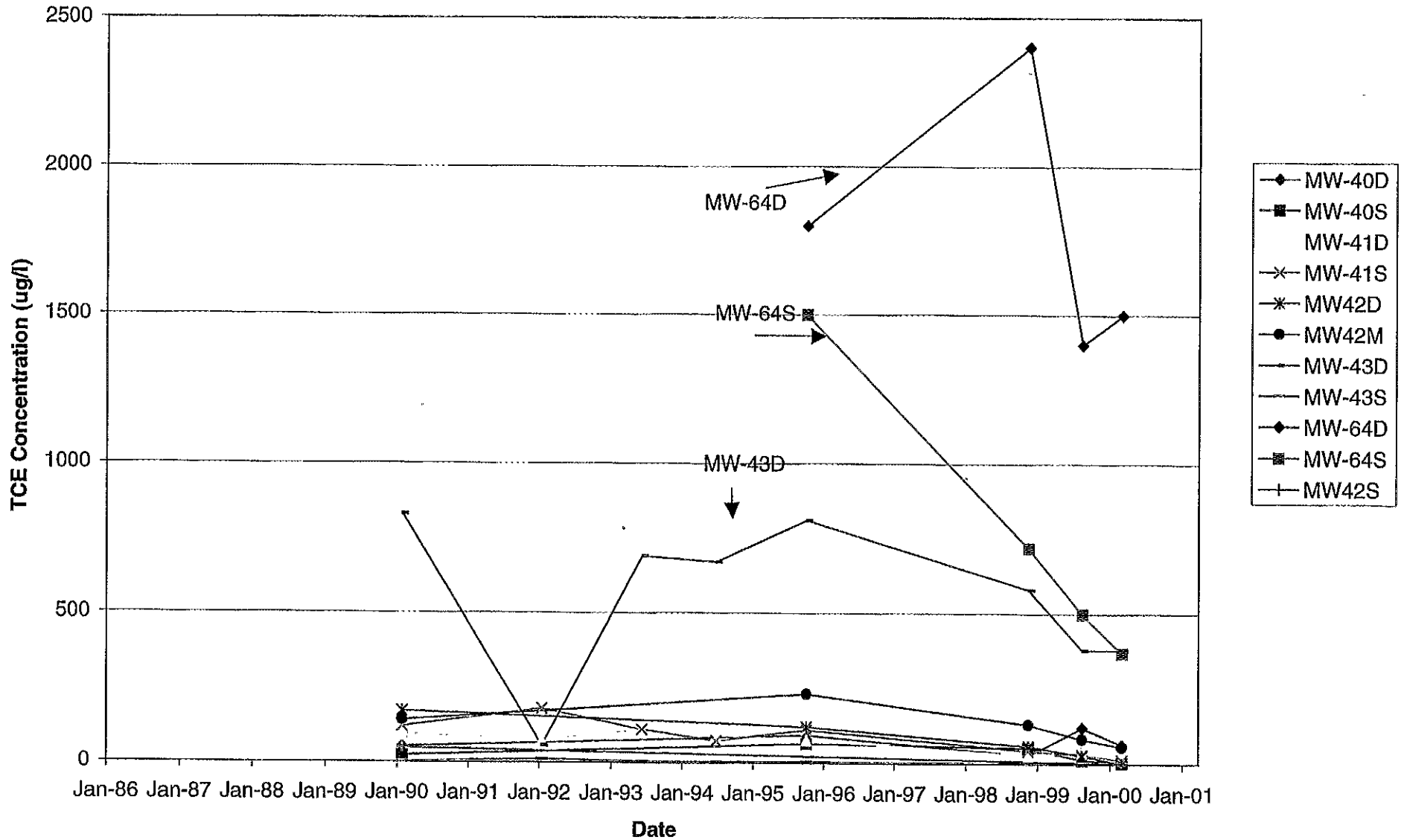


Figure 9-1  
TCE in Eastern Area Monitoring Wells  
Harley Davidson Motor Company

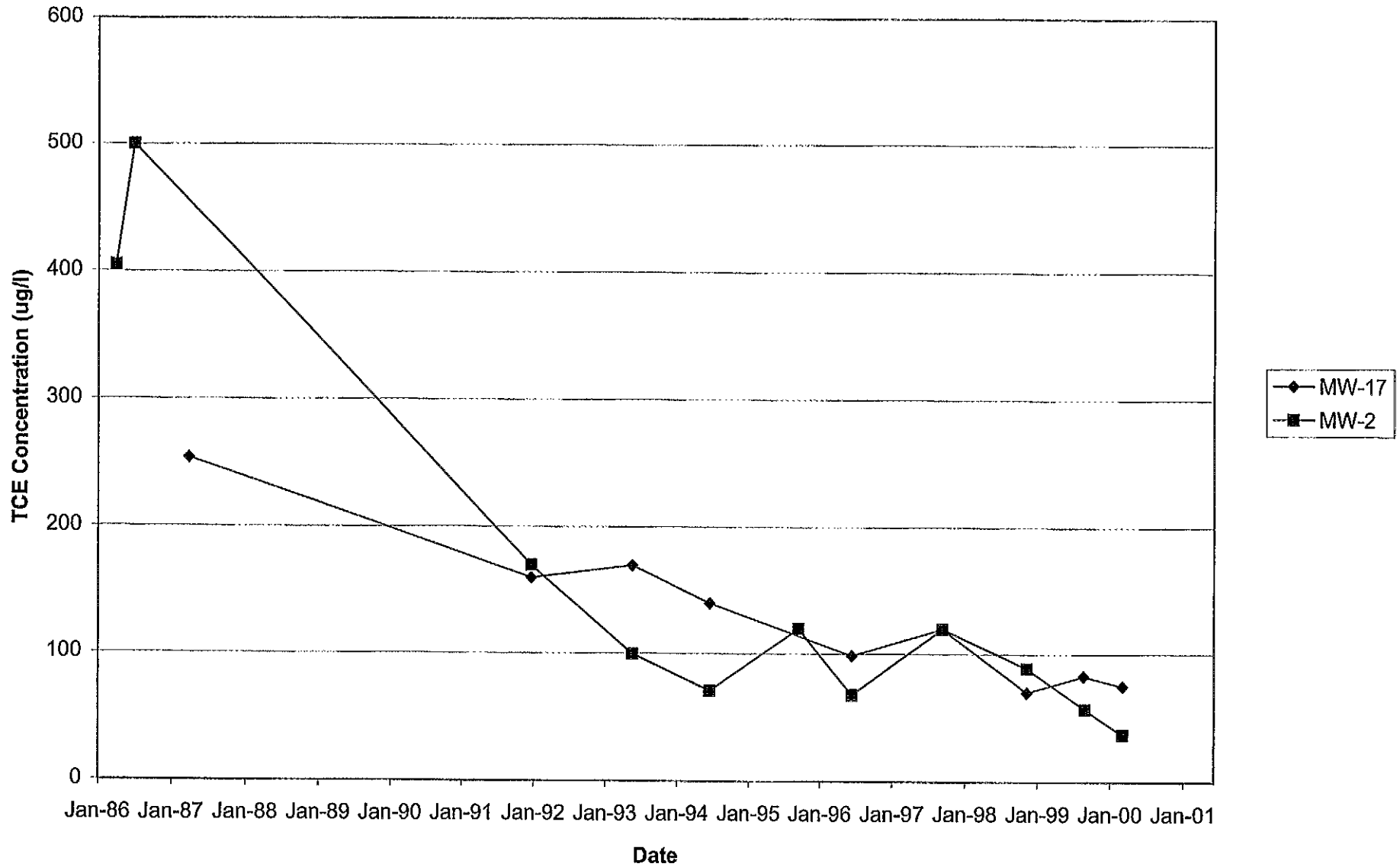
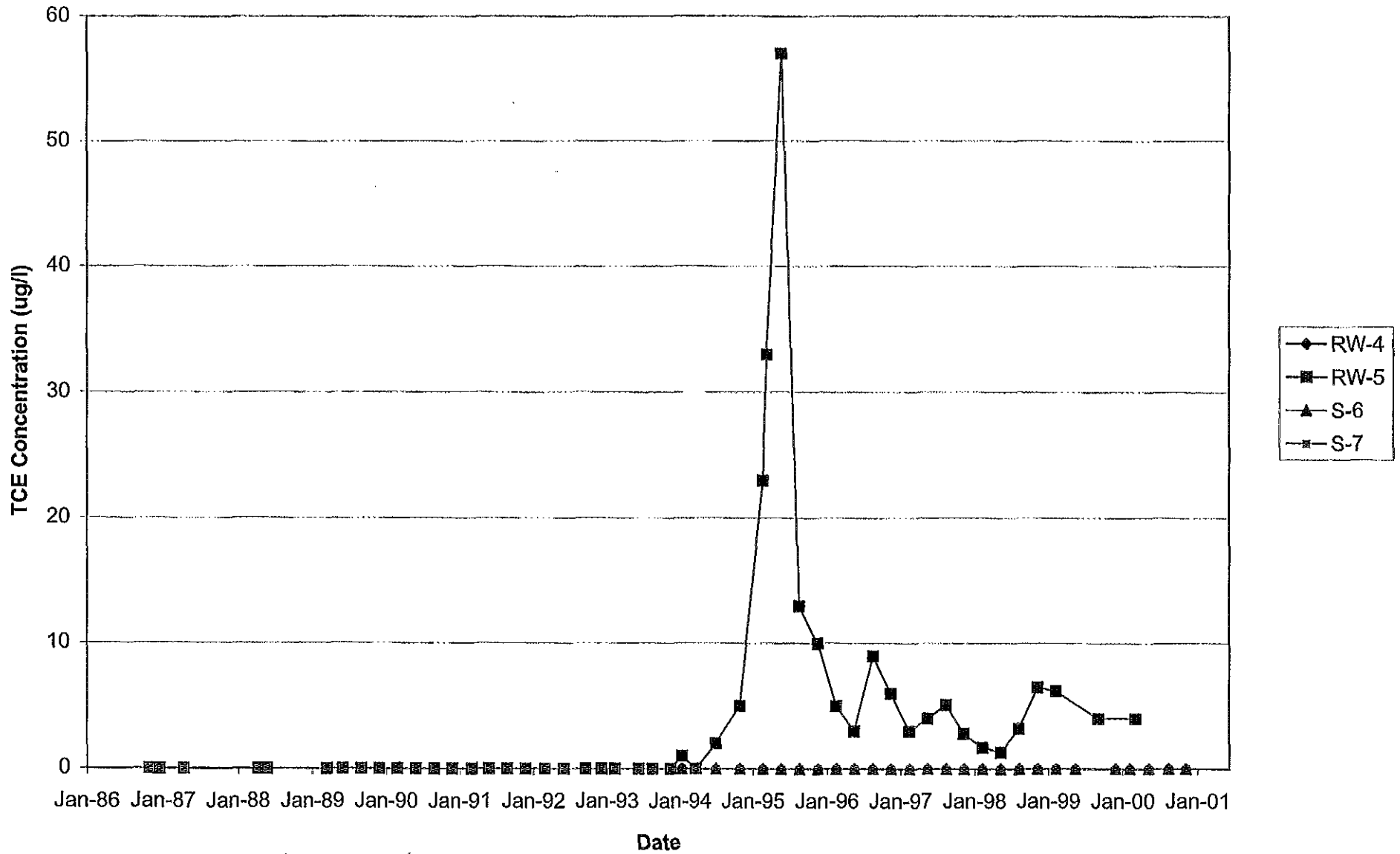


Figure 10-1  
TCE in Off-Site Wells  
Harley-Davidson Motor Company



**TABLES**

TABLE 4-1  
VOCs REMOVED FROM COLLECTED GROUNDWATER  
GROUNDWATER TREATMENT SYSTEM  
JULY 1, 1999 - DECEMBER 31, 2000  
Harley - Davidson Motor Company

| DATE         | MONTHLY<br>GROUNDWATER<br>WITHDRAWAL<br>(PTA Totalizer, gallons) | AVERAGE<br>MONTHLY<br>TOTAL VOCs<br>(ppb) | ESTIMATED<br>MONTHLY VOC<br>REMOVAL<br>(pounds) |
|--------------|--|---|---|
| Jul-99       | 10,504,600   | 1476                                      | 129   |
| Aug-99       | 10,972,200   | 1446 *                                    | 132   |
| Sep-99       | 11,974,300   | 1446 *                                    | 145   |
| Oct-99       | 5,179,600  | 1416                                      | 61  |
| Nov-99       | 11,971,700   | 1419 *                                    | 142   |
| Dec-99       | 11,789,500   | 1419 *                                    | 140   |
| Jan-00       | 12,517,800   | 1421                                      | 149   |
| Feb-00       | 12,268,033   | 1284 *                                    | 132   |
| Mar-00       | 13,736,266   | 1284 *                                    | 147   |
| Apr-00       | 13,447,300   | 1147                                      | 129   |
| May-00       | 13,675,100   | 1270 *                                    | 145   |
| Jun-00       | 13,245,300   | 1270 *                                    | 140   |
| Jul-00       | 13,061,000   | 1392                                      | 152   |
| Aug-00       | 12,584,799   | 1496 *                                    | 157   |
| Sep-00       | 12,283,648   | 1496 *                                    | 153   |
| Oct-00       | 12,518,421   | 1600                                      | 167   |
| Nov-00       | 11,573,809   | 1600 *                                    | 155   |
| Dec-00       | 11,928,001   | 1600 *                                    | 159   |
| <b>TOTAL</b> | <b>215,231,377</b>   | <b>NA</b>                                 | <b>2535</b>                                     |

| ANNUAL TOTALS    |  |  |
|------------------|--|--|
| YEAR             | YEARLY<br>GROUNDWATER<br>WITHDRAWAL<br>(gallons) | ESTIMATED<br>YEARLY VOC<br>REMOVAL<br>(pounds) |
| 1990 (NOV & DEC) | 12,954,886                                       | 92   |
| 1991             | 62,458,393                                       | 357  |
| 1992             | 66,081,120                                       | 322  |
| 1993             | 72,198,940                                       | 421  |
| 1994             | 88,387,251                                       | 3,905  |
| 1995             | 141,357,856                                      | 5,572  |
| 1996             | 152,168,899                                      | 3,631  |
| 1997             | 150,246,400                                      | 2,675  |
| 1998             | 157,461,800                                      | 2,795  |
| 1999             | 133,687,100                                      | 1,464  |
| 2000             | 152,839,477                                      | 1,785  |
| <b>TOTAL</b>     | <b>1,189,842,122</b>                             | <b>23,020</b>                                  |

NOTES:

- \* - No sample collected this month; concentration is an average of preceding and subsequent analytical results.
- \*\* - No sample collected this month; concentration is the most recent previous analytical result.
- NA - Not Applicable

TABLE 5-1  
RECORD OF GROUNDWATER WITHDRAWALS  
GALLONS PER MONTH FOR EACH EXTRACTION WELL  
JULY 1, 1999 - DECEMBER 31, 2000  
Harley-Davidson Motor Company

| MONTH         | NPBA WELLS       |               |               |                  |                  |                  |                  |                |              |                   | TCA WELLS         |                   |                   | WPL WELLS         |                   |                  |                   |                    | MONTHLY TOTAL      |
|---------------|------------------|---------------|---------------|------------------|------------------|------------------|------------------|----------------|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|--------------------|--------------------|
|               | CW-1             | CW-1A         | CW-2          | CW-3             | CW-4             | CW-5             | CW-6             | CW-7           | CW-7A        | SUBTOTAL          | CW-8              | CW-16             | SUBTOTAL          | CW-9              | CW-13             | CW-15A           | CW-17             | SUBTOTAL           |                    |
| Jul-99        | 61,303           | 625           | 1,251         | 47,071           | 57,085           | 34,336           | 63,456           | 8,744          | 102          | 273,973           | 3,242,250         | 420,925           | 3,663,175         | 1,566,096         | 2,265,483         | 138,681          | 1,886,635         | 5,856,895          | 9,794,043          |
| Aug-99        | 86,337           | 292           | 48            | 104,813          | 85,132           | 29,492           | 66,783           | 11,520         | 2            | 384,419           | 3,403,912         | 331,852           | 3,735,764         | 1,085,150         | 1,812,612         | 96,134           | 1,481,766         | 4,475,662          | 8,595,845          |
| Sep-99        | 99,827           | 1,327         | 989           | 66,138           | 93,069           | 80,866           | 85,148           | 18,117         | 4            | 445,485           | 3,835,600         | 538,549           | 4,374,149         | 1,662,260         | 2,923,505         | 153,880          | 2,385,588         | 7,125,233          | 11,944,867         |
| Oct-99        | 131,877          | 1,872         | 3,199         | 115,430          | 97,595           | 125,045          | 127,651          | 20,359         | 1,929        | 624,957           | 1,632,697         | 209,875           | 1,842,572         | 586,254           | 1,012,618         | 53,299           | 826,083           | 2,478,254          | 4,945,783          |
| Nov-99        | 133,368          | 1,051         | 5             | 180,705          | 112,721          | 62,658           | 210,728          | 19,863         | 14           | 721,113           | 4,233,200         | 490,957           | 4,724,157         | 1,542,536         | 2,664,377         | 140,289          | 2,108,431         | 6,455,633          | 11,900,903         |
| Dec-99        | 106,864          | 1,118         | 28            | 152,475          | 114,801          | 58,013           | 197,289          | 19,131         | 2            | 649,721           | 4,208,400         | 469,575           | 4,677,975         | 1,527,327         | 2,633,316         | 138,354          | 2,127,889         | 6,426,886          | 11,754,582         |
| Jan-00        | 130,591          | 912           | 174           | 104,389          | 114,908          | 50,384           | 199,900          | 19,812         | 4            | 621,074           | 4,417,100         | 1,246,554         | 5,663,654         | 1,814,319         | 2,426,805         | 98,251           | 2,574,290         | 6,913,665          | 13,198,393         |
| Feb-00        | 113,638          | 1,686         | 10,775        | 85,750           | 113,441          | 110,962          | 178,238          | 19,547         | 7            | 634,044           | 4,183,433         | 1,641,140         | 5,824,573         | 1,726,229         | 2,271,526         | 60,355           | 2,421,382         | 6,479,472          | 12,938,089         |
| Mar-00        | 131,056          | 2,158         | 14,271        | 104,426          | 98,516           | 182,345          | 189,186          | 17,992         | 556          | 740,506           | 4,178,166         | 1,859,620         | 6,037,786         | 1,767,473         | 2,455,756         | 92,209           | 2,598,985         | 6,914,423          | 13,692,715         |
| Apr-00        | 133,699          | 1,288         | 10,205        | 196,991          | 120,718          | 179,809          | 162,100          | 24,225         | 1,049        | 830,084           | 3,519,300         | 2,070,430         | 5,589,730         | 1,715,093         | 2,389,365         | 177,818          | 2,504,241         | 6,786,517          | 13,206,331         |
| May-00        | 63,091           | 3,419         | 17,791        | 187,370          | 29,870           | 142,296          | 150,409          | 23,562         | 1            | 617,809           | 3,569,140         | 2,125,870         | 5,695,010         | 1,762,651         | 2,439,305         | 143,103          | 2,572,807         | 6,917,866          | 13,230,685         |
| Jun-00        | 148,169          | 1,823         | 11,415        | 106,018          | 91,082           | 118,522          | 138,294          | 20,708         | 1            | 636,032           | 3,425,800         | 2,061,220         | 5,487,020         | 1,712,351         | 2,368,927         | 104,238          | 2,510,161         | 6,695,677          | 12,818,729         |
| Jul-00        | 139,703          | 1,300         | 5,960         | 132,255          | 124,265          | 91,760           | 121,753          | 20,189         | 2            | 637,187           | 3,638,100         | 1,651,470         | 5,289,570         | 1,742,888         | 2,410,248         | 59,311           | 2,572,646         | 6,785,093          | 12,711,850         |
| Aug-00        | 125,375          | 813           | 3,760         | 204,944          | 118,839          | 56,179           | 88,858           | 19,803         | 2            | 618,573           | 3,589,960         | 1,553,048         | 5,143,008         | 1,739,962         | 2,379,065         | 60,181           | 2,559,217         | 6,738,425          | 12,500,006         |
| Sep-00        | 114,585          | 5             | 1,779         | 183,414          | 100,245          | 89,100           | 46,092           | 18,635         | 0            | 553,855           | 3,556,500         | 1,527,981         | 5,084,481         | 1,724,720         | 2,331,634         | 83,670           | 2,511,016         | 6,651,040          | 12,289,376         |
| Oct-00        | 132,242          | 1,237         | 5,549         | 124,668          | 71,742           | 121,165          | 94,537           | 19,440         | 5            | 570,585           | 3,615,500         | 1,549,030         | 5,164,530         | 1,747,480         | 2,368,507         | 85,277           | 2,612,107         | 6,813,371          | 12,548,486         |
| Nov-00        | 111,122          | 1,145         | 3,287         | 72,953           | 126,521          | 61,266           | 171,620          | 19,604         | 0            | 567,518           | 3,550,644         | 1,414,570         | 4,965,214         | 1,547,544         | 2,098,726         | 37,283           | 2,359,838         | 6,043,391          | 11,576,123         |
| Dec-00        | 123,906          | 1,036         | 3,656         | 73,190           | 132,427          | 63,454           | 172,779          | 10,968         | 1            | 581,417           | 3,710,900         | 1,411,300         | 5,122,200         | 1,620,876         | 2,322,193         | 65,752           | 2,622,339         | 6,631,160          | 12,334,777         |
| <b>TOTALS</b> | <b>1,339,820</b> | <b>17,571</b> | <b>70,151</b> | <b>1,451,576</b> | <b>1,128,938</b> | <b>1,174,728</b> | <b>1,769,182</b> | <b>223,580</b> | <b>3,671</b> | <b>10,708,352</b> | <b>43,848,998</b> | <b>13,466,567</b> | <b>88,084,568</b> | <b>18,467,739</b> | <b>27,663,595</b> | <b>1,396,591</b> | <b>25,998,258</b> | <b>113,188,663</b> | <b>211,981,583</b> |

