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**JONAS & ASSOCIATES INC.**  
Environmental Consultants

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**GROUNDWATER MONITORING REPORT**  
**Sampling Round Eleven**

**PACO PUMPS, INC.**  
**9201 San Leandro Street**  
**Oakland, California**

**February 23, 1996**

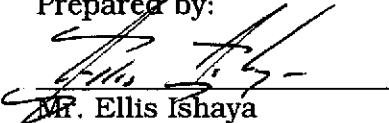
Report Prepared for:

PACO PUMPS, INC.  
9201 San Leandro Street  
Oakland, California 94603-1237

**GROUNDWATER MONITORING REPORT**  
**Sampling Round Eleven**  
**PACO PUMPS, INC.**  
**9201 San Leandro Street, Oakland, California**

Jonas and Associates Inc. Job No. PCO-220

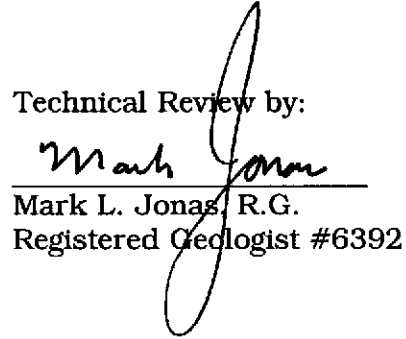
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February 23, 1996

**GROUNDWATER MONITORING REPORT**  
**Sampling Round Eleven**  
**PACO PUMPS, INC.**  
**9201 San Leandro Street**  
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**Walnut Creek, California**  
**(510) 933-5360**

GROUNDWATER MONITORING REPORT  
Sampling Round Eleven

PACO PUMPS, INC.  
9201 San Leandro Street  
Oakland, California

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GROUNDWATER MONITORING REPORT  
Sampling Round Eleven

PACO PUMPS, INC.  
9201 San Leandro Street  
Oakland, California  
February 23, 1996

1.0 INTRODUCTION

Jonas and Associates Inc. (J&A) has been retained by PACO Pumps Inc. (PACO or PACO Pumps) to perform the groundwater monitoring program at their former property located at 9201 San Leandro Street, in Oakland, California 94603-1237. To date, eleven groundwater sampling rounds have been performed at this facility. The first ten sampling rounds were presented in previous documents, identified in Section 5.0 References. This report presents the results of the eleventh groundwater sampling round, performed on November 29, 1995.

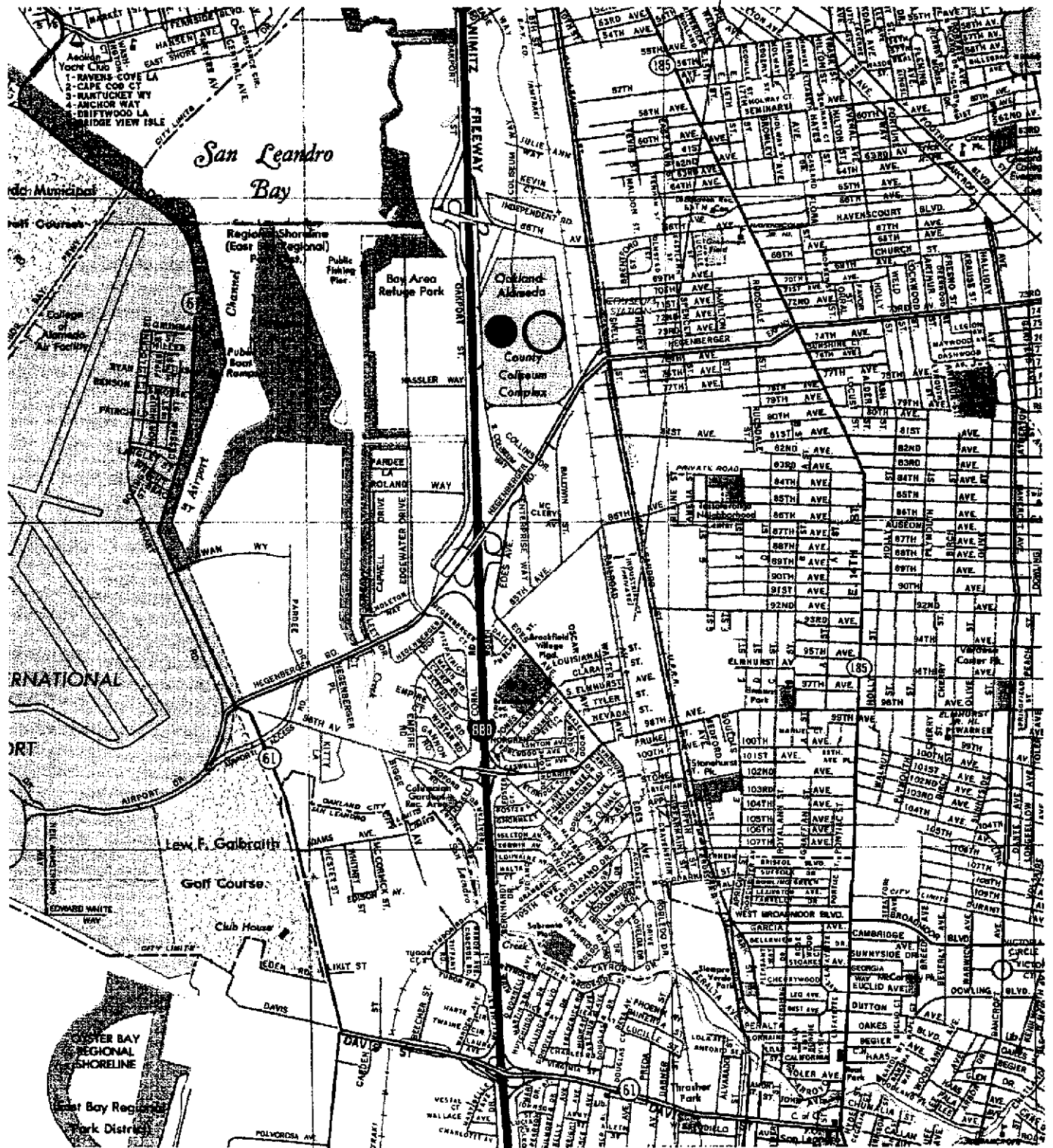
PACO Pumps' environmental representative for this project is Mr. John Lilla {(512) 314-8500}. The lead agency for this project is the Alameda County Health Care Services Agency, Department of Environmental Health, Hazardous Division (Alameda County Health Services). The address of Alameda County Health Services is 1131 Harbor Bay Parkway, 2nd Floor, Alameda, California 94502. The agency representative is Ms. Eva Chu {(510) 567-6762}.

1.1 Site Description

The PACO Pumps former facility presented in this report is located at 9201 San Leandro Street, in Oakland, California. Prior to May 1992, PACO Pumps had an active facility at this location. The facility contained a manufacturing, engineering, and storage building, a purchasing and data processing building, a warehouse, a welding shop, employee parking, and outside storage. Apparently, the property also had two underground tanks used for the storage of gasoline. The property is largely secured by a Cyclone fence and gates. PACO Pumps closed this facility and removed its equipment. Currently, this property is owned by a local company which primarily uses it to warehouse glassware. Adjacent to the PACO Pumps property is Saint Vincent DePaul Resale, where a previous investigation by Subsurface Consultants Inc. (1992) identified the presence of various chemicals on their site. Numerous drums were previously stored on the Saint Vincent DePaul's property.

The regional location of the property is presented in Figure 1-1. The facility is located in Township 2 South, Range 3 West, Section 22, Mount Diablo Baseline and Meridian. The land is essentially flat. Prior to moving, PACO Pumps' Environmental Protection Agency identification number for the facility was CAD088772629.

PACO PUMPS  
9201 SAN LEANDRO STREET



REGIONAL LOCATION  
PACO PUMPS  
9201 SAN LEANDRO STREET  
OAKLAND, CALIFORNIA



1" = 1/2 MILE

Figure 1-1

DRAWING NUMBER:  
PC0220-Fig 1



## 1.2 Scope of Report

This "Groundwater Monitoring Report, Sampling Round Eleven" is presented in four sections and three appendices. Section 1, Introduction, provides a brief description of the site and the scope of the report. Section 2, Monitoring Wells and Hydrogeology, presents general well construction details for the five monitoring wells, the results of elevation and location surveys, and a local hydrogeologic cross-section. Section 3, Groundwater Sampling and Analysis, presents Round Eleven groundwater sampling procedures and results, along with water level and free product measurements. Section 4, References, cites various references relevant to this report.

The appendices of the report include groundwater analysis summary tables, chain-of-custody records, and laboratory data sheets.

## 2.0 MONITORING WELLS AND HYDROGEOLOGY

This section of the report presents a brief history and construction details for the five monitoring wells located at the 9201 San Leandro Street former PACO Pumps' facility. In addition, a summary of the location and elevation surveys performed by Kier & Wright is provided. A local hydrogeologic cross-section is also presented using lithologic logs from on-site monitoring well boreholes.

### 2.1 Monitoring Wells

Five monitoring wells are located at the former PACO Pumps' facility. Four of these monitoring wells were drilled and installed during a period from November 3 through November 9, 1992. The J&A February 1993 "First Quarterly Status Report, PACO Pumps, 9201 San Leandro Street" presents the installation details and the rationale for locating and sampling each of the monitoring wells. Monitoring well 9MW5 was drilled and installed on August 12, 1994. The installation details and rationale for monitoring well 9MW5 are presented in the J&A August 1994 "Groundwater Monitoring Report, Sampling Round Six, PACO Pumps, 9201 San Leandro Street, Oakland, California". All of the monitoring wells are screened at an apparently transmissive fine sand to silty clay found underneath the facility. Figure 2-1 presents the locations of the five monitoring wells, the Round Eleven analyses performed at each well, the previous excavation site, suspected former underground storage tank locations, Saint Vincent DePaul, and other on-site structures.

