CSS ENVIRONMENTAL SERVICES, INC.
Managing Cost, Scope and Schedule
95 Belvedere Street, Suite 2
San Rafael, CA 94901
Telephone: (415) 457-9551
Facsimile: (415) 457-9261

MAR 2 2 2001

# LETTER OF TRANSMITTAL

**DATE:** March 15, 2001

**TO:** Mr. John Robinson
Pacific Gas & Electric Company
4930 Coliseum Way
Oakland, CA 94601

**FROM:** Aaron N. Stessman, P.E.

**RE:** Semi-annual Groundwater Monitoring Report
CSS Project No. 6118

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Dear Mr. Robinson,

For your records enclosed please find one copy of the Semi-Annual Groundwater Monitoring Report for 4930 Coliseum Way in Oakland, California.

CC: **Mr. Barney Chan**
Alameda County Health Agency
Division of Environmental Protection
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Mr. Chuck Hedley
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

Please call me if you have questions at (415) 457-9551.

# SEMI-ANNUAL GROUNDWATER MONITORING REPORT

## PACIFIC GAS & ELECTRIC
## GENERAL CONSTRUCTION YARD
## 4930 COLISEUM WAY
## OAKLAND, CA 94601

**March 15, 2001**

**CSS Project No. 6118**

***Prepared for***

**PACIFIC GAS & ELECTRIC COMPANY**
**4930 Coliseum Way**
**Oakland, California 94601**

***Prepared by***

**CSS ENVIRONMENTAL SERVICES, INC.**
**95 Belvedere Street, Suite 2**
**San Rafael, California 94901**

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CSS ENVIRONMENTAL SERVICES, INC.

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## GENERAL CONSTRUCTION YARD
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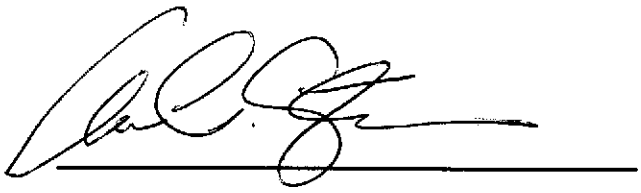
**95 Belvedere Street, Suite 2**
**San Rafael, California 94901**

**March 2001**




**Aaron N. Stessman, PE**
**Principal Engineer**

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# APPENDICES

## 1.0 BACKGROUND

This report presents the results of semiannual groundwater monitoring and sampling completed in the fourth quarter of 2000 at the PG&E Distribution and Construction Yard at 4930 Coliseum Way in Oakland, California. A vicinity map is included as Figure 1. This report was completed in accordance to the directive issued by the Alameda County Health Care Services Agency (ACHCSA) and a PG&E letter to Alameda County dated April 12, 1993. This report discusses the November 2000 monitoring and sampling event and summarizes the results from groundwater monitoring and sampling performed at the site between January 1990 and the present. The groundwater monitoring program involves the following activities: measuring groundwater elevations; collecting groundwater samples from shallow wells on the site; and performing analyses of the samples to determine the distribution of selected fuel compounds, solvents, and lead in the uppermost water bearing zone, beneath the northern portion of the yard. This area includes the former locations of five underground storage tanks and one above ground natural gas storage tank. Figure 2 shows the site plan for the subject property.

In January 1988, all of the site's underground storage tanks and associated piping within the PG&E property lines were removed. Analysis of their contents revealed that of the four tanks formerly located in a cluster at the north corner of the yard, two contained mineral spirits and two contained heavy oils. A concrete sump was located approximately 50 feet northeast of the tank cluster, near the location of a former welding shop. A fifth tank was formerly located near the west corner of the yard and contained diesel fuel. A soil sample collected below this tank indicated a concentration for diesel below the detection limit of 10 mg/kg. Following the tank removal, a subsurface investigation showed that soils immediately adjacent to the former diesel tank were not adversely impacted.

A number of soil samples collected near the former tank cluster, sump and shop location were found to contain Total Petroleum Hydrocarbons such as Diesel (TPH-D) at concentrations up to 3,900 mg/kg and Oil and Grease (O&G) at concentrations up to 1,000 mg/kg. These results were reported in the July 1988 report "Underground Tanks Investigation" by PG&E's Technical and Ecological Services Division.

In November and December 1991, approximately 2,000 cubic yards of soil was excavated as a remedial action for the petroleum hydrocarbons identified in the soil. Soil was excavated to the depth of groundwater, approximately 8 to 8 ½ feet below ground surface at the time, and replaced with clean, compacted backfill. The backfill below approximately 7 feet consisted of drain rock while backfill above 7 feet consisted of Class II aggregate base. The northwest and northeast excavation boundaries reached the approximate PG&E property lines. During the remedial excavation, confirmatory samples were taken along the sidewalls and bottom of the excavation to confirm that all the contaminated soil with concentrations above the regulatory agency approved cleanup target levels was removed. The cleanup targets for gasoline (TPH-G) and diesel (TPH-D) were 10 mg/kg and 100 mg/kg, respectively. The cleanup target for O&G was 1,000 mg/kg, and for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) compounds was 5 µg/kg (total BTEX). This work was described in an EARTH TECHNOLOGY CORPORATION (formerly Aqua Resources, Inc.) document "Site Remediation and Closure Report ... Former Tank Cluster Area" dated February 1992.

The samples collected along the PG&E property lines were above cleanup target levels, while each of the remaining confirmatory samples was below the cleanup target levels. The samples collected along the northeastern property line were above cleanup targets primarily due to TPH-D and O&G concentrations. The soils in this excavation wall contained visible tar and heavy oil, and also two pipes containing a similar petroleum product. Analytical testing of the product found in the pipes indicated TPH-D at 7,000 mg/kg and did not indicate VOCs above the method detection limit. The samples on the northwestern property line were above cleanup target levels for one or more of TPH-G, TPH-D, O&G, and BTEX.

The conclusions of the February 1992 closure report suggested that offsite sources of petroleum hydrocarbons may exist in both the northeast and northwest directions, and requested regulatory agency input in initiating an investigation of these potential sources. Quarterly groundwater monitoring and sampling for a period of one year was recommended in the 1992 report for wells OW-1, OW-4, OW-6 and OW-7.

In September and October of 1992, a containment mitigation cap was constructed over the surface soils in an area south of the hydrocarbon remediation area. These soils are contaminated with lead, believed to originate from lead-containing paint chips generated from sandblasting of a large above-ground natural gas storage tank. The tank was removed in May 1990, and the soils were found contaminated with total and soluble lead above California Code of Regulations (CCR) levels for hazardous wastes. The ACHCSA and the Regional Water Quality Control Board (RWQCB) approved capping as the selected remedial option for this area. As part of the remedial option the County agreed upon continued groundwater monitoring, sampling for lead and periodic inspection of the cap. Following containment capping, the remaining open ground at the site was covered with asphalt concrete.

In February 1993, well OW-8 was installed in the southern area of the yard in the vicinity of the former above-ground storage tank (AST). A maximum lead concentration of 27 µg/L (April 1993) was reported in samples collected from OW-8, which is below the state Maximum Contaminant Level (MCL) of 50 µg/L for drinking water. Wells OW-2 and OW-5 are located in the vicinity of the former AST and are also being monitored for lead. Lead has not been detected above the State MCL in any monitoring events for wells OW-2, OW-5 and OW-8.

Based on lead levels consistently falling below the MCL for drinking water, the lead regulatory agency, ACHCSA, issued a letter (Appendix C) on July 14, 1994 reducing the required lead sampling frequency from quarterly to semi-annually. Similarly, petroleum hydrocarbon and VOC monitoring is presently performed semi-annually for specific wells.

