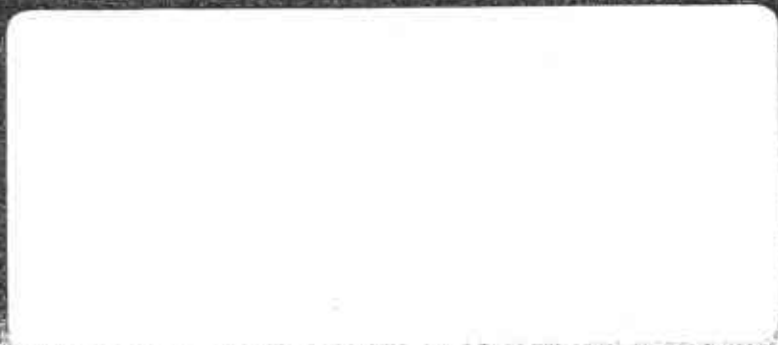


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**PES Environmental, Inc.**  
Engineering & Environmental Services



A Report Prepared For:

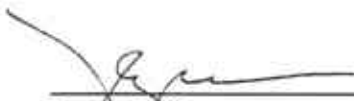
Jay-Phares Corporation  
10700 MacArthur Blvd., Suite 200  
Oakland, California 94605-5260

Attention: Mr. Hugh K. Phares, III  
Mr. John Jay

**QUARTERLY MONITORING REPORT  
FORMER YOUNG'S CLEANERS  
FOOTHILL SQUARE SHOPPING CENTER  
OAKLAND, CALIFORNIA**

**AUGUST 7, 1996**

By:

  
\_\_\_\_\_  
Jenny F. Han  
Senior Staff Geologist

  
\_\_\_\_\_  
William W. Mast, R.G.  
Senior Engineer

**502.0101.003**

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## 1.0 INTRODUCTION

This report presents the results of the first quarterly groundwater monitoring performed by PES Environmental, Inc. (PES) during April 1996 at Foothill Square Shopping Center (Site) in Oakland, California (Plate 1). PES has been retained by Jay-Phares Corporation to conduct the quarterly groundwater monitoring at the site. The current groundwater monitoring program consists of measuring the depth to groundwater in fourteen onsite monitoring wells on a quarterly basis, and purging and sampling twelve of the monitoring wells (Wells WGR MW-2 through 4, AMW-1, AMW-4 through 9, MW-6, and MW-7).

The purpose of the groundwater monitoring program at the site is to: (1) evaluate the presence of volatile organic compounds (VOCs) in groundwater; and (2) monitor water-level variations at the site. The quarterly monitoring program was performed in accordance with the procedures outlined in the *Proposal, Groundwater Monitoring, Former Young Cleaners, Foothill Square Shopping Center, Oakland, California* dated April 8, 1996 prepared by PES (PES, 1996).

## 2.0 BACKGROUND INFORMATION

The site is located in a residential and commercial area in Oakland, California. The site is presently used as a shopping center, which was developed in the early 1960's. Prior to the development of the Foothill Square Shopping Center, the site was a truck manufacturing plant. Young's Cleaners, located in the center of the shopping center near Well AMW-6, operated at the site between 1984 and 1995. Prior to Young's Cleaners, a coin operated dry cleaner, Norge Cleaners, operated at the location between 1962 and 1980. The cleaners have been on the CALSITES database list since 1980.

Beginning in January 1989, Western Geologic Resources (WGR) installed and monitored Wells WGR MW-1 through WGR MW-5 on the property to characterize the subsurface conditions due to the presence the adjacent ARCO gas station. Wells WGR MW-1, WGR MW-2, WGR MW-3, and WGR MW-5 were installed in what WGR defined as the shallow groundwater bearing zone, and Well WGR MW-4 was installed in the deep groundwater bearing zone.

Between 1991 and 1993, RESNA Consultants (RESNA) conducted an investigation on behalf of ARCO for the service station site in order to define the extent of gasoline contamination caused by leakage of petroleum fuels. During their investigation, RESNA reported detectable concentrations of chlorinated solvents in several soil borings. As a result, Alameda County Health Care Services Agency (ACHSA) requested an investigation of the vertical and lateral extent of tetrachloroethylene (PCE) on both the ARCO site and the Foothill Square Shopping Center by ARCO as documented in the March 23, 1993 letter.

In order to verify the source and extent of the PCE contamination, Augeas Corporation (Augeas) installed Wells AMW-1 through AMW-3 in September through November of 1994, Wells AMW-4 and AMW-5 in March 1995, and Wells AMW-6 through AMW-9 in July through August of 1995. Using groundwater bearing zones defined by the WGR wells, Augeas installed Wells

AMW-1 through AMW-7 in the shallow groundwater bearing zone, and Wells AMW-8 and AMW-9 in the deep groundwater bearing zone. A summary of the monitoring well completion details are provided on Table I.

Augeas began groundwater monitoring the AMW wells in October 1994. During September 1995, the last monitoring event conducted by Augeas, Wells WGR MW-1 through WGR MW-5, and MW-6 and MW-7 (installed on Foothill Square property by ARCO) were monitored in addition to the AMW wells (Augeas, 1995). The groundwater investigations conducted by Augeas concluded that the PCE contamination on the site was caused by a release of solvents from the dry cleaner and the associated underground sanitary sewer lateral. From October 1995 to January 1996, All Environmental, Inc. (AEI) excavated the contaminated soil and backfilled the excavation with clean fill material. During the excavation process, Wells AMW-2 and AMW-3 were accidentally destroyed (AEI, 1996). Soil from the excavation was spread over the southeast corner of the property for treatment by aeration under a permit from the Bay Area Air Quality Management District. Well WGR MW-5 was covered by the soil and is not currently accessible.

### 3.0 WATER-LEVEL MEASUREMENTS

Water levels in the fourteen onsite groundwater monitoring wells (Wells WGR MW-1 through WGR MW-4, AMW-1, AMW-4 through AMW-9, MW-6, and MW-7) were measured by PES prior to sampling on April 16, 1996. Depth-to-water in the monitoring wells was measured from the top-of-casing (TOC) reference benchmark to a precision of 0.01 foot using an electronic water-level indicator/interface probe. Depth-to-water measurements were converted to water-level elevations referenced to mean sea level (MSL) by subtracting the depth to water from the TOC reference elevation. Free product was not observed in any of the monitoring wells. The Water Level Data Form completed by PES is presented in Appendix A.

To prevent cross-contamination between wells, the portion of the water-level indicator that was submerged in the well was cleaned between well measurements using a phosphate-free detergent/deionized water solution and double rinsed with deionized water.

### 4.0 GROUNDWATER SAMPLING

Groundwater samples were collected from Wells WGR MW-2 through WGR MW-4, AMW-1, AMW-4 through AMW-9, MW-6, and MW-7 on April 16, 1996, by Blaine Tech Services, Inc. (Blaine Tech) of San Jose, California, under direct supervision of PES.

Groundwater samples were collected from each well after removing approximately three well volumes of water using either a positive displacement pump or disposable bailers. During well purging, the discharged water was monitored for pH, temperature, electrical conductivity, and turbidity. Following purging, samples were collected from the wells using a stainless steel or teflon disposable bailer and transferred to the appropriate laboratory sample containers. The sample containers were filled slowly to minimize sample volatilization and ensure that the sample

was free of air bubbles. The samples were labeled to designate sample number, time and date collected, and analysis required. The samples were immediately placed in a chilled, thermally-insulated cooler. To prevent cross-contamination between wells, the pump and the bailer were decontaminated using a high pressure steam cleaner prior to or after sampling at each well. Sampling procedures are documented in the groundwater sampling report prepared by Blaine Tech and included in Appendix B.

Groundwater samples were transported under proper chain-of-custody to American Environmental Network (AEN), a state-certified laboratory in Pleasant Hill, California. Samples collected from the twelve wells were analyzed for volatile organic compounds (VOCs) by EPA Test Method 8010. The AEN laboratory reports and chain-of-custody records are included in Appendix C.

## 5.0 DISCUSSION OF MONITORING RESULTS

This section presents a summary of water-level measurements and groundwater analyses results from the April 1996 sampling event.

### 5.1 Water-Level Measurements

Depth-to-water measurements and water-level elevations are presented in Table 2. Depth-to-water measurements for April 16, 1996, for the shallow groundwater zone ranged from 3.88 feet (WGR MW-1) to 21.99 feet (AMW-1) below top-of-casing (TOC). Shallow groundwater zone water-level elevations ranged from 39.38 feet MSL (MW-7) to 62.09 feet MSL (WGR MW-1). Depth-to-water measurements for the deep groundwater zone ranged from 14.31 feet (AMW-9) to 29.40 feet (MW-6) below TOC. Deep groundwater zone water-level elevations ranged from 32.38 feet MSL (MW-6) to 49.49 feet MSL (AMW-8).

Plates 3 and 4 present water-level elevation contours measured on April 16, 1996, for the shallow and the deep groundwater zones, respectively. The contoured water-level elevations indicate that groundwater flow for both the shallow and the deep groundwater zones is generally west to northwest. The groundwater gradient in the shallow groundwater zone ranges from 0.04 to 0.09 foot per foot (ft/ft). In the deep groundwater zone, the groundwater gradient is approximately 0.08 ft/ft.

### 5.2 Groundwater Chemistry

A summary of laboratory chemical analyses results is presented in Table 3; only those chemicals that were detected in at least one sample are listed. The analytical laboratory reports and chain-of-custody forms are presented in Appendix C.

In the shallow groundwater zone, the highest concentrations of VOCs were detected in Wells AMW-6, located near the former dry cleaners, and AMW-7, located adjacent to the onsite sanitary sewer lateral. This quarter PCE was detected at concentrations ranging from 0.6 (WGR

MW-3) to 2,300 (AMW-7) micrograms per liter ( $\mu\text{g/L}$ ); PCE concentrations in wells completed in the shallow groundwater zone are presented on Plate 5. Trichloroethylene (TCE), cis-1,2-dichloroethylene (c-1,2-DCE), trans-1,2-dichloroethylene (t-1,2-DCE), and Freon-12 were also detected in Wells WGR MW-3, AMW-4, and AMW-6, but generally at much lower concentrations than PCE. No VOCs were detected in Wells WGR MW-1, AMW-1, and AMW-5.

In the deep groundwater zone, PCE was detected in Wells AMW-8, AMW-9, and MW-6 at concentrations ranging from 0.8 to 1,400  $\mu\text{g/L}$ . PCE concentrations in deep wells are presented on Plate 6. Low concentrations of TCE and c-1,2-DCE were detected in Wells AMW-9 and MW-6. No VOCs were detected in Well WGR MW-4.

## 6.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

Chemical data obtained from groundwater sample analyses were validated according to accuracy, precision, and completeness criteria. For the quantity of samples analyzed this quarter, the QA/QC program evaluated chemical data on the basis of a trip blank and a field equipment blank.

The evaluation procedure for blanks includes a qualitative review of the chemical analyses data reported by the laboratory. The trip blank was prepared by AEN and submitted for EPA Test Method 8010. The field equipment blank was prepared in the field using deionized water supplied by AEN and analyzed using EPA Test Method 8010. No VOCs were detected in the trip blank or the field equipment blank. The data from AEN are considered to be representative and of good quality.

## 7.0 REFERENCES

- PES Environmental, Inc. (PES), 1996. *Proposal, Groundwater Monitoring, Former Young Cleaners, Foothill Square Shopping Center, Oakland, California*. April 8.
- Augeas Corporation (Augeas), 1995. *Report of Subsurface Investigation, Young's Cleaners, 10700 MacArthur Boulevard, Oakland, California*. December.
- All Environmental, Inc. (AEI), 1996. *Soil Remedial Investigation and Excavation Project Summary, Young's Cleaners, Foothill Shopping Center, 10700 MacArthur Boulevard, Oakland, California, 94605*. February 7.



**Table 1**  
**Summary of Monitoring Well Completion Details**  
Former Young's Cleaners  
Foothill Square Shopping Center  
Oakland, California

| Well Number | Date Installed | Installed By | Total Depth (feet bgs) | Screened Interval (feet bgs) | Top-of-Casing Elevation (feet MSL) | Groundwater Zone Monitored |
|-------------|----------------|--------------|------------------------|------------------------------|------------------------------------|----------------------------|
| WGR MW-1    | 12/5/88        | WGR          | 33.5                   | 23.5 - 28.5                  | 65.97                              | Shallow                    |
| WGR MW-2    | 12/6/88        | WGR          | 40.5                   | 23 - 28                      | 63.18                              | Shallow                    |
| WGR MW-3    | 12/7/88        | WGR          | 42                     | 22 - 27                      | 58.34                              | Shallow                    |
| WGR MW-4    | 12/7/88        | WGR          | 50.5                   | 23 - 45                      | 60.02                              | Deep                       |
| WGR MW-5    | 12/8/88        | WGR          | 31.5                   | 23.5 - 31.5                  | 68.94                              | Shallow                    |
| AMW-1       | 9/12/94        | Augeas       | 34                     | 24 - 34                      | 64.51                              | Shallow                    |
| AMW-2       | 9/30/94        | Augeas       | 29                     | 19 - 29                      | 65.33                              | Shallow<br>(abandoned)     |
| AMW-3       | 11/18/94       | Augeas       | 29                     | 19 - 29                      | 65.09                              | Shallow<br>(abandoned)     |
| AMW-4       | 3/22/95        | Augeas       | 25                     | 15 - 25                      | 64.79                              | Shallow                    |
| AMW-5       | 3/22/95        | Augeas       | 30                     | 20 - 30                      | 64.97                              | Shallow                    |
| AMW-6       | NA             | Augeas       | 25                     | NA                           | 65.10                              | Shallow                    |
| AMW-7       | NA             | Augeas       | 25                     | NA                           | 64.24                              | Shallow                    |
| AMW-8       | NA             | Augeas       | 48                     | NA                           | 64.55                              | Deep                       |
| AMW-9       | NA             | Augeas       | 53                     | NA                           | 63.48                              | Deep                       |
| MW-6        | 6/16/92        | RESNA        | 56                     | 37.5 - 56                    | 61.78                              | Deep                       |
| MW-7        | 6/16/92        | RESNA        | 37.5                   | 17.5 - 37.5                  | 58.64                              | Shallow                    |

**Note:**

feet bgs = Feet below ground surface

feet MSL = Feet above mean sea level

WGR = Western Geologic Resources, Inc.

Augeas = Augeas Corporation

RESNA = RESNA Consultants

NA = Not available

**Table 2**  
**Summary of Wells Sampled - April 16, 1996**  
**Former Young's Cleaners**  
**Foothill Square Shopping Center**  
**Oakland, California**

| <b>Well<br/>Number</b> |
|------------------------|
| WGR MW-2               |
| WGR MW-3               |
| WGR MW-4               |
| AMW-1                  |
| AMW-4                  |
| AMW-5                  |
| AMW-6                  |
| AMW-7                  |
| AMW-8                  |
| AMW-9                  |
| MW-6                   |
| MW-7                   |

**Table 3**  
**Water-Level Elevation Measurements**  
**Former Young's Cleaners**  
**Foothill Square Shopping Center**  
**Oakland, California**

| Well Number                | Date Measured | Measured by | Top of Casing Elevation (feet MSL)     | Depth to Water (feet bgs) | Water Table Elevation (feet MSL) |
|----------------------------|---------------|-------------|--|---------------------------|----------------------------------|
| WGR MW-1<br>(Shallow Zone) | 9/7/95        | Augeas      | 65.97                                  | 5.82                      | 60.15                            |
|                            | 4/16/96       | PES         | 65.97                                  | 3.88                      | 62.09                            |
| WGR MW-2<br>(Shallow Zone) | 11/3/94       | WGR         | 63.18                                  | 25.7                      | 37.48                            |
|                            | 3/23/95       | Augeas      | 63.18                                  | 21.32                     | 41.86                            |
|                            | 6/21/95       | Augeas      | 63.18                                  | 21.55                     | 41.63                            |
|                            | 9/7/95        | Augeas      | 63.18                                  | 23.37                     | 39.81                            |
|                            | 4/16/96       | PES         | 63.18                                  | 20.97                     | 42.21                            |
| WGR MW-3<br>(Shallow Zone) | 9/7/95        | Augeas      | 58.34                                  | 21.55                     | 36.79                            |
|                            | 4/16/96       | PES         | 58.34                                  | 18.49                     | 39.85                            |
| WGR MW-4<br>(Deep Zone)    | 9/7/95        | Augeas      | 60.02                                  | 27.2                      | 32.82                            |
|                            | 4/16/96       | PES         | 60.02                                  | 23.26                     | 36.76                            |
| WGR MW-5<br>(Shallow Zone) | 1/11/89       | WGR         | 68.94                                  | 19.00                     | 49.94                            |
|                            | 9/7/95        | Augeas      | 68.94                                  | NA                        | NA                               |
|                            | 4/16/96       | PES         | 68.94                                  | NA                        | NA                               |
| AMW-1<br>(Shallow Zone)    | 10/4/94       | Augeas      | 64.51                                  | 24.82                     | 39.69                            |
|                            | 11/3/94       | Augeas      | 64.51                                  | 25.08                     | 39.43                            |
|                            | 3/23/95       | Augeas      | 64.51                                  | 21.42                     | 43.09                            |
|                            | 6/21/95       | Augeas      | 64.51                                  | 23.5                      | 41.01                            |
|                            | 9/7/95        | Augeas      | 64.51                                  | 23.01                     | 41.5                             |
|                            | 4/16/96       | PES         | 64.51                                  | 21.99                     | 42.52                            |
| AMW-2<br>(Shallow Zone)    | 10/4/94       | Augeas      | 65.33                                  | 16.57                     | 48.76                            |
|                            | 10/18/94      | Augeas      | 65.33                                  | 16.70                     | 48.63                            |
|                            | 11/3/94       | Augeas      | 65.33                                  | 16.83                     | 48.50                            |
|                            | 3/23/95       | Augeas      | 65.33                                  | 13.12                     | 52.21                            |
|                            | 6/21/95       | Augeas      | 65.33                                  | 13.00                     | 52.33                            |
|                            | 9/7/95        | Augeas      | Well abandoned during site remediation |                           |                                  |
| AMW-3<br>(Shallow Zone)    | 11/28/94      | Augeas      | 65.09                                  | 14.84                     | 50.25                            |
|                            | 3/23/95       | Augeas      | 65.09                                  | 12.20                     | 52.89                            |
|                            | 6/21/95       | Augeas      | 65.09                                  | 11.80                     | 53.29                            |
|                            | 9/7/95        | Augeas      | Well abandoned during site remediation |                           |                                  |
| AMW-4<br>(Shallow Zone)    | 5/15/95       | Augeas      | 64.79                                  | 12.6                      | 52.19                            |
|                            | 6/21/95       | Augeas      | 64.79                                  | 12.5                      | 52.29                            |
|                            | 9/7/95        | Augeas      | 64.79                                  | 13.45                     | 51.34                            |
|                            | 4/16/96       | PES         | 64.79                                  | 11.00                     | 53.79                            |