#### 2.1.1 Construction Details

All of the five monitoring wells are constructed in boreholes drilled to depths of 21 feet. One pilot borehole next to monitoring well 9MW3 was drilled down to a depth of 30 feet to collect lithologic samples for analyses. Each of five monitoring wells have a fifteen foot well screen set between approximately 5 to 20 feet below ground surface (bgs). The wells have a casing and screen diameter of four inches, placed in an 8½ inch borehole.

Monitoring well 9MW1 was constructed on November 4, 1992. The well was installed in a western corner of the facility adjacent to the former manufacturing building, and next to a transformer and the Central Pacific Railroad track. The lithology encountered during drilling ranged from an apparent fill, comprised of a silty gravel to a gravelly sand clay, to a sandy clay between 5 and 21 feet bgs. During drilling, first water was encountered at an approximate depth of 16 feet bgs. Measurement of first water is only approximate because of the difficulty in identifying water while drilling with a hollow stem auger. After the screen was installed, the well water level was measured at 9.74 feet bgs on November 15, 1992.

Monitoring well 9MW2 is located adjacent to the former welding shop and next to the Saint Vincent DePaul fence line. The well was installed on November 3, 1992. The lithology encountered during drilling was gravelly silty sand, probably a fill material,

Drawn by M.J. 02-02-1996

Drawing Number PC0220-11/95:G11F2-1

Figure 2-1

**9MW3**  
 Prior to purging  
 TPH - Gasoline with BTEX: DO  
 After purging  
 TPH - Gasoline with BTEX: DO  
 Purgeable Halocarbons

**9MW4**  
 TPH - Gasoline with BTEX

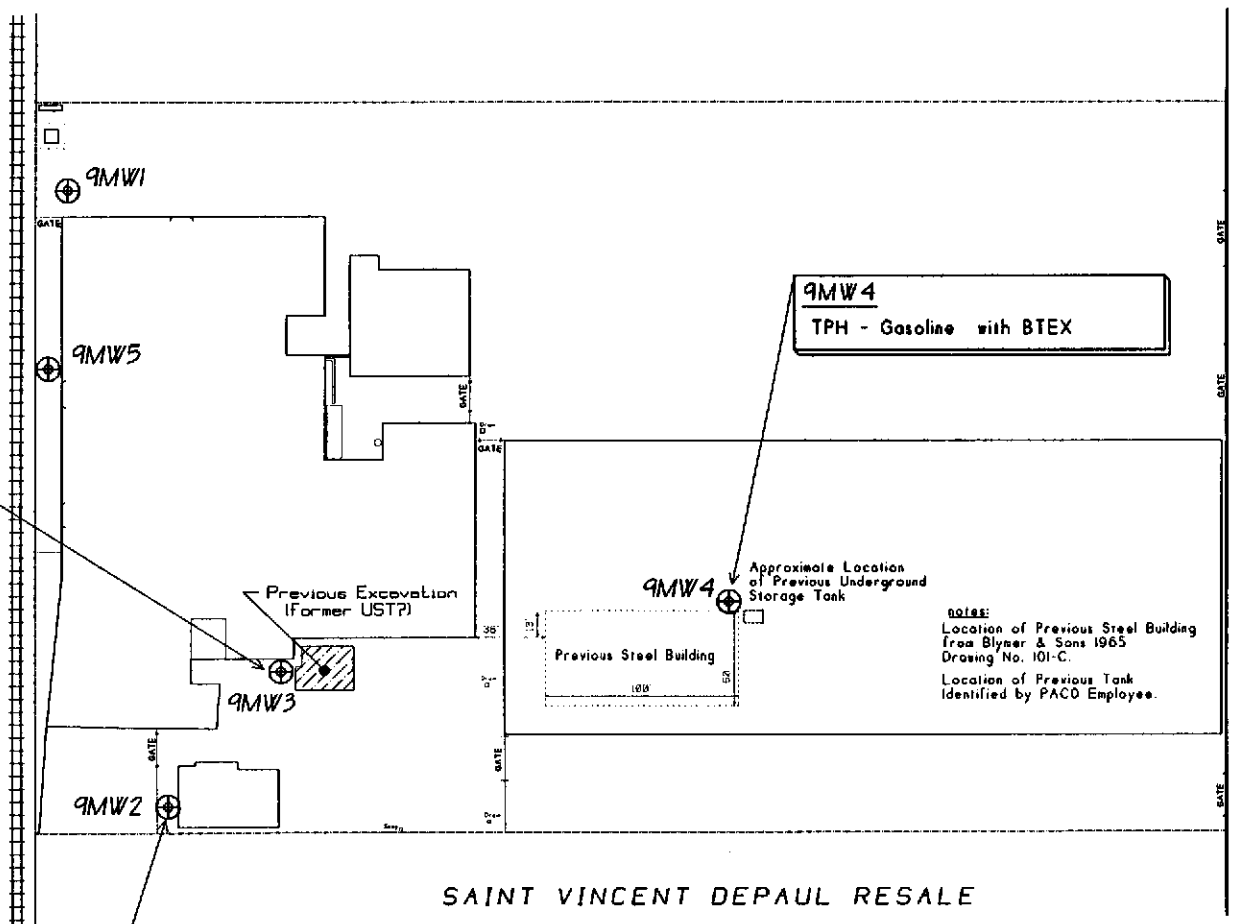
**9MW2**  
 TEPH - Diesel, Kerosene, Motor Oil

**Legend:**

⊕ Monitoring Well  
 With groundwater analyses performed during Round Eleven (11/29/1995).

TPH = Total Petroleum Hydrocarbons  
 TEPH = Total Extractable Petroleum Hydrocarbons  
 UST = Underground Storage Tank  
 DO = Dissolved Oxygen

Well	Date Installed	Total Depth	Casing Diameter	Borehole Diameter	Screen Depth	Sand Pack Depth
9AW1	11-4-1992	21'	4"	8.5"	5.25'-20.25'	4.25'-21'
9AW2	11-3-1992	21'	4"	8.5"	5.25'-20.25'	4.25'-21'
9AW3	11-4-1992	21'	4"	8.5"	5.25'-20.25'	4.25'-21'
9AW4	11-9-1992	21'	4"	8.5"	5.25'-20.25'	4.25'-21'
9AW5	8-12-1994	21'	4"	8.5"	5.25'-20.25'	4.25'-21'



SAINT VINCENT DEPAUL RESALE

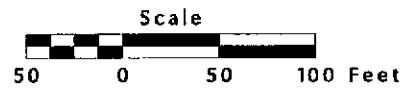
San Leandro Street

**NOTE:**  
 Location of Previous Steel Building from Blymer & Sons 1965 Drawing No. 101-C.  
 Location of Previous Tank identified by PACO Employee.

# Monitoring Wells and Round Eleven Groundwater Analyses

PACO Pumps Inc.  
 9201 San Leandro Street  
 Oakland, California

Prepared by  
**JONAS & ASSOCIATES INC.**



Date: 02-02-1996  
 Locations Approx.

Figure 2-1

Drawing Number  
 PC0220-11/95:G11F2-1

and a sandy clay located from 4 feet to the bottom of the borehole at 21 feet bgs. First water was not clearly identified. On November 16, 1992 water level in monitoring well 9MW2 was measured at 10.45 feet bgs.

Monitoring well 9MW3 is located adjacent to a previous excavation where a former underground storage tank may have been present. No tank was found, but remnants of a former tank appears to have been identified during the excavation. The tank was reportedly used to store gasoline. Excavation activities and results were documented in the October 16, 1992 "Site Characterization Report and Work Plan, PACO Pumps, 9201 San Leandro Street, Oakland, California". The well was drilled next to the excavation area and constructed on November 4, 1992. During drilling of the borehole for monitoring well 9MW3, the lithology encountered was 2 feet of an apparent fill composed of gravelly silty sand and a sandy clay between 2 and 21 feet bgs. A pilot boring adjacent to 9MW3 also found sandy clay between 20 and 30 feet bgs. First water was not definitively identified. After the construction of monitoring well 9MW3, the well water level was measured at 10.64 bgs.

Monitoring well 9MW4 was constructed on November 9, 1992. The location of the well is apparently near a former UST, which was said to have been located below the floor of the current warehouse. Prior to drilling the borehole for the monitoring well, 1¼ feet of flooring and sub-base was cored with a diamond-studded core barrel. The flooring and sub-base appears to be 6" of concrete, 6" of rock, and 3" of asphalt. Below the flooring and sub-base was a sandy clay down to a depth of 21 feet. During drilling, first water was identified at an approximate depth of 13.5 feet bgs. On November 16, 1992 well water was measured at 9.41 feet bgs.

Monitoring well 9MW5 was constructed on August 12, 1994. The well was installed adjacent to the southwest fence line of the facility and next to the former manufacturing building and the Central Pacific Railroad track. The lithology encountered during drilling ranged from a gravelly sandy clay to a sandy clay between 2 and 21 feet bgs. During drilling activities, depth to first water was not able to be clearly identified. After the screen was installed, the well water level was measured at 8.22 feet bgs on August 24, 1994.

The following Table 2-1 present a summary of construction details for monitoring wells 9MW1, 9MW2, 9MW3, 9MW4, and 9MW5.