TABLE 5-2  
GROUNDWATER EXTRACTION WELL  
PUMPING ELEVATIONS  
Harley-Davidson Motor Company

| Extraction System Location | Well No. | Reference Elevation (ft AMSL) | Range (ft AMSL) |                | Groundwater Elev. (ft AMSL) |
|----------------------------|----------|-------------------------------|-----------------|----------------|-----------------------------|
|                            |          |                               | Pump On (High)  | Pump Off (Low) | 12/22-23/99                 |
| NPBA                       | CW-1     | 570.88                        | 496.38          | 493.38         | 491.97                      |
|                            | CW-1A    | 569.93                        | 510.43          | 507.43         | 507.13                      |
|                            | CW-2     | 557.79                        | 484.29          | 481.29         | 478.38                      |
|                            | CW-3     | 519.43                        | 441.43          | 438.43         | 441.37                      |
|                            | CW-4     | 542.32                        | 458.82          | 455.82         | 455.88                      |
|                            | CW-5     | 472.06                        | 426.56          | 423.56         | 425.82                      |
|                            | CW-6     | 486.98                        | 416.48          | 413.48         | 417.70                      |
|                            | CW-7     | 574.61                        | 494.11          | 491.11         | 491.67                      |
| TCA                        | CW-7A    | 574.71                        | 524.21          | 521.21         | 529.63                      |
|                            | CW-8     | 363.84                        | 339.84          | 335.84         | 337.72                      |
| WPL                        | CW-16    | 364.32                        | 334.32          | 329.32         | 332.32                      |
|                            | CW-9     | 360.79                        | 333.79          | 328.79         | 335.19                      |
|                            | CW-13    | 361.64                        | 327.6           | 322.6          | 326.20                      |
|                            | CW-15A   | 362.57                        | 333.5           | 328.5          | 330.14                      |
|                            | CW-17    | 361.67                        | 335.67          | 330.67         | 331.70                      |

Notes:

ft AMSL - feet above mean sea level  
NM - Not Measured



**Table 5-3. Pre- and Post-Rehabilitation Well Performance Data  
Harley-Davidson Motor Company  
York, PA**

| Well ID | Run #       | Pre-Rehabilitation Results |               |              | Post-Rehabilitation Results |               |              | % Change |  |
|---------|-------------|----------------------------|---------------|--------------|-----------------------------|---------------|--------------|----------|--|
|         |             | Q (gpm)                    | s (ft/15-min) | Q/S (g/ft)   | Q (gpm)                     | s (ft/15-min) | Q/S (g/ft)   |          |  |
| CW-2    | 1           | 0.75                       | 7.11          | 0.105        | 0.75                        | 5.41          | 0.139        |          |  |
|         | 2           | 1.5                        | 23.23         | 0.065        | 1.5                         | 22.43         | 0.067        |          |  |
|         | 3           | 2.5                        | 49.52         | 0.050        | 2.5                         | 46.54         | 0.054        |          |  |
|         | <b>Avg.</b> |                            |               | <b>0.074</b> |                             |               | <b>0.086</b> | 17.5%    |  |
| CW-4    | 1           | 1.25                       | 5.77          | 0.217        | 1.25                        | 4.3           | 0.291        |          |  |
|         | 2           | 2.5                        | 10.76         | 0.232        | 2.5                         | 14.75         | 0.169        |          |  |
|         | 3           | 5                          | 36.01         | 0.139        | 5                           | 36.96         | 0.135        |          |  |
|         | <b>Avg.</b> |                            |               | <b>0.196</b> |                             |               | <b>0.198</b> | 1.3%     |  |
| CW-7A   | 1           | 0.75                       | 2.48          | 0.302        | 0.75                        | 2.38          | 0.315        |          |  |
|         | 2           | 1.5                        | 7.44          | 0.202        | 1.5                         | 4.78          | 0.314        |          |  |
|         | 3           | 2.5                        | 16.58         | 0.151        | 2.5                         | 13.03         | 0.192        |          |  |
|         | <b>Avg.</b> |                            |               | <b>0.218</b> |                             |               | <b>0.274</b> | 25.3%    |  |
| CW-16   | 1           | 17                         | 8.84          | 1.92         | 13                          | 0.15          | 86.67        |          |  |
|         | 2           |                            | 15            | 7.78         | 1.93                        | 17            | 0.6          | 28.33    |  |
|         | 3           | 18.5                       | 9.05          | 2.04         | 25                          | 3.38          | 7.40         |          |  |
|         | 4           |                            |               |              |                             | 35            | 5.21         | 6.72     |  |
|         | 5           |                            |               |              |                             | 45            | 7.42         | 6.06     |  |
|         | 6           |                            |               |              |                             | 55            | 10.26        | 5.36     |  |
|         | <b>Avg.</b> |                            |               | <b>1.97</b>  |                             |               | <b>23.42</b> | 1092.0%  |  |

Note: values of Q and s which are left-justified were run at less than 15-minute durations.

TABLE 5-4  
 COMPARISON OF INDIVIDUAL VOC VS TOTAL VOC CONCENTRATIONS  
 NORTH PROPERTY BOUNDARY AREA  
 HARLEY-DAVIDSON MOTOR COMPANY  
 YORK, PA

SAIC Project 01-1633-00-1671-100

| Wells  | Groundwater<br>Extraction<br>1998-99<br>(Gallons) | Groundwater<br>Extraction<br>1999-2000<br>(Gallons) | TCE<br>Dec-98<br>(ug/l) | TCE<br>1999*<br>(ug/l) | TCE%**<br>Dec-99 | PCE<br>Dec-98<br>(ug/l) | PCE<br>1999*<br>(ug/l) | PCE%**<br>Dec-99 |
|--------|---|---|-------------------------|------------------------|------------------|-------------------------|------------------------|------------------|
| CW-1   | 1,608,450   | 1,339,820   | 91                      | 110                    | 93               | ND                      | ND                     | 0                |
| CW-1A  | 12,717  | 17,571  | 600                     | 350                    | 100              | 6.3                     | ND                     | 0                |
| CW-2   | 37,262  | 70,151  | 80                      | 53                     | 69               | ND                      | ND                     | 0                |
| CW-3   | 1,289,237   | 1,451,576   | 150                     | 110                    | 77               | 2.1                     | ND                     | 0                |
| CW-4   | 1,004,044   | 1,128,938   | 140                     | 110                    | 66               | 4.4                     | ND                     | 0                |
| CW-5   | 684,376   | 1,174,728   | 78                      | 21                     | 42               | 11                      | 6.1                    | 12               |
| CW-6   | 2,344,586   | 1,769,182   | 74                      | 100                    | 36               | 43                      | 120                    | 13               |
| CW-7   | 241,657   | 223,580   | 93                      | 90                     | 94               | ND                      | ND                     | 0                |
| CW-7A  | 24,660  | 3,671   | 720                     | 430                    | 100              | 14                      | ND                     | 0                |
| TOTALS | 7,246,989   | 7,179,217   |                         |                        |                  |                         |                        |                  |
| MW-10  | NA  | NA  | 540                     | 24                     | 13               | ND                      | ND                     | 0                |
| MW-12  | NA  | NA  | 110                     | 140                    | 88               | ND                      | 11                     | 6.9              |
| RW-2   | NA  | NA  | 13                      | 3                      | 100              | ND                      | ND                     | 0                |

\* - Collection wells (CW) sampled in 12/99, monitoring wells (MW/RW) sampled in 9/99.

\*\* - Represents the percent of the total volatile organic compound concentration.

NA - Not Applicable/Analyzed

ND - Not Detected above method detection limit

ug/l - Micrograms per liter

TABLE 6-1  
 COMPARISON OF INDIVIDUAL VOC VS TOTAL VOC CONCENTRATIONS  
 TCA TANK AREA  
 HARLEY-DAVIDSON MOTOR COMPANY  
 YORK, PA

SAIC Project No. 01-1633-00-1671-100

| Wells         | Groundwater<br>Extraction<br>1998-99<br>(Gallons) | Groundwater<br>Extraction<br>1999-2000<br>(Gallons) | TCA<br>Dec-98<br>(ug/l) | TCA<br>1999*<br>(ug/l) | TCE<br>Dec-98<br>(ug/l) | TCE<br>1999*<br>(ug/l) | PCE<br>Dec-98<br>(ug/l) | PCE<br>1999*<br>(ug/l) | DCE***<br>Dec-98<br>(ug/l) | DCE***<br>1999*<br>(ug/l) |
|---------------|---|---|-------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|----------------------------|---------------------------|
| CW-8          | 55,490,200  | 43,848,998  | 42                      | ND                     | 390                     | 450                    | 39                      | 51                     | 93                         | 95                        |
| CW-16         | 5,995,740   | 13,466,567  | 35                      | ND                     | 510                     | 600                    | 43                      | 50                     | 110                        | 140                       |
| <b>TOTALS</b> | <b>61,485,940</b>                                 | <b>57,315,565</b>                                   |                         |                        |                         |                        |                         |                        |                            |                           |
| MW-32S        | NA  | NA  | 130                     | 370                    | 7.1                     | 330                    | ND                      | 27                     | 310                        | 74                        |
| MW-32D        | NA  | NA  | 98                      | 96                     | 2,400                   | 1,600                  | 130                     | 100                    | 620                        | 800                       |
| MW-34S        | NA  | NA  | 16                      | 5                      | 290                     | 85                     | 120                     | 50                     | 52                         | 15                        |
| MW-35D        | NA  | NA  | 11                      | 7                      | 290                     | 170                    | 56                      | 51                     | 73                         | 63                        |
| MW-54         | NA  | NA  | 760                     | 150                    | 740                     | 510                    | 43                      | 62                     | 260                        | 170                       |

| Wells  | % TCA**<br>Dec-99 | % TCE**<br>Dec-99 | % PCE**<br>Dec-99 | % DCE**<br>Dec-99 |
|--------|-------------------|-------------------|-------------------|-------------------|
| CW-8   | 0                 | 75                | 9                 | 16                |
| CW-16  | 0                 | 76                | 6                 | 18                |
| MW-32S | 43                | 39                | 3                 | 9                 |
| MW-32D | 4                 | 59                | 4                 | 29                |
| MW-34S | 3                 | 54                | 32                | 10                |
| MW-35D | 2                 | 57                | 17                | 21                |
| MW-54  | 12                | 42                | 5                 | 14                |

- \* - Collection wells (CW) sampled 12/99, monitoring wells (MW) sampled in 9/99.
- \*\* - Represents the percent of the total volatile organic compound concentration
- \*\*\* - Represents the concentration of cis-1,2-DCE
- NA - Not Applicable/Analyzed
- ND - Not Detected above method detection limit
- ug/l - Micrograms per liter

TABLE 7-1  
 COMPARISON OF INDIVIDUAL VOC VS TOTAL VOC CONCENTRATIONS  
 WEST PARKING LOT  
 HARLEY-DAVIDSON MOTOR COMPANY  
 YORK, PA

SAIC Project No. 01-1633-00-1671-100

| Wells  | Groundwater<br>Extraction<br>1998-99<br>(Gallons) | Groundwater<br>Extraction<br>1999-2000<br>(Gallons) | TCA<br>Dec-98<br>(ug/l) | TCA<br>1999*<br>(ug/l) | TCE<br>Dec-98<br>(ug/l) | TCE<br>1999*<br>(ug/l) | PCE<br>Dec-98<br>(ug/l) | PCE<br>1999*<br>(ug/l) | DCE***<br>Dec-98<br>(ug/l) | DCE***<br>1999*<br>(ug/l) |
|--------|---|---|-------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|----------------------------|---------------------------|
| CW-9   | 23,251,986  | 18,467,739  | 240                     | 120                    | 1,200                   | 640                    | 2,600                   | 840                    | 220                        | 140                       |
| CW-13  | 32,764,439  | 27,663,595  | 120                     | 96                     | 1,100                   | 1,100                  | 280                     | 270                    | 730                        | 730                       |
| CW-15A | 1,706,763   | 1,396,591   | 11,000                  | 12,000                 | 15,000                  | 14,000                 | 1,700                   | 2,000                  | 1,200                      | 1,900                     |
| CW-17  | 26,039,637  | 25,998,258  | 70                      | 100                    | 580                     | 610                    | 120                     | 140                    | 170                        | 200                       |
| TOTALS | 83,762,825  | 73,526,183  |                         |                        |                         |                        |                         |                        |                            |                           |
| MW-5   | NA  | NA  | ND                      | ND                     | 34                      | 30                     | ND                      | ND                     | 40                         | 25                        |
| MW-6   | NA  | NA  | ND                      | ND                     | ND                      | ND                     | ND                      | ND                     | ND                         | ND                        |
| MW-37S | NA  | NA  | 280                     | 140                    | 190                     | 170                    | 620                     | 890                    | 160                        | 130                       |
| MW-37D | NA  | NA  | 460                     | ND                     | 760                     | 1,200                  | 1,900                   | 2,200                  | 260                        | ND                        |
| MW-38S | NA  | NA  | 2                       | ND                     | 7                       | 1                      | ND                      | ND                     | ND                         | ND                        |
| MW-38D | NA  | NA  | 16                      | ND                     | ND                      | 79                     | ND                      | 17                     | 240                        | 91                        |
| MW-39D | NA  | NA  | ND                      | ND                     | 120                     | 170                    | 6                       | 28                     | 92                         | 100                       |
| MW-51S | NA  | NA  | 730                     | 280                    | 3,900                   | 2,300                  | 1,100                   | 760                    | 1,000                      | 870                       |
| MW-51D | NA  | NA  | ND                      | 39                     | 1,000                   | 1,100                  | 86                      | 90                     | 1,200                      | 920                       |

| Wells  | % TCA**<br>Dec-99 | % TCE**<br>Dec-99 | % PCE**<br>Dec-99 | % DCE**<br>Dec-99 |
|--------|-------------------|-------------------|-------------------|-------------------|
| CW-9   | 7                 | 37                | 48                | 8                 |
| CW-13  | 4                 | 49                | 12                | 32                |
| CW-15A | 37                | 43                | 6                 | 6                 |
| CW-17  | 9                 | 55                | 13                | 18                |
| MW-5   | 0                 | 54                | 0                 | 45                |
| MW-6   | 0                 | 0                 | 0                 | 0                 |
| MW-37S | 10                | 13                | 66                | 10                |
| MW-37D | 0                 | 35                | 65                | 0                 |
| MW-38S | 0                 | 100               | 0                 | 0                 |
| MW-38D | 0                 | 42                | 9                 | 49                |
| MW-39D | 0                 | 57                | 9                 | 34                |
| MW-51S | 6                 | 51                | 17                | 19                |
| MW-51D | 2                 | 42                | 3                 | 36                |

- \* - Collection wells sampled in 12/99, monitoring wells (MW) sampled in 9/99.
- \*\* - Represents the percent of the total volatile organic compound concentration
- \*\*\* - Represents the concentration of cis-1,2-DCE
- NA - Not Applicable/Analyzed
- ND - Not Detected above method detection limit
- ug/l - Micrograms per liter

## **APPENDIX A**

### **Data Summary Tables**

- |                   |  |
|-------------------|--|
| <b>Table A-1,</b> | <b>Site-Wide Groundwater Levels and Elevation Data</b>       |
| <b>Table A-2,</b> | <b>Site-Wide Groundwater Quality Summary</b>                 |
| <b>Table A-3,</b> | <b>Groundwater Quality Analyses, Collection Well Samples</b> |
| <b>Table A-4,</b> | <b>Water Quality Analyses, Packed Tower Aerator Samples</b>  |
| <b>Table A-5,</b> | <b>Groundwater Quality Analyses, Off-Site Samples</b>        |