**Table 3**  
**Water-Level Elevation Measurements**  
 Former Young's Cleaners  
 Foothill Square Shopping Center  
 Oakland, California

| Well Number             | Date Measured | Measured by | Top of Casing Elevation (feet MSL) | Depth to Water (feet bgs) | Water Table Elevation (feet MSL) |
|-------------------------|---------------|-------------|------------------------------------|---------------------------|----------------------------------|
| AMW-5<br>(Shallow Zone) | 5/15/95       | Augeas      | 64.97                              | 13.71                     | 51.26                            |
|                         | 6/21/95       | Augeas      | 64.97                              | 13.85                     | 51.12                            |
|                         | 9/7/95        | Augeas      | 64.97                              | 14.7                      | 50.27                            |
|                         | 4/16/96       | PES         | 64.97                              | 13.04                     | 51.93                            |
| AMW-6<br>(Shallow Zone) | 9/7/95        | Augeas      | 65.10                              | 14.32                     | 50.78                            |
|                         | 4/16/96       | PES         | 65.10                              | 12.10                     | 53.00                            |
| AMW-7<br>(Shallow Zone) | 9/7/95        | Augeas      | 64.24                              | 15.30                     | 48.94                            |
|                         | 4/16/96       | PES         | 64.24                              | 20.98                     | 43.26                            |
| AMW-8<br>(Deep Zone)    | 9/7/95        | Augeas      | 64.55                              | 17.90                     | 46.65                            |
|                         | 4/16/96       | PES         | 64.55                              | 15.06                     | 49.49                            |
| AMW-9<br>(Deep Zone)    | 9/7/95        | Augeas      | 63.48                              | 23.02                     | 40.46                            |
|                         | 4/16/96       | PES         | 63.48                              | 14.31                     | 49.17                            |
| MW-6<br>(Deep Zone)     | 6/30/92       | RESNA       | 61.21                              | 35.50                     | 25.71                            |
|                         | 7/15/92       | RESNA       | 61.21                              | 39.89                     | 21.32                            |
|                         | 8/25/92       | RESNA       | 61.21                              | 34.90                     | 26.31                            |
|                         | 9/9/92        | RESNA       | 61.21                              | NA                        | NA                               |
|                         | 10/31/92      | RESNA       | 61.21                              | NA                        | NA                               |
|                         | 11/20/92      | RESNA       | 61.21                              | NA                        | NA                               |
|                         | 12/16/92      | RESNA       | 61.21                              | NA                        | NA                               |
|                         | 1/22/93       | RESNA       | 61.21                              | 36.52                     | 24.69                            |
|                         | 2/12/93       | RESNA       | 61.21                              | 35.65                     | 25.56                            |
|                         | 3/28/93       | RESNA       | 61.21                              | 33.33                     | 27.88                            |
|                         | 4/30/93       | RESNA       | 61.21                              | 33.56                     | 27.65                            |
|                         | 5/12/93       | RESNA       | 61.21                              | 33.95                     | 27.26                            |
|                         | 6/17/93       | RESNA       | 61.21                              | 34.90                     | 26.31                            |
|                         | 8/18/93       | RESNA       | 61.21                              | 36.72                     | 24.49                            |
|                         | 11/10/93      | RESNA       | 61.21                              | 38.64                     | 22.57                            |
|                         | 2/4/94        | RESNA       | 61.21                              | 38.48                     | 22.73                            |
|                         | 5/2/94        | RESNA       | 61.21                              | 37.02                     | 24.19                            |
|                         | 8/3/94        | RESNA       | 61.21                              | 37.97                     | 23.24                            |
|                         | 12/6/94       | EMCON       | 61.21                              | 37.33                     | 23.88                            |
|                         | 3/10/95       | EMCON       | 61.21                              | 31.54                     | 29.67                            |
| 6/5/95                  | EMCON         | 61.21       | 31.15                              | 30.06                     |                                  |
| 9/7/95                  | EMCON         | 61.78*      | 34.09                              | 27.69                     |                                  |
| 4/16/96                 | PES           | 61.78       | 29.40                              | 32.38                     |                                  |

**Table 3**  
**Water-Level Elevation Measurements**  
 Former Young's Cleaners  
 Foothill Square Shopping Center  
 Oakland, California

| Well Number            | Date Measured | Measured by | Top of Casing Elevation (feet MSL) | Depth to Water (feet bgs) | Water Table Elevation (feet MSL) |
|------------------------|---------------|-------------|------------------------------------|---------------------------|----------------------------------|
| MW-7<br>(Shallow Zone) | 6/30/92       | RESNA       | 58.22                              | 23.70                     | 34.52                            |
|                        | 7/15/92       | RESNA       | 58.22                              | 23.10                     | 35.12                            |
|                        | 8/25/92       | RESNA       | 58.22                              | 34.23                     | 23.99                            |
|                        | 9/9/92        | RESNA       | 58.22                              | 26.30                     | 31.92                            |
|                        | 10/31/92      | RESNA       | 58.22                              | 35.44                     | 22.78                            |
|                        | 11/20/92      | RESNA       | 58.22                              | 23.47                     | 34.75                            |
|                        | 12/16/92      | RESNA       | 58.22                              | 19.07                     | 39.15                            |
|                        | 1/22/93       | RESNA       | 58.22                              | 16.56                     | 41.66                            |
|                        | 2/12/93       | RESNA       | 58.22                              | 18.22                     | 40.00                            |
|                        | 3/28/93       | RESNA       | 58.22                              | 18.04                     | 40.18                            |
|                        | 4/30/93       | RESNA       | 58.22                              | 19.34                     | 38.88                            |
|                        | 5/12/93       | RESNA       | 58.22                              | 19.80                     | 38.42                            |
|                        | 6/17/93       | RESNA       | 58.22                              | 22.63                     | 35.59                            |
|                        | 8/18/93       | RESNA       | 58.22                              | 22.44                     | 35.78                            |
|                        | 11/10/93      | RESNA       | 58.22                              | 24.51                     | 33.71                            |
|                        | 2/4/94        | RESNA       | 58.22                              | 20.78                     | 37.44                            |
|                        | 5/2/94        | RESNA       | 58.22                              | 20.51                     | 37.71                            |
|                        | 8/3/94        | RESNA       | 58.22                              | 22.66                     | 35.56                            |
|                        | 12/6/94       | EMCON       | 58.22                              | 18.37                     | 39.86                            |
|                        | 3/10/95       | EMCON       | 58.22                              | 17.69                     | 40.53                            |
| 6/5/95                 | EMCON         | 58.22       | 19.68                              | 38.54                     |                                  |
| 9/7/95                 | EMCON         | 58.64*      | 21.86                              | 36.78                     |                                  |
| 4/16/96                | PES           | 58.64       | 19.26                              | 39.38                     |                                  |

**Notes:**

feet MSL = Feet above mean sea level

NA = Not accessible

WGR = Western Geologic Resources, Inc.

Augeas = Augeas Corporation

PES = PES Environmental, Inc.

RESNA = RESNA Consultants

\* = Top of casing elevations were resurveyed by Augeas Corporation in March 1995.

**Table 4**  
**Summary of Analytical Results for Groundwater Samples Through April 1996**  
**Former Young's Cleaners**  
**Foothill Square Shopping Center**  
**Oakland, California**

| Well Number                | Date Sampled | Sampled by | Concentrations expressed in micrograms per liter |      |           |           |          |
|----------------------------|--------------|------------|--|------|-----------|-----------|----------|
|                            |              |            | PCE  | TCE  | c-1,2-DCE | t-1,2-DCE | Freon-12 |
| WGR MW-1<br>(Shallow Zone) | 12/13/88     | WGR        | <0.1   | <0.1 | <0.1      | <0.1      | <0.1     |
|                            | 9/12/95      | Augeas     | <0.5   | <0.5 | <0.5      | <0.5      | <0.5     |
| WGR MW-2<br>(Shallow Zone) | 12/13/88     | WGR        | <0.1   | <0.1 | <0.1      | <0.1      | <0.1     |
|                            | 2/10/94      | WGR        | <0.5   | <0.5 | <0.5      | <0.5      | <0.5     |
|                            | 3/23/95      | Augeas     | <0.5   | <0.5 | <0.5      | <0.5      | <0.5     |
|                            | 6/21/95      | Augeas     | <0.5   | <0.5 | <0.5      | <0.5      | <0.5     |
|                            | 9/11/95      | Augeas     | <0.5   | <0.5 | <0.5      | <0.5      | <0.5     |
|                            | 4/16/96      | PES        | <0.5   | <0.5 | <0.5      | <0.5      | <2       |
| WGR MW-3<br>(Shallow Zone) | 12/13/88     | WGR        | <0.1   | <0.1 | <0.1      | <0.1      | <0.1     |
|                            | 5/2/94       | EMCON      | <1   | <1   | <1        | NS        | NS       |
|                            | 8/3/94       | EMCON      | <1   | <1   | <1        | NS        | NS       |
|                            | 12/6/94      | EMCON      | 4  | <1   | <1        | NS        | NS       |
|                            | 9/11/95      | Augeas     | <0.5   | <0.5 | <0.5      | <0.5      | <0.5     |
|                            | 4/16/96      | PES        | 0.6  | 0.5  | <0.5      | <0.5      | 11       |
| WGR MW-4<br>(Deep Zone)    | 12/13/88     | WGR        | <0.1   | <0.1 | <0.1      | <0.1      | <0.1     |
|                            | 4/16/96      | PES        | <0.5   | <0.5 | <0.5      | <0.5      | <2       |
| WGR MW-5<br>(Shallow Zone) | 12/5/88      | WGR        | <0.1   | <0.1 | <0.1      | <0.1      | <0.1     |
| AMW-1<br>(Shallow Zone)    | 10/4/94      | Augeas     | <0.2   | <0.2 | <0.5      | <0.5      | <0.5     |
|                            | 3/23/95      | Augeas     | <0.5   | <0.5 | <0.5      | <0.5      | <0.5     |
|                            | 6/21/95      | Augeas     | <0.5   | <0.5 | <0.5      | <0.5      | <0.5     |
|                            | 9/11/95      | Augeas     | <0.5   | <0.5 | <0.5      | <0.5      | <0.5     |
|                            | 4/16/96      | PES        | <0.5   | <0.5 | <0.5      | <0.5      | <2       |
| AMW-2<br>(Shallow Zone)    | 10/4/94      | Augeas     | 28,000   | 320  | 110       | 50        | <0.5     |
|                            | 10/18/94     | Augeas     | 18,000   | <250 | <0.5      | <0.5      | <0.5     |
|                            | 11/8/94      | Augeas     | 35,000   | <0.5 | <0.5      | <0.5      | <0.5     |
|                            | 3/23/95      | Augeas     | 13,000   | <0.5 | <0.5      | <0.5      | <0.5     |
|                            | 6/21/95      | Augeas     | 36,000   | <0.5 | <0.5      | <0.5      | <0.5     |
|                            | 9/12/95      | Augeas     | Well abandoned during site remediation           |      |           |           |          |

**Table 4**  
**Summary of Analytical Results for Groundwater Samples Through April 1996**  
 Former Young's Cleaners  
 Foothill Square Shopping Center  
 Oakland, California

| Well Number             | Date Sampled | Sampled by | Concentrations expressed in micrograms per liter |      |           |           |          |
|-------------------------|--------------|------------|--|------|-----------|-----------|----------|
|                         |              |            | PCE  | TCE  | c-1,2-DCE | t-1,2-DCE | Freon-12 |
| AMW-3<br>(Shallow Zone) | 11/28/94     | Augeas     | 22   | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 3/23/95      | Augeas     | 45   | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 6/21/95      | Augeas     | <0.5   | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 9/12/95      | Augeas     | Well abandoned during site remediation           |      |           |           |          |
| AMW-4<br>(Shallow Zone) | 5/15/95      | Augeas     | 2,400  | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 6/21/95      | Augeas     | 2,500  | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 9/13/95      | Augeas     | 1,100  | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 4/16/96      | PES        | 1,200  | 10   | <10       | <10       | <40      |
| AMW-5<br>(Shallow Zone) | 5/15/95      | Augeas     | 1.2  | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 6/21/95      | Augeas     | <0.5   | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 9/12/95      | Augeas     | <0.5   | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 4/16/96      | PES        | <0.5   | <0.5 | <0.5      | <0.5      | <2       |
| AMW-6<br>(Shallow Zone) | 9/13/95      | Augeas     | 930  | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 4/16/96      | PES        | 1,900  | 110  | 20        | <10       | <40      |
| AMW-7<br>(Shallow Zone) | 9/12/95      | Augeas     | 2,350  | 340  | <0.5      | <0.5      | <0.5     |
|                         | 4/16/96      | PES        | 2,300  | 500  | 2,200     | 60        | <100     |
| AMW-8<br>(Deep Zone)    | 9/11/95      | Augeas     | 95   | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 4/16/96      | PES        | 0.8  | <0.5 | <0.5      | <0.5      | <2       |
| AMW-9<br>(Deep Zone)    | 9/13/95      | Augeas     | 170  | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 4/16/96      | PES        | 170  | 4    | 7         | <3        | <10      |
| MW-6<br>(Deep Zone)     | 6/30/92      | RESNA      | 2,400  | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 9/9/92       | RESNA      | NS   | NS   | NS        | NS        | NS       |
|                         | 11/20/92     | RESNA      | NS   | NS   | NS        | NS        | NS       |
|                         | 2/12/93      | RESNA      | 4,200  | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 5/12/93      | RESNA      | 3,500  | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 8/18/93      | RESNA      | 3,000  | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 11/10/93     | RESNA      | 3,900  | <0.5 | <0.5      | <0.5      | <0.5     |
|                         | 2/4/94       | RESNA      | 2,900  | <50  | <50       | <0.5      | <0.5     |
|                         | 5/2/94       | RESNA      | 2,000  | <50  | <50       | <0.5      | <0.5     |
|                         | 8/3/94       | RESNA      | 1,400  | <50  | <50       | <0.5      | <0.5     |
|                         | 12/6/94      | EMCON      | 2,000  | <50  | <50       | <0.5      | <0.5     |
|                         | 3/11/95      | EMCON      | 1,300  | <20  | <20       | <0.5      | <0.5     |
|                         | 6/5/95       | EMCON      | 2,000  | <20  | <20       | <20       | <20      |
|                         | 9/11/95      | EMCON      | 2,000  | <0.5 | <0.5      | <0.5      | <0.5     |
| 4/16/96                 | PES          | 1,400      | 10   | <10  | <10       | 100       |          |

**Table 4**  
**Summary of Analytical Results for Groundwater Samples Through April 1996**  
**Former Young's Cleaners**  
**Foothill Square Shopping Center**  
**Oakland, California**

| Well Number            | Date Sampled | Sampled by | Concentrations expressed in micrograms per liter               |       |           |           |          |
|------------------------|--------------|------------|--|-------|-----------|-----------|----------|
|                        |              |            | PCE  | TCE   | c-1,2-DCE | t-1,2-DCE | Freon-12 |
| MW-7<br>(Shallow Zone) | 6/30/92      | RESNA      | <1000  | <1000 | <1000     | <1000     | <1000    |
|                        | 9/9/92       | RESNA      | Not sampled: well contained floating product                   |       |           |           |          |
|                        | 11/20/92     | RESNA      | Not sampled: well contained floating product                   |       |           |           |          |
|                        | 2/12/93      | RESNA      | Not sampled: well contained floating product                   |       |           |           |          |
|                        | 5/12/93      | RESNA      | Not sampled: well contained floating product                   |       |           |           |          |
|                        | 8/18/93      | RESNA      | Not sampled: well contained floating product                   |       |           |           |          |
|                        | 11/10/93     | RESNA      | Not sampled: floating product entering the well during purging |       |           |           |          |
|                        | 2/4/94       | RESNA      | <50  | <50   | <50       | <50       | <50      |
|                        | 5/2/94       | RESNA      | <50  | <50   | <50       | <50       | <50      |
|                        | 8/3/94       | RESNA      | <50  | <50   | <50       | <50       | <50      |
|                        | 12/6/94      | EMCON      | <50  | <50   | <50       | <50       | <50      |
|                        | 3/11/95      | EMCON      | Not sampled: floating product entering the well during purging |       |           |           |          |
|                        | 6/5/95       | EMCON      | <10  | <10   | <10       | <10       | <10      |
|                        | 9/11/95      | EMCON      | 85   | <0.5  | <0.5      | <0.5      | <0.5     |
|                        | 4/16/96      | PES        | <0.5   | <0.5  | <0.5      | <0.5      | 8        |

**Notes:**

PCE = Tetrachloroethylene

TCE = Trichloroethylene

c-1,2-DCE = cis-1,2-dichloroethylene

t-1,2-DCE = trans-1,2-dichloroethylene

Freon 12 = Dichlorodifluoromethane

WGR = Western Geologic Resources, Inc.