Table 2-1  
Monitoring Well Construction Details  
PACO PUMPS - 9201 San Leandro Street

Jonas & Associates Inc.

Well Number	Date Completed	Casing Diameter	~ Depth in feet bgs					Borehole Diameter
			Screen {0.020"}	Sand Pack {#3 Sand}	Bentonite Seal	Portland Cement <sup>1</sup>	Borehole	
9MW1	11/4/1992	4"	5¼ - 20¼	4¼ - 21	3¾ - 4¼	¼ - 3¾	21	8½"
9MW2	11/3/1992	4"	5¼ - 20¼	4¼ - 21	3¾ - 4¼	¼ - 3¾	21	8½"
9MW3	11/4/1992	4"	5¼ - 20¼	4¼ - 21	3¾ - 4¼	¼ - 3¾	21	8½"
9MW4	11/9/1992	4"	5¼ - 20¼	4¼ - 21	3¾ - 4¼	¼ - 3¾	21	8½"
9MW5	8/12/1994	4"	5¼ - 20¼	4¼ - 21	3¾ - 4¼	¼ - 3¾	21	8½"

notes: <sup>1</sup> = Portland Cement mixed with ~ 5% bentonite for plasticity.  
bgs = below ground surface

### 2.1.2 Monitoring Well Survey

During August 1993, monitoring wells 9MW1, 9MW2, 9MW3, and 9MW4 were surveyed by Kier & Wright Civil Engineers & Surveyors, Inc.. In September 1994 they surveyed monitoring well 9MW5. The locations of the wells were surveyed using the California State Coordinate System which identifies the well locations using Eastings and Northings, in feet. The monitoring wells were surveyed at a point representing the north side mark on top of the PVC casing. The survey was based on the City of Oakland Benchmark 721, located at 92<sup>nd</sup> Avenue and G Street. The following Table 2-2 presents the monitoring well survey results.

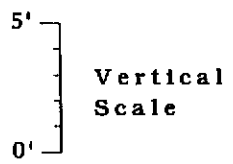
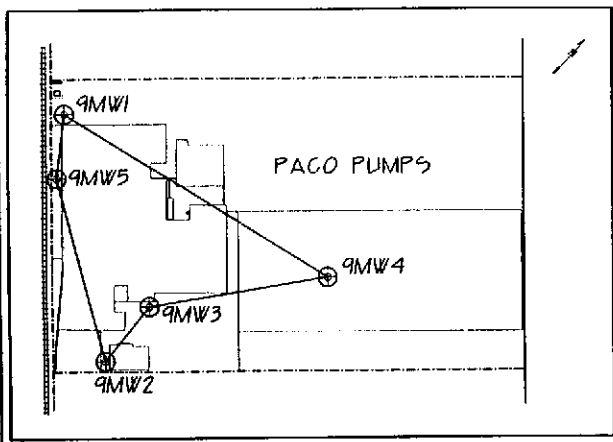
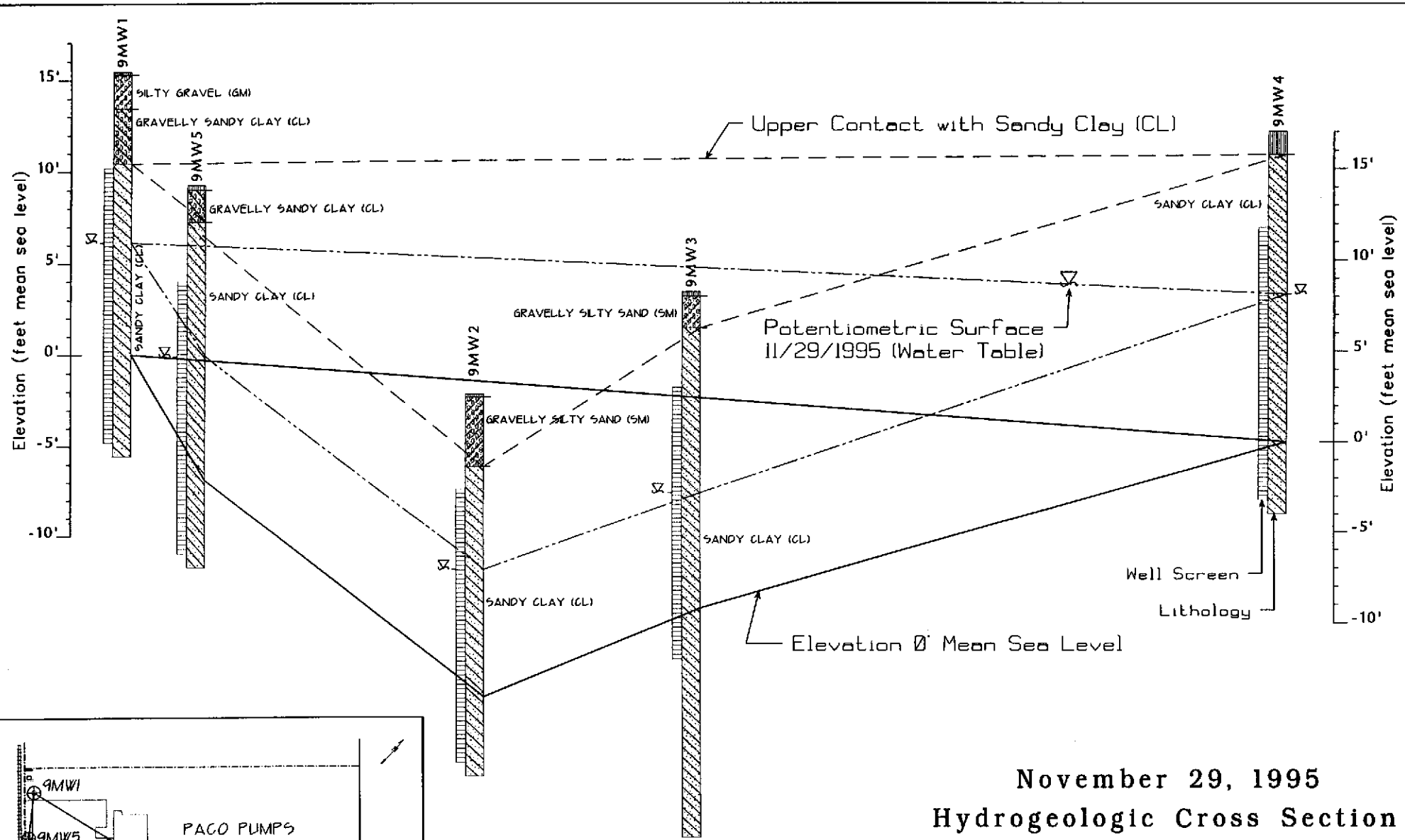
Table 2-2  
Monitoring Well Survey Data  
PACO PUMPS - 9201 San Leandro Street

Well	Easting	Northing	M.S.L. Elevation
9MW1	1512710.22	456699.01	Top PVC: 15.51'
9MW2	1512968.11	456507.34	Top PVC: 16.83'
9MW3	1512963.22	456602.8	Top PVC: 17.13'
9MW4	1513102.34	456789.38	Top PVC: 17.08'
9MW5	1512763.21	456638.62	Top PVC: 15.93'

Legend - M.S.L.: Mean Sea Level  
Top PVC: Top north edge of PVC casing.

### 2.2 Hydrogeologic Cross Section

Figure 2-2 presents a hydrogeologic cross section using potentiometric and lithologic data associated with the monitoring wells.



November 29, 1995  
 Hydrogeologic Cross Section

PACO Pumps Inc.  
 9201 San Leandro Street  
 Oakland, California

Prepared by  
 JONAS & ASSOCIATES INC.

Date: 02-05-1996 Locations Approx.	Figure 2-2	Drawing Number PCO220-2/95:G11F2-2
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### 3.0 ROUND ELEVEN GROUNDWATER SAMPLING AND ANALYSIS

Following is a discussion of the procedures and results associated with Round Eleven groundwater sampling of monitoring wells 9MW2, 9MW3, and 9MW4. Sampling for this round occurred on November 29, 1995 and represents fall seasonal conditions. Also included are Round Eleven water level and free product measurements.

A summary of all laboratory results from samples collected from the on-site monitoring wells is presented in Appendix A. The chain-of-custody record for the November 29, 1995 Round Eleven groundwater sampling event is presented in Appendix B. The laboratory data sheets associated with this sampling event are presented in Appendix C.

#### 3.1 Groundwater Sampling Procedures

The eleventh round of groundwater sampling was performed on November 29, 1995 and represents fall groundwater conditions. During the sampling event, the general groundwater sampling procedures presented in the "Site Characterization Report and Work Plan" (J&A 1992) for the facility were followed. After samples were collected and labeled, they were placed into ice chests chilled with blue ice for transport to the Chromalab analytical laboratory. A chain-of-custody record was completed and signed by a representative of Jonas & Associates Inc., and upon delivery, by a representative of Chromalab Inc.. The analysis and results of groundwater samples collected during Round Eleven are presented in Section 3.2. The following section presents relevant information associated with sampling each of the five monitoring wells.

##### Sampling Monitoring Well 9MW2

Prior to purging, the water level in monitoring well 9MW2 was measured at 9.86 feet below the top of the casing. A clean, clear bailer was then used to collect a sample from the surface of the groundwater. No floating product was identified. The well was then purged of approximately 25 gallons of well water. During purging activities, the well appeared to recover relatively rapidly. Two liters were collected for analyses for Total Extractable Petroleum Hydrocarbons as -Diesel, -Kerosene, and -Motor Oil (TEPH-D,-K,-MO) (EPA Methods 3510/8015M). The Round Eleven groundwater samples from monitoring well 9MW2 are identified as GW9-MW2-Q11.