Table A-1  
Site-Wide Groundwater Levels and Elevation Data  
Harley-Davidson Motor Company

| Well   | Reference Elevation (ft AMSL) | 10/1/99      |                       | 12/22-23/99  |                       | 6/1/00       |                       |
|--------|-------------------------------|--------------|-----------------------|--------------|-----------------------|--------------|-----------------------|
|        |                               | Depth (feet) | Water Level (ft AMSL) | Depth (feet) | Water Level (ft AMSL) | Depth (feet) | Water Level (ft AMSL) |
| CW-1   | 570.88                        | NM           | --                    | 78.91        | 491.97                | 77.46        | 493.42                |
| CW-1A  | 569.93                        | NM           | --                    | 62.80        | 507.13                | NM           | --                    |
| CW-2   | 557.79                        | NM           | --                    | 79.41        | 478.38                | 60.61        | 497.18                |
| CW-3   | 519.43                        | NM           | --                    | 78.06        | 441.37                | 57.25        | 462.18                |
| CW-4   | 542.32                        | NM           | --                    | 86.44        | 455.88                | 36.28        | 506.04                |
| CW-5   | 472.06                        | NM           | --                    | 46.24        | 425.82                | NM           | --                    |
| CW-6   | 486.98                        | NM           | --                    | 69.28        | 417.70                | 55.10        | 431.88                |
| CW-7   | 574.61                        | NM           | --                    | 82.94        | 491.67                | 82.06        | 492.55                |
| CW-7A  | 574.71                        | NM           | --                    | 45.08        | 529.63                | 41.37        | 533.34                |
| CW-8   | 363.84                        | NM           | --                    | 26.12        | 337.72                | 25.78        | 338.06                |
| CW-9   | 360.79                        | NM           | --                    | 25.60        | 335.19                | 25.11        | 335.68                |
| CW-10  | 417.43                        | 36.27        | 381.16                | 38.07        | 379.36                | 37.26        | 380.17                |
| CW-11  | 374.30                        | 29.82        | 344.48                | 31.42        | 342.88                | 30.72        | 343.58                |
| CW-12  | 362.06                        | 19.40        | 342.66                | 21.12        | 340.94                | 18.56        | 343.50                |
| CW-12A | 362.18                        | 20.12        | 342.06                | 21.30        | 340.88                | 18.20        | 343.98                |
| CW-13  | 361.64                        | NM           | --                    | 35.44        | 326.20                | 36.35        | 325.29                |
| CW-14  | 362.08                        | 28.11        | 333.97                | 30.32        | 331.76                | 29.62        | 332.46                |
| CW-15  | 362.81                        | 22.35        | 340.46                | 23.80        | 339.01                | 23.18        | 339.63                |
| CW-15A | 362.57                        | NM           | --                    | 32.43        | 330.14                | 32.45        | 330.12                |
| CW-16  | 364.32                        | NM           | --                    | 32.00        | 332.32                | NM           | --                    |
| CW-17  | 361.67                        | NM           | --                    | 29.97        | 331.70                | 29.37        | 332.30                |
| CW-18  | 365.76                        | 20.47        | 345.29                | NM           | --                    | 21.23        | 344.53                |
| MW-1   | 376.35                        | 31.95        | 344.40                | 33.46        | 342.89                | 32.78        | 343.57                |
| MW-2   | 509.44                        | 64.08        | 445.36                | 63.85        | 445.59                | 63.30        | 446.14                |
| MW-3   | 542.11                        | 66.34        | 475.77                | 66.15        | 475.96                | 63.33        | 478.78                |
| MW-4   | 397.82                        | 38.17        | 359.65                | 37.64        | 360.18                | 30.55        | 367.27                |
| MW-5   | 370.80                        | 27.23        | 343.57                | 27.99        | 342.81                | 25.88        | 344.92                |
| MW-6   | 361.06                        | 17.89        | 343.17                | 20.55        | 340.51                | 29.08        | 331.98                |
| MW-7   | 362.18                        | 28.03        | 334.15                | 29.77        | 332.41                | 20.51        | 341.67                |
| MW-8   | 360.55                        | 19.65        | 340.90                | 20.88        | 339.67                | 20.47        | 340.08                |
| MW-9   | 559.76                        | 51.14        | 508.62                | 54.47        | 505.29                | 49.95        | 509.81                |
| MW-10  | 568.75                        | 44.97        | 523.78                | 59.26        | 509.49                | 56.28        | 512.47                |
| MW-11  | 565.11                        | 31.17        | 533.94                | 35.02        | 530.09                | 32.62        | 532.49                |
| MW-12  | 536.69                        | 42.48        | 494.21                | 47.84        | 488.85                | 38.29        | 498.40                |
| MW-14  | 520.39                        | 30.52        | 489.87                | 31.65        | 488.74                | 31.47        | 488.92                |
| MW-15  | 524.90                        | 60.50        | 464.40                | 60.39        | 464.51                | 60.35        | 464.55                |
| MW-16S | 517.50                        | 33.42        | 484.08                | 41.99        | 475.51                | 34.52        | 482.98                |
| MW-16D | 517.50                        | 5.08         | 512.42                | 13.81        | 503.69                | 4.02         | 513.48                |
| MW-17  | 458.03                        | 11.86        | 446.17                | 11.88        | 446.15                | 11.01        | 447.02                |
| MW-18S | 465.37                        | 8.13         | 457.24                | 19.19        | 446.18                | 13.07        | 452.30                |
| MW-18D | 465.37                        | 5.69         | 459.68                | 20.04        | 445.33                | 11.74        | 453.63                |
| MW-19  | 428.20                        | 22.93        | 405.27                | 22.78        | 405.42                | 21.76        | 406.44                |
| MW-20S | 575.34                        | 45.47        | 529.87                | 45.71        | 529.63                | 42.01        | 533.33                |

Table A-1  
Site-Wide Groundwater Levels and Elevation Data  
Harley-Davidson Motor Company

| Well   | Reference Elevation (ft AMSL) | 10/1/99      |                       | 12/22-23/99  |                       | 6/1/00       |                       |
|--------|-------------------------------|--------------|-----------------------|--------------|-----------------------|--------------|-----------------------|
|        |                               | Depth (feet) | Water Level (ft AMSL) | Depth (feet) | Water Level (ft AMSL) | Depth (feet) | Water Level (ft AMSL) |
| MW-20M | 575.21                        | 48.77        | 526.44                | 43.60        | 531.61                | 46.77        | 528.44                |
| MW-20D | 575.21                        | 46.91        | 528.30                | 50.28        | 524.93                | 47.33        | 527.88                |
| MW-21  | 426.76                        | 39.77        | 386.99                | 42.22        | 384.54                | 31.01        | 395.75                |
| MW-22  | 448.57                        | 58.21        | 390.36                | 58.67        | 389.90                | 57.67        | 390.90                |
| MW-23  | 374.07                        | 29.27        | 344.80                | 30.64        | 343.43                | 29.84        | 344.23                |
| MW-24  | 375.44                        | 29.93        | 345.51                | 30.43        | 345.01                | 30.33        | 345.11                |
| MW-25  | 381.73                        | 8.94         | 372.79                | 11.60        | 370.13                | 9.02         | 372.71                |
| MW-26  | 377.52                        | 26.67        | 350.85                | 27.51        | 350.01                | 23.65        | 353.87                |
| MW-27  | 362.26                        | 19.52        | 342.74                | 21.00        | 341.26                | 19.97        | 342.29                |
| MW-28  | 363.96                        | 21.81        | 342.15                | 23.63        | 340.33                | 23.83        | 340.13                |
| MW-29  | 365.63                        | 14.83        | 350.80                | 23.23        | 342.40                | 22.44        | 343.19                |
| MW-30  | 364.99                        | 20.52        | 344.47                | 22.07        | 342.92                | 20.26        | 344.73                |
| MW-31S | 368.31                        | 22.64        | 345.67                | 23.42        | 344.89                | 19.65        | 348.66                |
| MW-31D | 368.31                        | 22.64        | 345.67                | 23.43        | 344.88                | 19.67        | 348.64                |
| MW-32S | 363.46                        | 21.81        | 341.65                | 23.21        | 340.25                | 23.43        | 340.03                |
| MW-32D | 363.46                        | 21.10        | 342.36                | 23.59        | 339.87                | 22.66        | 340.80                |
| MW-33  | 364.94                        | 22.65        | 342.29                | 24.52        | 340.42                | 24.63        | 340.31                |
| MW-34S | 362.12                        | 19.90        | 342.22                | 21.61        | 340.51                | 21.79        | 340.33                |
| MW-34D | 362.12                        | 20.00        | 342.12                | 21.78        | 340.34                | 22.00        | 340.12                |
| MW-35S | 361.58                        | dry          | --                    | dry          | --                    | dry          | --                    |
| MW-35D | 361.59                        | 19.35        | 342.24                | 21.16        | 340.43                | 21.42        | 340.17                |
| MW-36S | 372.30                        | 28.39        | 343.91                | 29.23        | 343.07                | 27.14        | 345.16                |
| MW-36D | 372.30                        | 28.61        | 343.69                | 29.45        | 342.85                | 27.39        | 344.91                |
| MW-37S | 360.83                        | 17.44        | 343.39                | 18.46        | 342.37                | 18.27        | 342.56                |
| MW-37D | 360.83                        | 17.65        | 343.18                | 18.71        | 342.12                | 18.87        | 341.96                |
| MW-38S | 359.47                        | 18.65        | 340.82                | 19.31        | 340.16                | 19.06        | 340.41                |
| MW-38D | 359.48                        | 19.55        | 339.93                | 20.34        | 339.14                | 19.80        | 339.68                |
| MW-39S | 361.56                        | 23.15        | 338.41                | dry          | --                    | dry          | --                    |
| MW-39D | 361.56                        | 23.48        | 338.08                | 24.33        | 337.23                | 23.74        | 337.82                |
| MW-40S | 375.83                        | 31.38        | 344.45                | 33.01        | 342.82                | 32.37        | 343.46                |
| MW-40D | 375.83                        | 31.10        | 344.73                | 33.02        | 342.81                | 32.37        | 343.46                |
| MW-41S | 426.08                        | 36.83        | 389.25                | 37.87        | 388.21                | 37.52        | 388.56                |
| MW-41D | 426.08                        | 36.98        | 389.10                | 37.72        | 388.36                | 37.48        | 388.60                |
| MW-42S | 411.39                        | 30.26        | 381.13                | 32.17        | 379.22                | 31.23        | 380.16                |
| MW-42M | 411.39                        | 30.47        | 380.92                | 32.25        | 379.14                | 31.32        | 380.07                |
| MW-42D | 411.39                        | 53.42        | 357.97                | 51.38        | 360.01                | 45.65        | 365.74                |
| MW-43S | 380.93                        | 30.20        | 350.73                | 33.38        | 347.55                | 31.64        | 349.29                |
| MW-43D | 381.31                        | 31.27        | 350.04                | 34.10        | 347.21                | 32.80        | 348.51                |
| MW-44  | 417.37                        | 31.90        | 385.47                | 33.18        | 384.19                | 32.71        | 384.66                |
| MW-45  | 361.13                        | 19.19        | 341.94                | 20.43        | 340.70                | 20.33        | 340.80                |
| MW-46  | 360.25                        | 18.05        | 342.20                | 19.45        | 340.80                | 19.48        | 340.77                |
| MW-47  | 361.74                        | 22.09        | 339.65                | 23.41        | 338.33                | 22.91        | 338.83                |
| MW-48  | 362.85                        | 22.03        | 340.82                | 22.03        | 340.82                | 22.12        | 340.73                |

Table A-1  
Site-Wide Groundwater Levels and Elevation Data  
Harley-Davidson Motor Company

| Well   | Reference Elevation (ft AMSL) | 10/01/99     |                       | 12/22-23/99   |                       | 06/01/00     |                       |
|--------|-------------------------------|--------------|-----------------------|---------------|-----------------------|--------------|-----------------------|
|        |                               | Depth (feet) | Water Level (ft AMSL) | Depth (feet)  | Water Level (ft AMSL) | Depth (feet) | Water Level (ft AMSL) |
| MW-49S | 363.02                        | 20.79        | 342.23                | 21.55         | 341.47                | 20.42        | 342.60                |
| MW-49D | 363.02                        | 20.27        | 342.75                | 21.22         | 341.80                | 20.54        | 342.48                |
| MW-50S | 361.72                        | 21.21        | 340.51                | 23.26         | 338.46                | 22.20        | 339.52                |
| MW-50D | 361.69                        | 21.69        | 340.00                | 22.94         | 338.75                | 21.68        | 340.01                |
| MW-51S | 363.46                        | 28.09        | 335.37                | 29.80         | 333.66                | 29.17        | 334.29                |
| MW-51D | 363.86                        | 28.50        | 335.36                | 29.59         | 334.27                | 28.90        | 334.96                |
| MW-52  | 368.52                        | 12.01        | 356.51                | 15.38         | 353.14                | 12.36        | 356.16                |
| MW-53  | 368.25                        | 13.91        | 354.34                | 17.11         | 351.14                | 12.15        | 356.10                |
| MW-54  | 364.98                        | 24.20        | 340.78                | 25.93         | 339.05                | 26.33        | 338.65                |
| MW-55  | 364.89                        | 23.91        | 340.98                | 25.62         | 339.27                | 26.14        | 338.75                |
| MW-56  | 373.03                        | 21.49        | 351.54                | 23.22         | 349.81                | 21.54        | 351.49                |
| MW-57  | 366.02                        | 21.09        | 344.93                | 22.71         | 343.31                | 21.80        | 344.22                |
| MW-59  | 373.19                        | 29.47        | 343.72                | 30.36         | 342.83                | 28.33        | 344.86                |
| MW-60  | 369.15                        | 24.28        | 344.87                | 25.08         | 344.07                | 22.87        | 346.28                |
| MW-61S | 373.87                        | 29.90        | 343.97                | 31.91         | 341.96                | 31.90        | 341.97                |
| MW-61D | 373.87                        | 31.42        | 342.45                | 32.55         | 341.32                | 32.79        | 341.08                |
| MW-62S | 371.28                        | 27.88        | 343.40                | NM            | --                    | NM           | --                    |
| MW-62D | 371.27                        | 28.22        | 343.05                | NM            | --                    | NM           | --                    |
| MW-63S | 374.95                        | 30.41        | 344.54                | 31.96         | 342.99                | 31.31        | 343.64                |
| MW-63D | 374.96                        | 30.35        | 344.61                | 31.95         | 343.01                | 31.25        | 343.71                |
| MW-64S | 417.26                        | 37.47        | 379.79                | 35.08         | 382.18                | 35.10        | 382.16                |
| MW-64D | 417.27                        | 58.80        | 358.47                | 60.98         | 356.29                | 58.73        | 358.54                |
| MW-65S | 548.98                        | 49.47        | 499.51                | 50.56         | 498.42                | 50.02        | 498.96                |
| MW-65D | 548.98                        | 48.60        | 500.38                | 49.67         | 499.31                | 48.57        | 500.41                |
| MW-66S | 508.99                        | 36.62        | 472.37                | 39.46         | 469.53                | 39.16        | 469.83                |
| MW-66D | 508.99                        | 38.27        | 470.72                | 39.69         | 469.30                | 39.81        | 469.18                |
| MW-67S | 447.84                        | 9.79         | 438.05                | 9.91          | 437.93                | 9.63         | 438.21                |
| MW-67D | 447.84                        | artesian     | --                    | 0.75-artesian | --                    | artesian     | --                    |
| MW-68  | 459.01                        | 7.11         | 451.90                | 7.15          | 451.86                | 6.04         | 452.97                |
| MW-69  | 412.80                        | 13.27        | 399.53                | 12.19         | 400.61                | 8.37         | 404.43                |
| MW-70S | 414.11                        | 22.48        | 391.63                | 21.69         | 392.42                | 18.06        | 396.05                |
| MW-70D | 414.16                        | 22.40        | 391.76                | 21.58         | 392.58                | 17.87        | 396.29                |
| MW-71S | 398.64                        | 42.88        | 355.76                | 42.50         | 356.14                | 35.19        | 363.45                |
| MW-71D | 398.33                        | 42.22        | 356.11                | 42.54         | 355.79                | 37.56        | 360.77                |
| MW-72  | 387.99                        | 57.71        | 330.28                | 51.98         | 336.01                | 48.08        | 339.91                |
| MW-73  | 395.24                        | 48.97        | 346.27                | 50.14         | 345.10                | 48.54        | 346.70                |
| MW-74S | 360.76                        | 20.75        | 340.01                | 22.00         | 338.76                | 21.44        | 339.32                |
| MW-74D | 360.70                        | 20.05        | 340.65                | 20.62         | 340.08                | 20.26        | 340.44                |
| MW-75S | 360.48                        | 18.19        | 342.29                | 19.51         | 340.97                | 19.45        | 341.03                |
| MW-75D | 361.80                        | 20.06        | 341.74                | 21.29         | 340.51                | 21.07        | 340.73                |
| MW-76  | 362.29                        | 22.87        | 339.42                | 23.81         | 338.48                | 23.33        | 338.96                |
| MW-77  | 379.28                        | 28.27        | 351.01                | 30.40         | 348.88                | 24.88        | 354.40                |
| MW-78  | 367.89                        | 19.19        | 348.70                | 19.85         | 348.04                | 15.78        | 352.11                |



Table A-i  
 Site-Wide Groundwater Levels and Elevation Data  
 Harley-Davidson Motor Company

| Well     | Reference Elevation (ft AMSL) | 10/1/99      |                       | 12/22-23/99  |                       | 6/1/00       |                       |
|----------|-------------------------------|--------------|-----------------------|--------------|-----------------------|--------------|-----------------------|
|          |                               | Depth (feet) | Water Level (ft AMSL) | Depth (feet) | Water Level (ft AMSL) | Depth (feet) | Water Level (ft AMSL) |
| MW-79    | 376.76                        | 25.85        | 350.91                | 26.85        | 349.91                | 23.12        | 353.64                |
| MW-80    | 371.21                        | 25.41        | 345.80                | 27.58        | 343.63                | 26.40        | 344.81                |
| MW-81S   | 360.97                        | 18.56        | 342.41                | 20.35        | 340.62                | 20.46        | 340.51                |
| MW-81D   | 360.75                        | 18.12        | 342.63                | 19.80        | 340.95                | 19.60        | 341.15                |
| MW-82    | 385.10                        | 41.35        | 343.75                | 42.09        | 343.01                | 39.84        | 345.26                |
| MW-83    | 364.82                        | 17.79        | 347.03                | 18.45        | 346.37                | 15.69        | 349.13                |
| MW-84    | 368.79                        | 19.16        | 349.63                | 19.87        | 348.92                | NM           | --                    |
| MW-85    | 372.84                        | NM           | --                    | NM           | --                    | 30.52        | 342.32                |
| MW-86S   | 407.42                        | 14.60        | 392.82                | 14.63        | 392.79                | 11.32        | 396.10                |
| MW-86D   | 407.48                        | 9.83         | 397.65                | 9.76         | 397.72                | 8.69         | 398.79                |
| MW-87    | 371.56                        | 26.20        | 345.36                | 27.84        | 343.72                | 26.87        | 344.69                |
| MW-88    | 369.34                        | NM           | --                    | NM           | --                    | 26.44        | 342.90                |
| MW-89    | 376.13                        | NM           | --                    | NM           | --                    | 32.65        | 343.48                |
| MW-90    | 383.57                        | NM           | --                    | NM           | --                    | 39.06        | 344.51                |
| MW-91    | 501.75                        | NM           | --                    | NM           | --                    | 55.05        | 446.70                |
| MW-92    | 477.51                        | NM           | --                    | NM           | --                    | 82.66        | 394.85                |
| WPL-SS-2 | 363.21                        | NM           | --                    | DRY          | --                    | NM           | --                    |
| WPL-SS-7 | 361.92                        | NM           | --                    | 26.27        | 335.65                | NM           | --                    |
| WPL-SS-8 | 365.26                        | NM           | --                    | 27.54        | 337.72                | NM           | --                    |