Augeas = Augeas Corporation

PES = PES Environmental, Inc.

RESNA = RESNA Consultants

<0.002 = Concentration not detected at or above the indicated detection limit

NS = Not sampled because well was inaccessible





Ref. Oakland and East Bay Cities Street Map, Alameda County, California



**PES Environmental, Inc.**  
Engineering & Environmental Services

**Site Location Map**  
Foothill Square Shopping Center  
10700 MacArthur Boulevard  
Oakland, California

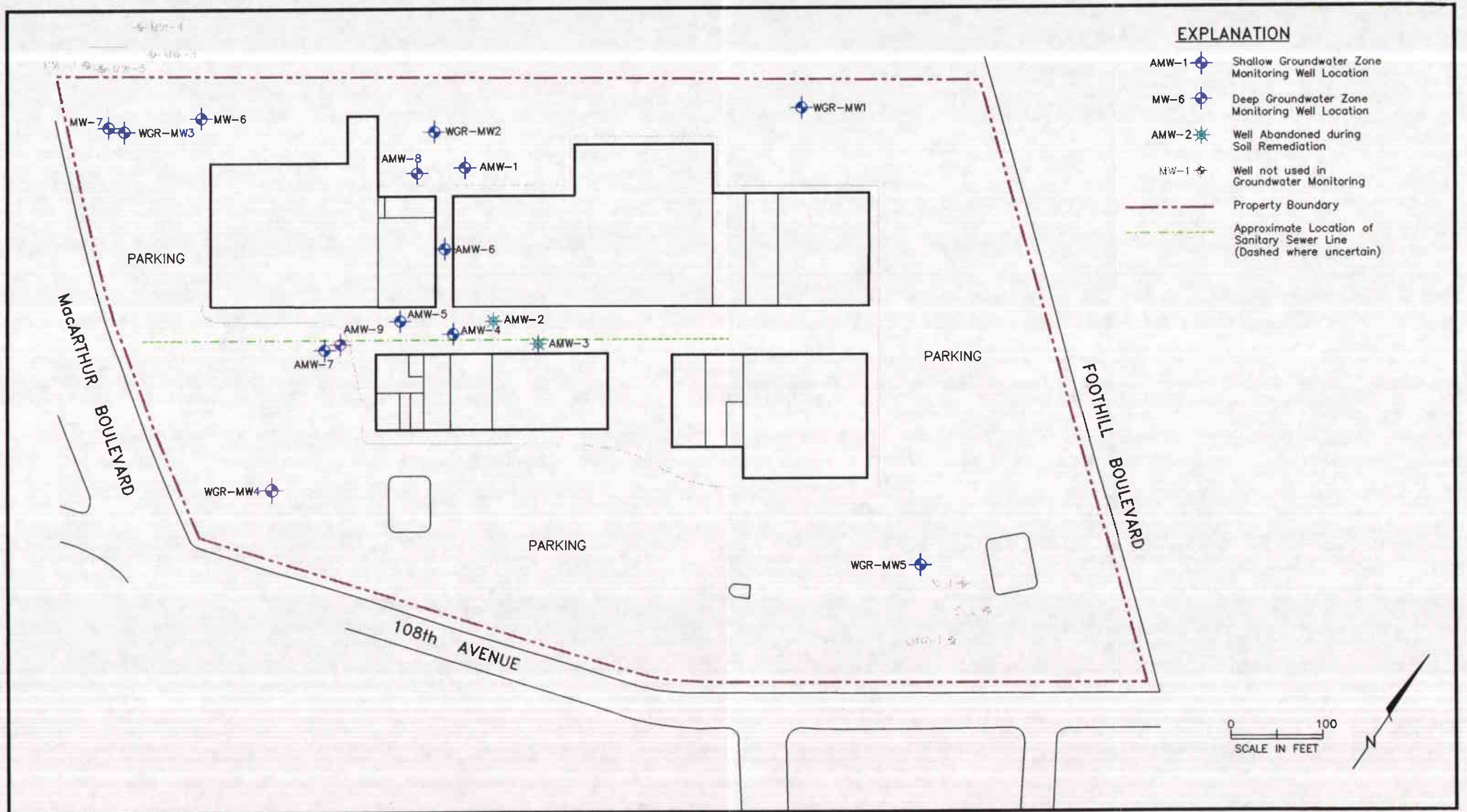
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**1**

502.0101.001  
JOB NUMBER

502011V1.CDR  
DRAWING NUMBER

**PJS**  
REVIEWED BY

8/96  
DATE



**EXPLANATION**

- AMW-1 Shallow Groundwater Zone Monitoring Well Location
- MW-6 Deep Groundwater Zone Monitoring Well Location
- AMW-2 Well Abandoned during Soil Remediation
- MW-1 Well not used in Groundwater Monitoring
- Property Boundary
- Approximate Location of Sanitary Sewer Line (Dashed where uncertain)

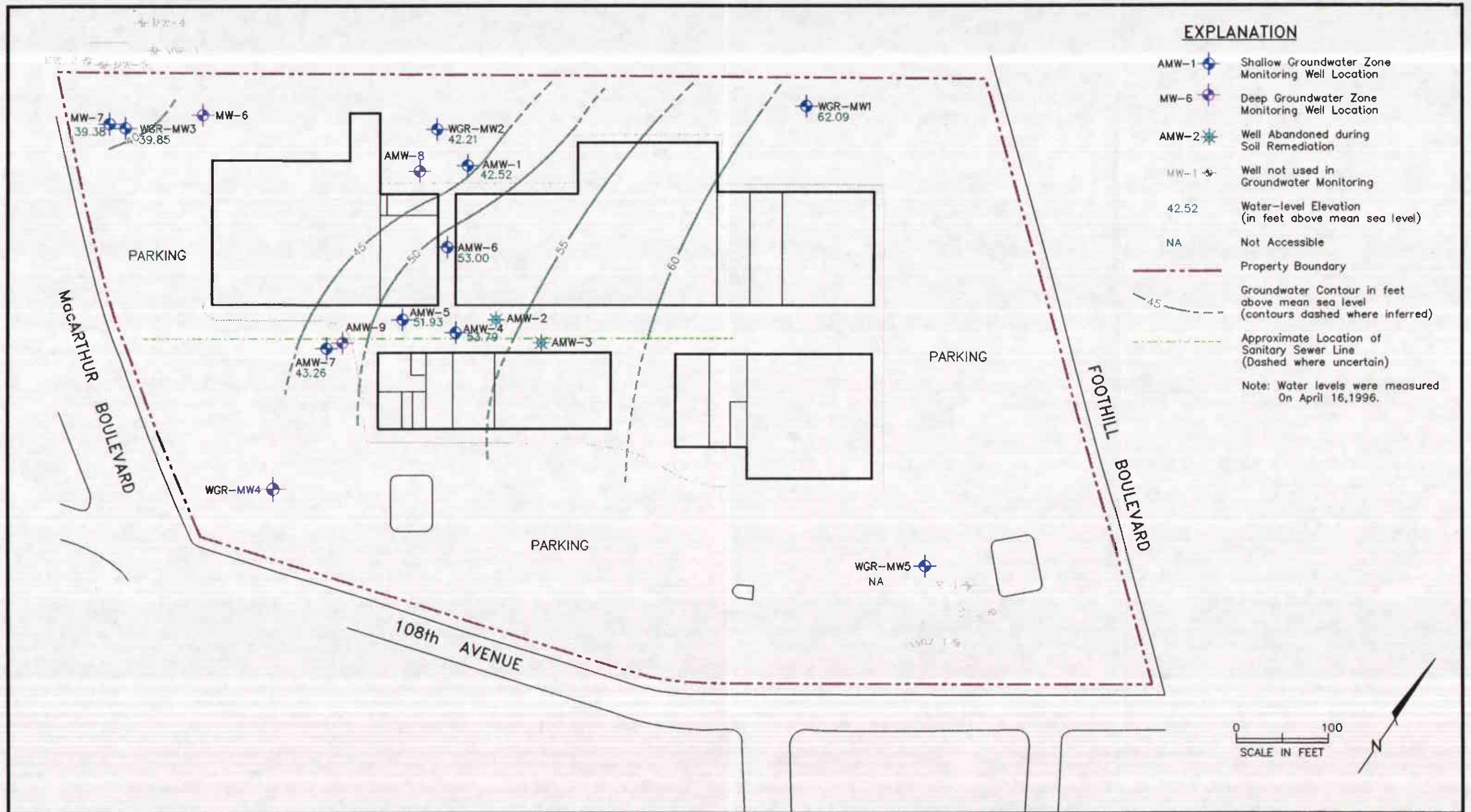
Site Plan and Monitoring Well Location Map  
 Foothill Square Shopping Center  
 10700 MacArthur Boulevard  
 Oakland, California

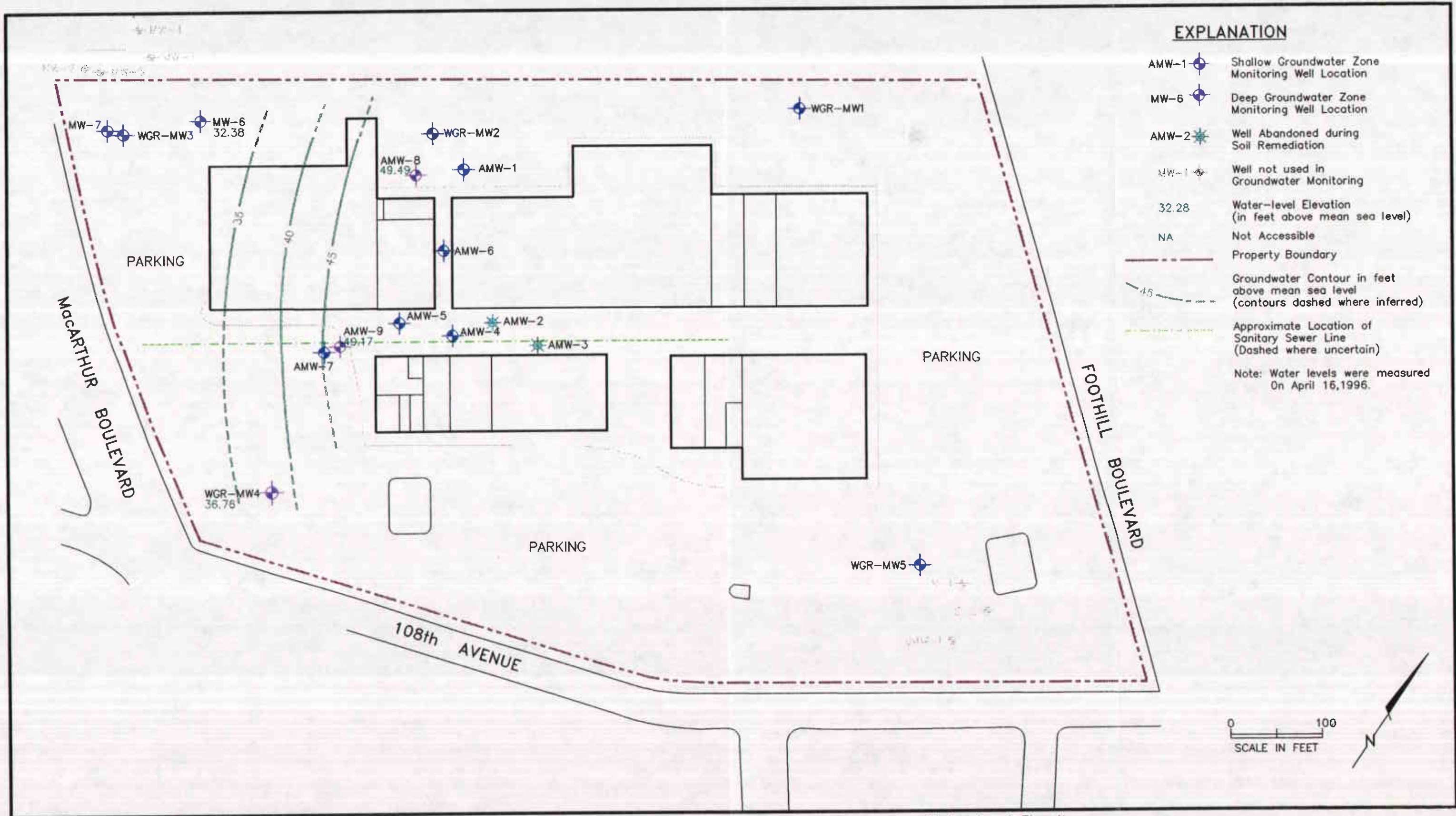
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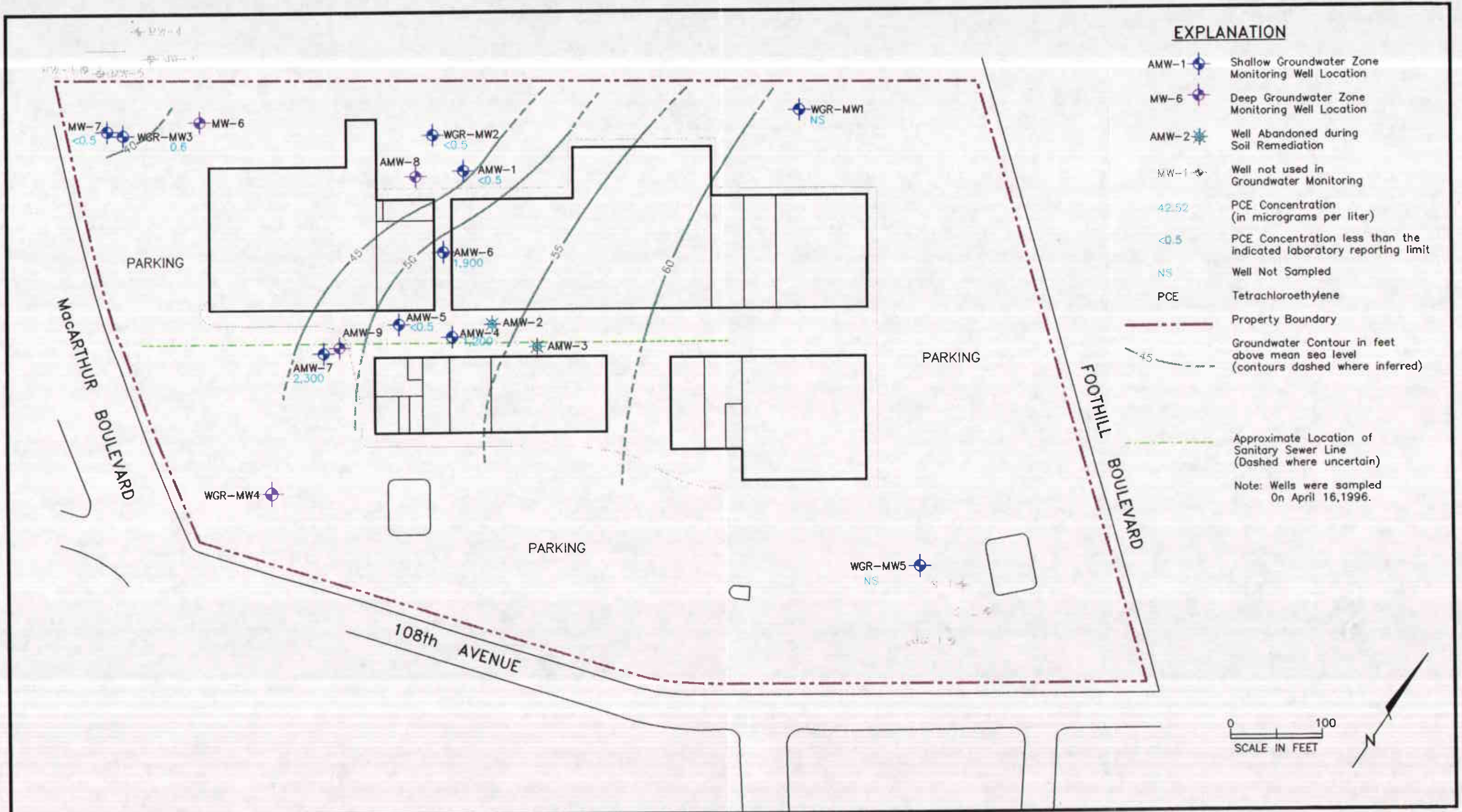
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6/96