##### Sampling Monitoring Well 9MW3

During this sampling event, the water level in monitoring well 9MW3 was measured at 10.70 feet below the top of the casing. No floating product was identified. Prior to purging, two VOA containers with HCL were collected for analyses of TPH-G (EPA Methods 5030/8015M) and BTEX (EPA Method 602). Dissolved oxygen was also measured in the field from water collected from the well prior to purging. After approximately 22 gallons were purged from the well, two VOA containers with HCL were collected for analyses of TPH-G (EPA Methods 5030/8015M) and BTEX (EPA Method 602/8020). Two VOA containers were also collected for analysis of Volatile Halogenated Organics (EPA Methods 8010). The dissolved oxygen was also measured

after purging. During purging activities, recovery of the well was slower than the other monitoring wells. The Round Eleven groundwater samples for monitoring well 9MW3 are identified as GW9-MW3-Q11.

#### Sampling Monitoring Well 9MW4

During this sampling event, the groundwater level in monitoring well 9MW4 was measured at 8.93 feet below the top of the casing. No floating products were identified in this well. The well was purged of approximately 25 gallons. Recovery of the well during purging was relatively rapid. Two VOA containers with HCl were used to collect groundwater for analysis of TPH-G (EPA Methods 5030/8015M) and BTEX (EPA Method 602/8020). The Round Eleven groundwater samples for monitoring well 9MW4 are identified as GW9-MW4-Q11.

### 3.2 Groundwater Sampling Results

This section of the report presents the analytical results for the Round Eleven groundwater sampling event. Water level and free product measurements are also presented.

#### 3.2.1 Analytical Results

As stated previously, summary tables, the Round Eleven chain-of-custody records and laboratory data sheets are presented in Appendix A, B, and C, respectively. The following Table 3-1 present a summary of the analyses performed and the analytes detected during the Round Eleven groundwater sampling event. Figure 3-1 provides a graphical display of the analytical results.



Table 3-1 Jonas & Associates Inc.  
 November 1995 - Round Eleven  
 Groundwater Sampling Results  
 PACO PUMPS - 9201 San Leandro Street  
 Oakland, California

Sample I.D.	Analysis	Detected Analytes
GW9-MW1-Q11	not analyzed	
GW9-MW2-Q11	TEPH as Diesel, Kerosene, Motor Oil (3510/8015M)	Motor oil: 0.690 mg/L others not detected
GW9-MW3-Q11P (prior to purging)	TPH as Gasoline (5030/8015M) BTEX (602/8020) Dissolved Oxygen	TPH Gasoline: 3.0 mg/L Benzene: 0.780 mg/L Toluene: 0.043 mg/L Ethyl Benzene: 0.032 mg/L Total Xylenes: 0.032 mg/L Dissolved Oxygen: 18. mg/L others not detected
GW9-MW3-Q11	TPH as Gasoline (5030/8015M) BTEX (602/8020) Volatile Halogenated Organics (8010) Dissolved Oxygen	TPH Gasoline: 2.4 mg/L Benzene: 0.830 mg/L Toluene: 0.038 mg/L Ethyl Benzene: 0.021 mg/L Total Xylenes: 0.016 mg/L 1,2-Dichloroethane: 0.180 mg/L Dissolved Oxygen: 3. mg/L others not detected
GW9-MW4-Q11	TEPH as Gasoline (5030/8015M) BTEX (602/8020)	Benzene: 0.0045 mg/L Toluene: 0.0007 mg/L Ethyl Benzene: 0.0010 mg/L Total Xylenes: 0.0007 mg/L others not detected
GW9-MW5-Q11	not analyzed	

Legend - TPH: Total Petroleum Hydrocarbons  
 TEPH: Total Extractable Petroleum Hydrocarbons  
 BTEX: Benzene, Toluene, Ethyl Benzene, Total Xylenes  
 DO: Dissolved Oxygen

Drawn by M.J. 02-02-1996

Drawing Number PC0220-11/95:GFS-1

Figure 3-1

**9MW3** (Water Elev.:+6.43')  
November 29, 1995 sampling results:  
(Prior to Purging)

	(mg/L)		(mg/L)
TPH-Gasoline	3.0	Ethyl Benzene	0.032
Benzene	0.780	Total Xylenes	0.032
Toluene	0.043	Dissolved Oxygen 18	

(After Purging)

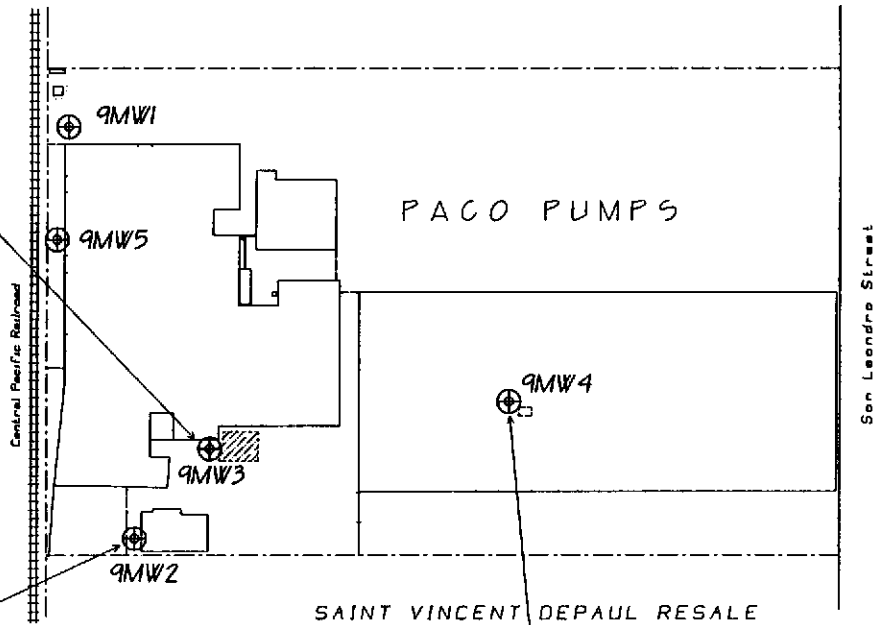
	(mg/L)		(mg/L)
TPH-Gasoline	2.4	Detected Method 8010	
Benzene	0.830	Volatile Halogenated Organics:	
Toluene	0.038	1,2-Dichloroethane	0.180
Ethyl Benzene	0.021	Dissolved Oxygen	3
Total Xylenes	0.016		

**9MW2** (Water Elev.:+6.97')  
November 29, 1995 sampling results:

	(mg/L)		(mg/L)
TEPH-Diesel	ND(0.050)		
TEPH-Kerosene	ND(0.050)		
TEPH-Motor Oil	0.690		

**9MW4** (Water Elev.:+8.15')  
November 29, 1995 sampling results:

	(mg/L)		(mg/L)
TPH-Gasoline	ND(0.05)	Ethyl Benzene	0.0010
Benzene	0.0045	Total Xylenes	0.0007
Toluene	0.0007		



**Legend:**

⊕ Monitoring Well

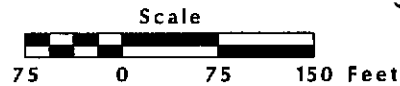
TPH = Total Petroleum Hydrocarbons

TEPH = Total Extractable Petroleum Hydrocarbons

ND(0.05) = Not Detected above laboratory detection limit in parentheses.

\* = see notation on laboratory data sheet.

Well	Date Installed	Total Depth	Casing Diameter	Borehole Diameter	Screen Depth	Sand Pack Depth
9AW1	11-4-1992	21'	4"	8.5"	5.25'-20.25'	4.25'-21'
9AW2	11-3-1992	21'	4"	8.5"	5.25'-20.25'	4.25'-21'
9AW3	11-4-1992	21'	4"	8.5"	5.25'-20.25'	4.25'-21'
9AW4	11-9-1992	21'	4"	8.5"	5.25'-20.25'	4.25'-21'
9AW5	8-24-1994	21'	4"	8.5"	5.25'-20.25'	4.25'-21'



**November 29, 1995 Groundwater Sampling Results**

PACO Pumps Inc.  
9201 San Leandro Street  
Oakland, California

Prepared by

**JONAS & ASSOCIATES INC.**

Date: 02-02-1996  
Locations Approx.

**Figure 3-1**

Drawing Number  
PC0220-11/95:G11F3-1

### 3.2.2 Results of Water Level and Free Product Measurements

During this sampling round, water level measurements from all five monitoring wells were recorded and a determination was made with respect to the presence or absence of a floating product for the three monitoring wells that were sampled.

The following Table 3-2 provides a summary of the November 29, 1995 Round Eleven groundwater level and free product measurements. Water level elevations, with respect to mean sea level, were calculated using the results of the Kier & Wright surveys.

Table 3-2  
Round Eleven - November 29, 1995  
Groundwater Level and Free Product Measurement  
PACO PUMPS - 9201 San Leandro Street  
Oakland, California

Date	Well ID	Surveyed Casing Elevation M.S.L.	Water Level <u>from Top of Casing</u>		Pavement vs. Casing Top	Free Product
			Depth	Elevation M.S.L.		
11/29/1995	9MW1	15.51'	9.28'	6.23'	0.40'	not sampled
11/29/1995	9MW2	16.83'	9.86'	6.97'	0.40'	no free product
11/29/1995	9MW3	17.13'	10.70'	6.43'	0.29'	no free product
11/29/1995	9MW4	17.08'	8.93'	8.15'	0.54'	no free product
11/29/1995	9MW5	15.93'	9.11'	6.82'	0.25'	not sampled

Notes -   » Elevation with respect to mean sea level (M.S.L.) and Kier & Wright survey.