## 2.0 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

Four of the five originally installed monitoring wells remain in existence at the site. Monitoring well OW-3 was destroyed during the remedial excavations performed in November 1991 in the northern corner of the yard. Two new monitoring wells, OW-6 and OW-7, were installed on December 19, 1991. OW-6 was placed in the vicinity of OW-3 to act as a replacement, and OW-7 was installed at the northeastern end of the remediation area to monitor upgradient contamination of the shallow groundwater underlying the site. Both wells penetrate the clean, compacted backfill placed in the previously excavated remediation area. Monitoring well OW-8 was installed in February 1993 to monitor possible lead contamination in the groundwater, downgradient of the former AST. The locations of the new wells were approved by the ACHCSA.

On November 28, 2000, groundwater samples were collected by CSS Environmental Services, Inc. (CSS) personnel from monitoring wells OW-1, OW-2, OW-5, OW-6, OW-7, and OW-8. Prior to sampling, three casing volumes of groundwater were purged with a bailer from each well to ensure the collection of formational water. The parameters' temperature, pH and conductivity were measured. Groundwater samples were then collected and properly stored for transportation to a State of California certified laboratory for analysis. This report presents the results of the November 28, 2000 sampling event.

The groundwater samples collected from each well were selectively analyzed by Chromalab, Inc. Environmental Services (SDB), Pleasanton, California for TPH-D (LUFT Manual, October 1989), TPH-G (LUFT Manual, October 1989), BTEX (EPA method 8020), purgeable halocarbons compounds (EPA method 8010), lead (EPA method 6010A), and MTBE (EPA method 8260A) according to the analyses.

Table 2.1 presents the current monitoring schedule with appropriate sample analyses. This schedule has been adopted with approval from the ACHCSA as provided in their letter dated July 14, 1994.

**Table 2.1 Well Monitoring Schedule and Analyses**

| | TPH-D | TPH-G BTEX | MTBE by 8260 | EPA 8010 (VOCs) | Lead | Groundwater Elevation |
|---|---|---|---|---|---|---|
| OW - 1 | S | S | | S | | S |
| OW - 2 | | | | | S | S |
| OW - 4 | | | | | | |
| OW - 5 | S | S | | S | S | S |
| OW - 6 | S | S | | S | | S |
| OW - 7 | S | S | | S | | S |
| OW - 8 | | | | | S | S |

S = Semiannual monitoring

Certified laboratory results are presented in Appendix A along with chain-of-custody documentation. A table of the historical results of the laboratory analyses is included in Appendix B.

# 3.0 ANALYTICAL RESULTS

## 3.1 PETROLEUM HYDROCARBONS

Table 3.1 summarizes the analytical results for petroleum hydrocarbons detected in the groundwater samples collected on November 28, 2000. TPH-D was detected in two out of the four monitoring wells sampled for TPH-D and the highest concentration was observed in well OW-7. TPH-G was detected in two out of the four monitoring wells sampled for TPH-G. The highest concentration of TPH-G was observed in monitoring well OW-7.

**Table 3.1 Petroleum Hydrocarbons in Groundwater, in mg/L**

| Well | TPH-D | TPH-G |
|---|---|---|
| OW - 1 | 0.250 | 0.620 |
| OW - 5 | ND | ND |
| OW - 6 | ND | ND |
| OW - 7 | 0.370 | 1.100 |

Notes:

1) ND = Not Detected at or above the method Reporting Limits (RL)
2) TPH-D = Extractable Petroleum Hydrocarbons, Diesel Range, LUFT Manual, October 1989; RL = 0.05 mg/L.
3) TPH-G = Total Petroleum Hydrocarbons by California DHS Method LUFT Manual, October 1989; RL = 0.05 mg/L.
4) NA = Not Analyzed.

Figures 3.1 and 3.2 illustrate the historical concentrations of TPH-D in the monitored wells. The data from monitoring wells OW-3 and OW-6 are combined since OW-6 was installed to replace OW-3 following its destruction.

Figures 3.1 and 3.2 show that TPH-D concentrations were generally higher around the time of, or soon after, the remedial excavation in November 1991 in the wells in the remediation vicinity: OW-4, OW-6, and OW-7. Compared to the previous sampling event (June 2000), this quarter's results show a decrease in TPH-D concentrations in all wells except OW-7, which is slightly higher than the previous sampling. These are at or near their lowest TPH-D concentrations to date. Well OW-4 has been inaccessible for sampling over the past five sampling events due to the presence of an overlying storage container. Well OW-6 had no detected TPH-D for the first time since the November 1991 remedial excavation.

It was noted in the February 1992 tank cluster area remediation report that there is an apparent off-site source of contamination upgradient of the PG&E yard. The persistence of moderate TPH following remediation in this area is believed to be the result of this upgradient contamination.

Well OW-7's current TPH-G concentration of 1,100 µg/L is nearly double the previous sampling result. Figures 3.3 and 3.4 illustrate the historical concentrations of TPH-G. Between January 1991 and March 1992 the analyses were not performed. Monitoring of TPH-G concentrations in OW-2 is no longer performed due to non-detections in this well. TPH-G has been consistently below 500 µg/L in all wells except upgradient wells OW-1, and OW-7. Historically, OW-7 has had concentrations ranging from 650 to 1,800 µg/L. The current TPH-G concentration for OW-1 is 620 µg/L. Relative to the previous sampling results, TPH-G concentrations decreased in all wells except OW-7. Current sampling results were non-detect for wells OW-5 and OW-6.

## 3.2 LEAD

Table 3.2 presents the results of this quarter's groundwater analyses for lead. The current MCL set by the US EPA for lead in drinking water is 0 µg/L, while the MCL observed by the state water treatment systems is 15µg/L. Samples were collected and analyzed for dissolved lead (filtered) in November of 2000. During this quarter's event, lead was not detected above the 5µg/L reporting limit in the monitoring wells that were sampled for lead. Historically, all samples show concentrations below the previous 50 µg/L drinking water MCL. The highest historical concentration of lead was 27 µg/L in OW-8, sampled in April 1993.

**Table 3.2 Lead in Groundwater, in µg/L**

| Well Number | State Water Treatment | Reporting Limit | Dissolved Lead |
|---|---|---|---|
| OW-2 | 15 | 5.0 | ND |
| OW-5 | 15 | 5.0 | ND |
| OW-8 | 15 | 5.0 | ND |

Notes:
MCL = State Water Treatment Maximum Contaminate Level for drinking water.
ND = Not Detected at or above the method Reporting Limits (RL)
NA = Not Analyzed
Dissolved Lead analyses performed by EPA Method 6010A

## 3.3 VOLATILE ORGANIC COMPOUNDS

Historical results of VOC monitoring are presented in Appendix B. Tables 3.5 and 3.6 present the recent analytical results for VOCs in groundwater. The state MCLs for drinking water were exceeded for:

- 1,4-Dichlorobenzene (1,4-DCB) in monitoring wells OW-6 and OW-7 at concentrations of 10 µg/L and 470 µg/L respectively;
- Chlorobenzene in well OW-7 at a concentration of 39 µg/L;
- Benzene in well OW-5 at a concentration of 10 µg/L.

VOCs detected at concentrations below their MCLs or where no MCL exists include:

- 1,1-Dichloroethane in wells OW-5 and OW-6;
- Trichloroethene in well OW-5;
- 1,4-Dichlorobenzene in well OW-5;
- 1,3-Dichlorobenzene (1,3-DCB) in wells OW-6 and OW-7;
- 1,2-Dichlorobenzene (1,2-DCB) in well OW-7;
- Benzene in well OW-7.