NM = Not Measured

TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | CW-12<br>N.A.<br>09/21/99 | CW-12<br>TA0D0P006006<br>03/29/2000 | CW-12A<br>N.A.<br>09/21/99 | CW12A<br>TA0D0P008005<br>03/30/2000 | CW-15<br>N.A.<br>09/30/99 | CW-15<br>TA0D0P299001<br>04/10/2000 | MW-1<br>N.A.<br>09/21/99 | MW-1<br>TA0C0P885003<br>03/28/2000 | MW-2<br>N.A.<br>09/21/99 | MW-2<br>TA0D0P008008<br>03/30/2000 | MW-3<br>N.A.<br>09/22/99 | MW-3<br>TA0D0P094012<br>04/03/2000 |
|---|-------|---------------------------|-------------------------------------|----------------------------|-------------------------------------|---------------------------|-------------------------------------|--------------------------|------------------------------------|--------------------------|------------------------------------|--------------------------|------------------------------------|
|   |       | Result                    | Result                              | Result                     | Result                              | Result                    | Result                              | Result                   | Result                             | Result                   | Result                             | Result                   | Result                             |
| 1,1,1-TRICHLOROETHANE                         | µg/l  | 47                        | 27                                  | 8                          | 6                                   | 7900                      | 2100                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| 1,1-DICHLOROETHANE                            | µg/l  | N.D.                      | 6                                   | 29                         | 25                                  | 890                       | 350                                 | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| 1,1-DICHLOROETHENE                            | µg/l  | N.D.                      | 4                                   | 10                         | 11                                  | 420                       | 170                                 | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                      | N.A.                                | N.A.                       | N.A.                                | N.A.                      | N.A.                                | N.A.                     | N.A.                               | N.A.                     | N.A.                               | N.A.                     | N.A.                               |
| BENZENE                                       | µg/l  | N.D.                      | N.A.                                | N.D.                       | N.A.                                | N.D.                      | N.A.                                | N.D.                     | N.A.                               | N.D.                     | N.A.                               | N.D.                     | N.A.                               |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| BROMOFORM                                     | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| BROMOMETHANE                                  | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| CHLOROBENZENE                                 | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| CHLOROETHANE                                  | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| CHLOROFORM                                    | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| CHLOROMETHANE                                 | µg/l  | N.D.                      | N.A.                                | N.D.                       | N.A.                                | N.D.                      | N.A.                                | N.D.                     | N.A.                               | N.D.                     | N.A.                               | N.D.                     | N.A.                               |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| ETHYLBENZENE                                  | µg/l  | N.D.                      | N.A.                                | N.D.                       | N.A.                                | N.D.                      | N.A.                                | N.D.                     | N.A.                               | N.D.                     | N.A.                               | N.D.                     | N.A.                               |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| TETRACHLOROETHENE                             | µg/l  | 72                        | 70                                  | 120                        | 38                                  | 1300                      | 570                                 | N.D.                     | 4                                  | 98                       | 130                                | N.D.                     | N.D.                               |
| TOLUENE                                       | µg/l  | N.D.                      | N.A.                                | N.D.                       | N.A.                                | N.D.                      | N.A.                                | N.D.                     | N.A.                               | N.D.                     | N.A.                               | N.D.                     | N.A.                               |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                      | N.A.                                | N.A.                       | N.A.                                | N.A.                      | N.A.                                | N.A.                     | N.A.                               | N.A.                     | N.A.                               | N.A.                     | N.A.                               |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| TRICHLOROETHENE                               | µg/l  | 85                        | 28                                  | 180                        | 74                                  | 18000                     | 6300                                | 36                       | 15                                 | 57                       | 37                                 | 99                       | 72                                 |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                      | N.D.                                | N.A.                       | N.D.                                | N.A.                      | N.D.                                | N.A.                     | N.D.                               | N.A.                     | N.D.                               | N.A.                     | N.D.                               |
| VINYL CHLORIDE                                | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | 32                        | 26                                  | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |
| 1,2-DICHLOROETHENE**                          | µg/l  | 81                        | N.A.                                | 100                        | N.A.                                | 1700                      | N.A.                                | 7                        | N.A.                               | N.D.                     | N.A.                               | N.D.                     | N.A.                               |
| TOTAL VOCs                                    | µg/l  | 285                       | 135                                 | 447                        | 154                                 | 30242                     | 9516                                | 43                       | 19                                 | 155                      | 167                                | 99                       | 72                                 |
| Cyanide                                       | mg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | 2                        | N.D.                               | N.D.                     | N.D.                               |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                | N.D.                      | N.D.                                | N.D.                     | N.D.                               | N.D.                     | N.D.                               | N.D.                     | N.D.                               |

µg/l - micrograms per liter  
mg/l - milligrams per liter  
N.D. - Not detected  
N.A. - Not available  
\* - All data provided by Langan Environmental Services, Inc.  
\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-4<br>N.A.<br>09/28/99<br>Result | MW-4<br>TA0D0P006005<br>03/29/2000<br>Result | MW-5<br>N.A.<br>09/14/99<br>Result | MW-5<br>TA0C0P851002<br>03/27/2000<br>Result | MW-6<br>N.A.<br>09/21/99<br>Result | MW-6<br>TA0C0P706004<br>03/23/2000<br>Result | MW-7<br>N.A.<br>09/28/99<br>Result | MW-7<br>TA0D0P127017<br>04/05/2000<br>Result | MW-8<br>N.A.<br>09/29/99<br>Result | MW-8<br>TA0D0P127009<br>04/04/2000<br>Result | MW-10<br>N.A.<br>Result | MW-10<br>TA0C0P851005<br>03/27/2000<br>Result |
|---|-------|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|-------------------------|---|
| I,1,1-TRICHLOROETHANE                         | µg/l  | 6                                  | 1  | N.D.                               | N.D.   | N.D.                               | N.D.   | 1500                               | 1200   | 160                                | 63   | N.D.                    | N.D.  |
| I,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| I,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| 1,1-DICHLOROETHANE                            | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | 1                                  | 1  | N.D.                               | 72   | 8                                  | N.D.   | N.D.                    | N.D.  |
| 1,1-DICHLOROETHENE                            | µg/l  | N.D.                               | N.D.   | 1                                  | N.D.   | N.D.                               | N.D.   | 500                                | 590  | 22                                 | 16   | N.D.                    | N.D.  |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                               | N.A.   | N.A.                               | N.A.   | N.A.                               | N.A.   | N.A.                               | N.A.   | N.A.                               | N.A.   | N.A.                    | N.A.  |
| BENZENE                                       | µg/l  | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                    | N.A.  |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| BROMOFORM                                     | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| BROMOMETHANE                                  | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| CHLOROBENZENE                                 | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| CHLOROETHANE                                  | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| CHLOROFORM                                    | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| CHLOROMETHANE                                 | µg/l  | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                    | N.A.  |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| ETHYLBENZENE                                  | µg/l  | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                    | N.A.  |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| TETRACHLOROETHENE                             | µg/l  | N.D.                               | 4  | N.D.                               | N.D.   | N.D.                               | N.D.   | 580                                | 680  | 1400                               | 710  | N.D.                    | N.D.  |
| TOLUENE                                       | µg/l  | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                               | N.A.   | N.D.                    | N.A.  |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                               | N.A.   | N.A.                               | N.A.   | N.A.                               | N.A.   | N.A.                               | N.A.   | N.A.                               | N.A.   | N.A.                    | N.A.  |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| TRICHLOROETHENE                               | µg/l  | 65                                 | 20   | 30                                 | 1  | N.D.                               | N.D.   | 4000                               | 3500   | 860                                | 690  | 24                      | 540   |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                               | N.D.   | N.A.                               | N.D.   | N.A.                               | N.D.   | N.A.                               | N.D.   | N.A.                               | N.D.   | N.A.                    | N.D.  |
| VINYL CHLORIDE                                | µg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| 1,2-DICHLOROETHENE**                          | µg/l  | 29                                 | N.A.   | 25                                 | N.A.   | N.D.                               | N.A.   | 570                                | N.A.   | 180                                | N.A.   | 160                     | N.A.  |
| TOTAL VOCs                                    | µg/l  | 100                                | 25   | 56                                 | 1  | 1                                  | 1  | 7150                               | 6042   | 2630                               | 1479   | 184                     | 540   |
| Cyanide                                       | mg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                               | N.D.   | N.D.                    | N.D.  |

µg/l - micrograms per liter

mg/l - milligrams per liter

N.D - Not detected

N.A. - Not available

\* - All data provided by Langan Environmental Services, Inc.

\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-12<br>N.A.<br>09/20/99 | MW-12<br>TA0D0P094011<br>04/03/2000 | MW-17<br>N.A.<br>09/14/99 | MW-17<br>TA0C0P706001<br>03/23/2000 | MW-19<br>N.A.<br>09/22/99 | MW-19<br>TA0D0P094007<br>04/03/2000 | MW-21<br>N.A.<br>09/22/99 | MW-21<br>TA0D0P009007<br>03/31/2000 | MW-22<br>N.A.<br>09/22/99 | MW-22<br>TA0D0P006002<br>03/29/2000 | MW-23<br>N.A.<br>09/22/99 | MW-23<br>TA0C0P851003<br>03/27/2000 |
|---|-------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|
|   |       | Result                    | Result                              | Result                    | Result                              | Result                    | Result                              | Result                    | Result                              | Result                    | Result                              | Result                    | Result                              |
| 1,1,1-TRICHLOROETHANE                         | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| 1,1-DICHLOROETHANE                            | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| 1,1-DICHLOROETHENE                            | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                |
| BENZENE                                       | µg/l  | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| BROMOFORM                                     | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| BROMOMETHANE                                  | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| CHLOROBENZENE                                 | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| CHLOROETHANE                                  | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| CHLOROFORM                                    | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| CHLOROMETHANE                                 | µg/l  | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| ETHYLBENZENE                                  | µg/l  | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| TETRACHLOROETHENE                             | µg/l  | 11                        | 3                                   | N.D.                      | N.D.                                | 7                         | N.D.                                | N.D.                      | N.D.                                | 8                         | 1                                   | N.D.                      | N.D.                                |
| TOLUENE                                       | µg/l  | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| TRICHLOROETHENE                               | µg/l  | 140                       | 96                                  | 83                        | 75                                  | 410                       | 350                                 | 42                        | N.D.                                | 43                        | 11                                  | 10                        | N.D.                                |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                      | N.D.                                | N.A.                      | N.D.                                | N.A.                      | N.D.                                | N.A.                      | N.D.                                | N.A.                      | N.D.                                | N.A.                      | N.D.                                |
| VINYL CHLORIDE                                | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| 1,2-DICHLOROETHENE**                          | µg/l  | 9                         | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | 1                         | N.A.                                |
| TOTAL VOCs                                    | µg/l  | 160                       | 99                                  | 83                        | 75                                  | 417                       | 350                                 | 42                        | 0                                   | 51                        | 12                                  | 11                        | 0                                   |
| Cyanide                                       | mg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                |

µg/l - micrograms per liter

mg/l - milligrams per liter

N.D. - Not detected

N.A. - Not available

\* - All data provided by Langan Environmental Services, Inc.

\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-24<br>N.A.<br>09/22/99<br>Result | MW-24<br>TA0D0P009006<br>03/31/2000<br>Result | MW-25<br>N.A.<br>09/27/99<br>Result | MW-25<br>TA0C0P706002<br>03/23/2000<br>Result | MW-26<br>N.A.<br>09/27/99<br>Result | MW-26<br>TA0D0P094004<br>04/03/2000<br>Result | MW-27<br>N.A.<br>09/27/99<br>Result | MW-27<br>TA0D0P175004<br>04/05/2000<br>Result | MW-28<br>N.A.<br>09/28/99<br>Result | MW-28<br>TA0C0P783001<br>03/24/2000<br>Result | MW-29<br>N.A.<br>09/29/99<br>Result | MW-29<br>TA0C0P731006<br>03/22/2000<br>Result |
|---|-------|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---|
| 1,1,1-TRICHLOROETHANE                         | µg/l  | N.D.                                | 9   | N.D.                                | N.D.  | 32                                  | 21  | N.D.                                | N.D.  | 72                                  | 53  | N.D.                                | N.D.  |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 1,1-DICHLOROETHANE                            | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | 3   | 28                                  | 31  | N.D.                                | N.D.  |
| 1,1-DICHLOROETHENE                            | µg/l  | N.D.                                | 8   | N.D.                                | N.D.  | 64                                  | 57  | N.D.                                | 2   | 110                                 | 120   | N.D.                                | N.D.  |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | 3   | N.D.                                | N.D.  |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  |
| BENZENE                                       | µg/l  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| BROMOFORM                                     | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| BROMOMETHANE                                  | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CHLOROENZENE                                  | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CHLOROETHANE                                  | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CHLOROFORM                                    | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | 2   | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CHLOROMETHANE                                 | µg/l  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| ETHYLBENZENE                                  | µg/l  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| TETRACHLOROETHENE                             | µg/l  | N.D.                                | 3   | N.D.                                | N.D.  | N.D.                                | N.D.  | 230                                 | 240   | N.D.                                | 3   | N.D.                                | N.D.  |
| TOLUENE                                       | µg/l  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| TRICHLOROETHENE                               | µg/l  | 52                                  | 180   | 3                                   | 6   | 1100                                | 680   | 160                                 | 160   | 41                                  | 36  | N.D.                                | N.D.  |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                                | N.D.  | N.A.                                | N.D.  | N.A.                                | N.D.  | N.A.                                | N.D.  | N.A.                                | N.D.  | N.A.                                | N.D.  |
| VINYL CHLORIDE                                | µg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 1,2-DICHLOROETHENE**                          | µg/l  | 12                                  | N.A.  | N.D.                                | N.A.  | 120                                 | N.A.  | 160                                 | N.A.  | 8                                   | N.A.  | N.D.                                | N.A.  |
| TOTAL VOCs                                    | µg/l  | 64                                  | 200   | 3                                   | 6   | 1316                                | 758   | 550                                 | 407   | 259                                 | 246   | 0                                   | 0   |
| Cyanide                                       | mg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |

µg/l - micrograms per liter

mg/l - milligrams per liter

N.D. - Not detected

N.A. - Not available

\* - All data provided by Langan Environmental Services, Inc.

\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-30<br>N.A.<br>09/27/99 | MW-30<br>TAOC0P731008<br>03/22/2000 | MW-31D<br>N.A.<br>09/27/99 | MW-31D<br>TAOD0P094002<br>04/03/2000 | MW-31S<br>N.A.<br>09/27/99 | MW-31S<br>TAOC0P783004<br>03/24/2000 | MW-32D<br>N.A.<br>09/28/99 | MW-32D<br>TAOD0P216005<br>04/06/2000 | MW-32S<br>N.A.<br>09/29/99 | MW-32S<br>TAOD0P216004<br>04/06/2000 | MW-33<br>N.A.<br>09/28/99 | MW-33<br>TAOC0P885006<br>03/28/2000 |
|---|-------|---------------------------|-------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|---------------------------|-------------------------------------|
|   |       | Result                    | Result                              | Result                     | Result                               | Result                     | Result                               | Result                     | Result                               | Result                     | Result                               | Result                    | Result                              |
| 1,1,1-TRICHLOROETHANE                         | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | 4                          | 3                                    | 96                         | 86                                   | 370                        | 330                                  | 7                         | 14                                  |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| 1,1-DICHLOROETHANE                            | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | 10                         | 7                                    | N.D.                       | 56                                   | 24                         | 29                                   | N.D.                      | N.D.                                |
| 1,1-DICHLOROETHENE                            | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | 65                         | 52                                   | 130                        | 150                                  | 32                         | 53                                   | 5                         | 11                                  |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                      | N.A.                                | N.A.                       | N.A.                                 | N.A.                       | N.A.                                 | N.A.                       | N.A.                                 | N.A.                       | N.A.                                 | N.A.                      | N.A.                                |
| BENZENE                                       | µg/l  | N.D.                      | N.A.                                | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 | N.D.                      | N.A.                                |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| BROMOFORM                                     | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| BROMOMETHANE                                  | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| CHLOROBENZENE                                 | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| CHLOROETHANE                                  | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| CHLOROFORM                                    | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | 1                                   |
| CHLOROMETHANE                                 | µg/l  | N.D.                      | N.A.                                | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 | N.D.                      | N.A.                                |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| ETHYLBENZENE                                  | µg/l  | N.D.                      | N.A.                                | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 | N.D.                      | N.A.                                |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| TETRACHLOROETHENE                             | µg/l  | N.D.                      | N.D.                                | 12                         | 15                                   | 1                          | 2                                    | 100                        | 78                                   | 27                         | 47                                   | 7                         | 14                                  |
| TOLUENE                                       | µg/l  | N.D.                      | N.A.                                | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 | N.D.                      | N.A.                                |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                      | N.A.                                | N.A.                       | N.A.                                 | N.A.                       | N.A.                                 | N.A.                       | N.A.                                 | N.A.                       | N.A.                                 | N.A.                      | N.A.                                |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| TRICHLOROETHENE                               | µg/l  | N.D.                      | N.D.                                | 680                        | 630                                  | 9                          | 9                                    | 1600                       | 1200                                 | 330                        | 580                                  | 140                       | 280                                 |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                      | N.D.                                | N.A.                       | N.D.                                 | N.A.                       | N.D.                                 | N.A.                       | N.D.                                 | N.A.                       | N.D.                                 | N.A.                      | N.D.                                |
| VINYL CHLORIDE                                | µg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | 4                          | 3                                    | N.D.                       | 54                                   | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| 1,2-DICHLOROETHENE**                          | µg/l  | N.D.                      | N.A.                                | 400                        | N.A.                                 | 5                          | N.A.                                 | 800                        | N.A.                                 | 74                         | N.A.                                 | 30                        | N.A.                                |
| TOTAL VOCs                                    | µg/l  | 0                         | 0                                   | 1092                       | 645                                  | 98                         | 76                                   | 2726                       | 1624                                 | 857                        | 1039                                 | 189                       | 320                                 |
| Cyanide                                       | mg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 | N.D.                      | N.D.                                |

µg/l - micrograms per liter  
mg/l - milligrams per liter  
N.D. - Not detected  
N.A. - Not available  
\* - All data provided by Langan Environmental Services, Inc.  
\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-34D<br>N.A.<br>09/28/99<br>Result | MW-34D<br>TA0D0P175006<br>04/05/2000<br>Result | MW-34S<br>N.A.<br>09/14/99<br>Result | MW-34S<br>TA0C0P783002<br>03/24/2000<br>Result | MW-35D<br>N.A.<br>09/29/99<br>Result | MW-35D<br>TA0D0P127012<br>04/04/2000<br>Result | MW-36D<br>N.A.<br>09/27/99<br>Result | MW-36D<br>TA0D0P127002<br>04/04/2000<br>Result | MW-36S<br>N.A.<br>09/27/99<br>Result | MW-36S<br>TA0C0P782004<br>03/23/2000<br>Result | MW-37D<br>N.A.<br>09/17/99<br>Result | MW-37D<br>TA0D0P216014<br>04/07/2000<br>Result |
|---|-------|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|
| 1,1,1-TRICHLOROETHANE                         | µg/l  | 19                                   | 14   | 5                                    | 6  | 7                                    | 6  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | 870  |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,1-DICHLOROETHANE                            | µg/l  | N.D.                                 | 3  | N.D.                                 | 1  | N.D.                                 | 2  | N.D.                                 | N.D.   | 2                                    | 2  | N.D.                                 | 22   |
| 1,1-DICHLOROETHENE                            | µg/l  | 13                                   | 12   | 1                                    | 3  | 6                                    | 5  | N.D.                                 | N.D.   | N.D.                                 | 1  | N.D.                                 | 55   |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   |
| BENZENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| BROMOFORM                                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| BROMOMETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROBENZENE                                 | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROFORM                                    | µg/l  | N.D.                                 | 2  | N.D.                                 | 2  | N.D.                                 | 1  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROMETHANE                                 | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| ETHYLBENZENE                                  | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| TETRACHLOROETHENE                             | µg/l  | 97                                   | 120  | 50                                   | 110  | 51                                   | 36   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | 2200                                 | 12000  |
| TOLUENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| TRICHLOROETHENE                               | µg/l  | 330                                  | 210  | 85                                   | 120  | 170                                  | 130  | 330                                  | 460  | 1                                    | 82   | 1200                                 | 5100   |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                 | N.D.   |
| VINYL CHLORIDE                                | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | 3  | N.D.                                 | N.D.   |
| 1,2-DICHLOROETHENE**                          | µg/l  | 120                                  | N.A.   | 15                                   | N.A.   | 63                                   | N.A.   | 270                                  | N.A.   | 2                                    | N.A.   | N.D.                                 | N.A.   |
| TOTAL VOCs                                    | µg/l  | 579                                  | 361  | 156                                  | 242  | 297                                  | 180  | 600                                  | 460  | 5                                    | 88   | 3400                                 | 18047  |
| Cyanide                                       | mg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |

µg/l - micrograms per liter  
mg/l - milligrams per liter  
N.D. - Not detected  
N.A. - Not available  
\* - All data provided by Langan Environmental Services, Inc.  
\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-37S<br>N.A.<br>09/14/99<br>Result | MW-37S<br>TA0D0P094005<br>04/03/2000<br>Result | MW-38D<br>N.A.<br>Result | MW-38D<br>TA0D0P06004<br>03/29/2000<br>Result | MW-38S<br>N.A.<br>09/14/99<br>Result | MW-38S<br>TA0C0P706003<br>03/23/2000<br>Result | MW-39D<br>N.A.<br>09/20/99<br>Result | MW-39D<br>TA0D0P008004<br>03/30/2000<br>Result | MW-40D<br>N.A.<br>09/15/99<br>Result | MW-40D<br>TA0D0P008006<br>03/30/2000<br>Result | MW-40S<br>N.A.<br>09/21/99<br>Result | MW-40S<br>TA0D0P008009<br>03/30/2000<br>Result |
|---|-------|--------------------------------------|--|--------------------------|---|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|
| 1,1,1-TRICHLOROETHANE                         | µg/l  | 140                                  | 96   | N.D.                     | 3   | N.D.                                 | N.D.   | N.D.                                 | 6  | 6                                    | 3  | N.D.                                 | N.D.   |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,1-DICHLOROETHANE                            | µg/l  | 6                                    | N.D.   | N.D.                     | 2   | N.D.                                 | N.D.   | N.D.                                 | 2  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,1-DICHLOROETHENE                            | µg/l  | 4                                    | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | 3  | 2                                    | 2  | N.D.                                 | N.D.   |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                                 | N.A.   | N.A.                     | N.A.  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   |
| BENZENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                     | N.A.  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| BROMOFORM                                     | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| BROMOMETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROBENZENE                                 | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROFORM                                    | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | 3                                    | 2  | N.D.                                 | N.D.   |
| CHLOROMETHANE                                 | µg/l  | N.D.                                 | N.A.   | N.D.                     | N.A.  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| ETHYLBENZENE                                  | µg/l  | N.D.                                 | N.A.   | N.D.                     | N.A.  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| TETRACHLOROETHENE                             | µg/l  | 890                                  | 680  | 17                       | 2   | N.D.                                 | N.D.   | 28                                   | 120  | 2                                    | 2  | 1                                    | N.D.   |
| TOLUENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                     | N.A.  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                                 | N.A.   | N.A.                     | N.A.  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| TRICHLOROETHENE                               | µg/l  | 170                                  | 94   | 79                       | 36  | 1                                    | 1  | 170                                  | 730  | 120                                  | 63   | 12                                   | 2  |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                                 | N.D.   | N.A.                     | N.D.  | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                 | N.D.   |
| VINYL CHLORIDE                                | µg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,2-DICHLOROETHENE**                          | µg/l  | 130                                  | N.A.   | 91                       | N.A.  | N.D.                                 | N.A.   | 100                                  | N.A.   | 20                                   | N.A.   | 3                                    | N.A.   |
| TOTAL VOCs                                    | µg/l  | 1340                                 | 870  | 187                      | 43  | 1                                    | 1  | 298                                  | 861  | 153                                  | 72   | 16                                   | 2  |
| Cyanide                                       | mg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                                 | N.D.   | N.D.                     | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |

µg/l - micrograms per liter  
mg/l - milligrams per liter  
N.D. - Not detected  
N.A. - Not available  
\* - All data provided by Langan Environmental Services, Inc.  
\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.