Figures 3-2, graphically presents the results of the well water levels collected during the Round Eleven sampling event.

Drawn by  
02/02/1996

J.R.  
Drawing Number  
PCO220-11/95:G11F3-2

Figure 3-2

9MW1 Well Water Level  
Date Feet Mean Sea Level  
11/29/95 +6.23

9MW5 Well Water Level  
Date Feet Mean Sea Level  
11/29/95 +6.82

9MW3 Well Water Level  
Date Feet Mean Sea Level  
11/29/95 +6.43

9MW2 Well Water Level  
Date Feet Mean Sea Level  
11/29/95 +6.97

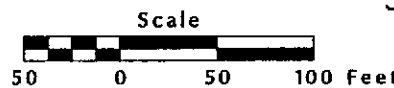
9MW4 Well Water Level  
Date Feet Mean Sea Level  
11/29/95 +8.15

**Legend:**

⊕ Monitoring Well with Well Water Level Feet Mean Sea Level

--- 11/29/95 Equipotential Line

Well	Date Installed	Total Depth	Casing Diameter	Borehole Diameter	Screen Depth	Sand Pack Depth
9AW1	11-4-1992	21'	4"	8.5"	5.25'-20.25'	4.25'-21'
9AW2	11-3-1992	21'	4"	8.5"	5.25'-20.25'	4.25'-21'
9AW3	11-4-1992	21'	4"	8.5"	5.25'-20.25'	4.25'-21'
9AW4	11-9-1992	21'	4"	8.5"	5.25'-20.25'	4.25'-21'
9AW5	8-12-1994	21'	4"	8.5"	5.25'-20.25'	4.25'-21'



**November 29, 1995 - Winter Season  
Potentiometric/Water Table**

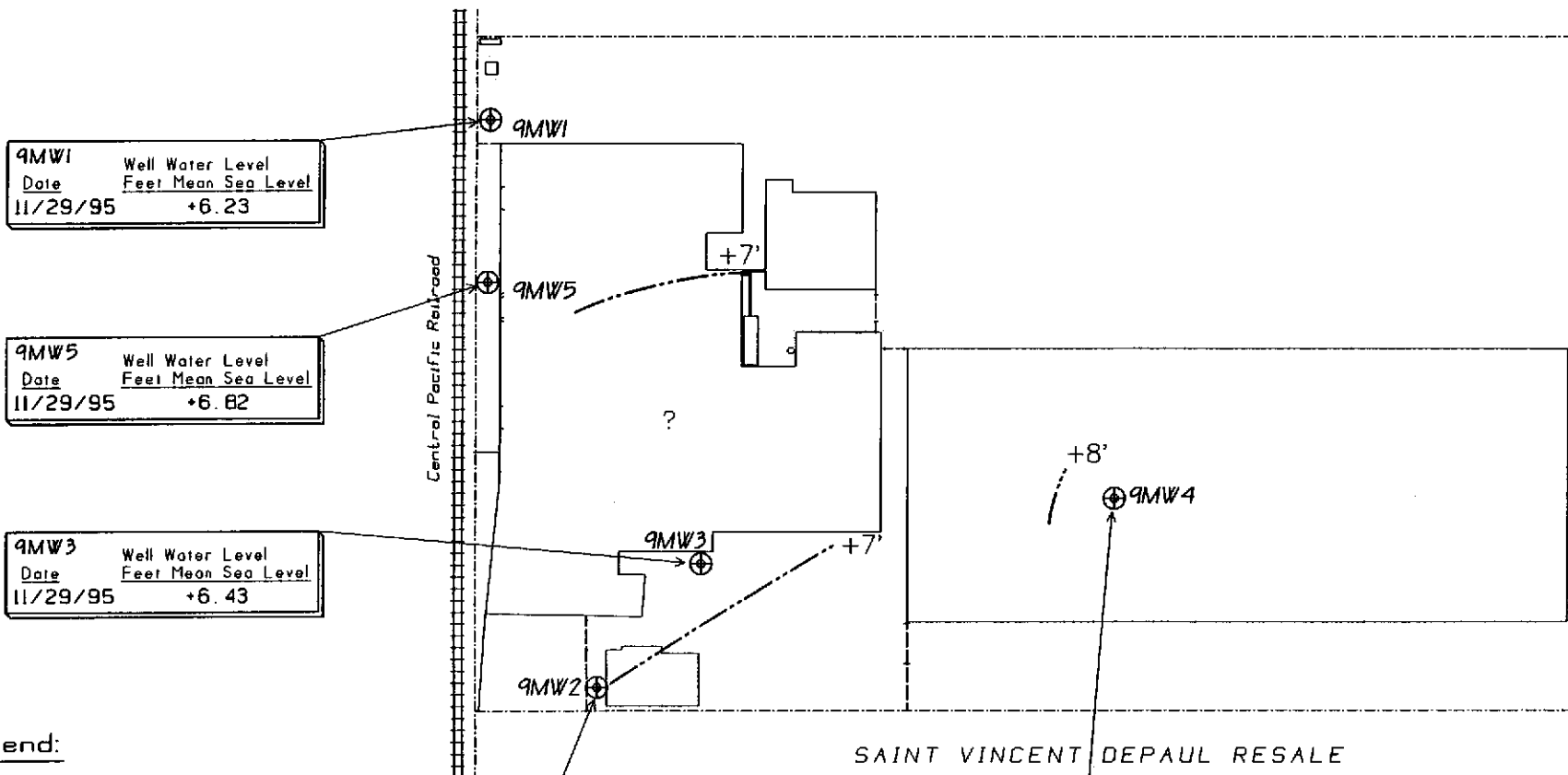
PACO Pumps Inc.  
9201 San Leandro Street  
Oakland, California

Prepared by  
**Jonas & ASSOCIATES INC.**

Date: 02-02-1996  
Locations Approx.

**Figure 3-2**

Drawing Number  
PCO220-11/95:G11F3-2



San Leandro Street



#### 4.0 REFERENCES

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- \_\_\_\_\_, 1994. "Groundwater Monitoring Report, Sampling Round Six, PACO Pumps, 9201 San Leandro Street, Oakland, California", August 24, 1994.
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- \_\_\_\_\_, 1995. "Groundwater Monitoring Report, Sampling Round Eight, PACO Pumps, 9201 San Leandro Street, Oakland, California", March 20, 1995.
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- Subsurface Consultants Inc., 1992. "Soil Contamination Assessment Drum Storage Areas, St. Vincent DePaul Distribution Center, 9234 San Leandro Street, Oakland, California", December 16, 1992.

Appendix A  
Summary Tables of Laboratory Results

TPH-GASOLINE & BTEX GROUNDWATER RESULTS  
PACO PUMPS - 9201 SAN LEANDRO STREET

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	TPH-Gasoline (5030/8015M) (mg/L)	Benzene (602/8020) (mg/L)	Toluene (602/8020) (mg/L)	Ethyl Benzene (602/8020) (mg/L)	Total Xylenes (602/8020) (mg/L)
<i>Monitoring Well 9MW1</i>									
GW9-MW1-Q5	5/26/94	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.050)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW1-Q6	9/24/94	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.050)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW1-Q7	11/22/94	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.050)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW1-Q8	2/8/95	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.050)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW1-Q9	5/31/95	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.05)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<i>Monitoring Well 9MW2</i>									
GW9-MW2-Q1	11/16/92	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.050)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0015)
GW9-MW2-Q2	3/9/93	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.050)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW2-Q3 <sup>1</sup>	7/21/93	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.050)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW2-Q4	1/29/94	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.050)	ND(0.002) <sup>2</sup>	ND(0.002) <sup>2</sup>	ND(0.002) <sup>2</sup>	ND(0.002) <sup>2</sup>
GW9-MW2-Q5	5/26/94	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.050)	0.0023	0.0008	ND(0.0005)	ND(0.0005)
GW9-MW2-Q6	9/24/94	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.050)	0.0061	0.0014	0.0005	0.0006
GW9-MW2-Q7	11/22/94	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.050)	0.0034	0.0018	ND(0.0005)	0.0005
GW9-MW2-Q8	2/8/95	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.050)	0.0045	0.0013	ND(0.0005)	0.0005
GW9-MW2-Q10	8/9/95	5¼'-20¼' <sup>screen</sup>	water	CrLab	ND(0.05)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<i>Monitoring Well 9MW3</i>									
GW9-MW3-Q1	11/16/92	5¼'-20¼' <sup>screen</sup>	water	CrLab	40.000	2.900	6.700	0.550	1.700
GW9-MW3-Q2	3/9/93	5¼'-20¼' <sup>screen</sup>	water	CrLab	12.000	1.000	0.300	0.110	0.170
GW9-MW3-Q3 <sup>1</sup>	7/21/93	5¼'-20¼' <sup>screen</sup>	water	CrLab	3.400	0.420	0.063	0.036	0.037
GW9-MW3-Q4	1/29/94	5¼'-20¼' <sup>screen</sup>	water	CrLab	5.600	0.910 <sup>2</sup>	0.220 <sup>2</sup>	0.047 <sup>2</sup>	0.036 <sup>2</sup>
GW9-MW3-Q5	5/26/94	5¼'-20¼' <sup>screen</sup>	water	CrLab	5.200	0.890	0.180	0.045	0.043
GW9-MW3-Q6	9/24/94	5¼'-20¼' <sup>screen</sup>	water	CrLab	5.200	0.580	0.076	0.029	0.022
GW9-MW3-Q7	11/22/94	5¼'-20¼' <sup>screen</sup>	water	CrLab	2.200	0.670	0.130	0.031	0.028
GW9-MW3-Q8	2/8/95	5¼'-20¼' <sup>screen</sup>	water	CrLab	2.900	0.780	0.120	0.031	0.033
GW9-MW3-Q9P	5/31/95	5¼'-20¼' <sup>screen</sup>	water	CrLab	9.1	2.800	0.160	0.091	0.072
GW9-MW3-Q9	5/31/95	5¼'-20¼' <sup>screen</sup>	water	CrLab	5.3	1.300	0.170	0.037	0.044
GW9-MW3-Q10P	8/28/95	5¼'-20¼' <sup>screen</sup>	water	CrLab	1.4	ND(0.0005)	ND(0.0005)	0.0017	0.0079
GW9-MW3-Q10	8/28/95	5¼'-20¼' <sup>screen</sup>	water	CrLab	4.8	2.500	0.150	0.053	0.044
GW9-MW3-Q11P	11/29/95	5¼'-20¼' <sup>screen</sup>	water	CrLab	3.0	0.780	0.043	0.032	0.032
GW9-MW3-Q11	11/29/95	5¼'-20¼' <sup>screen</sup>	water	CrLab	2.4	0.830	0.038	0.021	0.016