DATE

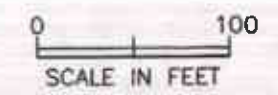


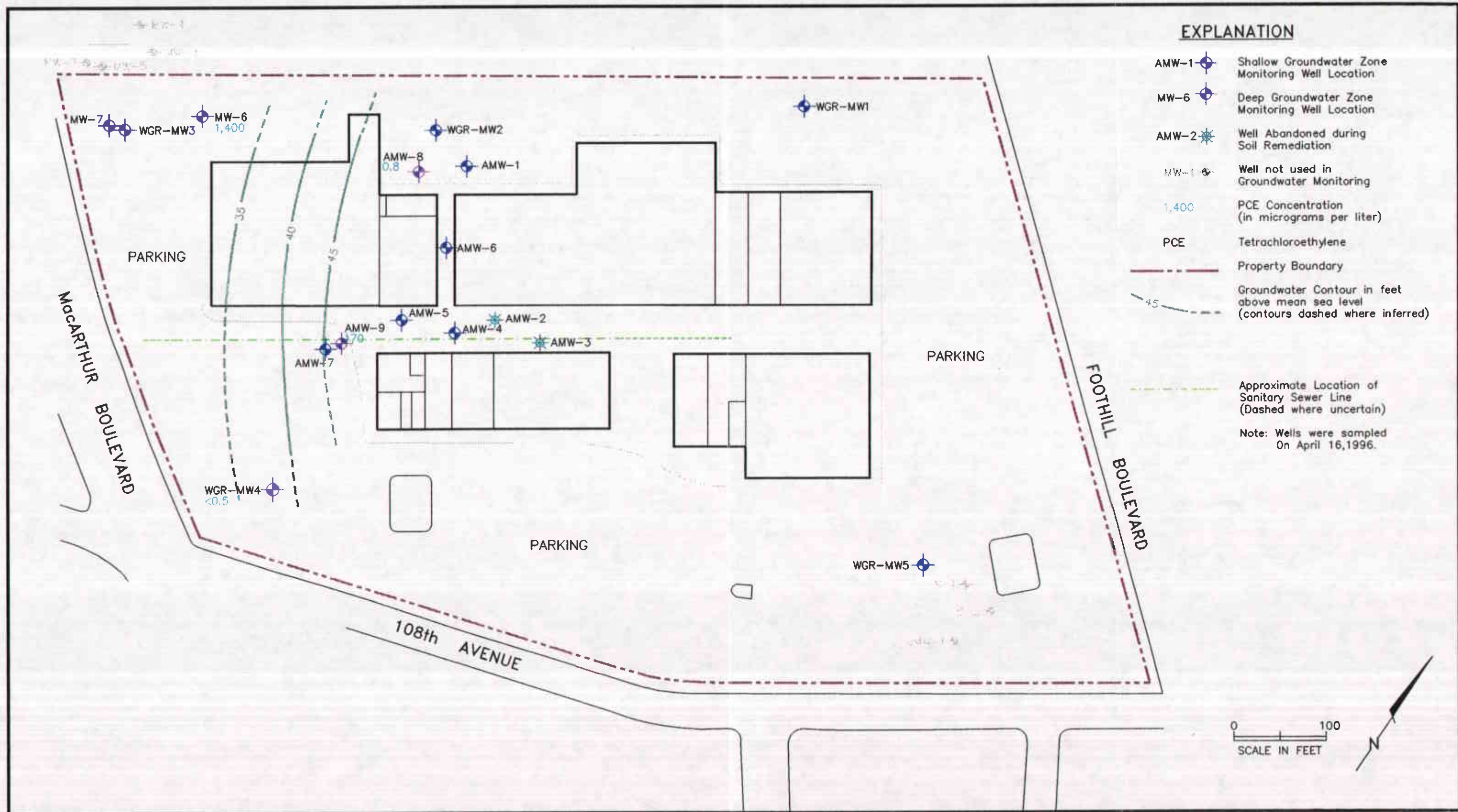




**EXPLANATION**

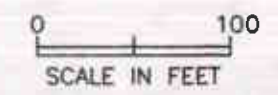
- AMW-1 Shallow Groundwater Zone Monitoring Well Location
- MW-6 Deep Groundwater Zone Monitoring Well Location
- AMW-2 Well Abandoned during Soil Remediation
- MW-1 Well not used in Groundwater Monitoring
- 42.52 PCE Concentration (in micrograms per liter)
- <0.5 PCE Concentration less than the indicated laboratory reporting limit
- NS Well Not Sampled
- PCE Tetrachloroethylene
- Property Boundary
- Groundwater Contour in feet above mean sea level (contours dashed where inferred)
- Approximate Location of Sanitary Sewer Line (Dashed where uncertain)
- Note: Wells were sampled On April 16, 1996.





**EXPLANATION**

- AMW-1 Shallow Groundwater Zone Monitoring Well Location
  - MW-6 Deep Groundwater Zone Monitoring Well Location
  - AMW-2 Well Abandoned during Soil Remediation
  - MW-1 Well not used in Groundwater Monitoring
  - 1,400 PCE Concentration (in micrograms per liter)
  - PCE Tetrachloroethylene
  - Property Boundary
  - Groundwater Contour in feet above mean sea level (contours dashed where inferred)
  - Approximate Location of Sanitary Sewer Line (Dashed where uncertain)
- Note: Wells were sampled On April 16, 1996.



**APPENDIX A**

**WATER-LEVEL DATA FORM**





**APPENDIX B**

**GROUNDWATER SAMPLING REPORT**

April 26, 1996

PES Environmental, Inc.  
1682 Novato Blvd., Suite 100  
Novato, CA 94947

ATTN: John Skalbeck

Site:  
10700 MacArthur Blvd.  
Oakland, California

Date:  
April 16, 1996

## **GROUNDWATER SAMPLING REPORT 960416-D-1**

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Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. does not participate in the interpretation of analytical results, or become involved with the marketing or installation of remedial systems.

This report deals with the groundwater well sampling performed by our firm in response to your request. Data collected in the course of our work at the site are presented in the TABLE OF WELL MONITORING DATA. This information was collected during our inspection, well evacuation and sample collection. Measurements include the total depth of the well and the depth to water. Water surfaces were further inspected for the presence of immiscibles. A series of electrical conductivity, pH, and temperature readings were obtained during well evacuation and at the time of sample collection.

# STANDARD PRACTICES

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## Evacuation and Sampling Equipment

As shown in the TABLE OF WELL MONITORING DATA, the wells at this site were evacuated according to a protocol requirement for the removal of three case volumes of water, before sampling. The wells were evacuated using bailers, middleburg, and electric submersible pumps.

Samples were collected using bailers.

**Bailers:** A bailer, in its simplest form, is a hollow tube which has been fitted with a check valve at the lower end. The device can be lowered into a well by means of a cord. When the bailer enters the water, the check valve opens and liquid flows into the interior of the bailer. The bottom check valve prevents water from escaping when the bailer is drawn up and out of the well.

Two types of bailers are used in groundwater wells at sites where fuel hydrocarbons are of concern. The first type of bailer is made of a clear material such as acrylic plastic and is used to obtain a sample of the surface and the near surface liquids, in order to detect the presence of visible or measurable fuel hydrocarbon floating on the surface. The second type of bailer is made of Teflon or stainless steel, and is used as an evacuation and/or sampling device.

Bailers are inexpensive and relatively easy to clean. Because they are manually operated, variations in operator technique may have a greater influence than would be found with more automated sampling equipment. Also, where fuel hydrocarbons are involved, the bailer may include near surface contaminants that are not representative of water deeper in the well.

**USGS/Middleburg Positive Displacement Sampling Pumps:** USGS/Middleburg positive displacement sampling pumps are EPA approved pumps appropriate for use in wells down to two inches in diameter and depths up to several hundred feet. The pump contains a flexible Teflon bladder which is alternately allowed to fill with well water and then collapsed. Actuation of the pump is accomplished with compressed air supplied by a single hose to one side of the Teflon membrane. Water on the other side of the membrane is squeezed out of the pump and up a Teflon conductor pipe to the surface. Evacuation and sampling are accomplished as a continuum. The rate of water removal is relatively slow and loss of volatiles almost non-existent. There is only positive pressure on the water being sampled and there is no impeller cavitation or suction. The pumps can be placed at any location within the well, can draw water from the very bottom of the well case, and are virtually immune to the erosive effects of silt or lack of water which destroy other types of pumps.

Disadvantages associated with Middleburg pumps include their high cost, low flow rate, temperamental operation, and cleaning requirements which are both elaborate and time consuming.

**Suction Pumps:** High volume suction pumps are frequently selected because of their low cost and simplicity of operation. The pump is located at the well head and draws water up through pipes lowered into the well and attached to the pump. The lowest section of pipe is fitted with a checkvalve to preclude water which has entered the pipe from re-entering the monitoring well. Well evacuation is efficient down to the effective twenty five foot limit of suction evacuation, but the discharge stream is unsuitable for sampling owing to the loss of volatiles caused by the suction applied by the pump. Therefore, the suction pump is only used to perform the evacuation protocol, and is then withdrawn. Sample collection is accomplished with a clean Teflon or stainless steel bailer.

**Electric Submersible Pumps:** Electric submersible pumps are appropriate for the high volume evacuation of wells of any depth provided the well diameter is large enough to admit the pump. Four inch and three inch diameter wells will readily accept electric submersible pumps, while two inch wells do not. In operation, the pump is lowered into the well with a pipe train above it. A checkvalve immediately above the pump and below the first section of pipe prevents water that has entered the pipe from flowing back into the well. Electricity is provided to the pump via an electrical cable and the action of the pump is to push water up out of the well.

Electric submersible pumps are often used as well evacuation devices, which are then supplanted with a more specialized sample collection device (such as a bailer) at the time of sampling. An alternative is to use the pump for both evacuation and sampling. When a bailer is used to collect the sample, interpretation of results by the consultant should allow for variations attributable to near surface contamination entering the bailer. When the electric submersible is, itself, used for sample collection it should be operated with the output restricted to a point where the loss of volatiles becomes indistinguishable from the level obtained with true sampling pumps. It should be noted that when the pump is used for both evacuation and sample collection that it is possible to perform these operations as an uninterrupted continuum. This contrasts with the variations in elapsed time between evacuation and sample collection that occur when field personnel cease one mode of operation and must bring other apparatus into use.

### **Decontamination**

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site.

### **Effluent Materials**

The evacuation process creates a volume of effluent water which must be contained. Blaine Tech Services, Inc. will place this water in appropriate containers of the client's choice or bring new 55 gallon DOT 17 E drums to the site, which are appropriate for the containment of the

effluent materials. The determination of how to properly dispose of the effluent water must usually await the results of laboratory analyses of the sample collected from the groundwater well. If that sample does not establish whether or not the effluent water is contaminated, or if effluent from more than one source has been combined in the same container, it may be necessary to conduct additional analyses on the effluent material.

### **Sampling Methodology**

Samples were obtained by standardized sampling procedures that follow an evacuation and sample collection protocol. The sampling methodology conforms to both State and Regional Water Quality Control Board standards and specifically adheres to EPA requirements for apparatus, sample containers and sample handling as specified in publication SW 846 and T.E.G.D. which is published separately.

### **Sample Containers**

Sample containers are supplied by the laboratory performing the analyses.

### **Sample Handling Procedures**

Following collection, samples are promptly placed in an ice chest containing deionized ice or an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

### **Sample Designations**

All sample containers are identified with both a sampling event number and a discrete sample identification number. Please note that the sampling event number is the number that appears on our chain of custody. It is roughly equivalent to a job number, but applies only to work done on a particular day of the year rather than spanning several days, as jobs and projects often do.

### **Chain of Custody**

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under our standard chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date and signature of person accepting custody of the samples).

## **Hazardous Materials Testing Laboratory**

The samples obtained at this site were delivered to American Environmental Network in Pleasant Hill, California. AEN is certified by the California Department of Health Services as a Hazardous Materials Testing Laboratory, and is listed as DOHS HMTL #1172.

## **Personnel**

All Blaine Tech Services, Inc. personnel receive 29 CFR 1910.120(e)(2) training as soon after being hired as is practical. In addition, many of our personnel have additional certifications that include specialized training in level B supplied air apparatus and the supervision of employees working on hazardous materials sites. Employees are not sent to a site unless we are confident they can adhere to any site safety provisions in force at the site and unless we know that they can follow the written provisions of an SSP and the verbal directions of an SSO.

In general, employees sent to a site to perform groundwater well sampling will assume an OSHA level D (wet) environment exists unless otherwise informed. The use of gloves and double glove protocols protects both our employees and the integrity of the samples being collected. Additional protective gear and procedures for higher OSHA levels of protection are available.

## **Reportage**

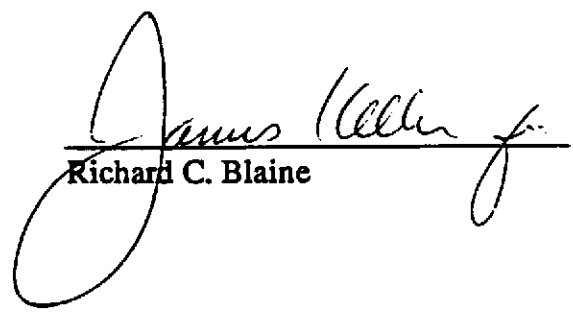
Submission to the Regional Water Quality Control Board and the local implementing agency should include copies of the sampling report, the chain of custody and the certified analytical report issued by the Hazardous Materials Testing Laboratory.

The following addresses have been listed here for your convenience:

Water Quality Control Board  
San Francisco Bay Region  
2101 Webster Street  
5th Floor  
Oakland, CA 94612  
ATTN: John West

Oakland Fire Prevention Bureau  
One City Hall Plaza  
Oakland, CA 94612  
ATTN: Stanley Y. Chi

Please call if we can be of any further assistance.