Figures 3.5 and 3.6 show the historical concentrations of total VOCs in the on-site monitoring wells. Figure 3.5 shows the concentrations of total VOCs in wells OW-1, OW-2 and OW-4. Of these wells, The only VOC monitoring performed presently is for BTEX in OW-1.

Figure 3.6 shows the concentrations of total VOCs in wells OW-5, OW-6, and OW-7, located at the upgradient edges of the site. The total VOC concentrations detected this quarter in wells OW-5, OW-6, and OW-7 were 14.35 µg/L, 15.0 µg/L, and 888.8 µg/L, respectively. Total VOC concentrations relative to the previous sampling event rose for OW-5 and OW-7; concentrations decreased slightly for OW-6. These three wells lie within ten feet of the northeast and/or northwest property lines of the site. Groundwater elevation monitoring consistently indicates that the groundwater flow direction is from the north or northeast from neighboring properties onto the PG&E site. This demonstrates that VOCs may be migrating onto the PG&E site from an upgradient source.

## 4.0 GROUNDWATER FLOW DIRECTION

Water level measurements in the site monitoring wells were collected on November 28, 2000, prior to groundwater sampling. Groundwater elevations are shown in relation to a site specific coordinate system reported in previous reports. The top of casing (TOC) elevations for each of the wells are based upon an assumed TOC elevation of 10 feet at OW-1.

The groundwater elevations measured on November 28, 2000 and the resulting gradient direction are presented in Figure 4.1. Historical groundwater elevations along with TOC elevations for each well are presented as a graph in Figure 4.2. The groundwater flow direction was calculated from groundwater elevations in OW-1, OW-2, and OW-7, and indicates the local groundwater gradient on this date was 0.010 ft/ft to the south. The flow direction is consistent with those observed since monitoring began in 1988. The gradient value is slightly higher than that normally observed. The lead mitigation cap now limits direct precipitative recharge in the area between wells OW-2 and OW-5, and OW-8. The majority of the remaining site area has also been paved.

## 5.0 CAP INSPECTION

The site's asphaltic concrete cap was inspected by Aaron N. Stessman, PE on November 11, 2000. The Condition of the asphalt was good, and no repaving is recommended. It is recommended that the line demarcating the edge of the cap be repainted and that weeds be sprayed or removed to prevent their potential for damage to the cap.

# 6.0 CONCLUSIONS AND RECOMMENDATIONS

## 6.1 CONCLUSIONS

The following conclusions are made based upon the results of analyses performed on groundwater samples collected on November 28, 2000 from monitoring wells OW-1, OW-2, OW-5, OW-6, OW-7 and OW-8, and from prior semi-annual sampling results.

- The groundwater beneath the site appears to flow to the south, consistent with the historical flow direction range of south to southwest. The groundwater gradient of 0.010 ft/ft is slightly higher than that normally observed.

- TPH-D was detected in wells OW-1 and OW-7 above the reporting limit of 50 µg/L, however the concentrations are at or near their lowest concentrations to date. The highest concentration was found in well OW-7 at 370 µg/L. Moderate TPH-D concentrations in groundwater have persisted in well OW-7 located in the northeastern portion of the property and OW-1 located near the former diesel UST. Well OW-1's TPH-D concentration of 250 µg/L is the lowest reported since 1991. No TPH-D was detected in OW-6 for the first time since 1991 soil remediation in its vicinity. Since remedial action had removed known sources of contaminants within the site, the presence of TPH-D in OW-7 is likely to be caused by upgradient, off-site source. TPH-D in groundwater has no regulatory action limits but is being assessed on a case-by-case basis.

- Monitoring wells OW-1, and OW-7 had TPH-G concentrations of 620 and 1,100 µg/L, respectively. TPH-G was not detected in well OW-5 or OW-6. Well OW-7 continues to have the highest concentration of TPH-G. The presence of TPH-G is likely from an upgradient, off-site source.

- Soluble lead concentrations were not detected in monitoring wells OW-2, OW-5 and OW-8.

- Wells OW-5, OW-6 and OW-7 lie at the upgradient portion of the site and historically have had the highest concentrations of TPH-G and VOCs. The total VOC concentration is particularly elevated in OW-7, averaging near 1,000 µg/L. This indicates an upgradient, off-site source of fuel and solvent contamination located north of the subject site.

- The following VOC's were detected above their MCL:

  1,4-Dichlorobenzene (1,4-DCB) in monitoring wells OW-6 and OW-7;
  Chlorobenzene in well OW-7;
  Benzene in well OW-5.

- The following detected VOCs were below their MCL or where no MCL exists:

  1,1-Dichloroethane in wells OW-5 and OW-6;
  Trichloroethene in well OW-5;
  1,4-Dichlorobenzene in well OW-5;
  1,3-Dichlorobenzene (1,3-DCB) in wells OW-6 and OW-7;
  1,2-Dichlorobenzene (1,2-DCB) in well OW-7;
  Benzene in well OW-7.

## 6.2 RECOMMENDATIONS

- Continue monitoring in conformance with the revised ACHCSA schedule.

- An unidentified upgradient source of TPH-D, TPH-G and VOCs north of the subject property is clearly indicated by the groundwater monitoring data. Based on this finding it is recommended that PG&E enter into discussions with the involved regulatory agencies to investigate and pursue those responsible for the groundwater contaminants entering the PG&E property.

- It is recommended that the line demarcating the edge of the cap be repainted and that weeds be sprayed or removed to prevent their potential for damage to the cap.

# *APPENDIX A*

**Sample Collection Records**
**Certified Laboratory Results**

To: **CSS Environmental Services**
Attn.: Aaron Stessman

Test Method: 8010
Prep Method: 5030

Halogenated Volatile Organic Compounds

| | | | |
|---|---|---|---|
| Sample ID: | **OW-5** | Lab Sample ID: | **2000-12-0008-003** |
| Project: | 6118<br>PG&E Coliseum | Received: | 11/30/2000 18:15 |
| | | Extracted: | 12/05/2000 23:04 |
| Sampled: | 11/28/2000 15:00 | QC-Batch: | 2000/12/05-01.25 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Vinyl chloride | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Chloroethane | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Trichlorofluoromethane | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Methylene chloride | ND | 5.0 | ug/L | 1.00 | 12/05/2000 23:04 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| 1,1-Dichloroethane | 2.8 | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Chloroform | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Carbon tetrachloride | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Trichloroethene | 0.55 | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Bromodichloromethane | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| 2-Chloroethylvinyl ether | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Dibromochloromethane | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Chlorobenzene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Bromoform | ND | 2.0 | ug/L | 1.00 | 12/05/2000 23:04 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| 1,4-Dichlorobenzene | 1.0 | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Trichlorotrifluoroethane | ND | 2.0 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Chloromethane | ND | 1.0 | ug/L | 1.00 | 12/05/2000 23:04 | |
| Bromomethane | ND | 1.0 | ug/L | 1.00 | 12/05/2000 23:04 | |
| ***Surrogate(s)*** | | | | | | |
| 1-Chloro-2-fluorobenzene | 93.0 | 50-150 | % | 1.00 | 12/05/2000 23:04 | |

# CHROMALAB, INC.

Environmental Services (SDB)