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TPH-GASOLINE & BTEX GROUNDWATER RESULTS  
PACO PUMPS - 9201 SAN LEANDRO STREET

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	TPH-Gasoline (5030/8015M) (mg/L)	Benzene (602/8020) (mg/L)	Toluene (602/8020) (mg/L)	Ethyl Benzene (602/8020) (mg/L)	Total Xylenes (602/8020) (mg/L)
<u>Monitoring Well 9MW4</u>									
GW9-MW4-Q1	11/16/92	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.560	0.066	0.073	0.016	0.130
GW9-MW41-Q1	11/16/92	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.520	0.063	0.067	0.015	0.140
GW9-MW4-Q2	3/9/93	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.750	0.067	0.012	0.029	0.062
GW9-MW4-Q3	7/21/93	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.250	0.021	0.0042	0.0084	0.011
GW9-MW4-Q4	1/29/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.180	0.028	0.0022	0.0062	0.010
GW9-MW4-Q5	5/26/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.130	0.014	0.0032	0.0061	0.0047
GW9-MW4-Q6	9/24/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.070	0.0067	0.0009	0.0028	0.0026
GW9-MW4-Q7	11/22/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.090	0.016	0.0017	0.0056	0.0034
GW9-MW4-Q8	2/8/95	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.090	0.017	0.0013	0.0055	0.0030
GW9-MW4-Q9	5/31/95	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.08	0.013	0.0006	0.0023	0.0012
GW9-MW4-Q10	8/9/95	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.05)	0.0036	ND(0.0005)	0.0014	0.0006
GW9-MW4-Q11	11/29/95	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.05)	0.0045	0.0007	0.0010	0.0007
<u>Monitoring Well 9MW5</u>									
GW9-MW5-Q6	9/24/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW5-Q7	11/22/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW5-Q8	2/8/95	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW90MW5-Q10	8/9/95	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.05)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)

notes: TPH: Total Petroleum Hydrocarbons

<sup>1</sup> = probably corrected, apparently switched.

ND(0.1) = Not Detected above the laboratory detection limit in parentheses.

GW9-MW3-Q9P: Sampled prior to purging. For baseline study for use of Oxygen Release Compound (ORC).

GW9-MW3-Q9: Sampled after purging. Installed ORC after collection of sample.

GW9-MW3-Q10P: Sampled after removal of ORC and prior to purging.

GW9-MW3-Q10: Sampled after purging.

BTEX: Benzene, Toluene, Ethyl Benzene, Total Xylenes

<sup>2</sup> = EPA Method 624



Table A/GW2  
TEPH & PCB GROUNDWATER RESULTS  
PACO PUMPS - 9201 SAN LEANDRO STREET

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	TEPH-Diesel (3510/8015M) (mg/L)	TEPH-Kerosene (3510/8015M) (mg/L)	TEPH-Motor Oil (3510/8015M) (mg/L)	PCBs (608 mod.) (mg/L)
<i>Monitoring Well 9MW1</i>								
GW9-MW1-Q1	11/15/92	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)	ND(0.05)
GW9-MW1-Q2	3/9/93	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.140	ND(0.050)	ND(0.5)	ND(0.0005)
GW9-MW1-Q3	7/21/93	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)	-
GW9-MW1-Q4	1/29/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)	-
<i>Monitoring Well 9MW2</i>								
GW9-MW2-Q1	11/16/92	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	0.590	9.5	-
GW9-MW2-Q2	3/9/93	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.430	0.210	4.3	-
GW9-MW2-Q3'	7/21/93	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	0.52	-
GW9-MW2-Q4	1/29/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	0.68	-
GW9-MW2-Q5	5/26/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)	-
GW9-MW2-Q6	9/24/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	0.6	-
GW9-MW2-Q7	11/22/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	1.0	-
GW9-MW2-Q8	2/8/95	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	0.550	-
GW9-MW2-Q9	5/31/95	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)	-
GW9-MW2-Q10	8/9/95	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.500)	-
GW9-MW2-Q11	11/29/95	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	0.690	-
<i>Monitoring Well 9MW3</i>								
GW9-MW3-Q1	11/16/92	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)	-
GW9-MW3-Q2	3/9/93	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.290	ND(0.050)	ND(0.5)	-
GW9-MW3-Q3'	7/21/93	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)	-
GW9-MW3-Q4	1/29/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)	-
GW9-MW3-Q5	5/26/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)	-
GW9-MW3-Q6	9/24/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	0.082	ND(0.5)	-
GW9-MW3-Q7	11/22/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050) <sup>2</sup>	ND(0.050)	ND(0.5)	-
GW9-MW3-Q8	2/8/95	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050) <sup>2</sup>	ND(0.050)	ND(0.500)	-

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TEPH & PCB GROUNDWATER RESULTS  
PACO PUMPS - 9201 SAN LEANDRO STREET

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	TEPH-Diesel (3510/8015M) (mg/L)	TEPH-Kerosene (3510/8015M) (mg/L)	TEPH-Motor Oil (3510/8015M) (mg/L)	PCBs (608 mod.) (mg/L)
<u>Monitoring Well 9MW4</u>								
GW9-MW4-Q1	11/16/92	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)	-
GW9-MW41-Q1	11/16/92	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)	-
GW9-MW4-Q2	3/9/93	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)	-
GW9-MW4-Q3	7/21/93	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)	-
GW9-MW4-Q4	1/29/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050)	ND(0.050)	ND(0.5)	-
<u>Monitoring Well 9MW5</u>								
GW9-MW5-Q6	9/24/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	0.130	ND(0.050)	ND(0.5)	-
GW9-MW5-Q7	11/22/94	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050) <sup>2</sup>	ND(0.050)	ND(0.5)	-
GW9-MW5-Q8	2/8/95	5¼'-20¼' <sub>screen</sub>	water	CrLab	ND(0.050) <sup>3</sup>	ND(0.050)	ND(0.5)	-

## notes:

TEPH: Total Extractable Petroleum Hydrocarbons

PCBs: Polychlorinated Biphenyls

ND(0.004) = Not Detected above the laboratory detection limit in parentheses.

<sup>1</sup> = probably corrected, apparently switched.<sup>2</sup> = Unknown compounds were found in the Diesel range with the estimated concentration of 0.083 mg/L.<sup>3</sup> = Unknown compounds were found in the Diesel range with the estimated concentration of 0.190 ug/L.

VOLATILE ORGANIC COMPOUND GROUNDWATER RESULTS  
PACO PUMPS - 9201 SAN LEANDRO STREET  
{mg/L}

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	Acetone	Bromodichloro- Benzene	methane	Bromo- methane	Carbon Tetrachloride	Chloro- benzene	Chloro- ethane	2-Chloroethyl Vinyl Ether	Chloroform	Chloro- methane
<u>Monitoring Well 9MW1</u>														
GW9-MW1-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW1-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW1-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW1-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW2</u>														
GW9-MW2-Q1	11/15/92	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
GW9-MW2-Q2	3/9/93	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
GW9-MW2-Q4	1/29/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.005)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
GW9-MW2-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	-	0.0023	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW2-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	-	0.0061	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW2-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	-	0.0034	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW2-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	-	0.0045	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW2-Q10	8/9/95	5 1/4'-20 1/4' screen	water	CrLab	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW3</u>														
GW9-MW3-Q3	7/21/93	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	0.450	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
GW9-MW3-Q4	1/29/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	0.910	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
GW9-MW3-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	-	0.890	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	-	0.580	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	-	0.670	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	-	0.780	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q9	5/31/95	5 1/4'-20 1/4' screen	water	CrLab	-	1.300	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q10	8/28/95	5 1/4'-20 1/4' screen	water	CrLab	-	2.500	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q11	11/29/95	5 1/4'-20 1/4' screen	water	CrLab	-	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW4</u>														
GW9-MW4-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	-	0.014	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW4-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	-	0.0067	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW4-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	-	0.016	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW4-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	-	0.017	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW5</u>														
GW9-MW5-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW5-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW5-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW5-Q10	8/9/95	5 1/4'-20 1/4' screen	water	CrLab	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)