  
Richard C. Blaine

RCB/mc

attachments: table of well monitoring data  
chain of custody

## TABLE OF WELL MONITORING DATA

| Well I.D.                     | AMW-1      | AMW-4   | AMW-5   |            |       |       |            |       |       |
|-------------------------------|------------|---------|---------|------------|-------|-------|------------|-------|-------|
| Date Sampled                  | 4/16/96    | 4/16/96 | 4/16/96 |            |       |       |            |       |       |
| Well Diameter (in.)           | 2          | 2       | 2       |            |       |       |            |       |       |
| Total Well Depth (ft.)        | 33.98      | 24.72   | 30.25   |            |       |       |            |       |       |
| Depth To Water (ft.)          | 20.88      | 10.95   | 12.94   |            |       |       |            |       |       |
| Free Product (in.)            | NONE       | NONE    | NONE    |            |       |       |            |       |       |
| Reason If Not Sampled         | --         | --      | --      |            |       |       |            |       |       |
| 1 Case Volume (gal.)          | 2.0        | 2.2     | 2.8     |            |       |       |            |       |       |
| Did Well Dewater?             | NO         | NO      | NO      |            |       |       |            |       |       |
| Gallons Actually Evacuated    | 6.0        | 9.0     | 8.5     |            |       |       |            |       |       |
| Purging Device                | BAILER     | BAILER  | BAILER  |            |       |       |            |       |       |
| Sampling Device               | BAILER     | BAILER  | BAILER  |            |       |       |            |       |       |
| Time                          | 13:15      | 13:18   | 13:22   | 10:30      | 10:34 | 10:41 | 11:30      | 11:34 | 11:38 |
| Temperature (Fahrenheit)      | 68.6       | 68.4    | 68.4    | 64.4       | 65.4  | 65.6  | 64.8       | 65.2  | 64.8  |
| pH                            | 7.2        | 7.1     | 7.2     | 8.2        | 8.4   | 8.2   | 7.6        | 7.3   | 7.4   |
| Conductivity (micromhos/cm)   | 1800       | 2000    | 2100    | 600        | 710   | 1000  | 2200       | 2200  | 2200  |
| Nephelometric Turbidity Units | >200       | >200    | >200    | >200       | >200  | >200  | >200       | >200  | >200  |
| BTS Chain of Custody          | 960416-D-1 |         |         | 960416-D-1 |       |       | 960416-D-1 |       |       |
| BTS Sample I.D.               | AMW-1      |         |         | AMW-4      |       |       | AMW-5      |       |       |
| DOHS HMTL Laboratory          | AEN        |         |         | AEN        |       |       | AEN        |       |       |
| Analysis                      | EPA 8010   |         |         | EPA 8010   |       |       | EPA 8010   |       |       |



## TABLE OF WELL MONITORING DATA

| Well I.D.                     | AMW-6*     |       | AMW-7      |       |       | AMW-8      |       |       |       |
|-------------------------------|------------|-------|------------|-------|-------|------------|-------|-------|-------|
| Date Sampled                  | 4/16/96    |       | 4/16/96    |       |       | 4/16/96    |       |       |       |
| Well Diameter (in.)           | 2          |       | 2          |       |       | 2          |       |       |       |
| Total Well Depth (ft.)        | 25.00      |       | 25.02      |       |       | 48.42      |       |       |       |
| Depth To Water (ft.)          | 11.94      |       | 14.26      |       |       | 15.02      |       |       |       |
| Free Product (in.)            | NONE       |       | NONE       |       |       | NONE       |       |       |       |
| Reason If Not Sampled         | --         |       | --         |       |       | --         |       |       |       |
| 1 Case Volume (gal.)          | 2.0        |       | 1.7        |       |       | 5.3        |       |       |       |
| Did Well Dewater?             | NO         |       | NO         |       |       | NO         |       |       |       |
| Gallons Actually Evacuated    | 6.0        |       | 5.5        |       |       | 16.0       |       |       |       |
| Purging Device                | BAILER     |       | BAILER     |       |       | MIDDLEBURG |       |       |       |
| Sampling Device               | BAILER     |       | BAILER     |       |       | BAILER     |       |       |       |
| Time                          | 11:06      | 11:09 | 11:12      | 12:00 | 12:02 | 12:05      | 13:35 | 13:40 | 13:45 |
| Temperature (Fahrenheit)      | 63.8       | 63.6  | 64.0       | 68.8  | 68.4  | 68.2       | 66.6  | 66.6  | 66.2  |
| pH                            | 7.4        | 7.2   | 7.1        | 7.4   | 7.3   | 7.2        | 8.2   | 8.0   | 8.0   |
| Conductivity (micromhos/cm)   | 2400       | 2500  | 2500       | 1600  | 1800  | 1800       | 540   | 410   | 400   |
| Nephelometric Turbidity Units | >200       | >200  | >200       | >200  | >200  | >200       | >200  | >200  | >200  |
| BTS Chain of Custody          | 960416-D-1 |       | 960416-D-1 |       |       | 960416-D-1 |       |       |       |
| BTS Sample I.D.               | AMW-6      |       | AMW-7      |       |       | AMW-8      |       |       |       |
| DOHS HMTL Laboratory          | AEN        |       | AEN        |       |       | AEN        |       |       |       |
| Analysis                      | EPA 8010   |       | EPA 8010   |       |       | EPA 8010   |       |       |       |

\* Sample EB was an equipment blank sample taken after sampling AMW-4 and before sampling AMW-6.

## TABLE OF WELL MONITORING DATA

| Well I.D.                     | AMW-9      | MW-6       | MW-7       |       |       |       |       |       |       |
|-------------------------------|------------|------------|------------|-------|-------|-------|-------|-------|-------|
| Date Sampled                  | 4/16/96    | 4/16/96    | 4/16/96    |       |       |       |       |       |       |
| Well Diameter (in.)           | 2          | 2          | 2          |       |       |       |       |       |       |
| Total Well Depth (ft.)        | 54.30      | 50.72      | 36.65      |       |       |       |       |       |       |
| Depth To Water (ft.)          | 20.89      | 29.42      | 19.22      |       |       |       |       |       |       |
| Free Product (in.)            | NONE       | NONE       | NONE       |       |       |       |       |       |       |
| Reason If Not Sampled         | --         | --         | --         |       |       |       |       |       |       |
| 1 Case Volume (gal.)          | 5.3        | 3.4        | 2.8        |       |       |       |       |       |       |
| Did Well Dewater?             | NO         | NO         | NO         |       |       |       |       |       |       |
| Gallons Actually Evacuated    | 16.0       | 10.5       | 8.5        |       |       |       |       |       |       |
| Purging Device                | MIDDLEBURG | BAILER     | BAILER     |       |       |       |       |       |       |
| Sampling Device               | BAILER     | BAILER     | BAILER     |       |       |       |       |       |       |
| Time                          | 12:18      | 12:24      | 12:30      | 14:22 | 14:25 | 14:30 | 15:06 | 15:10 | 15:14 |
| Temperature (Fahrenheit)      | 69.0       | 68.2       | 68.4       | 67.0  | 66.6  | 66.8  | 68.2  | 68.8  | 68.6  |
| pH                            | 7.4        | 7.2        | 7.0        | 7.4   | 7.0   | 7.1   | 7.2   | 7.1   | 7.1   |
| Conductivity (micromhos/cm)   | 2200       | 2100       | 2100       | 1200  | 1700  | 1800  | 580   | 540   | 500   |
| Nephelometric Turbidity Units | 40.2       | 92.3       | 33.2       | >200  | >200  | >200  | >200  | >200  | >200  |
| BTS Chain of Custody          | 960416-D-1 | 960416-D-1 | 960416-D-1 |       |       |       |       |       |       |
| BTS Sample I.D.               | AMW-9      | MW-6       | MW-7       |       |       |       |       |       |       |
| DOHS HMTL Laboratory          | AEN        | AEN        | AEN        |       |       |       |       |       |       |
| Analysis                      | EPA 8010   | EPA 8010   | EPA 8010   |       |       |       |       |       |       |

## TABLE OF WELL MONITORING DATA

| Well I.D.                     | WGR-MW-2             |       |       | WGR-MW-3             |       |       | WGR-MW-4             |       |       |
|-------------------------------|----------------------|-------|-------|----------------------|-------|-------|----------------------|-------|-------|
| Date Sampled                  | 4/16/96              |       |       | 4/16/96              |       |       | 4/16/96              |       |       |
| Well Diameter (in.)           | 4                    |       |       | 4                    |       |       | 4                    |       |       |
| Total Well Depth (ft.)        | 27.95                |       |       | 26.90                |       |       | 44.93                |       |       |
| Depth To Water (ft.)          | 20.92                |       |       | 18.53                |       |       | 23.24                |       |       |
| Free Product (in.)            | NONE                 |       |       | NONE                 |       |       | NONE                 |       |       |
| Reason If Not Sampled         | --                   |       |       | --                   |       |       | --                   |       |       |
| 1 Case Volume (gal.)          | 4.6                  |       |       | 5.4                  |       |       | 14.0                 |       |       |
| Did Well Dewater?             | NO                   |       |       | NO                   |       |       | NO                   |       |       |
| Gallons Actually Evacuated    | 14.0                 |       |       | 16.5                 |       |       | 42.5                 |       |       |
| Purging Device                | ELECTRIC SUBMERSIBLE |       |       | ELECTRIC SUBMERSIBLE |       |       | ELECTRIC SUBMERSIBLE |       |       |
| Sampling Device               | BAILER               |       |       | BAILER               |       |       | BAILER               |       |       |
| Time                          | 14:02                | 14:04 | 14:06 | 14:47                | 14:49 | 14:52 | 12:54                | 12:57 | 13:00 |
| Temperature (Fahrenheit)      | 70.6                 | 70.8  | 71.4  | 70.2                 | 70.8  | 70.6  | 71.2                 | 71.2  | 72.0  |
| pH                            | 7.1                  | 6.8   | 6.8   | 7.6                  | 7.2   | 7.0   | 7.6                  | 7.0   | 6.8   |
| Conductivity (micromhos/cm)   | 800                  | 1200  | 1200  | 600                  | 480   | 440   | 750                  | 900   | 1000  |
| Nephelometric Turbidity Units | >200                 | 162.8 | 116.2 | 193.2                | 146.3 | 132.6 | >200                 | 178.5 | 99.4  |
| BTS Chain of Custody          | 960416-D-1           |       |       | 960416-D-1           |       |       | 960416-D-1           |       |       |
| BTS Sample I.D.               | WGR-MW-2             |       |       | WGR-MW-3             |       |       | WGR-MW-4             |       |       |
| DOHS HMTL Laboratory          | AEN                  |       |       | AEN                  |       |       | AEN                  |       |       |
| Analysis                      | EPA 8010             |       |       | EPA 8010             |       |       | EPA 8010             |       |       |

CONDUCT ANALYSIS TO DETECT

LAB AEN DHS # \_\_\_\_\_

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

EPA  RWQCB REGION \_\_\_\_\_

LIA

OTHER

CHAIN OF CUSTODY 960416-D1

CLIENT PES ENVIRONMENTAL

SITE FOOTHILL SHOPPING CENTER  
15700 MACARTHUR  
OAKLAND.

C = COMPOSITE ALL CONTAINERS

EPA # 9010

SPECIAL INSTRUCTIONS Invoice & Report to PES Environmental.  
ATTN: John Starbeck

| SAMPLE ID | DATE | TIME | MATRIX |   | TOTAL | CONTAINERS | C = COMPOSITE ALL CONTAINERS | EPA # | ADD'L INFORMATION | STATUS | CONDITION | LAB SAMPLE # |
|-----------|------|------|--------|---|-------|------------|------------------------------|-------|-------------------|--------|-----------|--------------|
|           |      |      | S      | W |       |            |                              |       |                   |        |           |              |
| WGR-AW-2  | 4-16 | 1410 | ✓      | ✓ | 3     | 10 L       | ✓                            | X     |                   |        |           |              |
| WGR-AW-3  | 4-16 | 1455 |        |   | 3     |            |                              | X     |                   |        |           |              |
| WGR-AW-4  | 4-16 | 1300 |        |   | 3     |            |                              | X     |                   |        |           |              |
| AMW-1     | 4-16 | 1325 |        |   | 3     |            |                              | X     |                   |        |           |              |
| AMW-4     | 4-16 | 1045 |        |   | 3     |            |                              | X     |                   |        |           |              |
| AMW-5     | 4-16 | 1145 |        |   | 3     |            |                              | X     |                   |        |           |              |
| AMW-6     | 4-16 | 1115 |        |   | 3     |            |                              | X     |                   |        |           |              |
| AMW-7     | 4-16 | 1200 |        |   | 3     |            |                              | X     |                   |        |           |              |
| AMW-8     | 4-16 | 1350 |        |   | 3     |            |                              | X     |                   |        |           |              |
| AMW-9     | 4-16 | 1235 | ✓      | ✓ | 3     |            |                              | X     |                   |        |           |              |

SAMPLING COMPLETED DATE 4-16 TIME \_\_\_\_\_ SAMPLING PERFORMED BY MIKE DILLON

RESULTS NEEDED NO LATER THAN "As Contracted"

RELEASED BY [Signature] DATE 4-17-96 TIME 1035 RECEIVED BY [Signature] DATE 4-17-96 TIME 1035

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ RECEIVED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ RECEIVED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

SHIPPED VIA \_\_\_\_\_ DATE SENT \_\_\_\_\_ TIME SENT \_\_\_\_\_ COOLER # \_\_\_\_\_



**APPENDIX C**

**LABORATORY REPORT  
AND  
CHAIN-OF-CUSTODY RECORDS**

# American Environmental Network

## Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

PES ENVIRONMENTAL, INC.  
1682 NOVATO BLVD.  
SUITE 100  
NOVATO, CA 94947

ATTN: JOHN SKALBECK  
CLIENT PROJ. ID: 960416-D1  
CLIENT PROJ. NAME: FOOTHILL CTR

REPORT DATE: 05/23/96

DATE(S) SAMPLED: 04/16/96

DATE RECEIVED: 04/17/96

AEN WORK ORDER: 9604227


### PROJECT SUMMARY:

On April 17, 1996, this laboratory received 14 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

  
Larry Klein  
Laboratory Director

Revision of report dated 04/26/96

## PES ENVIRONMENTAL, INC.

SAMPLE ID: WGR-MW3  
 AEN LAB NO: 9604227-02  
 AEN WORK ORDER: 9604227  
 CLIENT PROJ. ID: 960416-D1

DATE SAMPLED: 04/16/96  
 DATE RECEIVED: 04/17/96  
 REPORT DATE: 05/23/96

| ANALYTE                        | METHOD/<br>CAS# | RESULT | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|--------------------------------|-----------------|--------|--------------------|-------|------------------|
| EPA 8010 - Water matrix        | EPA 8010        |        |                    |       |                  |
| Bromodichloromethane           | 75-27-4         | ND     | 0.5                | ug/L  | 04/18/96         |
| Bromoform                      | 75-25-2         | ND     | 0.5                | ug/L  | 04/18/96         |
| Bromomethane                   | 74-83-9         | ND     | 2                  | ug/L  | 04/18/96         |
| Carbon Tetrachloride           | 56-23-5         | ND     | 0.5                | ug/L  | 04/18/96         |
| Chlorobenzene                  | 108-90-7        | ND     | 0.5                | ug/L  | 04/18/96         |
| Chloroethane                   | 75-00-3         | ND     | 2                  | ug/L  | 04/18/96         |
| 2-Chloroethyl Vinyl Ether      | 110-75-8        | ND     | 0.5                | ug/L  | 04/18/96         |
| Chloroform                     | 67-66-3         | ND     | 0.5                | ug/L  | 04/18/96         |
| Chloromethane                  | 74-87-3         | ND     | 2                  | ug/L  | 04/18/96         |
| Dibromochloromethane           | 124-48-1        | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,2-Dichlorobenzene            | 95-50-1         | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,3-Dichlorobenzene            | 541-73-1        | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,4-Dichlorobenzene            | 106-46-7        | ND     | 0.5                | ug/L  | 04/18/96         |
| Dichlorodifluoromethane        | 75-71-8         | 11 *   | 2                  | ug/L  | 04/18/96         |
| 1,1-Dichloroethane             | 75-34-3         | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,2-Dichloroethane             | 107-06-2        | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,1-Dichloroethene             | 75-35-4         | ND     | 0.5                | ug/L  | 04/18/96         |
| cis-1,2-Dichloroethene         | 156-59-2        | ND     | 0.5                | ug/L  | 04/18/96         |
| trans-1,2-Dichloroethene       | 156-60-5        | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,2-Dichloropropane            | 78-87-5         | ND     | 0.5                | ug/L  | 04/18/96         |
| cis-1,3-Dichloropropene        | 10061-01-5      | ND     | 0.5                | ug/L  | 04/18/96         |
| trans-1,3-Dichloropropene      | 10061-02-6      | ND     | 0.5                | ug/L  | 04/18/96         |
| Methylene Chloride             | 75-09-2         | ND     | 2                  | ug/L  | 04/18/96         |
| 1,1,2,2-Tetrachloroethane      | 79-34-5         | ND     | 0.5                | ug/L  | 04/18/96         |
| Tetrachloroethene              | 127-18-4        | 0.6 *  | 0.5                | ug/L  | 04/18/96         |
| 1,1,1-Trichloroethane          | 71-55-6         | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,1,2-Trichloroethane          | 79-00-5         | ND     | 0.5                | ug/L  | 04/18/96         |
| Trichloroethene                | 79-01-6         | 0.5 *  | 0.5                | ug/L  | 04/18/96         |
| Trichlorofluoromethane         | 75-69-4         | ND     | 2                  | ug/L  | 04/18/96         |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1         | ND     | 0.5                | ug/L  | 04/18/96         |
| Vinyl Chloride                 | 75-01-4         | ND     | 2                  | ug/L  | 04/18/96         |

ND = Not detected at or above the reporting limit  
 \* = Value at or above reporting limit