**Submission #: 2000-12-0008**

To: **CSS Environmental Services**
Attn.: Aaron Stessman

Test Method: 8010
Prep Method: 5030

Halogenated Volatile Organic Compounds

| | | | |
|---|---|---|---|
| Sample ID: | **OW-6** | Lab Sample ID: | **2000-12-0008-004** |
| Project: | 6118<br>PG&E Coliseum | Received: | 11/30/2000 18:15 |
| | | Extracted: | 12/04/2000 21:54 |
| Sampled: | 11/28/2000 16:45 | QC-Batch: | 2000/12/04-01.26 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Vinyl chloride | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Chloroethane | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Trichlorofluoromethane | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Methylene chloride | ND | 5.0 | ug/L | 1.00 | 12/04/2000 21:54 | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| 1,1-Dichloroethane | 2.3 | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Chloroform | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Carbon tetrachloride | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Trichloroethene | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Bromodichloromethane | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| 2-Chloroethylvinyl ether | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Dibromochloromethane | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Chlorobenzene | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Bromoform | ND | 2.0 | ug/L | 1.00 | 12/04/2000 21:54 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| 1,3-Dichlorobenzene | 2.7 | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| 1,4-Dichlorobenzene | 10 | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Trichlorotrifluoroethane | ND | 2.0 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Chloromethane | ND | 1.0 | ug/L | 1.00 | 12/04/2000 21:54 | |
| Bromomethane | ND | 1.0 | ug/L | 1.00 | 12/04/2000 21:54 | |
| ***Surrogate(s)*** | | | | | | |
| 1-Chloro-2-fluorobenzene | 73.2 | 50-150 | % | 1.00 | 12/04/2000 21:54 | |

To: **CSS Environmental Services**
Attn.: Aaron Stessman

Test Method: 8010
Prep Method: 5030

Halogenated Volatile Organic Compounds

Sample ID: **OW-7**
Project: 6118
PG&E Coliseum
Sampled: 11/28/2000 17:25
Matrix: Water

Lab Sample ID: **2000-12-0008-005**
Received: 11/30/2000 18:15
Extracted: 12/04/2000 22:34
QC-Batch: 2000/12/04-01.26

Sample/Analysis Flag o ( See Legend & Note section )

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 10 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Vinyl chloride | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Chloroethane | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Methylene chloride | ND | 50 | ug/L | 10.00 | 12/04/2000 22:34 | |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| cis-1,2-Dichloroethene | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Chloroform | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Carbon tetrachloride | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Trichloroethene | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Bromodichloromethane | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| 2-Chloroethylvinyl ether | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Tetrachloroethene | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Dibromochloromethane | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Chlorobenzene | 39 | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Bromoform | ND | 20 | ug/L | 10.00 | 12/04/2000 22:34 | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| 1,3-Dichlorobenzene | 330 | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| 1,4-Dichlorobenzene | 470 | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| 1,2-Dichlorobenzene | 49 | 5.0 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Trichlorotrifluoroethane | ND | 20 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Chloromethane | ND | 10 | ug/L | 10.00 | 12/04/2000 22:34 | |
| Bromomethane | ND | 10 | ug/L | 10.00 | 12/04/2000 22:34 | |
| ***Surrogate(s)*** | | | | | | |
| 1-Chloro-2-fluorobenzene | 76.9 | 50-150 | % | 1.00 | 12/04/2000 22:34 | |

To: **CSS Environmental Services** Test Method: 8010

Attn.: Aaron Stessman Prep Method: 5030

**Batch QC Report**

Halogenated Volatile Organic Compounds

**Method Blank** **Water** **QC Batch # 2000/12/04-01.26**

MB: 2000/12/04-01.26-001 Date Extracted: 12/04/2000 09:08

| Compound | Result | Rep.Limit | Units | Analyzed | Flag |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 12/04/2000 09:08 | |
| Vinyl chloride | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| Chloroethane | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| Trichlorofluoromethane | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| 1,1-Dichloroethene | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| Methylene chloride | ND | 5.0 | ug/L | 12/04/2000 09:08 | |
| trans-1,2-Dichloroethene | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| cis-1,2-Dichloroethene | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| 1,1-Dichloroethane | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| Chloroform | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| 1,1,1-Trichloroethane | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| Carbon tetrachloride | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| 1,2-Dichloroethane | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| Trichloroethene | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| 1,2-Dichloropropane | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| Bromodichloromethane | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| 2-Chloroethylvinyl ether | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| trans-1,3-Dichloropropene | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| cis-1,3-Dichloropropene | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| 1,1,2-Trichloroethane | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| Tetrachloroethene | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| Dibromochloromethane | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| Chlorobenzene | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| Bromoform | ND | 2.0 | ug/L | 12/04/2000 09:08 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| 1,3-Dichlorobenzene | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| 1,4-Dichlorobenzene | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| 1,2-Dichlorobenzene | ND | 0.5 | ug/L | 12/04/2000 09:08 | |
| Trichlorotrifluoroethane | ND | 2.0 | ug/L | 12/04/2000 09:08 | |
| Chloromethane | ND | 1.0 | ug/L | 12/04/2000 09:08 | |
| Bromomethane | ND | 1.0 | ug/L | 12/04/2000 09:08 | |
| ***Surrogate(s)*** | | | | | |
| 1-Chloro-2-fluorobenzene | 77.0 | 50-150 | % | 12/04/2000 09:08 | |

To: **CSS Environmental Services** Test Method: 8010

Attn.: Aaron Stessman Prep Method: 5030

**Batch QC Report**

Halogenated Volatile Organic Compounds

**Method Blank** **Water** **QC Batch # 2000/12/05-01.25**

MB: 2000/12/05-01.25-001 Date Extracted: 12/05/2000 10:33

| Compound | Result | Rep.Limit | Units | Analyzed | Flag |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 12/05/2000 10:33 | |
| Vinyl chloride | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| Chloroethane | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| Trichlorofluoromethane | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| 1,1-Dichloroethene | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| Methylene chloride | ND | 5.0 | ug/L | 12/05/2000 10:33 | |
| trans-1,2-Dichloroethene | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| cis-1,2-Dichloroethene | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| 1,1-Dichloroethane | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| Chloroform | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| 1,1,1-Trichloroethane | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| Carbon tetrachloride | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| 1,2-Dichloroethane | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| Trichloroethene | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| 1,2-Dichloropropane | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| Bromodichloromethane | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| 2-Chloroethylvinyl ether | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| trans-1,3-Dichloropropene | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| cis-1,3-Dichloropropene | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| 1,1,2-Trichloroethane | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| Tetrachloroethene | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| Dibromochloromethane | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| Chlorobenzene | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| Bromoform | ND | 2.0 | ug/L | 12/05/2000 10:33 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| 1,3-Dichlorobenzene | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| 1,4-Dichlorobenzene | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| 1,2-Dichlorobenzene | ND | 0.5 | ug/L | 12/05/2000 10:33 | |
| Trichlorotrifluoroethane | ND | 2.0 | ug/L | 12/05/2000 10:33 | |
| Chloromethane | ND | 1.0 | ug/L | 12/05/2000 10:33 | |
| Bromomethane | ND | 1.0 | ug/L | 12/05/2000 10:33 | |
| ***Surrogate(s)*** | | | | | |
| 1-Chloro-2-fluorobenzene | 93.5 | 50-150 | % | 12/05/2000 10:33 | |