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SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-41D<br>N.A.<br>09/20/99<br>Result | MW-41D<br>TA0D0P006009<br>03/29/2000<br>Result | MW-41S<br>N.A.<br>09/20/99<br>Result | MW-41S<br>TA0D0P006008<br>03/29/2000<br>Result | MW-42D<br>N.A.<br>09/21/99<br>Result | MW-42D<br>TA0D0P008010<br>03/30/2000<br>Result | MW-42M<br>N.A.<br>09/17/99<br>Result | MW-42M<br>TA0D0P006007<br>03/29/2000<br>Result | MW-42S<br>N.A.<br>09/28/99<br>Result | MW-42S<br>TA0C0P851004<br>03/27/2000<br>Result | MW-43D<br>N.A.<br>N.A.<br>Result | MW-43D<br>TA0D0P216007<br>04/06/2000<br>Result |
|---|-------|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|----------------------------------|--|
| 1,1,1-TRICHLOROETHANE                         | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | 1                                    | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| 1,1-DICHLOROETHANE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| 1,1-DICHLOROETHENE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                             | N.A.   |
| BENZENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                             | N.A.   |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| BROMOFORM                                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| BROMOMETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| CHLOROBENZENE                                 | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| CHLOROETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| CHLOROFORM                                    | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| CHLOROMETHANE                                 | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                             | N.A.   |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| ETHYLBENZENE                                  | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                             | N.A.   |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| TETRACHLOROETHENE                             | µg/l  | 13                                   | 4  | 10                                   | 2  | 2                                    | N.D.   | 5                                    | 4  | N.D.                                 | N.D.   | 8                                | 5  |
| TOLUENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                             | N.A.   |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                             | N.A.   |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| TRICHLOROETHENE                               | µg/l  | 38                                   | 17   | 30                                   | 12   | 26                                   | N.D.   | 81                                   | 56   | 54                                   | 1  | 380                              | 380  |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                             | N.D.   |
| VINYL CHLORIDE                                | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| 1,2-DICHLOROETHENE**                          | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | 5                                    | N.A.   | 10                                   | N.A.   | N.D.                                 | N.A.   | 23                               | N.A.   |
| TOTAL VOCs                                    | µg/l  | 51                                   | 21   | 40                                   | 14   | 34                                   | 0  | 96                                   | 60   | 54                                   | 1  | 411                              | 385  |
| Cyanide                                       | mg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                             | N.D.   |

µg/l - micrograms per liter

mg/l - milligrams per liter

N.D. - Not detected

N.A. - Not available

\* - All data provided by Langan Environmental Services, Inc.

\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

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VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-43S<br>N.A.<br>N.A. | MW-43S<br>TAOC0P731003<br>03/22/2000 | MW-44<br>N.A.<br>09/22/99 | MW-44<br>TAOC0P782003<br>03/23/2000 | MW-45<br>N.A.<br>09/30/99 | MW-45<br>TAOC0P782005<br>03/23/2000 | MW-46<br>N.A.<br>09/29/99 | MW-46<br>TAOD0P127004<br>04/04/2000 | MW-47<br>N.A.<br>09/29/99 | MW-47<br>TAOD0P009004<br>03/31/2000 | MW-50D<br>N.A.<br>09/28/99 | MW-50D<br>TAOD0P127014<br>04/04/2000 |
|---|-------|------------------------|--------------------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|----------------------------|--------------------------------------|
|   |       | Result                 | Result                               | Result                    | Result                              | Result                    | Result                              | Result                    | Result                              | Result                    | Result                              | Result                     | Result                               |
| 1,1,1-TRICHLOROETHANE                         | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | 6                         | N.D.                                | N.D.                      | N.D.                                | 12                         | 12                                   |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| 1,1-DICHLOROETHANE                            | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | 140                        | 530                                  |
| 1,1-DICHLOROETHENE                            | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | 9                         | N.D.                                | 56                         | 200                                  |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                   | N.A.                                 | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                       | N.A.                                 |
| BENZENE                                       | µg/l  | N.D.                   | N.A.                                 | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                       | N.A.                                 |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| BROMOFORM                                     | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| BROMOMETHANE                                  | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| CHLOROBENZENE                                 | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| CHLOROETHANE                                  | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| CHLOROFORM                                    | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| CHLOROMETHANE                                 | µg/l  | N.D.                   | N.A.                                 | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                       | N.A.                                 |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| ETHYLBENZENE                                  | µg/l  | N.D.                   | N.A.                                 | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                       | N.A.                                 |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| TETRACHLOROETHENE                             | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | 70                        | 31                                  | 890                       | 1000                                | 150                       | 110                                 | 5                          | 54                                   |
| TOLUENE                                       | µg/l  | N.D.                   | N.A.                                 | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                       | N.A.                                 |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                   | N.A.                                 | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                       | N.A.                                 |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| TRICHLOROETHENE                               | µg/l  | 1                      | N.D.                                 | 8                         | 7                                   | 21                        | 6                                   | 200                       | 250                                 | 200                       | 30                                  | 220                        | 1400                                 |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                   | N.D.                                 | N.A.                      | N.D.                                | N.A.                      | N.D.                                | N.A.                      | N.D.                                | N.A.                      | N.D.                                | N.A.                       | N.D.                                 |
| VINYL CHLORIDE                                | µg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | 24                         | 19                                   |
| 1,2-DICHLOROETHENE**                          | µg/l  | N.D.                   | N.A.                                 | N.D.                      | N.A.                                | 8                         | N.A.                                | 100                       | N.A.                                | 75                        | N.A.                                | 620                        | N.A.                                 |
| TOTAL VOCs                                    | µg/l  | 1                      | 0                                    | 8                         | 7                                   | 99                        | 37                                  | 1196                      | 1250                                | 434                       | 140                                 | 1077                       | 2215                                 |
| Cyanide                                       | mg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                   | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 |

µg/l - micrograms per liter

mg/l - milligrams per liter

N.D. - Not detected

N.A. - Not available

\* - All data provided by Langan Environmental Services, Inc.

\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-50S<br>N.A.<br>09/28/99<br>Result | MW-50S<br>TA0D0P216003<br>04/06/2000<br>Result | MW-51D<br>N.A.<br>09/21/99<br>Result | MW-51D<br>TA0D0P216008<br>04/06/2000<br>Result | MW-51S<br>N.A.<br>09/20/99<br>Result | MW-51S<br>TA0D0P175005<br>04/05/2000<br>Result | MW-52<br>N.A.<br>09/28/99<br>Result | MW-52<br>TA0C0P731009<br>03/22/2000<br>Result | MW-53<br>N.A.<br>09/28/99<br>Result | MW-53<br>TA0C0P731004<br>03/22/2000<br>Result | MW-54<br>N.A.<br>09/29/99<br>Result | MW-54<br>TA0D0P299002<br>04/10/2000<br>Result |
|---|-------|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---|
| 1,1,1-TRICHLOROETHANE                         | µg/l  | 11                                   | 31   | 39                                   | 28   | 280                                  | 220  | N.D.                                | N.D.  | N.D.                                | N.D.  | 150                                 | 60  |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 1,1-DICHLOROETHANE                            | µg/l  | 71                                   | 61   | 210                                  | 160  | 26                                   | 21   | 1                                   | N.D.  | N.D.                                | N.D.  | 27                                  | 11  |
| 1,1-DICHLOROETHENE                            | µg/l  | 51                                   | 49   | 230                                  | 180  | 270                                  | 230  | N.D.                                | N.D.  | N.D.                                | N.D.  | 300                                 | 99  |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  |
| BENZENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| BROMOFORM                                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| BROMOMETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CHLOROBENZENE                                 | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CHLOROETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CHLOROFORM                                    | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CHLOROMETHANE                                 | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| ETHYLBENZENE                                  | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| TETRACHLOROETHENE                             | µg/l  | 14                                   | N.D.   | 90                                   | 32   | 760                                  | 990  | N.D.                                | N.D.  | N.D.                                | N.D.  | 62                                  | 96  |
| TOLUENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| TRICHLOROETHENE                               | µg/l  | 270                                  | N.D.   | 1100                                 | 400  | 2300                                 | 2500   | N.D.                                | N.D.  | N.D.                                | N.D.  | 510                                 | 780   |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                | N.D.  | N.A.                                | N.D.  | N.A.                                | N.D.  |
| VINYL CHLORIDE                                | µg/l  | N.D.                                 | N.D.   | N.D.                                 | 37   | 28                                   | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 1,2-DICHLOROETHENE**                          | µg/l  | 620                                  | N.A.   | 920                                  | N.A.   | 870                                  | N.A.   | N.D.                                | N.A.  | N.D.                                | N.A.  | 170                                 | N.A.  |
| TOTAL VOCs                                    | µg/l  | 1037                                 | 141  | 2589                                 | 837  | 4534                                 | 3961   | 1                                   | 0   | 0                                   | 0   | 1219                                | 1046  |
| Cyanide                                       | mg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |

µg/l - micrograms per liter  
mg/l - milligrams per liter  
N.D. - Not detected  
N.A. - Not available

\* - All data provided by Langan Environmental Services, Inc.  
\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-56<br>N.A.<br>09/30/99 | MW-56<br>TAOD0P008002<br>03/30/2000 | MW-57<br>N.A.<br>09/29/99 | MW-57<br>TAOD0P094006<br>04/03/2000 | MW-59<br>N.A.<br>09/21/99 | MW-59<br>TAOD0P127011<br>04/04/2000 | MW-60<br>N.A.<br>09/29/99 | MW-60<br>TAOD0P127005<br>04/04/2000 | MW-61D<br>N.A.<br>09/27/99 | MW-61D<br>TAOC0P782002<br>03/23/2000 | MW-61S<br>N.A.<br>09/27/99 | MW-61S<br>TAOC0P731002<br>03/22/2000 |
|---|-------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|
| 1,1,1-TRICHLOROETHANE                         | µg/l  | 8                         | 5                                   | 14                        | 2                                   | N.D.                      | 4                                   | 23                        | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| 1,1-DICHLOROETHANE                            | µg/l  | 20                        | 25                                  | N.D.                      | N.D.                                | N.D.                      | 5                                   | 20                        | 14                                  | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| 1,1-DICHLOROETHENE                            | µg/l  | N.D.                      | 5                                   | 32                        | 8                                   | N.D.                      | 14                                  | 71                        | 47                                  | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                       | N.A.                                 | N.A.                       | N.A.                                 |
| BENZENE                                       | µg/l  | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| BROMOFORM                                     | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| BROMOMETHANE                                  | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| CHLOROBENZENE                                 | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| CHLOROETHANE                                  | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| CHLOROFORM                                    | µg/l  | N.D.                      | N.D.                                | N.D.                      | 3                                   | N.D.                      | 2                                   | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| CHLOROMETHANE                                 | µg/l  | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| ETHYLBENZENE                                  | µg/l  | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| TETRACHLOROETHENE                             | µg/l  | N.D.                      | 1                                   | 14                        | 4                                   | 81                        | 76                                  | 370                       | 210                                 | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| TOLUENE                                       | µg/l  | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                       | N.A.                                 | N.A.                       | N.A.                                 |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| TRICHLOROETHENE                               | µg/l  | 140                       | 100                                 | 330                       | 84                                  | 260                       | 250                                 | 1700                      | 970                                 | 5                          | 7                                    | N.D.                       | N.D.                                 |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                      | N.D.                                | N.A.                      | N.D.                                | N.A.                      | N.D.                                | N.A.                      | N.D.                                | N.A.                       | N.D.                                 | N.A.                       | N.D.                                 |
| VINYL CHLORIDE                                | µg/l  | 6                         | 22                                  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | 43                        | 18                                  | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| 1,2-DICHLOROETHENE**                          | µg/l  | 120                       | N.A.                                | 84                        | N.A.                                | 110                       | N.A.                                | 2300                      | N.A.                                | N.D.                       | N.A.                                 | N.D.                       | N.A.                                 |
| TOTAL VOCs                                    | µg/l  | 294                       | 158                                 | 474                       | 101                                 | 451                       | 351                                 | 4527                      | 1259                                | 5                          | 7                                    | 0                          | 0                                    |
| Cyanide                                       | mg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.                       | N.D.                                 |

µg/l - micrograms per liter  
mg/l - milligrams per liter  
N.D. - Not detected  
N.A. - Not available  
\* - All data provided by Langan Environmental Services, Inc.  
\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-64D<br>N.A.<br>09/17/99<br>Result | MW-64D<br>TA0D0P216006<br>04/06/2000<br>Result | MW-64S<br>N.A.<br>09/21/99<br>Result | MW-64S<br>TA0D0P296002<br>04/10/2000<br>Result | MW-65D<br>N.A.<br>09/07/99<br>Result | MW-65D<br>TA0C0P851006<br>03/27/2000<br>Result | MW-65S<br>N.A.<br>09/07/99<br>Result | MW-65S<br>TA0D0P127010<br>04/04/2000<br>Result | MW-66D<br>N.A.<br>09/09/99<br>Result | MW-66D<br>TA0C0P885005<br>03/28/2000<br>Result | MW-66S<br>N.A.<br>09/09/99<br>Result | MW-66S<br>TA0C0P885004<br>03/28/2000<br>Result |
|---|-------|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|
| 1,1,1-TRICHLOROETHANE                         | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,1-DICHLOROETHANE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,1-DICHLOROETHENE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   |
| BENZENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.D.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| BROMOFORM                                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| BROMOMETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROBENZENE                                 | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROFORM                                    | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROMETHANE                                 | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.D.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| ETHYL BENZENE                                 | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.D.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| TETRACHLOROETHENE                             | µg/l  | N.D.                                 | 370  | 220                                  | 170  | N.D.                                 | N.D.   | 4                                    | 3  | 1                                    | N.D.   | 1                                    | 1  |
| TOLUENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.D.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                 | N.A.   |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| TRICHLOROETHENE                               | µg/l  | 1400                                 | 1500   | 500                                  | 370  | 33                                   | 26   | 180                                  | 130  | 36                                   | 24   | 41                                   | 32   |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                                 | N.D.   | N.A.                                 | N.A.   | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                 | N.D.   |
| VINYL CHLORIDE                                | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,2-DICHLOROETHENE**                          | µg/l  | N.D.                                 | N.A.   | N.D.                                 | 1.3  | N.D.                                 | N.A.   | 1                                    | N.A.   | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| TOTAL VOCs                                    | µg/l  | 1400                                 | 1870   | 720                                  | 541.3  | 33                                   | 26   | 185                                  | 133  | 37                                   | 24   | 42                                   | 33   |
| Cyanide                                       | mg/l  | N.D.                                 | N.D.   |                                      | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                                 | N.D.   |                                      | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                 | N.D.   |

µg/l - micrograms per liter  
mg/l - milligrams per liter  
N D - Not detected  
N A - Not available  
\* - All data provided by Langan Environmental Services, Inc.  
\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-67D<br>N.A.<br>09/07/99<br>Result | MW-67D<br>TA0D0P006003<br>N.A.<br>03/29/2000<br>Result | MW-67S<br>N.A.<br>09/07/99<br>Result | MW-67S<br>TA0D0P009003<br>N.A.<br>03/31/2000<br>Result | MW-68<br>N.A.<br>09/09/99<br>Result | MW-68<br>TA0C0P885007<br>N.A.<br>03/28/2000<br>Result | MW-69<br>N.A.<br>09/09/99<br>Result | MW-69<br>TA0D0P127003<br>N.A.<br>04/04/2000<br>Result | MW-70D<br>N.A.<br>09/10/99<br>Result | MW-70D<br>TA0D0P094008<br>N.A.<br>04/03/2000<br>Result | MW-70S<br>N.A.<br>09/10/99<br>Result | MW-70S<br>TA0D0P094009<br>N.A.<br>04/03/2000<br>Result |
|---|-------|--------------------------------------|--|--------------------------------------|--|-------------------------------------|---|-------------------------------------|---|--------------------------------------|--|--------------------------------------|--|
| 1,1,1-TRICHLOROETHANE                         | µg/l  | N.D.                                 | N.D.   | 260                                  | 250  | N.D.                                | N.D.  | 1                                   | N.D.  | N.D.                                 | N.D.   | 12                                   | 8  |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                                 | N.D.   | 7                                    | 7  | N.D.                                | N.D.  | 2                                   | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,1-DICHLOROETHANE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,1-DICHLOROETHENE                            | µg/l  | N.D.                                 | N.D.   | 39                                   | 51   | N.D.                                | N.D.  | 5                                   | N.D.  | N.D.                                 | N.D.   | 3                                    | 4  |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                 | N.A.   | N.A.                                 | N.A.   |
| BENZENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| BROMOFORM                                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| BROMOMETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                                 | N.D.   | 1                                    | 2  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROBENZENE                                 | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROFORM                                    | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| CHLOROMETHANE                                 | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| ETHYLBENZENE                                  | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| TETRACHLOROETHENE                             | µg/l  | N.D.                                 | N.D.   | 27                                   | 22   | N.D.                                | N.D.  | 2                                   | N.D.  | 9                                    | 9  | 51                                   | 15   |
| TOLUENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                 | N.A.   | N.D.                                 | N.A.   |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                 | N.A.   | N.A.                                 | N.A.   |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| TRICHLOROETHENE                               | µg/l  | 93                                   | 73   | 96                                   | 87   | 39                                  | 78  | 340                                 | 600   | 250                                  | 210  | 290                                  | 85   |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                | N.D.  | N.A.                                | N.D.  | N.A.                                 | N.D.   | N.A.                                 | N.D.   |
| VINYL CHLORIDE                                | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| 1,2-DICHLOROETHENE**                          | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | 2                                   | N.A.  | 24                                  | N.A.  | 8                                    | N.A.   | 35                                   | N.A.   |
| TOTAL VOCs                                    | µg/l  | 93                                   | 73   | 430                                  | 419  | 41                                  | 78  | 374                                 | 600   | 267                                  | 219  | 391                                  | 112  |
| Cyanide                                       | mg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                 | N.D.   | N.D.                                 | N.D.   |