## PES ENVIRONMENTAL, INC.

SAMPLE ID: AMW-1  
 AEN LAB NO: 9604227-04  
 AEN WORK ORDER: 9604227  
 CLIENT PROJ. ID: 960416-01

DATE SAMPLED: 04/16/96  
 DATE RECEIVED: 04/17/96  
 REPORT DATE: 05/23/96

| ANALYTE                       | METHOD/<br>CAS# | RESULT | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|-------------------------------|-----------------|--------|--------------------|-------|------------------|
| EPA 8010 - Water matrix       | EPA 8010        |        |                    |       |                  |
| Bromodichloromethane          | 75-27-4         | ND     | 0.5                | ug/L  | 04/19/96         |
| Bromoform                     | 75-25-2         | ND     | 0.5                | ug/L  | 04/19/96         |
| Bromomethane                  | 74-83-9         | ND     | 2                  | ug/L  | 04/19/96         |
| Carbon Tetrachloride          | 56-23-5         | ND     | 0.5                | ug/L  | 04/19/96         |
| Chlorobenzene                 | 108-90-7        | ND     | 0.5                | ug/L  | 04/19/96         |
| Chloroethane                  | 75-00-3         | ND     | 2                  | ug/L  | 04/19/96         |
| 2-Chloroethyl Vinyl Ether     | 110-75-8        | ND     | 0.5                | ug/L  | 04/19/96         |
| Chloroform                    | 67-66-3         | ND     | 0.5                | ug/L  | 04/19/96         |
| Chloromethane                 | 74-87-3         | ND     | 2                  | ug/L  | 04/19/96         |
| Dibromochloromethane          | 124-48-1        | ND     | 0.5                | ug/L  | 04/19/96         |
| 1,2-Dichlorobenzene           | 95-50-1         | ND     | 0.5                | ug/L  | 04/19/96         |
| 1,3-Dichlorobenzene           | 541-73-1        | ND     | 0.5                | ug/L  | 04/19/96         |
| 1,4-Dichlorobenzene           | 106-46-7        | ND     | 0.5                | ug/L  | 04/19/96         |
| Dichlorodifluoromethane       | 75-71-8         | ND     | 2                  | ug/L  | 04/19/96         |
| 1,1-Dichloroethane            | 75-34-3         | ND     | 0.5                | ug/L  | 04/19/96         |
| 1,2-Dichloroethane            | 107-06-2        | ND     | 0.5                | ug/L  | 04/19/96         |
| 1,1-Dichloroethene            | 75-35-4         | ND     | 0.5                | ug/L  | 04/19/96         |
| cis-1,2-Dichloroethene        | 156-59-2        | ND     | 0.5                | ug/L  | 04/19/96         |
| trans-1,2-Dichloroethene      | 156-60-5        | ND     | 0.5                | ug/L  | 04/19/96         |
| 1,2-Dichloropropane           | 78-87-5         | ND     | 0.5                | ug/L  | 04/19/96         |
| cis-1,3-Dichloropropene       | 10061-01-5      | ND     | 0.5                | ug/L  | 04/19/96         |
| trans-1,3-Dichloropropene     | 10061-02-6      | ND     | 0.5                | ug/L  | 04/19/96         |
| Methylene Chloride            | 75-09-2         | ND     | 2                  | ug/L  | 04/19/96         |
| 1,1,2,2-Tetrachloroethane     | 79-34-5         | ND     | 0.5                | ug/L  | 04/19/96         |
| Tetrachloroethene             | 127-18-4        | ND     | 0.5                | ug/L  | 04/19/96         |
| 1,1,1-Trichloroethane         | 71-55-6         | ND     | 0.5                | ug/L  | 04/19/96         |
| 1,1,2-Trichloroethane         | 79-00-5         | ND     | 0.5                | ug/L  | 04/19/96         |
| Trichloroethene               | 79-01-6         | ND     | 0.5                | ug/L  | 04/19/96         |
| Trichlorofluoromethane        | 75-69-4         | ND     | 2                  | ug/L  | 04/19/96         |
| 1,1,2Trichlorotrifluoroethane | 76-13-1         | ND     | 0.5                | ug/L  | 04/19/96         |
| Vinyl Chloride                | 75-01-4         | ND     | 2                  | ug/L  | 04/19/96         |

ND = Not detected at or above the reporting limit  
 \* = Value at or above reporting limit

## PES ENVIRONMENTAL, INC.

SAMPLE ID: AMW-4  
 AEN LAB NO: 9604227-05  
 AEN WORK ORDER: 9604227  
 CLIENT PROJ. ID: 960416-D1

DATE SAMPLED: 04/16/96  
 DATE RECEIVED: 04/17/96  
 REPORT DATE: 05/23/96

| ANALYTE                       | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|-------------------------------|-----------------|---------|--------------------|-------|------------------|
| EPA 8010 - Water matrix       | EPA 8010        |         |                    |       |                  |
| Bromodichloromethane          | 75-27-4         | ND      | 10                 | ug/L  | 04/18/96         |
| Bromoform                     | 75-25-2         | ND      | 10                 | ug/L  | 04/18/96         |
| Bromomethane                  | 74-83-9         | ND      | 40                 | ug/L  | 04/18/96         |
| Carbon Tetrachloride          | 56-23-5         | ND      | 10                 | ug/L  | 04/18/96         |
| Chlorobenzene                 | 108-90-7        | ND      | 10                 | ug/L  | 04/18/96         |
| Chloroethane                  | 75-00-3         | ND      | 40                 | ug/L  | 04/18/96         |
| 2-Chloroethyl Vinyl Ether     | 110-75-8        | ND      | 10                 | ug/L  | 04/18/96         |
| Chloroform                    | 67-66-3         | ND      | 10                 | ug/L  | 04/18/96         |
| Chloromethane                 | 74-87-3         | ND      | 40                 | ug/L  | 04/18/96         |
| Dibromochloromethane          | 124-48-1        | ND      | 10                 | ug/L  | 04/18/96         |
| 1,2-Dichlorobenzene           | 95-50-1         | ND      | 10                 | ug/L  | 04/18/96         |
| 1,3-Dichlorobenzene           | 541-73-1        | ND      | 10                 | ug/L  | 04/18/96         |
| 1,4-Dichlorobenzene           | 106-46-7        | ND      | 10                 | ug/L  | 04/18/96         |
| Dichlorodifluoromethane       | 75-71-8         | ND      | 40                 | ug/L  | 04/18/96         |
| 1,1-Dichloroethane            | 75-34-3         | ND      | 10                 | ug/L  | 04/18/96         |
| 1,2-Dichloroethane            | 107-06-2        | ND      | 10                 | ug/L  | 04/18/96         |
| 1,1-Dichloroethene            | 75-35-4         | ND      | 10                 | ug/L  | 04/18/96         |
| cis-1,2-Dichloroethene        | 156-59-2        | ND      | 10                 | ug/L  | 04/18/96         |
| trans-1,2-Dichloroethene      | 156-60-5        | ND      | 10                 | ug/L  | 04/18/96         |
| 1,2-Dichloropropane           | 78-87-5         | ND      | 10                 | ug/L  | 04/18/96         |
| cis-1,3-Dichloropropene       | 10061-01-5      | ND      | 10                 | ug/L  | 04/18/96         |
| trans-1,3-Dichloropropene     | 10061-02-6      | ND      | 10                 | ug/L  | 04/18/96         |
| Methylene Chloride            | 75-09-2         | ND      | 40                 | ug/L  | 04/18/96         |
| 1,1,2,2-Tetrachloroethane     | 79-34-5         | ND      | 10                 | ug/L  | 04/18/96         |
| Tetrachloroethene             | 127-18-4        | 1,200 * | 10                 | ug/L  | 04/18/96         |
| 1,1,1-Trichloroethane         | 71-55-6         | ND      | 10                 | ug/L  | 04/18/96         |
| 1,1,2-Trichloroethane         | 79-00-5         | ND      | 10                 | ug/L  | 04/18/96         |
| Trichloroethene               | 79-01-6         | 10 *    | 10                 | ug/L  | 04/18/96         |
| Trichlorofluoromethane        | 75-69-4         | ND      | 40                 | ug/L  | 04/18/96         |
| 1,1,2Trichlorotrifluoroethane | 76-13-1         | ND      | 10                 | ug/L  | 04/18/96         |
| Vinyl Chloride                | 75-01-4         | ND      | 40                 | ug/L  | 04/18/96         |

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## PES ENVIRONMENTAL, INC.

SAMPLE ID: AMW-5  
 AEN LAB NO: 9604227-06  
 AEN WORK ORDER: 9604227  
 CLIENT PROJ. ID: 960416-D1

DATE SAMPLED: 04/16/96  
 DATE RECEIVED: 04/17/96  
 REPORT DATE: 05/23/96

| ANALYTE                       | METHOD/<br>CAS# | RESULT | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|-------------------------------|-----------------|--------|--------------------|-------|------------------|
| EPA 8010 - Water matrix       | EPA 8010        |        |                    |       |                  |
| Bromodichloromethane          | 75-27-4         | ND     | 0.5                | ug/L  | 04/18/96         |
| Bromoform                     | 75-25-2         | ND     | 0.5                | ug/L  | 04/18/96         |
| Bromomethane                  | 74-83-9         | ND     | 2                  | ug/L  | 04/18/96         |
| Carbon Tetrachloride          | 56-23-5         | ND     | 0.5                | ug/L  | 04/18/96         |
| Chlorobenzene                 | 108-90-7        | ND     | 0.5                | ug/L  | 04/18/96         |
| Chloroethane                  | 75-00-3         | ND     | 2                  | ug/L  | 04/18/96         |
| 2-Chloroethyl Vinyl Ether     | 110-75-8        | ND     | 0.5                | ug/L  | 04/18/96         |
| Chloroform                    | 67-66-3         | ND     | 0.5                | ug/L  | 04/18/96         |
| Chloromethane                 | 74-87-3         | ND     | 2                  | ug/L  | 04/18/96         |
| Dibromochloromethane          | 124-48-1        | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,2-Dichlorobenzene           | 95-50-1         | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,3-Dichlorobenzene           | 541-73-1        | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,4-Dichlorobenzene           | 106-46-7        | ND     | 0.5                | ug/L  | 04/18/96         |
| Dichlorodifluoromethane       | 75-71-8         | ND     | 2                  | ug/L  | 04/18/96         |
| 1,1-Dichloroethane            | 75-34-3         | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,2-Dichloroethane            | 107-06-2        | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,1-Dichloroethene            | 75-35-4         | ND     | 0.5                | ug/L  | 04/18/96         |
| cis-1,2-Dichloroethene        | 156-59-2        | ND     | 0.5                | ug/L  | 04/18/96         |
| trans-1,2-Dichloroethene      | 156-60-5        | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,2-Dichloropropane           | 78-87-5         | ND     | 0.5                | ug/L  | 04/18/96         |
| cis-1,3-Dichloropropene       | 10061-01-5      | ND     | 0.5                | ug/L  | 04/18/96         |
| trans-1,3-Dichloropropene     | 10061-02-6      | ND     | 0.5                | ug/L  | 04/18/96         |
| Methylene Chloride            | 75-09-2         | ND     | 2                  | ug/L  | 04/18/96         |
| 1,1,2,2-Tetrachloroethane     | 79-34-5         | ND     | 0.5                | ug/L  | 04/18/96         |
| Tetrachloroethene             | 127-18-4        | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,1,1-Trichloroethane         | 71-55-6         | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,1,2-Trichloroethane         | 79-00-5         | ND     | 0.5                | ug/L  | 04/18/96         |
| Trichloroethene               | 79-01-6         | ND     | 0.5                | ug/L  | 04/18/96         |
| Trichlorofluoromethane        | 75-69-4         | ND     | 2                  | ug/L  | 04/18/96         |
| 1,1,2Trichlorotrifluoroethane | 76-13-1         | ND     | 0.5                | ug/L  | 04/18/96         |
| Vinyl Chloride                | 75-01-4         | ND     | 2                  | ug/L  | 04/18/96         |

ND = Not detected at or above the reporting limit  
 \* = Value at or above reporting limit

## PES ENVIRONMENTAL, INC.

SAMPLE ID: AMW-6  
 AEN LAB NO: 9604227-07  
 AEN WORK ORDER: 9604227  
 CLIENT PROJ. ID: 960416-D1

DATE SAMPLED: 04/16/96  
 DATE RECEIVED: 04/17/96  
 REPORT DATE: 05/23/96

| ANALYTE                        | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|--------------------------------|-----------------|---------|--------------------|-------|------------------|
| EPA 8010 - Water matrix        | EPA 8010        |         |                    |       |                  |
| Bromodichloromethane           | 75-27-4         | ND      | 10                 | ug/L  | 04/18/96         |
| Bromoform                      | 75-25-2         | ND      | 10                 | ug/L  | 04/18/96         |
| Bromomethane                   | 74-83-9         | ND      | 40                 | ug/L  | 04/18/96         |
| Carbon Tetrachloride           | 56-23-5         | ND      | 10                 | ug/L  | 04/18/96         |
| Chlorobenzene                  | 108-90-7        | ND      | 10                 | ug/L  | 04/18/96         |
| Chloroethane                   | 75-00-3         | ND      | 40                 | ug/L  | 04/18/96         |
| 2-Chloroethyl Vinyl Ether      | 110-75-8        | ND      | 10                 | ug/L  | 04/18/96         |
| Chloroform                     | 67-66-3         | ND      | 10                 | ug/L  | 04/18/96         |
| Chloromethane                  | 74-87-3         | ND      | 40                 | ug/L  | 04/18/96         |
| Dibromochloromethane           | 124-48-1        | ND      | 10                 | ug/L  | 04/18/96         |
| 1,2-Dichlorobenzene            | 95-50-1         | ND      | 10                 | ug/L  | 04/18/96         |
| 1,3-Dichlorobenzene            | 541-73-1        | ND      | 10                 | ug/L  | 04/18/96         |
| 1,4-Dichlorobenzene            | 106-46-7        | ND      | 10                 | ug/L  | 04/18/96         |
| Dichlorodifluoromethane        | 75-71-8         | ND      | 40                 | ug/L  | 04/18/96         |
| 1,1-Dichloroethane             | 75-34-3         | ND      | 10                 | ug/L  | 04/18/96         |
| 1,2-Dichloroethane             | 107-06-2        | ND      | 10                 | ug/L  | 04/18/96         |
| 1,1-Dichloroethene             | 75-35-4         | ND      | 10                 | ug/L  | 04/18/96         |
| cis-1,2-Dichloroethene         | 156-59-2        | 20 *    | 10                 | ug/L  | 04/18/96         |
| trans-1,2-Dichloroethene       | 156-60-5        | ND      | 10                 | ug/L  | 04/18/96         |
| 1,2-Dichloropropane            | 78-87-5         | ND      | 10                 | ug/L  | 04/18/96         |
| cis-1,3-Dichloropropene        | 10061-01-5      | ND      | 10                 | ug/L  | 04/18/96         |
| trans-1,3-Dichloropropene      | 10061-02-6      | ND      | 10                 | ug/L  | 04/18/96         |
| Methylene Chloride             | 75-09-2         | ND      | 40                 | ug/L  | 04/18/96         |
| 1,1,1,2-Tetrachloroethane      | 79-34-5         | ND      | 10                 | ug/L  | 04/18/96         |
| Tetrachloroethene              | 127-18-4        | 1,900 * | 10                 | ug/L  | 04/18/96         |
| 1,1,1-Trichloroethane          | 71-55-6         | ND      | 10                 | ug/L  | 04/18/96         |
| 1,1,2-Trichloroethane          | 79-00-5         | ND      | 10                 | ug/L  | 04/18/96         |
| Trichloroethene                | 79-01-6         | 110 *   | 10                 | ug/L  | 04/18/96         |
| Trichlorofluoromethane         | 75-69-4         | ND      | 40                 | ug/L  | 04/18/96         |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1         | ND      | 10                 | ug/L  | 04/18/96         |
| Vinyl Chloride                 | 75-01-4         | ND      | 40                 | ug/L  | 04/18/96         |

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## PES ENVIRONMENTAL, INC.

SAMPLE ID: AMW-7  
 AEN LAB NO: 9604227-08  
 AEN WORK ORDER: 9604227  
 CLIENT PROJ. ID: 960416-D1

DATE SAMPLED: 04/16/96  
 DATE RECEIVED: 04/17/96  
 REPORT DATE: 05/23/96

| ANALYTE                       | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|-------------------------------|-----------------|---------|--------------------|-------|------------------|
| EPA 8010 - Water matrix       | EPA 8010        |         |                    |       |                  |
| Bromodichloromethane          | 75-27-4         | ND      | 30                 | ug/L  | 04/18/96         |
| Bromoform                     | 75-25-2         | ND      | 30                 | ug/L  | 04/18/96         |
| Bromomethane                  | 74-83-9         | ND      | 100                | ug/L  | 04/18/96         |
| Carbon Tetrachloride          | 56-23-5         | ND      | 30                 | ug/L  | 04/18/96         |
| Chlorobenzene                 | 108-90-7        | ND      | 30                 | ug/L  | 04/18/96         |
| Chloroethane                  | 75-00-3         | ND      | 100                | ug/L  | 04/18/96         |
| 2-Chloroethyl Vinyl Ether     | 110-75-8        | ND      | 30                 | ug/L  | 04/18/96         |
| Chloroform                    | 67-66-3         | ND      | 30                 | ug/L  | 04/18/96         |
| Chloromethane                 | 74-87-3         | ND      | 100                | ug/L  | 04/18/96         |
| Dibromochloromethane          | 124-48-1        | ND      | 30                 | ug/L  | 04/18/96         |
| 1,2-Dichlorobenzene           | 95-50-1         | ND      | 30                 | ug/L  | 04/18/96         |
| 1,3-Dichlorobenzene           | 541-73-1        | ND      | 30                 | ug/L  | 04/18/96         |
| 1,4-Dichlorobenzene           | 106-46-7        | ND      | 30                 | ug/L  | 04/18/96         |
| Dichlorodifluoromethane       | 75-71-8         | ND      | 100                | ug/L  | 04/18/96         |
| 1,1-Dichloroethane            | 75-34-3         | ND      | 30                 | ug/L  | 04/18/96         |
| 1,2-Dichloroethane            | 107-06-2        | ND      | 30                 | ug/L  | 04/18/96         |
| 1,1-Dichloroethene            | 75-35-4         | ND      | 30                 | ug/L  | 04/18/96         |
| cis-1,2-Dichloroethene        | 156-59-2        | 2.200 * | 30                 | ug/L  | 04/18/96         |
| trans-1,2-Dichloroethene      | 156-60-5        | 60 *    | 30                 | ug/L  | 04/18/96         |
| 1,2-Dichloropropane           | 78-87-5         | ND      | 30                 | ug/L  | 04/18/96         |
| cis-1,3-Dichloropropene       | 10061-01-5      | ND      | 30                 | ug/L  | 04/18/96         |
| trans-1,3-Dichloropropene     | 10061-02-6      | ND      | 30                 | ug/L  | 04/18/96         |
| Methylene Chloride            | 75-09-2         | ND      | 100                | ug/L  | 04/18/96         |
| 1,1,2,2-Tetrachloroethane     | 79-34-5         | ND      | 30                 | ug/L  | 04/18/96         |
| Tetrachloroethene             | 127-18-4        | 2.300 * | 30                 | ug/L  | 04/18/96         |
| 1,1,1-Trichloroethane         | 71-55-6         | ND      | 30                 | ug/L  | 04/18/96         |
| 1,1,2-Trichloroethane         | 79-00-5         | ND      | 30                 | ug/L  | 04/18/96         |
| Trichloroethene               | 79-01-6         | 500 *   | 30                 | ug/L  | 04/18/96         |
| Trichlorofluoromethane        | 75-69-4         | ND      | 100                | ug/L  | 04/18/96         |
| 1,1,2Trichlorotrifluoroethane | 76-13-1         | ND      | 30                 | ug/L  | 04/18/96         |
| Vinyl Chloride                | 75-01-4         | ND      | 100                | ug/L  | 04/18/96         |

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## PES ENVIRONMENTAL, INC.