To: **CSS Environmental Services**
Attn.: Aaron Stessman

Test Method: 8010
Prep Method: 5030

**Batch QC Report**

Halogenated Volatile Organic Compounds

**Method Blank** | **Water** | **QC Batch # 2000/12/06-01.25**

MB: 2000/12/06-01.25-001 | Date Extracted: 12/06/2000 10:00

| Compound | Result | Rep.Limit | Units | Analyzed | Flag |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 12/06/2000 10:00 | |
| Vinyl chloride | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| Chloroethane | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| Trichlorofluoromethane | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| 1,1-Dichloroethene | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| Methylene chloride | ND | 5.0 | ug/L | 12/06/2000 10:00 | |
| trans-1,2-Dichloroethene | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| cis-1,2-Dichloroethene | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| 1,1-Dichloroethane | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| Chloroform | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| 1,1,1-Trichloroethane | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| Carbon tetrachloride | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| 1,2-Dichloroethane | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| Trichloroethene | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| 1,2-Dichloropropane | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| Bromodichloromethane | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| 2-Chloroethylvinyl ether | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| trans-1,3-Dichloropropene | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| cis-1,3-Dichloropropene | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| 1,1,2-Trichloroethane | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| Tetrachloroethene | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| Dibromochloromethane | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| Chlorobenzene | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| Bromoform | ND | 2.0 | ug/L | 12/06/2000 10:00 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| 1,3-Dichlorobenzene | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| 1,4-Dichlorobenzene | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| 1,2-Dichlorobenzene | ND | 0.5 | ug/L | 12/06/2000 10:00 | |
| Trichlorotrifluoroethane | ND | 2.0 | ug/L | 12/06/2000 10:00 | |
| Chloromethane | ND | 1.0 | ug/L | 12/06/2000 10:00 | |
| Bromomethane | ND | 1.0 | ug/L | 12/06/2000 10:00 | |
| ***Surrogate(s)*** | | | | | |
| 1-Chloro-2-fluorobenzene | 108.0 | 50-150 | % | 12/06/2000 10:00 | |

To: **CSS Environmental Services**
Attn: Aaron Stessman

Test Method: 8010
Prep Method: 5030

**Batch QC Report**

Halogenated Volatile Organic Compounds

**Laboratory Control Spike (LCS/LCSD)** **Water** **QC Batch # 2000/12/04-01.26**

LCS: 2000/12/04-01.26-002 Extracted: 12/04/2000 09:48 Analyzed 12/04/2000 09:48
LCSD: 2000/12/04-01.26-003 Extracted: 12/04/2000 10:29 Analyzed 12/04/2000 10:29

| Compound | Conc. [ ug/L ] | | Exp.Conc. [ ug/L ] | | Recovery [%] | | RPD | Ctrl. Limits [%] | | Flags | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LCS | LCSD | LCS | LCSD | LCS | LCSD | [%] | Recovery | RPD | LCS | LCSD |
| 1,1-Dichloroethene | 20.9 | 20.4 | 20 | 20 | 104.5 | 102.0 | 2.4 | 50-140 | 20 | | |
| Trichloroethene | 21.0 | 21.7 | 20 | 20 | 105.0 | 108.5 | 3.3 | 50-150 | 20 | | |
| Chlorobenzene | 20.6 | 20.5 | 20 | 20 | 103.0 | 102.5 | 0.5 | 50-150 | 20 | | |
| ***Surrogate(s)*** | | | | | | | | | | | |
| 1-Chloro-2-fluorobenzene | 18.2 | 18.1 | 20 | 20 | 91.0 | 90.5 | | 50-150 | | | |

To: **CSS Environmental Services** Test Method: 8010

Attn: Aaron Stessman Prep Method: 5030

**Batch QC Report**

Halogenated Volatile Organic Compounds

**Laboratory Control Spike (LCS/LCSD)** **Water** **QC Batch # 2000/12/05-01.25**

LCS: 2000/12/05-01.25-002 Extracted: 12/05/2000 11:17 Analyzed 12/05/2000 11:17

LCSD: 2000/12/05-01.25-003 Extracted: 12/05/2000 12:01 Analyzed 12/05/2000 12:01

| Compound | Conc. [ ug/L ] | | Exp.Conc. [ ug/L ] | | Recovery [%] | | RPD | Ctrl. Limits [%] | | Flags | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LCS | LCSD | LCS | LCSD | LCS | LCSD | [%] | Recovery | RPD | LCS | LCSD |
| 1,1-Dichloroethene | 22.8 | 23.0 | 20 | 20 | 114.0 | 115.0 | 0.9 | 50-140 | 20 | | |
| Trichloroethene | 22.3 | 22.3 | 20 | 20 | 111.5 | 111.5 | 0.0 | 50-150 | 20 | | |
| Chlorobenzene | 19.9 | 19.6 | 20 | 20 | 99.5 | 98.0 | 1.5 | 50-150 | 20 | | |
| ***Surrogate(s)*** | | | | | | | | | | | |
| 1-Chloro-2-fluorobenzene | 22.8 | 22.7 | 20 | 20 | 114.0 | 113.5 | | 50-150 | | | |

To: **CSS Environmental Services** Test Method: 8010

Attn: Aaron Stessman Prep Method: 5030

**Batch QC Report**

Halogenated Volatile Organic Compounds

**Laboratory Control Spike (LCS/LCSD)** **Water** **QC Batch # 2000/12/06-01.25**

LCS: 2000/12/06-01.25-002 Extracted: 12/06/2000 10:45 Analyzed 12/06/2000 10:45

LCSD: 2000/12/06-01.25-003 Extracted: 12/06/2000 11:26 Analyzed 12/06/2000 11:26

| Compound | Conc. [ ug/L ] | | Exp.Conc. [ ug/L ] | | Recovery [%] | | RPD | Ctrl. Limits [%] | | Flags | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LCS | LCSD | LCS | LCSD | LCS | LCSD | [%] | Recovery | RPD | LCS | LCSD |
| 1,1-Dichloroethene | 23.7 | 24.7 | 20 | 20 | 118.5 | 123.5 | 4.1 | 50-140 | 20 | | |
| Trichloroethene | 23.4 | 24.3 | 20 | 20 | 117.0 | 121.5 | 3.8 | 50-150 | 20 | | |
| Chlorobenzene | 21.5 | 22.7 | 20 | 20 | 107.5 | 113.5 | 5.4 | 50-150 | 20 | | |
| ***Surrogate(s)*** | | | | | | | | | | | |
| 1-Chloro-2-fluorobenzene | 25.7 | 27.4 | 20 | 20 | 128.5 | 137.0 | | 50-150 | | | |

To: **CSS Environmental Services**
Attn: Aaron Stessman

Test Method: 8010
Prep Method: 5030

## Legend & Notes

Halogenated Volatile Organic Compounds

**Analysis Flags**

o

Reporting limits were raised due to high level of analyte present in the sample.

# CHROMALAB, INC.

Environmental Services (SDB)

**Submission #: 2000-12-0008**

Diesel with Silica Gel Clean-up


**CSS Environmental Services**

95 Belvedere Street, Suite 2
San Rafael, CA 94901

Attn: Aaron Stessman

Phone: (415) 457-9551 Fax: (415) 457-9261

Project #: 6118

Project: PG&E Coliseum


**Samples Reported**

| Sample ID | Matrix | Date Sampled | Lab # |
|---|---|---|---|
| OW-1 | Water | 11/28/2000 15:50 | 1 |
| OW-5 | Water | 11/28/2000 15:00 | 3 |
| OW-6 | Water | 11/28/2000 16:45 | 4 |
| OW-7 | Water | 11/28/2000 17:25 | 5 |

To: **CSS Environmental Services**
Attn.: Aaron Stessman

Test Method: 8015M
Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

| | | | |
|---|---|---|---|
| Sample ID: | **OW-1** | Lab Sample ID: | **2000-12-0008-001** |
| Project: | 6118<br>PG&E Coliseum | Received: | 11/30/2000 18:15 |
| | | Extracted: | 12/01/2000 11:56 |
| Sampled: | 11/28/2000 15:50 | QC-Batch: | 2000/12/01-03.10 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Diesel | 250 | 50 | ug/L | 1.00 | 12/06/2000 00:56 | nhc |
| ***Surrogate(s)*** | | | | | | |
| o-Terphenyl | 73.7 | 60-130 | % | 1.00 | 12/06/2000 00:56 | |