µg/l - micrograms per liter  
mg/l - milligrams per liter  
N.D. - Not detected  
N.A. - Not available

\* - All data provided by Langan Environmental Services, Inc.  
\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-71D<br>N.A.<br>09/10/99 | MW-71D<br>TA0D0P175007<br>04/05/2000 | MW-72<br>N.A.<br>09/13/99 | MW-72<br>TA0C0P885002<br>03/28/2000 | MW-73<br>N.A.<br>09/13/99 | MW-73<br>TA0C0P783003<br>03/24/2000 | MW-74D<br>N.A.<br>09/15/99 | MW-74D<br>TA0D0P216002<br>04/06/2000 | MW-74S<br>N.A. | MW-74S<br>TA0D0P094010<br>04/03/2000 | MW-75D<br>N.A. | MW-75D<br>TA0D0P216012<br>04/07/2000 |
|---|-------|----------------------------|--------------------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|----------------------------|--------------------------------------|----------------|--------------------------------------|----------------|--------------------------------------|
|   |       | Result                     | Result                               | Result                    | Result                              | Result                    | Result                              | Result                     | Result                               | Result         | Result                               | Result         | Result                               |
| 1,1,1-TRICHLOROETHANE                         | µg/l  | 7                          | 1                                    | N.D.                      | N.D.                                | N.D.                      | N.D.                                | 38                         | 17                                   | 11             | 4                                    | 270            | 280                                  |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| 1,1-DICHLOROETHANE                            | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | 6                          | 4                                    | 1              | 1                                    | N.D.           | 0                                    |
| 1,1-DICHLOROETHENE                            | µg/l  | 4                          | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | 15                         | 12                                   | 3              | 2                                    | N.D.           | 40                                   |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                       | N.A.                                 | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                       | N.A.                                 | N.A.           | N.A.                                 | N.A.           | N.A.                                 |
| BENZENE                                       | µg/l  | N.D.                       | N.A.                                 | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                       | N.A.                                 | N.D.           | N.A.                                 | N.D.           | N.A.                                 |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| BROMOFORM                                     | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| BROMOMETHANE                                  | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| CHLOROBENZENE                                 | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| CHLOROETHANE                                  | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| CHLOROFORM                                    | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| CHLOROMETHANE                                 | µg/l  | N.D.                       | N.A.                                 | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                       | N.A.                                 | N.D.           | N.A.                                 | N.D.           | N.A.                                 |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| ETHYLBENZENE                                  | µg/l  | N.D.                       | N.A.                                 | N.D.                      | N.A.                                | N.D.                      | N.A.                                | N.D.                       | N.A.                                 | N.D.           | N.A.                                 | N.D.           | N.A.                                 |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| TETRACHLOROETHENE                             | µg/l  | 10                         | 10                                   | 2                         | 4                                   | N.D.                      | N.D.                                | 17                         | 15                                   | 17             | 8                                    | 6200           | 10000                                |
| TOLUENE                                       | µg/l  | N.D.                       | N.A.                                 | 1                         | N.A.                                | N.D.                      | N.A.                                | 1                          | N.A.                                 | N.D.           | N.A.                                 | N.D.           | N.A.                                 |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                       | N.A.                                 | N.A.                      | N.A.                                | N.A.                      | N.A.                                | N.A.                       | N.A.                                 | N.A.           | N.A.                                 | N.A.           | N.A.                                 |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| TRICHLOROETHENE                               | µg/l  | 220                        | 290                                  | 9                         | 16                                  | 8                         | 9                                   | 280                        | 200                                  | 170            | 120                                  | 3200           | 4700                                 |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                       | N.D.                                 | N.A.                      | N.D.                                | N.A.                      | N.D.                                | N.A.                       | N.D.                                 | N.A.           | N.D.                                 | N.A.           | N.D.                                 |
| VINYL CHLORIDE                                | µg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | 1                          | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| 1,2-DICHLOROETHENE**                          | µg/l  | 23                         | N.A.                                 | N.D.                      | N.A.                                | 2                         | N.A.                                | 100                        | N.A.                                 | 68             | N.A.                                 | 220            | N.A.                                 |
| TOTAL VOCs                                    | µg/l  | 264                        | 301                                  | 12                        | 20                                  | 10                        | 9                                   | 458                        | 248                                  | 270            | 135                                  | 9890           | 15020                                |
| Cyanide                                       | mg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                       | N.D.                                 | N.D.                      | N.D.                                | N.D.                      | N.D.                                | N.D.                       | N.D.                                 | N.D.           | N.D.                                 | N.D.           | N.D.                                 |

µg/l - micrograms per liter

mg/l - milligrams per liter

N.D. - Not detected

N.A. - Not available

\* - All data provided by Langan Environmental Services, Inc.

\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-2  
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SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-75S<br>N.A.<br>N.A.<br>Result | MW-75S<br>TA0D0P216013<br>04/07/2000<br>Result | MW-76<br>N.A.<br>09/14/99<br>Result | MW-76<br>TA0C0P885009<br>03/28/2000<br>Result | MW-77<br>N.A.<br>09/10/99<br>Result | MW-77<br>TA0C0P783005<br>03/24/2000<br>Result | MW-78<br>N.A.<br>09/09/99<br>Result | MW-78<br>TA0C0P731007<br>03/22/2000<br>Result | MW-79<br>N.A.<br>09/13/99<br>Result | MW-79<br>TA0C0P782001<br>03/23/2000<br>Result | MW-80<br>N.A.<br>09/10/99<br>Result | MW-80<br>TA0C0P885008<br>03/28/2000<br>Result |
|---|-------|----------------------------------|--|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---|
| 1,1,1-TRICHLOROETHANE                         | µg/l  | 1200                             | 1600   | 2                                   | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 1,1-DICHLOROETHANE                            | µg/l  | N.D.                             | 21   | 1                                   | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | 12                                  | 16  | N.D.                                | N.D.  |
| 1,1-DICHLOROETHENE                            | µg/l  | N.D.                             | 160  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | 21  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                             | N.A.   | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  |
| BENZENE                                       | µg/l  | N.D.                             | N.A.   | N.D.                                | N.A.  | 2100                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| BROMOFORM                                     | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| BROMOMETHANE                                  | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CHLOROENZENE                                  | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CHLOROETHANE                                  | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CHLOROFORM                                    | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| CHLOROMETHANE                                 | µg/l  | N.D.                             | N.A.   | N.D.                                | N.A.  | 140                                 | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| ETHYLBENZENE                                  | µg/l  | N.D.                             | N.A.   | N.D.                                | N.A.  | 100                                 | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| TETRACHLOROETHENE                             | µg/l  | 30000                            | 32000  | 20                                  | 6   | N.D.                                | 1   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| TOLUENE                                       | µg/l  | N.D.                             | N.A.   | N.D.                                | N.A.  | 180                                 | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                             | N.A.   | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| TRICHLOROETHENE                               | µg/l  | 15000                            | 13000  | 74                                  | 19  | N.D.                                | 1   | N.D.                                | N.D.  | 4                                   | 5   | 13                                  | 3   |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                             | N.D.   | N.A.                                | N.D.  | N.A.                                | N.D.  | N.A.                                | N.D.  | N.A.                                | N.D.  | N.A.                                | N.D.  |
| VINYL CHLORIDE                                | µg/l  | N.D.                             | 13   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| 1,2-DICHLOROETHENE**                          | µg/l  | N.D.                             | N.A.   | 19                                  | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | 22                                  | N.A.  | 3                                   | N.A.  |
| TOTAL VOCs                                    | µg/l  | 46200                            | 46794  | 116                                 | 25  | 2520                                | 23  | 0                                   | 0   | 38                                  | 21  | 16                                  | 3   |
| Cyanide                                       | mg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                             | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  |

µg/l - micrograms per liter  
mg/l - milligrams per liter  
N.D. - Not detected  
N.A. - Not available  
\* - All data provided by Langan Environmental Services, Inc.  
\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.



TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-81D<br>N.A.<br>09/13/99<br>Result | MW-81D<br>TA0D0P127006<br>04/04/2000<br>Result | MW-81S<br>N.A.<br>09/13/99<br>Result | MW-81S<br>TA0D0P127007<br>04/04/2000<br>Result | MW-82<br>N.A.<br>09/10/99<br>Result | MW-82<br>TA0D0P009002<br>03/31/2000<br>Result | MW-83<br>N.A.<br>09/13/99<br>Result | MW-83<br>TA0C0P731005<br>03/22/2000<br>Result | MW-84<br>N.A.<br>09/09/99<br>Result | MW-84<br>TA0D0P008003<br>03/30/2000<br>Result | MW-85<br>TA0D0P341002<br>04/11/2000<br>Result | MW-86D<br>N.A.<br>09/07/99<br>Result | MW-86D<br>TA0D0P094003<br>04/03/2000<br>Result |
|---|-------|--------------------------------------|--|--------------------------------------|--|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---|---|--------------------------------------|--|
| 1,1,1-TRICHLOROETHANE                         | µg/l  | 3                                    | N.D.   | 3                                    | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | 1                                   | 1   | N.D.  | 4                                    | N.D.   |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| 1,1-DICHLOROETHANE                            | µg/l  | 12                                   | N.D.   | 34                                   | 24   | N.D.                                | N.D.  | 7                                   | 5   | 2                                   | 3   | N.D.  | N.D.                                 | N.D.   |
| 1,1-DICHLOROETHENE                            | µg/l  | 16                                   | N.D.   | 47                                   | 37   | N.D.                                | N.D.  | 5                                   | 3   | N.D.                                | N.D.  | N.D.  | 2                                    | N.D.   |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                                 | N.D.   | 1                                    | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.  | N.A.                                 | N.A.   |
| BENZENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.  | N.D.                                 | N.A.   |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| BROMOFORM                                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| BROMOMETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| CARBON TETRACHLORIDE                          | µg/l  | 3                                    | N.D.   | 2                                    | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| CHLOROENZENE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| CHLOROETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| CHLOROFORM                                    | µg/l  | 3                                    | N.D.   | 2                                    | 10   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| CHLOROMETHANE                                 | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.  | N.D.                                 | N.A.   |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| ETHYLBENZENE                                  | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.  | N.D.                                 | N.A.   |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| TETRACHLOROETHENE                             | µg/l  | 130                                  | 89   | 99                                   | 86   | 4                                   | 3   | N.D.                                | N.D.  | 8                                   | 8   | N.D.  | 4                                    | N.D.   |
| TOLUENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.                                | N.A.  | N.D.  | N.D.                                 | N.A.   |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                                 | N.A.   | N.A.                                 | N.A.   | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.                                | N.A.  | N.A.  | N.A.                                 | N.A.   |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| TRICHLOROETHENE                               | µg/l  | 1500                                 | 930  | 4200                                 | 3100   | 140                                 | 94  | N.D.                                | N.D.  | 240                                 | 270   | 190   | 830                                  | 940  |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                                 | N.D.   | N.A.                                 | N.D.   | N.A.                                | N.D.  | N.A.                                | N.D.  | N.A.                                | N.D.  | N.A.  | N.A.                                 | N.D.   |
| VINYL CHLORIDE                                | µg/l  | N.D.                                 | N.D.   | 4                                    | N.D.   | N.D.                                | N.D.  | 4                                   | 110   | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| 1,2-DICHLOROETHENE**                          | µg/l  | 400                                  | N.A.   | 860                                  | N.A.   | 140                                 | N.A.  | 550                                 | N.A.  | 270                                 | N.A.  | 140   | 37                                   | N.A.   |
| TOTAL VOCs                                    | µg/l  | 2067                                 | 1019   | 5252                                 | 3257   | 284                                 | 97  | 566                                 | 118   | 521                                 | 282   | 330   | 877                                  | 940  |
| Cyanide                                       | mg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                                 | N.D.   | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.                                | N.D.  | N.D.  | N.D.                                 | N.D.   |

µg/l - micrograms per liter

mg/l - milligrams per liter

N.D. - Not detected

N.A. - Not available

\* - All data provided by Langan Environmental Services, Inc.

\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-2  
GROUNDWATER QUALITY ANALYSES\*  
SITE-WIDE GROUNDWATER QUALITY SUMMARY (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | MW-86S<br>N.A.<br>09/07/99<br>Result | MW-86S<br>TA0D0P009005<br>03/31/2000<br>Result | MW-87<br>N.A.<br>09/17/99<br>Result | MW-87<br>TA0D0P127008<br>04/04/2000<br>Result | MW-88<br>TA0D0P296004<br>04/10/2000<br>Result | MW-89<br>TA0D0P341004<br>04/11/2000<br>Result | MW-90<br>TA0D0P341003<br>04/11/2000<br>Result | MW-91<br>TA0D0P296003<br>04/10/2000<br>Result | MW-92<br>TA0D0P296005<br>04/10/2000<br>Result | RW-2<br>N.A.<br>09/30/99<br>Result | RW-2<br>TA0D0P008007<br>03/30/2000<br>Result | RW-5<br>N.A.<br>09/30/99<br>Result | RW-5<br>TA0D0P009001<br>03/31/2000<br>Result |
|---|-------|--------------------------------------|--|-------------------------------------|---|---|---|---|---|---|------------------------------------|--|------------------------------------|--|
| 1,1,1-TRICHLOROETHANE                         | µg/l  | 2                                    | N.D.   | 170                                 | 130   | 10  | 13  | 5   | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| 1,1,2,2-TETRACHLOROETHANE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| 1,1,2-TRICHLOROETHANE                         | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| 1,1-DICHLOROETHANE                            | µg/l  | N.D.                                 | N.D.   | 10                                  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| 1,1-DICHLOROETHENE                            | µg/l  | N.D.                                 | N.D.   | 88                                  | 110   | 6   | 6   | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| 1,2-DICHLOROETHANE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | 5   | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| 1,2-DICHLOROPROPANE                           | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| 2-CHLOROETHYL VINYL ETHER                     | µg/l  | N.A.                                 | N.A.   | N.A.                                | N.A.  | N.A.  | N.A.  | N.A.  | N.A.  | N.A.  | N.A.                               | N.A.   | N.A.                               | N.A.   |
| BENZENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.A.                               | N.A.   | N.A.                               | N.A.   |
| BROMODICHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| BROMOFORM                                     | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| BROMOMETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| CARBON TETRACHLORIDE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| CHLOROBENZENE                                 | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| CHLOROETHANE                                  | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| CHLOROFORM                                    | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| CHLOROMETHANE                                 | µg/l  | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.A.                               | N.A.   | N.A.                               | N.A.   |
| CIS-1,3-DICHLOROPROPENE                       | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| DIBROMOCHLOROMETHANE                          | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| ETHYLBENZENE                                  | µg/l  | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.A.                               | N.A.   | N.A.                               | N.A.   |
| METHYLENE CHLORIDE                            | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| TETRACHLOROETHENE                             | µg/l  | 5                                    | 6  | 49                                  | 37  | 12  | N.D.  | N.D.  | 200   | 93  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| TOLUENE                                       | µg/l  | N.D.                                 | N.A.   | N.D.                                | N.A.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.A.                               | N.A.   | N.A.                               | N.A.   |
| TRANS-1,2-DICHLOROETHENE**                    | µg/l  | N.A.                                 | N.A.   | N.A.                                | N.A.  | N.A.  | N.A.  | N.A.  | N.A.  | N.A.  | N.A.                               | N.A.   | N.A.                               | N.A.   |
| TRANS-1,3-DICHLOROPROPENE                     | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| TRICHLOROETHENE                               | µg/l  | 200                                  | 85   | 2300                                | 2200  | 180   | 190   | 55  | 69  | 140   | 3                                  | 2  | 4                                  | 4  |
| TRICHLOROFLUOROMETHANE                        | µg/l  | N.A.                                 | N.D.   | N.A.                                | N.D.  | N.A.  | N.A.  | N.A.  | N.A.  | N.A.  | N.A.                               | N.D.   | N.A.                               | N.D.   |
| VINYL CHLORIDE                                | µg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| 1,2-DICHLOROETHENE**                          | µg/l  | 16                                   | N.A.   | 1100                                | N.A.  | 31  | 34  | N.D.  | N.D.  | 2.8   | N.A.                               | N.A.   | N.A.                               | N.A.   |
| TOTAL VOCs                                    | µg/l  | 223                                  | 91   | 3717                                | 3477  | 244   | 243   | 60  | 269   | 235.8   | 3                                  | 2  | 4                                  | 4  |
| Cyanide                                       | mg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |
| Cyanide (Weak Acid Dissociable)               | mg/l  | N.D.                                 | N.D.   | N.D.                                | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.  | N.D.                               | N.D.   | N.D.                               | N.D.   |

µg/l - micrograms per liter

mg/l - milligrams per liter

N.D. - Not detected

N.A. - Not available

\* - All data provided by Langan Environmental Services, Inc.

\*\* - Indicates that 1,2-Dichloroethene (1,2-DCE) was reported as total 1,2-DCE.