SAMPLE ID: AMW-8  
 AEN LAB NO: 9604227.09  
 AEN WORK ORDER: 9604227  
 CLIENT PROJ. ID: 960416-D1

DATE SAMPLED: 04/16/96  
 DATE RECEIVED: 04/17/96  
 REPORT DATE: 05/23/96

| ANALYTE                       | METHOD/<br>CAS# | RESULT | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|-------------------------------|-----------------|--------|--------------------|-------|------------------|
| EPA 8010 - Water matrix       | EPA 8010        |        |                    |       |                  |
| Bromodichloromethane          | 75-27-4         | ND     | 0.5                | ug/L  | 04/18/96         |
| Bromoform                     | 75-25-2         | ND     | 0.5                | ug/L  | 04/18/96         |
| Bromomethane                  | 74-83-9         | ND     | 2                  | ug/L  | 04/18/96         |
| Carbon Tetrachloride          | 56-23-5         | ND     | 0.5                | ug/L  | 04/18/96         |
| Chlorobenzene                 | 108-90-7        | ND     | 0.5                | ug/L  | 04/18/96         |
| Chloroethane                  | 75-00-3         | ND     | 2                  | ug/L  | 04/18/96         |
| 2-Chloroethyl Vinyl Ether     | 110-75-8        | ND     | 0.5                | ug/L  | 04/18/96         |
| Chloroform                    | 67-66-3         | ND     | 0.5                | ug/L  | 04/18/96         |
| Chloromethane                 | 74-87-3         | ND     | 2                  | ug/L  | 04/18/96         |
| Dibromochloromethane          | 124-48-1        | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,2-Dichlorobenzene           | 95-50-1         | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,3-Dichlorobenzene           | 541-73-1        | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,4-Dichlorobenzene           | 106-46-7        | ND     | 0.5                | ug/L  | 04/18/96         |
| Dichlorodifluoromethane       | 75-71-8         | ND     | 2                  | ug/L  | 04/18/96         |
| 1,1-Dichloroethane            | 75-34-3         | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,2-Dichloroethane            | 107-06-2        | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,1-Dichloroethene            | 75-35-4         | ND     | 0.5                | ug/L  | 04/18/96         |
| cis-1,2-Dichloroethene        | 156-59-2        | ND     | 0.5                | ug/L  | 04/18/96         |
| trans-1,2-Dichloroethene      | 156-60-5        | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,2-Dichloropropane           | 78-87-5         | ND     | 0.5                | ug/L  | 04/18/96         |
| cis-1,3-Dichloropropene       | 10061-01-5      | ND     | 0.5                | ug/L  | 04/18/96         |
| trans-1,3-Dichloropropene     | 10061-02-6      | ND     | 0.5                | ug/L  | 04/18/96         |
| Methylene Chloride            | 75-09-2         | ND     | 2                  | ug/L  | 04/18/96         |
| 1,1,2,2-Tetrachloroethane     | 79-34-5         | ND     | 0.5                | ug/L  | 04/18/96         |
| Tetrachloroethene             | 127-18-4        | 0.8 *  | 0.5                | ug/L  | 04/18/96         |
| 1,1,1-Trichloroethane         | 71-55-6         | ND     | 0.5                | ug/L  | 04/18/96         |
| 1,1,2-Trichloroethane         | 79-00-5         | ND     | 0.5                | ug/L  | 04/18/96         |
| Trichloroethene               | 79-01-6         | ND     | 0.5                | ug/L  | 04/18/96         |
| Trichlorofluoromethane        | 75-69-4         | ND     | 2                  | ug/L  | 04/18/96         |
| 1,1,2Trichlorotrifluoroethane | 76-13-1         | ND     | 0.5                | ug/L  | 04/18/96         |
| Vinyl Chloride                | 75-01-4         | ND     | 2                  | ug/L  | 04/18/96         |

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## PES ENVIRONMENTAL, INC.

SAMPLE ID: AMW-9  
 AEN LAB NO: 9604227-10  
 AEN WORK ORDER: 9604227  
 CLIENT PROJ. ID: 960416-D1

DATE SAMPLED: 04/16/96  
 DATE RECEIVED: 04/17/96  
 REPORT DATE: 05/23/96

| ANALYTE                       | METHOD/<br>CAS# | RESULT | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|-------------------------------|-----------------|--------|--------------------|-------|------------------|
| EPA 8010 - Water matrix       | EPA 8010        |        |                    |       |                  |
| Bromodichloromethane          | 75-27-4         | ND     | 3                  | ug/L  | 04/18/96         |
| Bromoform                     | 75-25-2         | ND     | 3                  | ug/L  | 04/18/96         |
| Bromomethane                  | 74-83-9         | ND     | 10                 | ug/L  | 04/18/96         |
| Carbon Tetrachloride          | 56-23-5         | ND     | 3                  | ug/L  | 04/18/96         |
| Chlorobenzene                 | 108-90-7        | ND     | 3                  | ug/L  | 04/18/96         |
| Chloroethane                  | 75-00-3         | ND     | 10                 | ug/L  | 04/18/96         |
| 2-Chloroethyl Vinyl Ether     | 110-75-8        | ND     | 3                  | ug/L  | 04/18/96         |
| Chloroform                    | 67-66-3         | ND     | 3                  | ug/L  | 04/18/96         |
| Chloromethane                 | 74-87-3         | ND     | 10                 | ug/L  | 04/18/96         |
| Dibromochloromethane          | 124-48-1        | ND     | 3                  | ug/L  | 04/18/96         |
| 1,2-Dichlorobenzene           | 95-50-1         | ND     | 3                  | ug/L  | 04/18/96         |
| 1,3-Dichlorobenzene           | 541-73-1        | ND     | 3                  | ug/L  | 04/18/96         |
| 1,4-Dichlorobenzene           | 106-46-7        | ND     | 3                  | ug/L  | 04/18/96         |
| Dichlorodifluoromethane       | 75-71-8         | ND     | 10                 | ug/L  | 04/18/96         |
| 1,1-Dichloroethane            | 75-34-3         | ND     | 3                  | ug/L  | 04/18/96         |
| 1,2-Dichloroethane            | 107-06-2        | ND     | 3                  | ug/L  | 04/18/96         |
| 1,1-Dichloroethene            | 75-35-4         | ND     | 3                  | ug/L  | 04/18/96         |
| cis-1,2-Dichloroethene        | 156-59-2        | 7 *    | 3                  | ug/L  | 04/18/96         |
| trans-1,2-Dichloroethene      | 156-60-5        | ND     | 3                  | ug/L  | 04/18/96         |
| 1,2-Dichloropropane           | 78-87-5         | ND     | 3                  | ug/L  | 04/18/96         |
| cis-1,3-Dichloropropene       | 10061-01-5      | ND     | 3                  | ug/L  | 04/18/96         |
| trans-1,3-Dichloropropene     | 10061-02-6      | ND     | 3                  | ug/L  | 04/18/96         |
| Methylene Chloride            | 75-09-2         | ND     | 10                 | ug/L  | 04/18/96         |
| 1,1,2,2-Tetrachloroethane     | 79-34-5         | ND     | 3                  | ug/L  | 04/18/96         |
| Tetrachloroethene             | 127-18-4        | 170 *  | 3                  | ug/L  | 04/18/96         |
| 1,1,1-Trichloroethane         | 71-55-6         | ND     | 3                  | ug/L  | 04/18/96         |
| 1,1,2-Trichloroethane         | 79-00-5         | ND     | 3                  | ug/L  | 04/18/96         |
| Trichloroethene               | 79-01-6         | 4 *    | 3                  | ug/L  | 04/18/96         |
| Trichlorofluoromethane        | 75-69-4         | ND     | 10                 | ug/L  | 04/18/96         |
| 1,1,2Trichlorotrifluoroethane | 76-13-1         | ND     | 3                  | ug/L  | 04/18/96         |
| Vinyl Chloride                | 75-01-4         | ND     | 10                 | ug/L  | 04/18/96         |

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## PES ENVIRONMENTAL, INC.

SAMPLE ID: MW-6  
 AEN LAB NO: 9604227-11  
 AEN WORK ORDER: 9604227  
 CLIENT PROJ. ID: 960416-D1

DATE SAMPLED: 04/16/96  
 DATE RECEIVED: 04/17/96  
 REPORT DATE: 05/23/96

| ANALYTE                        | METHOD/<br>CAS# | RESULT  | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|--------------------------------|-----------------|---------|--------------------|-------|------------------|
| EPA 8010 - Water matrix        | EPA 8010        |         |                    |       |                  |
| Bromodichloromethane           | 75-27-4         | ND      | 10                 | ug/L  | 04/18/96         |
| Bromoform                      | 75-25-2         | ND      | 10                 | ug/L  | 04/18/96         |
| Bromomethane                   | 74-83-9         | ND      | 40                 | ug/L  | 04/18/96         |
| Carbon Tetrachloride           | 56-23-5         | ND      | 10                 | ug/L  | 04/18/96         |
| Chlorobenzene                  | 108-90-7        | ND      | 10                 | ug/L  | 04/18/96         |
| Chloroethane                   | 75-00-3         | ND      | 40                 | ug/L  | 04/18/96         |
| 2-Chloroethyl Vinyl Ether      | 110-75-8        | ND      | 10                 | ug/L  | 04/18/96         |
| Chloroform                     | 67-66-3         | ND      | 10                 | ug/L  | 04/18/96         |
| Chloromethane                  | 74-87-3         | ND      | 40                 | ug/L  | 04/18/96         |
| Dibromochloromethane           | 124-48-1        | ND      | 10                 | ug/L  | 04/18/96         |
| 1,2-Dichlorobenzene            | 95-50-1         | ND      | 10                 | ug/L  | 04/18/96         |
| 1,3-Dichlorobenzene            | 541-73-1        | ND      | 10                 | ug/L  | 04/18/96         |
| 1,4-Dichlorobenzene            | 106-46-7        | ND      | 10                 | ug/L  | 04/18/96         |
| Dichlorodifluoromethane        | 75-71-8         | 100 *   | 40                 | ug/L  | 04/18/96         |
| 1,1-Dichloroethane             | 75-34-3         | ND      | 10                 | ug/L  | 04/18/96         |
| 1,2-Dichloroethane             | 107-06-2        | ND      | 10                 | ug/L  | 04/18/96         |
| 1,1-Dichloroethene             | 75-35-4         | ND      | 10                 | ug/L  | 04/18/96         |
| cis-1,2-Dichloroethene         | 156-59-2        | ND      | 10                 | ug/L  | 04/18/96         |
| trans-1,2-Dichloroethene       | 156-60-5        | ND      | 10                 | ug/L  | 04/18/96         |
| 1,2-Dichloropropane            | 78-87-5         | ND      | 10                 | ug/L  | 04/18/96         |
| cis-1,3-Dichloropropene        | 10061-01-5      | ND      | 10                 | ug/L  | 04/18/96         |
| trans-1,3-Dichloropropene      | 10061-02-6      | ND      | 10                 | ug/L  | 04/18/96         |
| Methylene Chloride             | 75-09-2         | ND      | 40                 | ug/L  | 04/18/96         |
| 1,1,1,2-Tetrachloroethane      | 79-34-5         | ND      | 10                 | ug/L  | 04/18/96         |
| Tetrachloroethene              | 127-18-4        | 1,400 * | 10                 | ug/L  | 04/18/96         |
| 1,1,1-Trichloroethane          | 71-55-6         | ND      | 10                 | ug/L  | 04/18/96         |
| 1,1,2-Trichloroethane          | 79-00-5         | ND      | 10                 | ug/L  | 04/18/96         |
| Trichloroethene                | 79-01-6         | 10 *    | 10                 | ug/L  | 04/18/96         |
| Trichlorofluoromethane         | 75-69-4         | ND      | 40                 | ug/L  | 04/18/96         |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1         | ND      | 10                 | ug/L  | 04/18/96         |
| Vinyl Chloride                 | 75-01-4         | ND      | 40                 | ug/L  | 04/18/96         |

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit



## PES ENVIRONMENTAL, INC.

SAMPLE ID: MW-7  
 AEN LAB NO: 9604227-12  
 AEN WORK ORDER: 9604227  
 CLIENT PROJ. ID: 960416-D1

DATE SAMPLED: 04/16/96  
 DATE RECEIVED: 04/17/96  
 REPORT DATE: 05/23/96

| ANALYTE                       | METHOD/<br>CAS# | RESULT | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|-------------------------------|-----------------|--------|--------------------|-------|------------------|
| EPA 8010 - Water matrix       | EPA 8010        |        |                    |       |                  |
| Bromodichloromethane          | 75-27-4         | ND     | 0.5                | ug/L  | 04/17/96         |
| Bromoform                     | 75-25-2         | ND     | 0.5                | ug/L  | 04/17/96         |
| Bromomethane                  | 74-83-9         | ND     | 2                  | ug/L  | 04/17/96         |
| Carbon Tetrachloride          | 56-23-5         | ND     | 0.5                | ug/L  | 04/17/96         |
| Chlorobenzene                 | 108-90-7        | ND     | 0.5                | ug/L  | 04/17/96         |
| Chloroethane                  | 75-00-3         | ND     | 2                  | ug/L  | 04/17/96         |
| 2-Chloroethyl Vinyl Ether     | 110-75-8        | ND     | 0.5                | ug/L  | 04/17/96         |
| Chloroform                    | 67-66-3         | ND     | 0.5                | ug/L  | 04/17/96         |
| Chloromethane                 | 74-87-3         | ND     | 2                  | ug/L  | 04/17/96         |
| Dibromochloromethane          | 124-48-1        | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,2-Dichlorobenzene           | 95-50-1         | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,3-Dichlorobenzene           | 541-73-1        | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,4-Dichlorobenzene           | 106-46-7        | ND     | 0.5                | ug/L  | 04/17/96         |
| Dichlorodifluoromethane       | 75-71-8         | 8 *    | 2                  | ug/L  | 04/17/96         |
| 1,1-Dichloroethane            | 75-34-3         | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,2-Dichloroethane            | 107-06-2        | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,1-Dichloroethene            | 75-35-4         | ND     | 0.5                | ug/L  | 04/17/96         |
| cis-1,2-Dichloroethene        | 156-59-2        | ND     | 0.5                | ug/L  | 04/17/96         |
| trans-1,2-Dichloroethene      | 156-60-5        | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,2-Dichloropropane           | 78-87-5         | ND     | 0.5                | ug/L  | 04/17/96         |
| cis-1,3-Dichloropropene       | 10061-01-5      | ND     | 0.5                | ug/L  | 04/17/96         |
| trans-1,3-Dichloropropene     | 10061-02-6      | ND     | 0.5                | ug/L  | 04/17/96         |
| Methylene Chloride            | 75-09-2         | ND     | 2                  | ug/L  | 04/17/96         |
| 1,1,2,2-Tetrachloroethane     | 79-34-5         | ND     | 0.5                | ug/L  | 04/17/96         |
| Tetrachloroethene             | 127-18-4        | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,1,1-Trichloroethane         | 71-55-6         | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,1,2-Trichloroethane         | 79-00-5         | ND     | 0.5                | ug/L  | 04/17/96         |
| Trichloroethene               | 79-01-6         | ND     | 0.5                | ug/L  | 04/17/96         |
| Trichlorofluoromethane        | 75-69-4         | ND     | 2                  | ug/L  | 04/17/96         |
| 1,1,2Trichlorotrifluoroethane | 76-13-1         | ND     | 0.5                | ug/L  | 04/17/96         |
| Vinyl Chloride                | 75-01-4         | ND     | 2                  | ug/L  | 04/17/96         |