To: **CSS Environmental Services**
Attn.: Aaron Stessman

Test Method: 8015M
Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

| | | | |
|---|---|---|---|
| Sample ID: | **OW-5** | Lab Sample ID: | **2000-12-0008-003** |
| Project: | 6118<br>PG&E Coliseum | Received: | 11/30/2000 18:15 |
| | | Extracted: | 12/01/2000 11:56 |
| Sampled: | 11/28/2000 15:00 | QC-Batch: | 2000/12/01-03.10 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Diesel | ND | 50 | ug/L | 1.00 | 12/06/2000 01:39 | |
| ***Surrogate(s)*** | | | | | | |
| o-Terphenyl | 66.1 | 60-130 | % | 1.00 | 12/06/2000 01:39 | |

To: **CSS Environmental Services**
Attn.: Aaron Stessman

Test Method: 8015M
Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

| | | | |
|---|---|---|---|
| Sample ID: | **OW-6** | Lab Sample ID: | **2000-12-0008-004** |
| Project: | 6118<br>PG&E Coliseum | Received: | 11/30/2000 18:15 |
| | | Extracted: | 12/01/2000 11:56 |
| Sampled: | 11/28/2000 16:45 | QC-Batch: | 2000/12/01-03.10 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Diesel | ND | 50 | ug/L | 1.00 | 12/06/2000 15:08 | |
| ***Surrogate(s)*** | | | | | | |
| o-Terphenyl | 67.0 | 60-130 | % | 1.00 | 12/06/2000 15:08 | |

To: **CSS Environmental Services**
Attn.: Aaron Stessman

Test Method: 8015M
Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

| | | | |
|---|---|---|---|
| Sample ID: | **OW-7** | Lab Sample ID: | **2000-12-0008-005** |
| Project: | 6118<br>PG&E Coliseum | Received: | 11/30/2000 18:15 |
| | | Extracted: | 12/01/2000 11:56 |
| Sampled: | 11/28/2000 17:25 | QC-Batch: | 2000/12/01-03.10 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Diesel | 370 | 50 | ug/L | 1.00 | 12/06/2000 03:04 | nhc |
| ***Surrogate(s)*** | | | | | | |
| o-Terphenyl | 67.6 | 60-130 | % | 1.00 | 12/06/2000 03:04 | |

To: **CSS Environmental Services**
Attn.: Aaron Stessman

Test Method: 8015M
Prep Method: 3510/8015M

**Batch QC Report**
Diesel with Silica Gel Clean-up

**Method Blank** | **Water** | **QC Batch # 2000/12/01-03.10**

MB: 2000/12/01-03.10-003 | Date Extracted: 12/01/2000 11:56

| Compound | Result | Rep.Limit | Units | Analyzed | Flag |
|---|---|---|---|---|---|
| Diesel | ND | 50 | ug/L | 12/06/2000 09:21 | |
| ***Surrogate(s)*** | | | | | |
| o-Terphenyl | 99.5 | 60-130 | % | 12/06/2000 09:21 | |

To: **CSS Environmental Services**
Attn: Aaron Stessman

Test Method: 8015M
Prep Method: 3510/8015M

**Batch QC Report**

Diesel with Silica Gel Clean-up

**Laboratory Control Spike (LCS/LCSD)** **Water** **QC Batch # 2000/12/01-03.10**

LCS: 2000/12/01-03.10-001 Extracted: 12/01/2000 11:56 Analyzed 12/05/2000 05:50
LCSD: 2000/12/01-03.10-002 Extracted: 12/01/2000 11:56 Analyzed 12/05/2000 06:37

| Compound | Conc. [ ug/L ] | | Exp.Conc. [ ug/L ] | | Recovery [%] | | RPD | Ctrl. Limits [%] | | Flags | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LCS | LCSD | LCS | LCSD | LCS | LCSD | [%] | Recovery | RPD | LCS | LCSD |
| Diesel | 1150 | 1190 | 1250 | 1250 | 92.0 | 95.2 | 3.4 | 60-130 | 25 | | |
| ***Surrogate(s)*** | | | | | | | | | | | |
| o-Terphenyl | 25.6 | 25.7 | 20.0 | 20.0 | 128.0 | 128.5 | | 60-130 | | | |

To: **CSS Environmental Services**
Attn: Aaron Stessman

Test Method: 8015M
Prep Method: 3510/8015M

## Legend & Notes

Diesel with Silica Gel Clean-up

**Analyte Flags**

nhc

Compounds reported are in this range but they do not exhibit a pattern characteristic of petroleum hydrocarbon.

# CHROMALAB, INC.

Environmental Services (SDB)

**Submission #: 2000-12-0008**

Gas/BTEX


**CSS Environmental Services**

95 Belvedere Street, Suite 2
San Rafael, CA 94901

Attn: Aaron Stessman

Phone: (415) 457-9551 Fax: (415) 457-9261


Project #: 6118

Project: PG&E Coliseum

**Samples Reported**

| Sample ID | Matrix | Date Sampled | Lab # |
|---|---|---|---|
| OW-1 | Water | 11/28/2000 15:50 | 1 |
| OW-5 | Water | 11/28/2000 15:00 | 3 |
| OW-6 | Water | 11/28/2000 16:45 | 4 |
| OW-7 | Water | 11/28/2000 17:25 | 5 |

# CHROMALAB, INC.

Environmental Services (SDB)

**Submission #: 2000-12-0008**

To: **CSS Environmental Services**

Attn.: Aaron Stessman

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

| | | | |
|---|---|---|---|
| Sample ID: | **OW-1** | Lab Sample ID: | **2000-12-0008-001** |
| Project: | 6118<br>PG&E Coliseum | Received: | 11/30/2000 18:15 |
| | | Extracted: | 12/05/2000 19:46 |
| Sampled: | 11/28/2000 15:50 | QC-Batch: | 2000/12/05-01.05 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Gasoline | 620 | 50 | ug/L | 1.00 | 12/05/2000 19:46 | g |
| Benzene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 19:46 | |
| Toluene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 19:46 | |
| Ethyl benzene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 19:46 | |
| Xylene(s) | ND | 0.50 | ug/L | 1.00 | 12/05/2000 19:46 | |
| ***Surrogate(s)*** | | | | | | |
| Trifluorotoluene | 108.0 | 58-124 | % | 1.00 | 12/05/2000 19:46 | |
| 4-Bromofluorobenzene-FID | 74.6 | 50-150 | % | 1.00 | 12/05/2000 19:46 | |

To: **CSS Environmental Services**

Attn.: Aaron Stessman

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

| | | | |
|---|---|---|---|
| Sample ID: | **OW-5** | Lab Sample ID: | **2000-12-0008-003** |
| Project: | 6118<br>PG&E Coliseum | Received: | 11/30/2000 18:15 |
| | | Extracted: | 12/05/2000 19:14 |
| Sampled: | 11/28/2000 15:00 | QC-Batch: | 2000/12/05-01.05 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Gasoline | ND | 50 | ug/L | 1.00 | 12/05/2000 19:14 | |
| Benzene | 10 | 0.50 | ug/L | 1.00 | 12/05/2000 19:14 | |
| Toluene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 19:14 | |
| Ethyl benzene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 19:14 | |
| Xylene(s) | ND | 0.50 | ug/L | 1.00 | 12/05/2000 19:14 | |
| ***Surrogate(s)*** | | | | | | |
| Trifluorotoluene | 111.4 | 58-124 | % | 1.00 | 12/05/2000 19:14 | |
| 4-Bromofluorobenzene-FID | 78.0 | 50-150 | % | 1.00 | 12/05/2000 19:14 | |