TABLE A-3  
GROUNDWATER QUALITY ANALYSES  
COLLECTION WELL SAMPLES (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | CW-1<br>T99-L0-P694-003<br>12/22/99<br>Result | CW-1<br>157572-1<br>06/02/00<br>Result | CW-1<br>169576-4<br>12/01/00<br>Result | CW-1A<br>T99-L0-P694-004<br>12/22/99<br>Result | CW-1A<br>157572-2<br>06/02/00<br>Result | CW-1A<br>169576-3<br>12/01/00<br>Result | CW-2<br>T99-L0-P694-005<br>12/22/99<br>Result | CW-2<br>157572-3<br>06/02/00<br>Result | CW-2<br>169576-5<br>12/01/00<br>Result |
|---|-------|---|--|--|--|---|---|---|--|--|
| 1,1,1-Trichloroethane                         | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| 1,1,2,2-Tetrachloroethane                     | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| 1,1,2-Trichloroethane                         | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| 1,1-Dichloroethane                            | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| 1,1-Dichloroethene                            | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| 1,2-Dichloroethane                            | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| 1,2-Dichloropropane                           | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| 2-Chloroethyl vinyl ether                     | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| Benzene                                       | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| Bromodichloromethane                          | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| Bromoform                                     | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| Bromomethane                                  | µg/l  | N.D.@20                                       | N.D.@20                                | N.D.@2                                 | N.D.@20  | N.D.@2                                  | N.D.@10                                 | N.D.@20                                       | N.D.@2                                 | N.D.@2                                 |
| Carbon tetrachloride                          | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| Chlorobenzene                                 | µg/l  | N.D.@20                                       | N.D.@20                                | N.D.@1                                 | N.D.@20  | N.D.@1                                  | N.D.@5                                  | N.D.@20                                       | N.D.@1                                 | N.D.@1                                 |
| Chloroethane                                  | µg/l  | N.D.@20                                       | N.D.@20                                | N.D.@1                                 | N.D.@20  | N.D.@1                                  | N.D.@5                                  | N.D.@20                                       | N.D.@1                                 | N.D.@1                                 |
| Chloroform                                    | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| Chloromethane                                 | µg/l  | N.D.@20                                       | N.D.@20                                | N.D.@1                                 | N.D.@20  | N.D.@1                                  | N.D.@5                                  | N.D.@20                                       | N.D.@1                                 | N.D.@1                                 |
| cis-1,3-Dichloropropene*                      | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@2                                 | N.D.@10  | N.D.@2                                  | N.D.@10                                 | N.D.@10                                       | N.D.@2                                 | N.D.@2                                 |
| Dibromochloromethane                          | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| Ethylbenzene                                  | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| Methylene Chloride                            | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@2                                 | N.D.@10  | N.D.@2                                  | N.D.@10                                 | N.D.@10                                       | N.D.@2                                 | N.D.@2                                 |
| Tetrachloroethene                             | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | 4.4                                     | N.D.@5                                  | N.D.@10                                       | 1.6                                    | N.D.@1                                 |
| Toluene                                       | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| trans-1,2-Dichloroethene                      | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@1                                 | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10                                       | N.D.@1                                 | N.D.@1                                 |
| trans-1,3-Dichloropropene*                    | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@2                                 | N.D.@10  | N.D.@1                                  | N.D.@10                                 | N.D.@10                                       | N.D.@1                                 | N.D.@2                                 |
| Trichloroethene                               | µg/l  | 110   | 119                                    | 95                                     | 350  | 482                                     | 509                                     | 53  | 69                                     | 75                                     |
| Trichlorofluoromethane                        | µg/l  | N.A.  | N.A.                                   | N.D.@1                                 | N.A.   | N.A.                                    | N.D.@5                                  | N.A.  | N.A.                                   | N.D.@1                                 |
| Vinyl chloride                                | µg/l  | N.D.@10                                       | N.D.@10                                | N.D.@2                                 | N.D.@10  | N.D.@2                                  | N.D.@10                                 | N.D.@10                                       | N.D.@2                                 | N.D.@2                                 |
| cis-1,2-Dichloroethene                        | µg/l  | 8.2   | 7.5                                    | 7.2                                    | N.D.@10  | 6                                       | N.D.@5                                  | 24  | 19                                     | 25                                     |
| TOTAL VOCs                                    | µg/l  | 118.2   | 126.5                                  | 102.2                                  | 350  | 492.4                                   | 509                                     | 77  | 89.6                                   | 100                                    |

Notes:

N.A. - Not analyzed

N.D.@1 - Not detected at indicated concentration

\* - indicates that the December 2000 results are for total 1,3-Dichloropropene

TABLE A-3  
GROUNDWATER QUALITY ANALYSES  
COLLECTION WELL SAMPLES (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID                  |       | CW-3            | CW-3     | CW-3     | CW-4            | CW-4     | CW-4     | CW-5            | CW-5     | CW-5     |
|----------------------------|-------|-----------------|----------|----------|-----------------|----------|----------|-----------------|----------|----------|
| LAB ID                     |       | T99-L0-P694-006 | 157572-4 | 169576-6 | T99-L0-P694-007 | 157572-5 | 169576-7 | T99-L0-P694-008 | 157572-6 | 169576-8 |
| SAMPLE DATE                |       | 12/22/99        | 06/02/00 | 12/01/00 | 12/22/99        | 06/02/00 | 12/01/00 | 12/22/99        | 06/02/00 | 12/01/00 |
| ANALYTE                    | Units | Result          | Result   | Result   | Result          | Result   | Result   | Result          | Result   | Result   |
| 1,1,1-Trichloroethane      | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| 1,1,2,2-Tetrachloroethane  | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| 1,1,2-Trichloroethane      | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| 1,1-Dichloroethane         | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| 1,1-Dichloroethene         | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| 1,2-Dichloroethane         | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| 1,2-Dichloropropane        | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| 2-Chloroethyl vinyl ether  | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| Benzene                    | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| Bromodichloromethane       | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| Bromoforn                  | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| Bromomethane               | µg/l  | N.D.@20         | N.D.@2   | N.D.@2   | N.D.@20         | N.D.@2   | N.D.@2   | N.D.@20         | N.D.@2   | N.D.@2   |
| Carbon tetrachloride       | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| Chlorobenzene              | µg/l  | N.D.@20         | N.D.@1   | N.D.@1   | N.D.@20         | N.D.@1   | N.D.@1   | N.D.@20         | N.D.@1   | N.D.@1   |
| Chloroethane               | µg/l  | N.D.@20         | N.D.@1   | N.D.@1   | N.D.@20         | N.D.@1   | N.D.@1   | N.D.@20         | N.D.@1   | N.D.@1   |
| Chloroform                 | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| Chloromethane              | µg/l  | N.D.@20         | N.D.@1   | N.D.@1   | N.D.@20         | N.D.@1   | N.D.@1   | N.D.@20         | N.D.@1   | N.D.@1   |
| cis-1,3-Dichloropropene*   | µg/l  | N.D.@10         | N.D.@2   | N.D.@2   | N.D.@10         | N.D.@2   | N.D.@2   | N.D.@10         | N.D.@2   | N.D.@2   |
| Dibromochloromethane       | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| Ethylbenzene               | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| Methylene Chloride         | µg/l  | N.D.@10         | N.D.@2   | N.D.@2   | N.D.@10         | N.D.@2   | N.D.@2   | N.D.@10         | N.D.@2   | N.D.@2   |
| Tetrachloroethene          | µg/l  | N.D.@10         | 5.6      | 1.2      | N.D.@10         | 12       | 5.1      | 6.1             | 9.1      | 4.8      |
| Toluene                    | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| trans-1,2-Dichloroethene   | µg/l  | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   | N.D.@10         | N.D.@1   | N.D.@1   |
| trans-1,3-Dichloropropene* | µg/l  | N.D.@10         | N.D.@1   | N.D.@2   | N.D.@10         | N.D.@1   | N.D.@2   | N.D.@10         | N.D.@1   | N.D.@2   |
| Trichloroethene            | µg/l  | 110             | 123      | 32       | 110             | 116      | 156      | 21              | 39       | 23       |
| Trichlorofluoromethane     | µg/l  | N.A.            | N.A.     | N.D.@1   | N.A.            | N.A.     | N.D.@1   | N.A.            | N.A.     | N.D.@1   |
| Vinyl chloride             | µg/l  | N.D.@10         | N.D.@2   | N.D.@2   | N.D.@10         | N.D.@2   | N.D.@2   | N.D.@10         | N.D.@2   | N.D.@2   |
| cis-1,2-Dichloroethene     | µg/l  | 32              | 35       | 27       | 57              | 42       | 32       | 23              | 12       | 20       |
| TOTAL VOCs                 | µg/l  | 142             | 163.6    | 60.2     | 167             | 170      | 193.1    | 50.1            | 60.1     | 47.8     |

Notes:

N.A. - Not analyzed

N.D.@1 - Not detected at indicated concentration

\* - indicates that the December 2000 results are for total 1,3-Dichloropropene

TABLE A-3  
GROUNDWATER QUALITY ANALYSES  
COLLECTION WELL SAMPLES (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID                  |       | CW-6            | CW-6     | CW-6     | CW-7            | CW-7     | CW-7      | CW-7A           | CW-7A    | CW-7A     |
|----------------------------|-------|-----------------|----------|----------|-----------------|----------|-----------|-----------------|----------|-----------|
| LAB ID                     |       | T99-L0-P694-009 | 157572-7 | 169576-9 | T99-L0-P694-010 | 157572-8 | 169576-10 | T99-L0-P694-011 | 157572-9 | 169576-11 |
| SAMPLE DATE                |       | 12/22/99        | 06/02/00 | 12/01/00 | 12/22/99        | 06/02/00 | 12/01/00  | 12/22/99        | 06/02/00 | 12/01/00  |
| ANALYTE                    | Units | Result          | Result   | Result   | Result          | Result   | Result    | Result          | Result   | Result    |
| 1,1,1-Trichloroethane      | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| 1,1,2,2-Tetrachloroethane  | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| 1,1,2-Trichloroethane      | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| 1,1-Dichloroethane         | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| 1,1-Dichloroethene         | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| 1,2-Dichloroethane         | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| 1,2-Dichloropropane        | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| 2-Chloroethyl vinyl ether  | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| Benzene                    | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| Bromodichloromethane       | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| Bromoform                  | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| Bromomethane               | µg/l  | N.D.@20         | N.D.@2   | N.D.@10  | N.D.@20         | N.D.@2   | N.D.@2    | N.D.@200        | N.D.@2   | N.D.@10   |
| Carbon tetrachloride       | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| Chlorobenzene              | µg/l  | N.D.@20         | N.D.@1   | N.D.@5   | N.D.@20         | N.D.@1   | N.D.@1    | N.D.@200        | N.D.@1   | N.D.@5    |
| Chloroethane               | µg/l  | N.D.@20         | N.D.@1   | N.D.@5   | N.D.@20         | N.D.@1   | N.D.@1    | N.D.@200        | N.D.@1   | N.D.@5    |
| Chloroform                 | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| Chloromethane              | µg/l  | N.D.@20         | N.D.@1   | N.D.@5   | N.D.@20         | N.D.@1   | N.D.@1    | N.D.@200        | N.D.@1   | N.D.@5    |
| cis-1,3-Dichloropropene*   | µg/l  | N.D.@10         | N.D.@2   | N.D.@10  | N.D.@10         | N.D.@2   | N.D.@2    | N.D.@100        | N.D.@2   | N.D.@10   |
| Dibromochloromethane       | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| Ethylbenzene               | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| Methylene Chloride         | µg/l  | N.D.@10         | N.D.@2   | N.D.@10  | N.D.@10         | N.D.@2   | N.D.@2    | N.D.@100        | N.D.@2   | N.D.@10   |
| Tetrachloroethene          | µg/l  | 120             | 393      | 102      | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | 21       | 28        |
| Toluene                    | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| trans-1,2-Dichloroethene   | µg/l  | N.D.@10         | N.D.@1   | N.D.@5   | N.D.@10         | N.D.@1   | N.D.@1    | N.D.@100        | N.D.@1   | N.D.@5    |
| trans-1,3-Dichloropropene* | µg/l  | N.D.@10         | N.D.@1   | N.D.@10  | N.D.@10         | N.D.@1   | N.D.@2    | N.D.@100        | N.D.@1   | N.D.@10   |
| Trichloroethene            | µg/l  | 100             | 117      | 67       | 90              | 114      | 104       | 430             | 869      | 115       |
| Trichlorofluoromethane     | µg/l  | N.A.            | N.A.     | N.D.@5   | N.A.            | N.A.     | N.D.@1    | N.A.            | N.A.     | N.D.@5    |
| Vinyl chloride             | µg/l  | N.D.@10         | N.D.@2   | N.D.@10  | N.D.@10         | N.D.@2   | N.D.@2    | N.D.@100        | N.D.@2   | N.D.@10   |
| cis-1,2-Dichloroethene     | µg/l  | 59              | 59       | 55       | 5.3             | 6        | 3.9       | N.D.@100        | 21       | 28        |
| TOTAL VOCs                 | µg/l  | 279             | 569      | 224      | 95.3            | 120      | 107.9     | 430             | 911      | 171       |

Notes:

N.A. - Not analyzed

N.D.@1 - Not detected at indicated concentration

\* - indicates that the December 2000 results are for total 1,3-Dichloropropene

TABLE A-3  
GROUNDWATER QUALITY ANALYSES  
COLLECTION WELL SAMPLES (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID                  |       | CW-8            | CW-8      | CW-8     | CW-9            | CW-9      | CW-9      | CW-13           | CW-13     | CW-13    |
|----------------------------|-------|-----------------|-----------|----------|-----------------|-----------|-----------|-----------------|-----------|----------|
| LAB ID                     |       | T99-L0-P694-001 | 157572-10 | 169576-1 | T99-L0-P694-016 | 157572-11 | 169576-12 | T99-L0-P694-017 | 157572-12 | 169577-1 |
| SAMPLE DATE                |       | 12/22/99        | 06/02/00  | 12/01/00 | 12/22/99        | 06/02/00  | 12/01/01  | 12/22/99        | 06/02/00  | 12/01/01 |
| ANALYTE                    | Units | Result          | Result    | Result   | Result          | Result    | Result    | Result          | Result    | Result   |
| 1,1,1-Trichloroethane      | µg/l  | N.D.@10         | 40        | 28       | 120             | 101       | 331       | 96              | 93        | 70       |
| 1,1,2,2-Tetrachloroethane  | µg/l  | N.D.@10         | N.D.@1    | N.D.@5   | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | N.D.@1    | N.D.@10  |
| 1,1,2-Trichloroethane      | µg/l  | N.D.@10         | 1         | N.D.@5   | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | 1         | N.D.@10  |
| 1,1-Dichloroethane         | µg/l  | N.D.@10         | 3.7       | N.D.@5   | N.D.@10         | 5.5       | 18        | 10              | 9.7       | N.D.@10  |
| 1,1-Dichloroethene         | µg/l  | N.D.@10         | 16        | 11       | 13              | 12        | 46        | 34              | 38        | 36       |
| 1,2-Dichloroethane         | µg/l  | N.D.@10         | N.D.@1    | N.D.@5   | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | N.D.@1    | N.D.@10  |
| 1,2-Dichloropropane        | µg/l  | N.D.@10         | N.D.@1    | N.D.@5   | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | N.D.@1    | N.D.@10  |
| 2-Chloroethyl vinyl ether  | µg/l  | N.D.@10         | N.D.@1    | N.D.@5   | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | N.D.@1    | N.D.@10  |
| Benzene                    | µg/l  | N.D.@10         | N.D.@1    | N.D.@5   | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | N.D.@1    | N.D.@10  |
| Bromodichloromethane       | µg/l  | N.D.@10         | N.D.@1    | N.D.@5   | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | N.D.@1    | N.D.@10  |
| Bromoform                  | µg/l  | N.D.@10         | N.D.@1    | N.D.@5   | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | N.D.@1    | N.D.@10  |
| Bromomethane               | µg/l  | N.D.@20         | N.D.@2    | N.D.@10  | N.D.@20         | N.D.@2    | N.D.@20   | N.D.@20         | N.D.@2    | N.D.@20  |
| Carbon tetrachloride       | µg/l  | N.D.@10         | N.D.@1    | N.D.@5   | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | N.D.@1    | N.D.@10  |
| Chlorobenzene              | µg/l  | N.D.@20         | N.D.@1    | N.D.@5   | N.D.@20         | 1.3       | N.D.@20   | N.D.@20         | N.D.@1    | N.D.@20  |
| Chloroethane               | µg/l  | N.D.@20         | N.D.@1    | N.D.@5   | N.D.@20         | N.D.@1    | N.D.@20   | N.D.@20         | N.D.@1    | N.D.@20  |
| Chloroform                 | µg/l  | N.D.@10         | 1.1       | N.D.@5   | N.D.@10         | 1.3       | N.D.@10   | N.D.@10         | N.D.@1    | N.D.@10  |
| Chloromethane              | µg/l  | N.D.@20         | N.D.@1    | N.D.@5   | N.D.@20         | N.D.@1    | N.D.@20   | N.D.@20         | N.D.@1    | N.D.@20  |
| cis-1,3-Dichloropropene*   | µg/l  | N.D.@10         | N.D.@2    | N.D.@10  | N.D.@10         | N.D.@2    | N.D.@10   | N.D.@10         | N.D.@2    | N.D.@10  |
| Dibromochloromethane       | µg/l  | N.D.@10         | N.D.@1    | N.D.@5   | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | N.D.@1    | N.D.@10  |
| Ethylbenzene               | µg/l  | N.D.@10         | N.D.@1    | N.D.@5   | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | N.D.@1    | N.D.@10  |
| Methylene Chloride         | µg/l  | N.D.@10         | N.D.@2    | N.D.@10  | N.D.@10         | N.D.@2    | N.D.@10   | N.D.@10         | N.D.@2    | N.D.@10  |
| Tetrachloroethene          | µg/l  | 51              | 47        | 23       | 840             | 1310      | 2640      | 270             | 448       | 248      |
| Toluene                    | µg/l  | N.D.@10         | N.D.@1    | N.D.@5   | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | N.D.@1    | N.D.@10  |
| trans-1,2-Dichloroethene   | µg/l  | N.D.@10         | N.D.@1    | N.D.@5   | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | 6.2       | N.D.@10  |
| trans-1,3-Dichloropropene* | µg/l  | N.D.@10         | N.D.@1    | N.D.@10  | N.D.@10         | N.D.@1    | N.D.@10   | N.D.@10         | N.D.@1    | N.D.@10  |
| Trichloroethene            | µg/l  | 450             | 679       | 300      | 640             | 713       | 1250      | 1100            | 1850      | 966      |
| Trichlorofluoromethane     | µg/l  | N.A.            | N.A.      | N.D.@5   | N.A.            | N.A.      | N.D.@10   | N.A.            | N.A.      | N.D.@10  |
| Vinyl chloride             | µg/l  | N.D.@10         | N.D.@2    | N.D.@10  | N.D.@10         | N.D.@2    | N.D.@10   | 28              | 7.1       | N.D.@20  |
| cis-1,2-Dichloroethene     | µg/l  | 95              | 81        | 63       | 140             | 112       | 377       | 730             | 1050      | 716      |
| TOTAL VOCs                 | µg/l  | 596             | 868.8     | 425      | 1753            | 2256.1    | 4662      | 2268            | 3503      | 2036     |

Notes:  
N.A. - Not analyzed  
N.D.@1 - Not detected at indicated concentration  
\* - indicates that the December 2000 results are for total 1,3-Dichloropropene