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

## PES ENVIRONMENTAL, INC.

SAMPLE ID: EB  
 AEN LAB NO: 9604227-13  
 AEN WORK ORDER: 9604227  
 CLIENT PROJ. ID: 960416-D1

DATE SAMPLED: 04/16/96  
 DATE RECEIVED: 04/17/96  
 REPORT DATE: 05/23/96

| ANALYTE                        | METHOD/<br>CAS# | RESULT | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|--------------------------------|-----------------|--------|--------------------|-------|------------------|
| EPA 8010 - Water matrix        | EPA 8010        |        |                    |       |                  |
| Bromodichloromethane           | 75-27-4         | ND     | 0.5 ug/L           |       | 04/17/96         |
| Bromoform                      | 75-25-2         | ND     | 0.5 ug/L           |       | 04/17/96         |
| Bromomethane                   | 74-83-9         | ND     | 2 ug/L             |       | 04/17/96         |
| Carbon Tetrachloride           | 56-23-5         | ND     | 0.5 ug/L           |       | 04/17/96         |
| Chlorobenzene                  | 108-90-7        | ND     | 0.5 ug/L           |       | 04/17/96         |
| Chloroethane                   | 75-00-3         | ND     | 2 ug/L             |       | 04/17/96         |
| 2-Chloroethyl Vinyl Ether      | 110-75-8        | ND     | 0.5 ug/L           |       | 04/17/96         |
| Chloroform                     | 67-66-3         | ND     | 0.5 ug/L           |       | 04/17/96         |
| Chloromethane                  | 74-87-3         | ND     | 2 ug/L             |       | 04/17/96         |
| Dibromochloromethane           | 124-48-1        | ND     | 0.5 ug/L           |       | 04/17/96         |
| 1,2-Dichlorobenzene            | 95-50-1         | ND     | 0.5 ug/L           |       | 04/17/96         |
| 1,3-Dichlorobenzene            | 541-73-1        | ND     | 0.5 ug/L           |       | 04/17/96         |
| 1,4-Dichlorobenzene            | 106-46-7        | ND     | 0.5 ug/L           |       | 04/17/96         |
| Dichlorodifluoromethane        | 75-71-8         | ND     | 2 ug/L             |       | 04/17/96         |
| 1,1-Dichloroethane             | 75-34-3         | ND     | 0.5 ug/L           |       | 04/17/96         |
| 1,2-Dichloroethane             | 107-06-2        | ND     | 0.5 ug/L           |       | 04/17/96         |
| 1,1-Dichloroethene             | 75-35-4         | ND     | 0.5 ug/L           |       | 04/17/96         |
| cis-1,2-Dichloroethene         | 156-59-2        | ND     | 0.5 ug/L           |       | 04/17/96         |
| trans-1,2-Dichloroethene       | 156-60-5        | ND     | 0.5 ug/L           |       | 04/17/96         |
| 1,2-Dichloropropane            | 78-87-5         | ND     | 0.5 ug/L           |       | 04/17/96         |
| cis-1,3-Dichloropropene        | 10061-01-5      | ND     | 0.5 ug/L           |       | 04/17/96         |
| trans-1,3-Dichloropropene      | 10061-02-6      | ND     | 0.5 ug/L           |       | 04/17/96         |
| Methylene Chloride             | 75-09-2         | ND     | 2 ug/L             |       | 04/17/96         |
| 1,1,2,2-Tetrachloroethane      | 79-34-5         | ND     | 0.5 ug/L           |       | 04/17/96         |
| Tetrachloroethene              | 127-18-4        | ND     | 0.5 ug/L           |       | 04/17/96         |
| 1,1,1-Trichloroethane          | 71-55-6         | ND     | 0.5 ug/L           |       | 04/17/96         |
| 1,1,2-Trichloroethane          | 79-00-5         | ND     | 0.5 ug/L           |       | 04/17/96         |
| Trichloroethene                | 79-01-6         | ND     | 0.5 ug/L           |       | 04/17/96         |
| Trichlorofluoromethane         | 75-69-4         | ND     | 2 ug/L             |       | 04/17/96         |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1         | ND     | 0.5 ug/L           |       | 04/17/96         |
| Vinyl Chloride                 | 75-01-4         | ND     | 2 ug/L             |       | 04/17/96         |

ND = Not detected at or above the reporting limit  
 \* = Value at or above reporting limit

## PES ENVIRONMENTAL, INC.

SAMPLE ID: TB  
 AEN LAB NO: 9604227-14  
 AEN WORK ORDER: 9604227  
 CLIENT PROJ. ID: 960416-D1

DATE SAMPLED: 04/16/96  
 DATE RECEIVED: 04/17/96  
 REPORT DATE: 05/23/96

| ANALYTE                       | METHOD/<br>CAS# | RESULT | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|-------------------------------|-----------------|--------|--------------------|-------|------------------|
| EPA 8010 - Water matrix       | EPA 8010        |        |                    |       |                  |
| Bromodichloromethane          | 75-27-4         | ND     | 0.5                | ug/L  | 04/17/96         |
| Bromoform                     | 75-25-2         | ND     | 0.5                | ug/L  | 04/17/96         |
| Bromomethane                  | 74-83-9         | ND     | 2                  | ug/L  | 04/17/96         |
| Carbon Tetrachloride          | 56-23-5         | ND     | 0.5                | ug/L  | 04/17/96         |
| Chlorobenzene                 | 108-90-7        | ND     | 0.5                | ug/L  | 04/17/96         |
| Chloroethane                  | 75-00-3         | ND     | 2                  | ug/L  | 04/17/96         |
| 2-Chloroethyl Vinyl Ether     | 110-75-8        | ND     | 0.5                | ug/L  | 04/17/96         |
| Chloroform                    | 67-66-3         | ND     | 0.5                | ug/L  | 04/17/96         |
| Chloromethane                 | 74-87-3         | ND     | 2                  | ug/L  | 04/17/96         |
| Dibromochloromethane          | 124-48-1        | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,2-Dichlorobenzene           | 95-50-1         | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,3-Dichlorobenzene           | 541-73-1        | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,4-Dichlorobenzene           | 106-46-7        | ND     | 0.5                | ug/L  | 04/17/96         |
| Dichlorodifluoromethane       | 75-71-8         | ND     | 2                  | ug/L  | 04/17/96         |
| 1,1-Dichloroethane            | 75-34-3         | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,2-Dichloroethane            | 107-06-2        | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,1-Dichloroethene            | 75-35-4         | ND     | 0.5                | ug/L  | 04/17/96         |
| cis-1,2-Dichloroethene        | 156-59-2        | ND     | 0.5                | ug/L  | 04/17/96         |
| trans-1,2-Dichloroethene      | 156-60-5        | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,2-Dichloropropane           | 78-87-5         | ND     | 0.5                | ug/L  | 04/17/96         |
| cis-1,3-Dichloropropene       | 10061-01-5      | ND     | 0.5                | ug/L  | 04/17/96         |
| trans-1,3-Dichloropropene     | 10061-02-6      | ND     | 0.5                | ug/L  | 04/17/96         |
| Methylene Chloride            | 75-09-2         | ND     | 2                  | ug/L  | 04/17/96         |
| 1,1,2,2-Tetrachloroethane     | 79-34-5         | ND     | 0.5                | ug/L  | 04/17/96         |
| Tetrachloroethene             | 127-18-4        | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,1,1-Trichloroethane         | 71-55-6         | ND     | 0.5                | ug/L  | 04/17/96         |
| 1,1,2-Trichloroethane         | 79-00-5         | ND     | 0.5                | ug/L  | 04/17/96         |
| Trichloroethene               | 79-01-6         | ND     | 0.5                | ug/L  | 04/17/96         |
| Trichlorofluoromethane        | 75-69-4         | ND     | 2                  | ug/L  | 04/17/96         |
| 1,1,2Trichlorotrifluoroethane | 76-13-1         | ND     | 0.5                | ug/L  | 04/17/96         |
| Vinyl Chloride                | 75-01-4         | ND     | 2                  | ug/L  | 04/17/96         |

ND = Not detected at or above the reporting limit  
 \* = Value at or above reporting limit

AEN (CALIFORNIA)  
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9604227

CLIENT PROJECT ID: 960416-D1

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8010

AEN JOB NO: 9604227  
 INSTRUMENT: I  
 MATRIX: WATER

Surrogate Standard Recovery Summary

| Date Analyzed | Client Id. | Lab Id. | Percent Recovery    |                          |
|---------------|------------|---------|---------------------|--------------------------|
|               |            |         | Bromochloro-methane | 1-Bromo-3-chloro-propane |
| 04/18/96      | WGR-MW-2   | 01      | 91                  | 100                      |
| 04/18/96      | WGR-MW-3   | 02      | 92                  | 101                      |
| 04/18/96      | WGR-MW-4   | 03      | 89                  | 93                       |
| 04/19/96      | AMW-1      | 04      | 92                  | 100                      |
| 04/18/96      | AMW-4      | 05      | 96                  | 98                       |
| 04/18/96      | AMW-5      | 06      | 97                  | 102                      |
| 04/18/96      | AMW-6      | 07      | 94                  | 100                      |
| 04/18/96      | AMW-7      | 08      | 99                  | 99                       |
| 04/18/96      | AMW-8      | 09      | 97                  | 98                       |
| 04/18/96      | AMW-9      | 10      | 94                  | 97                       |
| 04/18/96      | MW-6       | 11      | 93                  | 98                       |
| 04/17/96      | MW-7       | 12      | 90                  | 96                       |
| 04/17/96      | EB         | 13      | 91                  | 98                       |
| 04/17/96      | TB         | 14      | 92                  | 98                       |
| QC Limits:    |            |         | 70-130              | 70-130                   |

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

## QUALITY CONTROL DATA

METHOD: EPA 8010

AEN JOB NO: 9604227  
DATE ANALYZED: 04/15/96  
SAMPLE SPIKED: 9604174-01  
INSTRUMENT: I

## Matrix Spike Recovery Summary

| Analyte            | Spike Added<br>(ug/L) | Average<br>Percent<br>Recovery | RPD | QC Limits           |     |
|--------------------|-----------------------|--------------------------------|-----|---------------------|-----|
|                    |                       |                                |     | Percent<br>Recovery | RPD |
| 1,1-Dichloroethene | 50                    | 90                             | 4   | 37-156              | 20  |
| Trichloroethene    | 50                    | 95                             | <1  | 54-122              | 20  |
| Chlorobenzene      | 50                    | 93                             | 1   | 54-141              | 20  |

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

\*\*\* END OF REPORT \*\*\*

CONDUCT ANALYSIS TO DETECT

LAB AEN 1604 DHS # \_\_\_\_\_  
ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND  
 EPA  RWQCB REGION \_\_\_\_\_  
 LIA  
 OTHER

CHAIN OF CUSTODY 960416-D1  
CLIENT PES ENVIRONMENTAL  
SITE FOOTHILL SHOPPING CENTER  
16700 MACARTHUR  
OAKLAND.

C - COMPOSITE ALL CONTAINERS

EPA # 9010

SPECIAL INSTRUCTIONS INVOICE & REPORT  
TO PES ENVIRONMENTAL.  
ATTN: JOHN SKALBECK

| SAMPLE I.D. | DATE | TIME | MATRIX              | TOTAL | CONTAINERS | C - COMPOSITE ALL CONTAINERS | EPA # 9010 |  |  |  |  |  |  |  | ADD'L INFORMATION | STATUS | CONDITION | LAB SAMPLE # |
|-------------|------|------|---------------------|-------|------------|------------------------------|------------|--|--|--|--|--|--|--|-------------------|--------|-----------|--------------|
|             |      |      | S = SOIL<br>W = H2O |       |            |                              |            |  |  |  |  |  |  |  |                   |        |           |              |
| WGR-MW-2    | 4-16 | 1410 | ✓                   | 3     | 40 mL      |                              | X          |  |  |  |  |  |  |  |                   |        |           | O1A-C        |
| WGR-MW-3    | 4-16 | 1455 |                     | 3     |            |                              | X          |  |  |  |  |  |  |  |                   |        |           | O2A-C        |
| WGR-MW-4    | 4-16 | 1800 |                     | 3     |            |                              | X          |  |  |  |  |  |  |  |                   |        |           | O3A-C        |
| AMW-1       | 4-16 | 1325 |                     | 3     |            |                              | X          |  |  |  |  |  |  |  |                   |        |           | O4A-C        |
| AMW-4       | 4-16 | 1045 |                     | 3     |            |                              | X          |  |  |  |  |  |  |  |                   |        |           | O5A-C        |
| AMW-5       | 4-16 | 1145 |                     | 3     |            |                              | X          |  |  |  |  |  |  |  |                   |        |           | O6A-C        |
| AMW-6       | 4-16 | 1115 |                     | 3     |            |                              | X          |  |  |  |  |  |  |  |                   |        |           | O7A-C        |
| AMW-7       | 4-16 | 1200 |                     | 3     |            |                              | X          |  |  |  |  |  |  |  |                   |        |           | O8A-C        |
| AMW-8       | 4-16 | 1350 |                     | 3     |            |                              | X          |  |  |  |  |  |  |  |                   |        |           | O9A-C        |
| AMW-9       | 4-16 | 1235 |                     | 3     |            |                              | X          |  |  |  |  |  |  |  |                   |        |           | O10A-C       |

SAMPLING COMPLETED DATE 4-16 TIME \_\_\_\_\_ SAMPLING PERFORMED BY MIKE DILLON RESULTS NEEDED NO LATER THAN "AS CONTRACTED"

RELEASED BY [Signature] DATE 4-17-96 TIME 1035 RECEIVED BY [Signature] DATE 4-17-96 TIME 1035

RELEASED BY [Signature] DATE 4-17-96 TIME 12:40 RECEIVED BY [Signature] DATE 4/17/96 TIME 1240

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ RECEIVED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

SHIPPED VIA \_\_\_\_\_ DATE SENT \_\_\_\_\_ TIME SENT \_\_\_\_\_ COOLER # \_\_\_\_\_

CONDUCT ANALYSIS TO DETECT

LAB AEN 9604227 DHS # \_\_\_\_\_

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA  RWOCB REGION \_\_\_\_\_  
 LIA  
 OTHER

CHAIN OF CUSTODY 960416-D1

CLIENT PES

SITE FOOT HILL SHOPPING CENTER

10700 MacArthur Blvd.

OAKLAND, CA

C = COMPOSITE ALL CONTAINERS

EPA # 8810

SPECIAL INSTRUCTIONS

INVOICE + REPORT  
TO PES ENVIRONMENTAL  
ATT: JOHN SKALBECK

| SAMPLE I.D. | DATE        | TIME        | MATRIX   |          | TOTAL      | CONTAINERS |
|-------------|-------------|-------------|----------|----------|------------|------------|
|             |             |             | S        | W = H2O  |            |            |
| <u>MW-6</u> | <u>4-16</u> | <u>1435</u> | <u>W</u> | <u>3</u> | <u>104</u> | <u>3</u>   |
| <u>MW-7</u> | <u>4-16</u> | <u>1520</u> | <u>W</u> | <u>3</u> | <u>↓</u>   | <u>3</u>   |
| <u>EB</u>   | <u>4-16</u> | <u>1055</u> | <u>↓</u> | <u>3</u> | <u>↓</u>   | <u>3</u>   |
| <u>TB</u>   | <u>4-16</u> | <u>↓</u>    | <u>↓</u> | <u>2</u> | <u>↓</u>   | <u>2</u>   |

| ADD'L INFORMATION | STATUS | CONDITION | LAB SAMPLE # |
|-------------------|--------|-----------|--------------|
|                   |        |           | <u>11A-C</u> |
|                   |        |           | <u>12A-C</u> |
|                   |        |           | <u>13A-C</u> |
|                   |        |           | <u>14AB</u>  |

SAMPLING COMPLETED 4-16 1545 SAMPLING PERFORMED BY MIKE DILLOUGHTRY RESULTS NEEDED NO LATER THAN "AS CONTRACTED"

RELEASED BY [Signature] DATE 4-17-96 TIME 1035 RECEIVED BY [Signature] DATE 4-17-96 TIME 1035

RELEASED BY [Signature] DATE 4-17-96 TIME 1240 RECEIVED BY [Signature] DATE 4-17-96 TIME 1240

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ RECEIVED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

SHIPPED VIA \_\_\_\_\_ DATE SENT \_\_\_\_\_ TIME SENT \_\_\_\_\_ COOLER # \_\_\_\_\_



**DISTRIBUTION**

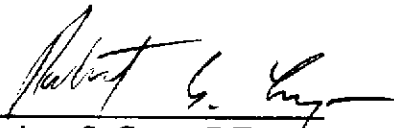
**QUARTERLY MONITORING REPORT  
FORMER YOUNG'S CLEANERS  
FOOTHILL SQUARE SHOPPING CENTER  
OAKLAND, CALIFORNIA**

**AUGUST 7, 1996**

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