# CHROMALAB, INC.

Environmental Services (SDB)

**Submission #: 2000-12-0008**

To: **CSS Environmental Services**

Attn.: Aaron Stessman

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

| | | | |
|---|---|---|---|
| Sample ID: | **OW-6** | Lab Sample ID: | **2000-12-0008-004** |
| Project: | 6118<br>PG&E Coliseum | Received: | 11/30/2000 18:15 |
| | | Extracted: | 12/05/2000 20:18 |
| Sampled: | 11/28/2000 16:45 | QC-Batch: | 2000/12/05-01.05 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Gasoline | ND | 50 | ug/L | 1.00 | 12/05/2000 20:18 | |
| Benzene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 20:18 | |
| Toluene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 20:18 | |
| Ethyl benzene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 20:18 | |
| Xylene(s) | ND | 0.50 | ug/L | 1.00 | 12/05/2000 20:18 | |
| ***Surrogate(s)*** | | | | | | |
| Trifluorotoluene | 88.9 | 58-124 | % | 1.00 | 12/05/2000 20:18 | |
| 4-Bromofluorobenzene-FID | 71.1 | 50-150 | % | 1.00 | 12/05/2000 20:18 | |

# CHROMALAB, INC.

Environmental Services (SDB)

**Submission #: 2000-12-0008**

To: **CSS Environmental Services**

Attn.: Aaron Stessman

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

| | | | |
|---|---|---|---|
| Sample ID: | **OW-7** | Lab Sample ID: | **2000-12-0008-005** |
| Project: | 6118<br>PG&E Coliseum | Received: | 11/30/2000 18:15 |
| | | Extracted: | 12/05/2000 20:50 |
| Sampled: | 11/28/2000 17:25 | QC-Batch: | 2000/12/05-01.05 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Gasoline | 1100 | 50 | ug/L | 1.00 | 12/05/2000 20:50 | g |
| Benzene | 0.83 | 0.50 | ug/L | 1.00 | 12/05/2000 20:50 | |
| Toluene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 20:50 | |
| Ethyl benzene | ND | 0.50 | ug/L | 1.00 | 12/05/2000 20:50 | |
| Xylene(s) | ND | 0.50 | ug/L | 1.00 | 12/05/2000 20:50 | |
| ***Surrogate(s)*** | | | | | | |
| Trifluorotoluene | 98.3 | 58-124 | % | 1.00 | 12/05/2000 20:50 | |
| 4-Bromofluorobenzene-FID | 73.8 | 50-150 | % | 1.00 | 12/05/2000 20:50 | |

To: **CSS Environmental Services**

Attn.: Aaron Stessman

Test Method: 8015M
8020

Prep Method: 5030

**Batch QC Report**
Gas/BTEX

**Method Blank** | **Water** | **QC Batch # 2000/12/05-01.05**

MB: 2000/12/05-01.05-001

Date Extracted: 12/05/2000 09:59

| Compound | Result | Rep.Limit | Units | Analyzed | Flag |
|---|---|---|---|---|---|
| Gasoline | ND | 50 | ug/L | 12/05/2000 09:59 | |
| Benzene | ND | 0.5 | ug/L | 12/05/2000 09:59 | |
| Toluene | ND | 0.5 | ug/L | 12/05/2000 09:59 | |
| Ethyl benzene | ND | 0.5 | ug/L | 12/05/2000 09:59 | |
| Xylene(s) | ND | 0.5 | ug/L | 12/05/2000 09:59 | |
| ***Surrogate(s)*** | | | | | |
| Trifluorotoluene | 107.2 | 58-124 | % | 12/05/2000 09:59 | |
| 4-Bromofluorobenzene-FID | 81.4 | 50-150 | % | 12/05/2000 09:59 | |

To: **CSS Environmental Services**

Attn: Aaron Stessman

Test Method: 8015M
8020

Prep Method: 5030

**Batch QC Report**

Gas/BTEX

**Laboratory Control Spike (LCS/LCSD)** **Water** **QC Batch # 2000/12/05-01.05**

LCS: 2000/12/05-01.05-002 Extracted: 12/05/2000 10:31 Analyzed 12/05/2000 10:31

LCSD: 2000/12/05-01.05-003 Extracted: 12/05/2000 11:03 Analyzed 12/05/2000 11:03

| Compound | Conc. [ ug/L ] | | Exp.Conc. [ ug/L ] | | Recovery [%] | | RPD | Ctrl. Limits [%] | | Flags | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LCS | LCSD | LCS | LCSD | LCS | LCSD | [%] | Recovery | RPD | LCS | LCSD |
| Gasoline | 394 | 391 | 500 | 500 | 78.8 | 78.2 | 0.8 | 75-125 | 20 | | |
| Benzene | 99.3 | 103 | 100.0 | 100.0 | 99.3 | 103.0 | 3.7 | 77-123 | 20 | | |
| Toluene | 96.9 | 98.6 | 100.0 | 100.0 | 96.9 | 98.6 | 1.7 | 78-122 | 20 | | |
| Ethyl benzene | 95.6 | 96.6 | 100.0 | 100.0 | 95.6 | 96.6 | 1.0 | 70-130 | 20 | | |
| Xylene(s) | 285 | 290 | 300 | 300 | 95.0 | 96.7 | 1.8 | 75-125 | 20 | | |
| ***Surrogate(s)*** | | | | | | | | | | | |
| Trifluorotoluene | 515 | 513 | 500 | 500 | 103.0 | 102.6 | | 58-124 | | | |
| 4-Bromofluorobenzene-FI | 363 | 362 | 500 | 500 | 72.6 | 72.4 | | 50-150 | | | |

To: **CSS Environmental Services**

Attn: Aaron Stessman

Test Method: 8015M
8020

Prep Method: 5030

## Legend & Notes

Gas/BTEX

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Soluble Metals


**CSS Environmental Services**

95 Belvedere Street, Suite 2
San Rafael, CA 94901

Attn: Aaron Stessman

Phone: (415) 457-9551 Fax: (415) 457-9261

Project #: 6118

Project: PG&E Coliseum


**Samples Reported**

| Sample ID | Matrix | Date Sampled | Lab # |
|---|---|---|---|
| OW-2 | Water | 11/28/2000 13:55 | 2 |
| OW-5 | Water | 11/28/2000 15:00 | 3 |
| OW-8 | Water | 11/28/2000 14:25 | 6 |

# CHROMALAB, INC.

Environmental Services (SDB)

**Submission #: 2000-12-0008**

To: **CSS Environmental Services**

Attn.: Aaron Stessman

Test Method: 6010B

Prep Method: 3005A

Soluble Metals

| | | | |
|---|---|---|---|
| Sample ID: | **OW-2** | Lab Sample ID: | **2000-12-0008-002** |
| Project: | 6118<br>PG&E Coliseum | Received: | 11/30/2000 18:15 |
| | | Extracted: | 12/04/2000 08:25 |
| Sampled: | 11/28/2000 13:55 | QC-Batch: | 2000/12/04-03.15 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Lead | ND | 0.0050 | mg/L | 1.00 | 12/04/2000 13:27 | |