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VOLATILE ORGANIC COMPOUND GROUNDWATER RESULTS  
PACO PUMPS - 9201 SAN LEANDRO STREET  
{mg/L}

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	Dibromo-chloromethane	1,2-Di-bromoethane	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	1,1-Dichloro-ethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	cis 1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloro-propane
<u>Monitoring Well 9MW1</u>															
GW9-MW1-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW1-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW1-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW1-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW2</u>															
GW9-MW2-Q1	11/15/92	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	-	ND(0.002)	ND(0.002)	ND(0.002)	0.0026	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
GW9-MW2-Q2	3/9/93	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	-	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
GW9-MW2-Q4	1/29/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	-	-	-	-	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
GW9-MW2-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.0016	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW2-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.0010	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW2-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.0005	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW2-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.0007	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW2-Q10	8/9/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW3</u>															
GW9-MW3-Q3	7/21/93	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	-	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.330	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
GW9-MW3-Q4	1/29/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	-	-	-	-	ND(0.002)	0.180	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
GW9-MW3-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.250	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.190	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.160	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.160	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q9	5/31/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q10	8/28/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.100	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW3-Q11	11/29/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.180	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW4</u>															
GW9-MW4-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	0.0025	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW4-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW4-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW4-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW5</u>															
GW9-MW5-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW5-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW5-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
GW9-MW5-Q10	8/9/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)

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VOLATILE ORGANIC COMPOUND GROUNDWATER RESULTS  
PACO PUMPS - 9201 SAN LEANDRO STREET  
{mg/L}

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	cis-1,3-Di-chloropropene	trans-1,3-Di-chloropropene	Ethyl-Benzene	Freon 113	2-Hexanone	Methyl Ethyl Ketone	Methyl Isobutyl Ketone	Methylene Chloride	Styrene	1,1,2,2-Tetra-chloroethane	Tetra-chloroethene
<u>Monitoring Well 9MW1</u>															
GW9-MW1-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW1-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW1-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW1-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW2</u>															
GW9-MW2-Q1	11/15/92	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	ND(0.002)	ND(0.002)	-	-	ND(0.002)	ND(0.002)	ND(0.002)	-	ND(0.002)	ND(0.002)
GW9-MW2-Q2	3/9/93	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	ND(0.002)	ND(0.002)	-	-	ND(0.002)	ND(0.002)	ND(0.002)	-	ND(0.002)	ND(0.002)
GW9-MW2-Q4	1/29/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	ND(0.002)	ND(0.002)	-	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.005)	ND(0.002)	ND(0.002)	ND(0.002)
GW9-MW2-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW2-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.0005	-	-	ND(0.005)	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW2-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW2-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW2-Q10	8/9/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	-	-	ND(0.0005)	-	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW3</u>															
GW9-MW3-Q3	7/21/93	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	ND(0.002)	0.049	-	-	ND(0.002)	ND(0.002)	ND(0.002)	-	ND(0.002)	ND(0.002)
GW9-MW3-Q4	1/29/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	ND(0.002)	0.047	-	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.005)	ND(0.002)	ND(0.002)	ND(0.002)
GW9-MW3-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.045	ND(0.0005)	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW3-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.029	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW3-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.031	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW3-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.031	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW3-Q9	5/31/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.037	-	-	-	-	ND(0.0005)	-	ND(0.0005)	ND(0.0005)
GW9-MW3-Q10	8/9/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.053	-	-	ND(0.005)	-	ND(0.0005)	-	ND(0.0005)	ND(0.0005)
GW9-MW3-Q11	11/29/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	-	-	-	-	-	ND(0.0005)	-	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW4</u>															
GW9-MW4-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.0061	ND(0.0005)	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW4-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.0028	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW4-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.0056	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW4-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	0.0055	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW5</u>															
GW9-MW5-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW5-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW5-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	-	-	ND(0.005)	-	ND(0.0005)	ND(0.0005)
GW9-MW5-Q10	8/9/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	-	-	ND(0.0005)	-	ND(0.0005)	ND(0.0005)

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VOLATILE ORGANIC COMPOUND GROUNDWATER RESULTS  
PACO PUMPS - 9201 SAN LEANDRO STREET  
{mg/L}

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	Toluene	1,1,1-Tri-chloroethane	1,1,2-Tri-chloroethane	Tri-chloroethene	Trichloro-fluoro-methane	Trichloro-trifluoroethane	Vinyl Acetate	Vinyl Chloride	Total Xylenes
<u>Monitoring Well 9MW1</u>													
GW9-MW1-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	ND(0.0005)	ND(0.0005)
GW9-MW1-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	ND(0.0005)
GW9-MW1-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	ND(0.0005)
GW9-MW1-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW2</u>													
GW9-MW2-Q1	11/15/92	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	-	-	ND(0.002)	ND(0.002)
GW9-MW2-Q2	3/9/93	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	-	-	ND(0.002)	ND(0.002)
GW9-MW2-Q4	1/29/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	-	ND(0.002)	ND(0.002)	ND(0.002)
GW9-MW2-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	0.0008	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	ND(0.0005)	ND(0.0005)
GW9-MW2-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	0.0014	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	0.0006
GW9-MW2-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	0.0018	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	0.0005
GW9-MW2-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	0.0013	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	0.0005
GW9-MW2-Q10	8/9/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	ND(0.0005)
<u>Monitoring Well 9MW3</u>													
GW9-MW3-Q3 <sup>1</sup>	7/21/93	5 1/4'-20 1/4' screen	water	CrLab	0.050	ND(0.002)	ND(0.002)	0.0024	ND(0.002)	-	-	ND(0.002)	0.047
GW9-MW3-Q4	1/29/94	5 1/4'-20 1/4' screen	water	CrLab	0.220	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	-	ND(0.002)	ND(0.002)	0.036
GW9-MW3-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	0.180	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	ND(0.0005)	0.043
GW9-MW3-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	0.076	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	0.022
GW9-MW3-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	0.130	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	0.028
GW9-MW3-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	0.120	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	0.033
GW9-MW3-Q9	5/31/95	5 1/4'-20 1/4' screen	water	CrLab	0.170	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	0.044
GW9-MW3-Q10	8/9/95	5 1/4'-20 1/4' screen	water	CrLab	0.150	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	0.044
GW9-MW3-Q11	11/29/95	5 1/4'-20 1/4' screen	water	CrLab	-	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	-
<u>Monitoring Well 9MW4</u>													
GW9-MW4-Q5	5/26/94	5 1/4'-20 1/4' screen	water	CrLab	0.0032	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	-	ND(0.0005)	0.0047
GW9-MW4-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	0.0009	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	0.0026
GW9-MW4-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	0.0017	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	0.0034
GW9-MW4-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	0.0013	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	0.0030
<u>Monitoring Well 9MW5</u>													
GW9-MW5-Q6	9/24/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	ND(0.0005)
GW9-MW5-Q7	11/22/94	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	ND(0.0005)
GW9-MW5-Q8	2/8/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	ND(0.0005)
GW9-MW5-Q10	8/9/95	5 1/4'-20 1/4' screen	water	CrLab	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	-	ND(0.0005)	ND(0.0005)

notes: CrLab: Chromalab Inc.

<sup>1</sup> = probably corrected, apparently not GW9-MW2-Q3.

ND(0.002) = Not Detected above the laboratory detection limit in parentheses.

METALS GROUNDWATER RESULTS  
PACO PUMPS - 9201 SAN LEANDRO STREET  
{mg/L}

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	Ag Silver	As Arsenic	Ba Barium	Be Beryllium	Cd Cadmium	Co Cobalt	Cr Chromium	Cu Copper	Hg Mercury	Mo Molybdenum	Ni Nickel
<u>Monitoring Well 9MW1</u>															
GW9-MW1-Q1	11/15/92	5¼'-20¼' screen	water	CrLab	ND(0.005)	ND(0.005)	0.18	0.002	ND(0.001)	ND(0.01)	ND(0.01)	0.007	ND(0.001)	ND(0.005)	ND(0.020)
GW9-MW1-Q2	3/9/93	5¼'-20¼' screen	water	CrLab	ND(0.005)	ND(0.005)	0.19	ND(0.001)	ND(0.001)	ND(0.01)	ND(0.01)	ND(0.005)	0.003	ND(0.005)	ND(0.020)
GW9-MW1-Q3	7/21/93	5¼'-20¼' screen	water	CrLab	0.011	ND(0.005)	0.27	ND(0.001)	ND(0.001)	ND(0.01)	ND(0.01)	0.007	ND(0.001)	0.010	ND(0.020)
GW9-MW1-Q4	1/29/94	5¼'-20¼' screen	water	CrLab	ND(0.005)	ND(0.005)	0.12	ND(0.001)	ND(0.001)	ND(0.01)	ND(0.01)	ND(0.005)	ND(0.001)	ND(0.005)	ND(0.02)

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	Pb Lead	Sb Antimony	Se Selenium	Tl Thallium	V Vanadium	Zn Zinc
<u>Monitoring Well 9MW1</u>										
GW9-MW1-Q1	11/15/92	5¼'-20¼' screen	water	CrLab	ND(0.010)	ND(0.020)	0.021	ND(0.01)	ND(0.01)	ND(0.005)
GW9-MW1-Q2	3/9/93	5¼'-20¼' screen	water	CrLab	ND(0.010)	0.03	0.04	ND(0.01)	ND(0.01)	0.03
GW9-MW1-Q3	7/21/93	5¼'-20¼' screen	water	CrLab	ND(0.010)	ND(0.020)	ND(0.01)	ND(0.01)	ND(0.01)	0.015
GW9-MW1-Q4	1/29/94	5¼'-20¼' screen	water	CrLab	ND(0.01)	ND(0.02)	0.018	0.12	0.010	ND(0.005)
<u>Monitoring Well 9MW2</u>										
GW9-MW2-Q2	3/9/93	5¼'-20¼' screen	water	CrLab			0.08			
GW9-MW2-Q3	7/21/93	5¼'-20¼' screen	water	CrLab			ND(0.01)			
GW9-MW2-Q4	1/29/94	5¼'-20¼' screen	water	CrLab			0.026			
<u>Monitoring Well 9MW3</u>										
GW9-MW3-Q3	7/21/93	5¼'-20¼' screen	water	CrLab			ND(0.01)			
GW9-MW3-Q4	1/29/94	5¼'-20¼' screen	water	CrLab			0.025			

notes: CrLab: Chromalab Inc.  
ND(0.25) = Not Detected above the laboratory detection limit in parentheses.