TABLE A-3  
GROUNDWATER QUALITY ANALYSES  
COLLECTION WELL SAMPLES (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND CONCENTRATIONS  
Harley-Davidson Motor Company

| SAMPLE ID<br>LAB ID<br>SAMPLE DATE<br>ANALYTE | Units | CW-15A<br>T99-L0-P694-015<br>12/22/99<br>Result | CW-15A<br>157571-2<br>06/02/00<br>Result | CW-15A<br>169577-3<br>12/01/01<br>Result | CW-16<br>T99-L0-P694-002<br>12/22/99<br>Result | CW-16<br>157571-7<br>06/02/00<br>Result | CW-16<br>169576-2<br>12/01/00<br>Result | CW-17<br>T99-L0-P694-018<br>12/22/99<br>Result | CW-17<br>157571-1<br>06/02/00<br>Result | CW-17<br>169577-2<br>12/01/00<br>Result | TRIP BLANK<br>T99-L0-P694-020<br>12/22/99<br>Result | TRIP BLANK<br>06/02/00<br>Result |
|---|-------|---|--|--|--|---|---|--|---|---|---|----------------------------------|
| 1,1,1-Trichloroethane                         | µg/l  | 12000   | 11600                                    | 8380                                     | N.D.@100                                       | 55                                      | 33                                      | 100  | 99                                      | 69                                      | N.D.@10   | N.D.@1                           |
| 1,1,2,2-Tetrachloroethane                     | µg/l  | N.D.@100  | N.D.@1                                   | N.D.@100                                 | N.D.@100                                       | N.D.@1                                  | N.D.@5                                  | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| 1,1,2-Trichloroethane                         | µg/l  | N.D.@100  | 3.7                                      | N.D.@100                                 | N.D.@100                                       | 1.3                                     | N.D.@5                                  | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| 1,1-Dichloroethane                            | µg/l  | 110   | 102                                      | N.D.@100                                 | N.D.@100                                       | 5.1                                     | N.D.@5                                  | N.D.@10  | 10                                      | 8.0                                     | N.D.@10   | N.D.@1                           |
| 1,1-Dichloroethene                            | µg/l  | 2800  | 2070                                     | 1550                                     | N.D.@100                                       | 42                                      | 22                                      | 57   | 51                                      | 33                                      | N.D.@10   | N.D.@1                           |
| 1,2-Dichloroethane                            | µg/l  | N.D.@100  | 14                                       | N.D.@100                                 | N.D.@100                                       | N.D.@1                                  | N.D.@5                                  | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| 1,2-Dichloropropane                           | µg/l  | N.D.@100  | N.D.@1                                   | N.D.@100                                 | N.D.@100                                       | N.D.@1                                  | N.D.@5                                  | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| 2-Chloroethyl vinyl ether                     | µg/l  | N.D.@100  | N.D.@1                                   | N.D.@100                                 | N.D.@100                                       | N.D.@1                                  | N.D.@5                                  | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| Benzene                                       | µg/l  | N.D.@100  | N.D.@1                                   | N.D.@100                                 | N.D.@100                                       | N.D.@1                                  | N.D.@5                                  | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| Bromodichloromethane                          | µg/l  | N.D.@100  | N.D.@1                                   | N.D.@100                                 | N.D.@100                                       | N.D.@1                                  | N.D.@5                                  | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| Bromoform                                     | µg/l  | N.D.@100  | N.D.@1                                   | N.D.@100                                 | N.D.@100                                       | N.D.@1                                  | N.D.@5                                  | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| Bromomethane                                  | µg/l  | N.D.@200  | N.D.@2                                   | N.D.@200                                 | N.D.@200                                       | N.D.@2                                  | N.D.@10                                 | N.D.@20  | N.D.@2                                  | N.D.@10                                 | N.D.@20   | N.D.@2                           |
| Carbon tetrachloride                          | µg/l  | N.D.@100  | N.D.@1                                   | N.D.@100                                 | N.D.@100                                       | N.D.@1                                  | N.D.@5                                  | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| Chlorobenzene                                 | µg/l  | N.D.@200  | N.D.@1                                   | N.D.@200                                 | N.D.@200                                       | N.D.@1                                  | N.D.@5                                  | N.D.@20  | N.D.@1                                  | N.D.@5                                  | N.D.@20   | N.D.@1                           |
| Chloroethane                                  | µg/l  | N.D.@200  | N.D.@1                                   | N.D.@200                                 | N.D.@200                                       | N.D.@1                                  | N.D.@5                                  | N.D.@20  | N.D.@1                                  | N.D.@5                                  | N.D.@20   | N.D.@1                           |
| Chloroform                                    | µg/l  | N.D.@100  | 5.7                                      | N.D.@100                                 | N.D.@100                                       | 1.1                                     | N.D.@5                                  | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| Chloromethane                                 | µg/l  | N.D.@200  | N.D.@1                                   | N.D.@200                                 | N.D.@200                                       | N.D.@1                                  | N.D.@5                                  | N.D.@20  | N.D.@1                                  | N.D.@5                                  | N.D.@20   | N.D.@1                           |
| cis-1,3-Dichloropropene*                      | µg/l  | N.D.@100  | N.D.@2                                   | N.D.@100                                 | N.D.@100                                       | N.D.@2                                  | N.D.@10                                 | N.D.@10  | N.D.@2                                  | N.D.@10                                 | N.D.@10   | N.D.@2                           |
| Dibromochloromethane                          | µg/l  | N.D.@100  | N.D.@1                                   | N.D.@100                                 | N.D.@100                                       | N.D.@1                                  | N.D.@5                                  | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| Ethylbenzene                                  | µg/l  | N.D.@100  | N.D.@1                                   | N.D.@100                                 | N.D.@100                                       | N.D.@1                                  | N.D.@5                                  | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| Methylene Chloride                            | µg/l  | N.D.@100  | 3.7                                      | N.D.@100                                 | N.D.@100                                       | N.D.@2                                  | N.D.@10                                 | N.D.@10  | N.D.@2                                  | N.D.@10                                 | N.D.@10   | N.D.@2                           |
| Tetrachloroethene                             | µg/l  | 2000  | 1860                                     | 1540                                     | 50   | 70                                      | 55                                      | 140  | 165                                     | 122                                     | N.D.@10   | N.D.@1                           |
| Toluene                                       | µg/l  | N.D.@100  | N.D.@1                                   | N.D.@100                                 | N.D.@100                                       | N.D.@1                                  | N.D.@5                                  | N.D.@10  | N.D.@1                                  | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| trans-1,2-Dichloroethene                      | µg/l  | N.D.@100  | 10                                       | N.D.@100                                 | N.D.@100                                       | 1.1                                     | N.D.@5                                  | N.D.@10  | 1.3                                     | N.D.@5                                  | N.D.@10   | N.D.@1                           |
| trans-1,3-Dichloropropene*                    | µg/l  | N.D.@100  | N.D.@1                                   | N.D.@100                                 | N.D.@100                                       | N.D.@1                                  | N.D.@10                                 | N.D.@10  | N.D.@1                                  | N.D.@10                                 | N.D.@10   | N.D.@1                           |
| Trichloroethene                               | µg/l  | 14000   | 16000                                    | 11200                                    | 600  | 805                                     | 562                                     | 610  | 741                                     | 526                                     | N.D.@10   | N.D.@1                           |
| Trichlorofluoromethane                        | µg/l  | N.A.  | N.A.                                     | N.D.@100                                 | N.A.   | N.A.                                    | N.D.@5                                  | N.A.   | N.A.                                    | N.D.@5                                  | N.A.  | N.A.                             |
| Vinyl chloride                                | µg/l  | N.D.@100  | 25                                       | N.D.@200                                 | N.D.@100                                       | N.D.@2                                  | N.D.@10                                 | N.D.@10  | N.D.@2                                  | N.D.@10                                 | N.D.@10   | N.D.@2                           |
| cis-1,2-Dichloroethene                        | µg/l  | 1900  | 2190                                     | 1880                                     | 140  | 195                                     | 132                                     | 200  | 221                                     | 180                                     | N.D.@10   | N.D.@1                           |
| TOTAL VOCs                                    | µg/l  | 32810   | 33884.1                                  | 24550                                    | 790  | 1175.6                                  | 804                                     | 1107   | 1288.3                                  | 938                                     | 0   | 0                                |

Notes:

N.A. - Not analyzed

N.D.@1 - Not detected at indicated concentration

\* - indicates that the December 2000 results are for total 1,3-Dichloropropene

TABLE A-4  
WATER QUALITY ANALYSES  
PACKED TOWER AERATOR SAMPLES (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND CONCENTRATIONS  
Harley - Davidson Motor Company

| Sample ID                |       | PTA Eff. | PTA Eff. | PTA Eff. | PTA Eff. | PTA Eff. | PTA Eff. |
|--------------------------|-------|----------|----------|----------|----------|----------|----------|
| Lab ID                   |       | 137074-2 | 138983-1 | 141310-1 | 143132-2 | 144959-1 | 147389-1 |
| Sample Date              |       | 07/06/99 | 08/03/99 | 09/07/99 | 10/04/99 | 11/02/99 | 12/13/99 |
| Parameter                | Units | Result   | Result   | Result   | Result   | Result   | Result   |
| 1,1,1-TRICHLOROETHANE    | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| 1,1-DICHLOROETHANE       | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| 1,1-DICHLOROETHENE       | µg/l  | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   |
| 1,2-DICHLOROETHANE       | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| CHLOROENZENE             | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| CHLOROFORM               | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| DICHLOROBROMOMETHANE     | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| TETRACHLOROETHENE        | µg/l  | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   |
| TRICHLOROETHENE          | µg/l  | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   |
| VINYL CHLORIDE           | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| TRANS 1,2-DICHLOROETHENE | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| TOTAL VOCs               | µg/l  | 0        | 0        | 0        | 0        | 0        | 0        |
| Sample ID                |       | PTA Eff. | PTA Eff. | PTA Eff. | PTA Eff. | PTA Eff. | PTA Eff. |
| Lab ID                   |       | 148432-2 | 150247-1 | 151973-1 | 154228-2 | 155659-1 | 157570-1 |
| Sample Date              |       | 01/03/00 | 02/04/00 | 03/03/00 | 04/07/00 | 05/03/00 | 06/02/00 |
| Parameter                | Units | Result   | Result   | Result   | Result   | Result   | Result   |
| 1,1,1-TRICHLOROETHANE    | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| 1,1-DICHLOROETHANE       | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| 1,1-DICHLOROETHENE       | µg/l  | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   |
| 1,2-DICHLOROETHANE       | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| CHLOROENZENE             | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| CHLOROFORM               | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| DICHLOROBROMOMETHANE     | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| TETRACHLOROETHENE        | µg/l  | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   |
| TRICHLOROETHENE          | µg/l  | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   |
| VINYL CHLORIDE           | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| TRANS 1,2-DICHLOROETHENE | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| TOTAL VOCs               | µg/l  | 0        | 0        | 0        | 0        | 0        | 0        |
| Sample ID                |       | PTA Eff. | PTA Eff. | PTA Eff. | PTA Eff. | PTA Eff. | PTA Eff. |
| Lab ID                   |       | 159795-2 | 161694-1 | 163986-1 | 165819-2 | 167884-1 | 169577-8 |
| Sample Date              |       | 07/07/00 | 08/04/00 | 09/08/00 | 10/05/00 | 11/03/00 | 12/01/00 |
| Parameter                | Units | Result   | Result   | Result   | Result   | Result   | Result   |
| 1,1,1-TRICHLOROETHANE    | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| 1,1-DICHLOROETHANE       | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| 1,1-DICHLOROETHENE       | µg/l  | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   |
| 1,2-DICHLOROETHANE       | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| CHLOROENZENE             | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| CHLOROFORM               | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| DICHLOROBROMOMETHANE     | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| TETRACHLOROETHENE        | µg/l  | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   |
| TRICHLOROETHENE          | µg/l  | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   | N.D.@1   |
| VINYL CHLORIDE           | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| TRANS 1,2-DICHLOROETHENE | µg/l  | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     | N.A.     |
| TOTAL VOCs               | µg/l  | 0        | 0        | 0        | 0        | 0        | 0        |



TABLE A-4  
 WATER QUALITY ANALYSES  
 PACKED TOWER AERATOR SAMPLES (July 1, 1999 - December 31, 2000)  
 VOLATILE ORGANIC COMPOUND CONCENTRATIONS  
 Harley - Davidson Motor Company

| Sample ID                |       | PTA Infl. | PTA Infl. | PTA Infl. | PTA Infl. | PTA Infl. | PTA Infl. |
|--------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|
| Lab ID                   |       | 137074-1  | 142132-1  | 148432-1  | 154228-1  | 159795-1  | 165819-1  |
| Sample Date              |       | 07/06/99  | 10/04/99  | 01/04/00  | 04/07/00  | 07/07/00  | 10/05/00  |
| Parameter                | Units | Result    | Result    | Result    | Result    | Result    | Result    |
| 1,1,1-TRICHLOROETHANE    | µg/l  | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      |
| 1,1-DICHLOROETHANE       | µg/l  | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      |
| 1,1-DICHLOROETHENE       | µg/l  | N.D.@50   | 46.4      | N.D.@50   | 33        | 29        | 62        |
| 1,2-DICHLOROETHANE       | µg/l  | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      |
| CHLOROBENZENE            | µg/l  | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      |
| CHLOROFORM               | µg/l  | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      |
| DICHLOROBROMOMETHANE     | µg/l  | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      |
| TETRACHLOROETHENE        | µg/l  | 466       | 462       | 469       | 346       | 429       | 528       |
| TRICHLOROETHENE          | µg/l  | 1010      | 908       | 952       | 768       | 934       | 1010      |
| VINYL CHLORIDE           | µg/l  | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      |
| TRANS 1,2-DICHLOROETHENE | µg/l  | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      | N.A.      |
| TOTAL VOCs               | µg/l  | 1476      | 1416.4    | 1421      | 1147      | 1392      | 1600      |

N.D.@I - Not detected at indicated concentration.

N.A. - Not Analyzed.

TABLE A-5  
GROUNDWATER QUALITY ANALYSES  
OFF-SITE SAMPLES (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley - Davidson Motor Company

| SAMPLE ID<br>SAMPLE DATE<br>ANALYTE | Units | RW-4 (FOLK)        |                    |                    |                    |                    |                    | RW-5*              |                      | S-6 (TATE)         |                    |                    |                    |                    |                    |
|-------------------------------------|-------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                     |       | 09/07/99<br>Result | 12/22/99<br>Result | 03/03/00<br>Result | 06/02/00<br>Result | 09/08/00<br>Result | 12/01/00<br>Result | 09/30/99<br>Result | 03/31/2000<br>Result | 09/07/99<br>Result | 12/22/99<br>Result | 03/03/00<br>Result | 06/02/00<br>Result | 09/08/00<br>Result | 12/01/00<br>Result |
| 1,1,1-Trichloroethane               | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 1,1,2,2-Tetrachloroethane           | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 1,1,2-Trichloroethane               | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 1,1-Dichloroethane                  | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 1,1-Dichloroethene                  | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 1,2-Dichloroethane                  | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 1,2-Dichloropropane                 | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 2-Chloroethyl vinyl ether           | µg/l  | NA                 | NA                 | NA                 | N.D.@1             | N.D.@1             | N.D.@1             | N.A.               | N.A.                 | NA                 | NA                 | NA                 | NA                 | N.D.@1             | N.D.@1             |
| Benzene                             | µg/l  | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             | N.D.@1             | N.A.               | N.A.                 | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             |
| Bromodichloromethane                | µg/l  | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             |
| Bromoform                           | µg/l  | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             |
| Bromomethane                        | µg/l  | N.D.@5             | N.D.@5             | N.D.@5             | N.D.@1             | N.D.@2             | N.D.@2             | N.D.               | N.D.                 | N.D.@5             | N.D.@5             | N.D.@5             | N.D.@5             | N.D.@2             | N.D.@2             |
| Carbon tetrachloride                | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| Chlorobenzene                       | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| Chloroethane                        | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| Chloroform                          | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | 6                  | 4.1                | 5                  | 6.6                | 6.4                | 5.9                |
| Chloromethane                       | µg/l  | N.D.@5             | N.D.@5             | N.D.@5             | N.D.@1             | N.D.@1             | N.D.@1             | N.A.               | N.A.                 | N.D.@5             | N.D.@5             | N.D.@5             | N.D.@5             | N.D.@1             | N.D.@1             |
| cis-1,3-Dichloropropene**           | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             | N.D.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             |
| cis-1,2-Dichloroethene              | µg/l  | NA                 | NA                 | NA                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | NA                 | NA                 | NA                 | NA                 | N.D.@1             | N.D.@1             |
| Dibromochloromethane                | µg/l  | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             | N.D.@1             | N.A.               | N.A.                 | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             |
| Ethylbenzene                        | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| Methylene Chloride                  | µg/l  | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@2             | N.D.@2             | N.D.               | N.D.                 | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@2             |
| Tetrachloroethene                   | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.A.               | N.A.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| Toluene                             | µg/l  | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             | N.D.@1             | N.A.               | N.A.                 | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             |
| trans-1,2-Dichloroethene            | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| trans-1,3-Dichloropropene**         | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             | 4                  | 4                    | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             |
| Trichloroethene                     | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.A.               | N.D.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| Trichlorofluoromethane              | µg/l  | NA                 | NA                 | NA                 | NA                 | N.D.@1             | N.D.@1             | N.A.               | N.D.                 | NA                 | NA                 | NA                 | NA                 | N.D.@1             | N.D.@1             |
| Vinyl chloride                      | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             | N.A.               | N.A.                 | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             |
| TOTAL VOCs                          | µg/l  | 0                  | 0                  | 0                  | 0                  | 0                  | 0                  | 4                  | 4                    | 6                  | 4.1                | 5                  | 6.6                | 6.4                | 5.9                |
| Cyanide (Free)                      | mg/l  | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.               | N.D.                 | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         |
| Cyanide (total)                     | mg/l  | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.               | N.D.                 | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         |

Notes:

\* - indicates that these data were collected by Langan Environmental Services as part of the remedial investigation at the site.

\*\* - indicates that a total 1,3-Dichloropropene value was reported for September and December, 2000.

1) N.D. - Not Detected.

2) NA - Not Analyzed.

TABLE A-5  
GROUNDWATER QUALITY ANALYSES  
OFF-SITE SAMPLES (July 1, 1999 - December 31, 2000)  
VOLATILE ORGANIC COMPOUND AND CYANIDE CONCENTRATIONS  
Harley - Davidson Motor Company

| SAMPLE ID<br>SAMPLE DATE<br>ANALYTE | Units | S-7 (HERMANN)      |                    |                    |                    |                    |                    | TRIP BLANK         |                    |                    |                    |                    |
|-------------------------------------|-------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                     |       | 09/07/99<br>Result | 12/22/99<br>Result | 03/03/00<br>Result | 06/02/00<br>Result | 09/08/00<br>Result | 12/01/00<br>Result | 09/07/99<br>Result | 12/22/99<br>Result | 03/03/00<br>Result | 06/02/00<br>Result | 12/01/00<br>Result |
| 1,1,1-Trichloroethane               | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 1,1,2,2-Tetrachloroethane           | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 1,1,2-Trichloroethane               | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 1,1-Dichloroethane                  | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 1,1-Dichloroethene                  | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 1,2-Dichloroethane                  | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 1,2-Dichloropropane                 | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| 2-Chloroethyl vinyl ether           | µg/l  | NA                 | NA                 | NA                 | N.D.@1             | N.D.@1             | N.D.@1             | NA                 | NA                 | N.D.@1             | N.D.@1             | N.D.@1             |
| Benzene                             | µg/l  | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             |
| Bromodichloromethane                | µg/l  | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             |
| Bromoform                           | µg/l  | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             |
| Bromomethane                        | µg/l  | N.D.@5             | N.D.@5             | N.D.@5             | N.D.@1             | N.D.@2             | N.D.@2             | N.D.@5             | N.D.@5             | N.D.@5             | N.D.@1             | N.D.@2             |
| Carbon tetrachloride                | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| Chlorobenzene                       | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| Chloroethane                        | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| Chloroform                          | µg/l  | 2.5                | 2.6                | 2.2                | 2.9                | 2.8                | 3.1                | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| Chloromethane                       | µg/l  | N.D.@5             | N.D.@5             | N.D.@5             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@5             | N.D.@5             | N.D.@5             | N.D.@1             | N.D.@1             |
| cis-1,3-Dichloropropene**           | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             |
| cis-1,2-Dichloroethene              | µg/l  | NA                 | NA                 | NA                 | N.D.@1             | N.D.@1             | N.D.@1             | NA                 | NA                 | NA                 | N.D.@1             | N.D.@1             |
| Dibromochloromethane                | µg/l  | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             |
| Ethylbenzene                        | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| Methylene Chloride                  | µg/l  | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@2             |
| Tetrachloroethene                   | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| Toluene                             | µg/l  | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             |
| trans-1,2-Dichloroethene            | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| trans-1,3-Dichloropropene**         | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             |
| Trichloroethene                     | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             |
| Trichlorofluoromethane              | µg/l  | NA                 | NA                 | NA                 | NA                 | N.D.@1             | N.D.@1             | NA                 | NA                 | NA                 | NA                 | N.D.@1             |
| Vinyl chloride                      | µg/l  | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             | N.D.@2             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@1             | N.D.@2             |
| TOTAL VOCs                          | µg/l  | 2.5                | 2.6                | 2.2                | 2.9                | 2.8                | 3.1                | 0                  | 0                  | 0                  | 0                  | 0                  |
| Cyanide (Free)                      | mg/l  | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | NA                 | NA                 | NA                 | NA                 | NA                 |
| Cyanide (total)                     | mg/l  | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | N.D.@0.005         | NA                 | NA                 | NA                 | NA                 | NA                 |

Notes:

\* - indicates that these data were collected by Langan Environmental Services as part of the remedial investigation at the site.

\*\* - indicates that a total 1,3-Dichloropropene value was reported for September and December, 2000.

1) N.D. - Not Detected.

2) NA - Not Analyzed.