INORGANIC GROUNDWATER RESULTS  
PACO PUMPS - 9201 SAN LEANDRO STREET

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	Total Nitrogen (351.3/300) (mg/L)	Phosphorus (365.2) (mg/L)	Iron (3010AM/6010) (mg/L)	Manganese (3010AM/6010) (mg/L)	Potassium (3010AM/6010) (mg/L)
<u>Monitoring Well 9MW3</u>									
GW9-MW3-Q9	5/31/95	5¼'-20¼' <sub>screen</sub>	water	GeoAnal CrLab	ND(0.2)	0.09	3.2	3.3	1.4
GW9-MW3-Q10	8/28/95	5¼'-20¼' <sub>screen</sub>	water	GeoAnal CrLab	ND(0.2)	1.0	ND(0.1)	1.2	34

notes: GeoAnal: GeoAnalytical Laboratories, Inc.

CrLab: Chromalab Inc.

ND(0.25) = Not Detected above the laboratory detection limit in parentheses.

GW9-MW3-Q9: Sampled after purging, but prior to installation of Oxygen Release Compound (ORC) in well.

GW9-MW3-Q10: Sampled after removal of ORC and purging of the well.

Table A/GW6

DISSOLVED OXYGEN GROUNDWATER RESULTS  
PACO PUMPS - 9201 SAN LEANDRO STREET

Sample I.D.	Sampling Date	Depth (feet)	Matrix	Lab	Dissolved Oxygen (Hach OX-2P) (mg/L)
<u>Monitoring Well 9MW3</u>					
GW9-MW3-Q9	5/31/95	5¼'-20¼' <sub>screen</sub>	water	field	11
GW9-MW3-Q10P	8/28/95	5¼'-20¼' <sub>screen</sub>	water	field	64?
GW9-MW3-Q10	8/28/95	5¼'-20¼' <sub>screen</sub>	water	field	20?
GW9-MW3-Q11P	11/29/95	5¼'-20¼' <sub>screen</sub>	water	field	18
GW9-MW3-Q11	11/29/95	5¼'-20¼' <sub>screen</sub>	water	field	3

notes: field: Performed in field with Hach Dissolved Oxygen Test Kit (Model OX-2P).

GW9-MW3-Q9: Sampled after purging, but prior to installation of Oxygen Release Compound (ORC) in well.

GW9-MW3-Q10P: Sampled after removal of ORC, but prior to purging of the well.

GW9-MW3-Q10: Sampled after removal of ORC and purging of the well.



Appendix B  
Chain-of-Custody Records

397/111982-985

# CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

SUBM #: 9511397 REP: GC  
 CLIENT: JONAS  
 DUE: 12/06/95  
 REF #: 25194

25194

## Chain of Custody

DATE 11-29-95 PAGE 1 OF 1

PROJ MGR					ANALYSIS REPORT														NUMBER OF CONTAINERS					
COMPANY					TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel, <del>XXXX</del> K, MO (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, 8+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)		TOTAL LEAD	EXTRACTION (TCLP, STLC)			
ADDRESS					SAMPLERS (SIGNATURE)		(PHONE NO.)		(FAX NO.)															
SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.																				
GW9-MW2-Q11	11-29	1347	GW				X																	2
GW9-MW3-Q11 P	11-29	1014	GW			X																		2
GW9-MW3-Q11	11-29	1132	GW			X		X																4
GW9-MW4-Q11	11-29	1456	GW			X																		2

PROJECT INFORMATION				SAMPLE RECEIPT				RELINQUISHED BY 1				RELINQUISHED BY 2				RELINQUISHED BY 3			
PROJECT NAME		Paco Pumps 9201 S.L.		TOTAL NO. OF CONTAINERS		10		SIGNATURE		1620		SIGNATURE		1850		SIGNATURE			
PROJECT NUMBER		PCO-220		HEAD SPACE				ELLIS ISHAYA		11-29-95		E. MARION		11-29-95					
P.O. #				REC'D GOOD CONDITION/COLD				Jonas & Associates Inc.				Chromalab							
TAT		STANDARD 5-DAY		CONFORMS TO RECORD		24 48 72 OTHER		COMPANY		COMPANY		COMPANY		COMPANY		COMPANY		COMPANY	
SPECIAL INSTRUCTIONS/COMMENTS:				RECEIVED BY 1				RECEIVED BY 2				RECEIVED BY (LABORATORY) 3							
5-Day TAT				SIGNATURE		1620		SIGNATURE		1850		SIGNATURE		Minnie Pak 1850		SIGNATURE		11/29/95	
				PRINTED NAME		DATE		PRINTED NAME		DATE		PRINTED NAME		DATE		PRINTED NAME		DATE	
				COMPANY		COMPANY		COMPANY		COMPANY		COMPANY		Chromalab, Inc.		COMPANY		LAB	

# CHROMALAB, INC.

Environmental Services (SDB)

December 6, 1995

Submission #: 9511397

JONAS & ASSOCIATES, INC.

Atten: Mark Jonas/Vida Wright PE

Project: PACO PUMPS 9201 S.L.

Project#: PCO-220

Received: November 29, 1995

re: 3 samples for Gasoline and BTEX analysis.

Method: EPA 5030/8015M/602/8020


Sampled: November 29, 1995 Matrix: WATER

Run: 9611-3

Analyzed: December 4, 1995

Spl #	Sample ID	Gasoline (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
111983	GW9-MW3-Q11 P	3.0	780	43	32	32
111984	GW9-MW4-Q11	N.D.	4.5	0.7	1.0	0.7
111985	GW9-MW3-Q11	2.4	830	38	21	16

Reporting Limits	0.05	0.5	0.5	0.5	0.5
Blank Result	N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)	85	112	114	114	115

  
Analyst

  
Eric Tam, Lab Director

# CHROMALAB, INC.

Environmental Services (SDB)

December 6, 1995

Submission #: 9511397

JONAS & ASSOCIATES, INC.

Atten: Mark Jonas/Vida Wright PE

Project: PACO PUMPS 9201 S.L.

Project#: PCO-220

Received: November 29, 1995

re: One sample for Volatile Halogenated Organics analysis.  
Method: EPA 8010

SampleID: GW9-MW3-Q11

Sample #: 111985

Matrix: WATER

Sampled: November 29, 1995

Run: 9643-0

Analyzed: December 4, 1995

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	0.5	N.D.	--
VINYL CHLORIDE	N.D.	0.5	N.D.	--
BROMOMETHANE	N.D.	0.5	N.D.	--
CHLOROETHANE	N.D.	0.5	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHENE	N.D.	0.5	N.D.	90
METHYLENE CHLORIDE	N.D.	0.5	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	0.5	N.D.	--
1,1-DICHLOROETHANE	N.D.	0.5	N.D.	--
CHLOROFORM	N.D.	0.5	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	0.5	N.D.	--
CARBON TETRACHLORIDE	N.D.	0.5	N.D.	--
1,2-DICHLOROETHANE	180	2	N.D.	--
TRICHLOROETHENE	N.D.	0.5	N.D.	110
1,2-DICHLOROPROPANE	N.D.	0.5	N.D.	--
BROMODICHLOROMETHANE	N.D.	0.5	N.D.	--
2-CHLOROETHYLVINYL ETHER	N.D.	0.5	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	0.5	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	0.5	N.D.	--
TETRACHLOROETHENE	N.D.	0.5	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	0.5	N.D.	--
CHLOROBENZENE	N.D.	0.5	N.D.	111
BROMOFORM	N.D.	0.5	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	0.5	N.D.	--
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	0.5	N.D.	--

Oleg Nemtsov  
Chemist

Chip Poalinelli  
Operations Manager

# CHROMALAB, INC.

Environmental Services (SDB)

December 7, 1995

Submission #: 9511397

JONAS & ASSOCIATES, INC.

Atten: Mark Jonas/Vida Wright PE

Project: PACO PUMPS 9201 S.L.

Project#: PCO-220

Received: November 29, 1995

re: 1 sample for Total Extractable Petroleum Hydrocarbons (TEPH) analysis.

Method: EPA 3510/8015M

Sampled: November 29, 1995

Matrix: WATER

Extracted: December 5, 1995

Run: 9647-K

Analyzed: December 7, 1995

<u>Spl #</u>	<u>Sample ID</u>	<u>Kerosene (ug/L)</u>	<u>Diesel (ug/L)</u>	<u>Motor Oil (ug/L)</u>
111982	GW9-MW2-Q11	N.D.	N.D.	690

Reporting Limits

50

50

500

Blank Result

N.D.

N.D.


N.D.

Blank Spike Result (%)

--

75

--

  
Kayvan Kimyai  
Chemist

  
Alex Tam  
Semivolatiles Supervisor