To: **CSS Environmental Services**
Attn.: Aaron Stessman

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

| | | | |
|---|---|---|---|
| Sample ID: | **OW-5** | Lab Sample ID: | **2000-12-0008-003** |
| Project: | 6118<br>PG&E Coliseum | Received: | 11/30/2000 18:15 |
| | | Extracted: | 12/04/2000 08:25 |
| Sampled: | 11/28/2000 15:00 | QC-Batch: | 2000/12/04-03.15 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Lead | ND | 0.0050 | mg/L | 1.00 | 12/04/2000 13:32 | |

To: **CSS Environmental Services**
Attn.: Aaron Stessman

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

| | | | |
|---|---|---|---|
| Sample ID: | **OW-8** | Lab Sample ID: | **2000-12-0008-006** |
| Project: | 6118<br>PG&E Coliseum | Received: | 11/30/2000 18:15 |
| | | Extracted: | 12/04/2000 08:25 |
| Sampled: | 11/28/2000 14:25 | QC-Batch: | 2000/12/04-03.15 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Lead | ND | 0.0050 | mg/L | 1.00 | 12/04/2000 13:36 | |

To: **CSS Environmental Services**
Attn.: Aaron Stessman

Test Method: 6010B
Prep Method: 3005A

**Batch QC Report**
Soluble Metals

| **Method Blank** | **Water** | **QC Batch # 2000/12/04-03.15** |
|---|---|---|
| MB: 2000/12/04-03.15-014 | Date Extracted: 12/04/2000 08:25 | |

| Compound | Result | Rep.Limit | Units | Analyzed | Flag |
|---|---|---|---|---|---|
| Lead | ND | 0.0050 | mg/L | 12/04/2000 12:31 | |

To: **CSS Environmental Services** Test Method: 6010B

Attn: Aaron Stessman Prep Method: 3005A

**Batch QC Report**

Soluble Metals

**Laboratory Control Spike (LCS/LCSD)** **Water** **QC Batch # 2000/12/04-03.15**

LCS: 2000/12/04-03.15-015 Extracted: 12/04/2000 08:25 Analyzed 12/04/2000 12:36

LCSD: 2000/12/04-03.15-016 Extracted: 12/04/2000 08:25 Analyzed 12/04/2000 12:40

| Compound | Conc. [ mg/L ] | | Exp.Conc. [ mg/L ] | | Recovery [%] | | RPD | Ctrl. Limits [%] | | Flags | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LCS | LCSD | LCS | LCSD | LCS | LCSD | [%] | Recovery | RPD | LCS | LCSD |
| Lead | 0.460 | 0.480 | 0.500 | 0.500 | 92.0 | 96.0 | 4.3 | 80-120 | 20 | | |

2000-12-0008

Reference #: 56110

# CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

1220 Quarry Lane · Pleasanton, California 94566-4756
(925) 484-1919 • Fax (925) 484-1096

## Chain of Custody

DATE 11/29/00 PAGE 1 OF 2

PROJ. MGR Aaron Stessman
COMPANY CSS Environmental Services
ADDRESS 95 Belvedere Street, Suite 2
San Rafael, CA 94901

SAMPLERS (SIGNATURE) Jules L Sibilio (PHONE NO.) (415) 457-9551 (FAX NO.) (415) 457-9261

ANALYSIS REPORT

| SAMPLE ID | DATE | TIME | MATRIX | PRESERV. | TPH-(EPA 8015,8020) ☐Gas w/ ☐BTEX ☐MTBE | PURGEABLE AROMATICS BTEX (EPA 8020) | TPH-Diesel (EPA 8015M) ☐Silica gel C.U. | TEPH (EPA 8015M) ☐Diesel ☐M.O. ☐Other | PURGEABLE HALOCARBONS, (HVOCs) (EPA 8010) | VOLATILE ORGANICS (VOCs) (EPA 8260) | SEMIVOLATILES (EPA 8270) | TOTAL OIL AND GREASE (SM 5520 B+F, E+F) | ☐PESTICIDES(EPA 8080) ☐PCB'S (EPA 8080) | PNA's by ☐8270 ☐8310 | ☐Spec. Cond. ☐TSS ☐TDS | LUFT METALS: Cd, Cr, Pb, Ni, Zn | CAM 17 METALS (EPA 6010/7470/7471) | TOTAL LEAD | ☐W.E.T. (STLC) ☐TCLP | ☐Hexavalent Chromium ☐pH (24 hr hold time for H20) | FOx by 8260 | Filter sample | Composite as 1 | NUMBER OF CONTAINERS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OW-1 | 11-2000 | 1550 | $H_2O$ | HCl | X | | | | X | | | | | | | | | | | | | | | 6 |
| OW-1 | ↓ | 1600 | ↓ | None | | | X | | | | | | | | | | | | | | | | | 1 |
| OW-2 | | 1355 | | None | | | | | | | | | | | | | | X | | | | | | 1 |
| OW-5 | | 1500 | | HCl | X | | | | X | | | | | | | | | | | | | | | 6 |
| OW-5 | | 1510 | | None | | | X | | | | | | | | | | | | | | | | | 1 |
| OW-5 | | 1512 | | None | | | | | | | | | | | | | | X | | | | | | 1 |
| OW-6 | | 1635 | | HCl | X | | | | X | | | | | | | | | | | | | | | 6 |
| OW-6 | ↓ | 1645 | ↓ | None | | | X | | | | | | | | | | | | | | | | | 1 |

**PROJECT INFORMATION**

PROJECT NAME: PG&E Coliseum Way
PROJECT NUMBER: 6118
P.O. #

**SAMPLE RECEIPT**

TOTAL NO. OF CONTAINERS
HEAD SPACE
TEMPERATURE 3.6°C
CONFORMS TO RECORD

| TAT | STANDARD 5-DAY | | | 24 | 48 | 72 | OTHER |
|---|---|---|---|---|---|---|---|

SPECIAL INSTRUCTIONS/COMMENTS:
Report: ☐ Routine ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ Electronic Report
* Filter Lead Sample prior to analysis
Please see attached price sheet

| RELINQUISHED BY 1. | RELINQUISHED BY 2. | RELINQUISHED BY 3 |
|---|---|---|
| Jules L. Sibilio 1242 (SIGNATURE) (TIME) | (SIGNATURE) (TIME) | 1815 (SIGNATURE) (TIME) |
| Jules L Sibilio 11/30/00 (PRINTED NAME) (DATE) | (PRINTED NAME) (DATE) | D Morrow 11/30/00 (PRINTED NAME) (DATE) |
| CSS Environmental (COMPANY) | (COMPANY) | (COMPANY) |
| **RECEIVED BY 1** | **RECEIVED BY 2** | **RECEIVED BY (LABORATORY) 3** |
| 1242 (SIGNATURE) (TIME) | (SIGNATURE) (TIME) | Denise Harrington (SIGNATURE) (TIME) |
| D Morrow 11-30-00 (PRINTED NAME) (DATE) | (PRINTED NAME) (DATE) | D. Harrington 1815 (PRINTED NAME) (DATE) |
| (COMPANY) | (COMPANY) | Chromalab 11/30/00 |

2000-12-0008

Reference #: 516110

# CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Fax (925) 484-1096

## Chain of Custody

DATE 11/29/00 PAGE 2 OF 2

PROJ. MGR Aaron Stessman
COMPANY CSS Environmental Services
ADDRESS 95 Belvedere Street, Suite 2
San Rafael, CA 94901
SAMPLERS (SIGNATURE) Jules L. Sibilio
(PHONE NO.) (415) 457-9551
(FAX NO.) (415) 457-9261

ANALYSIS REPORT

| SAMPLE ID | DATE | TIME | MATRIX | PRESERV. | TPH-(EPA 8015, 8020) ☐ Gas w/ ☐ BTEX ☐ MTBE | PURGEABLE AROMATICS BTEX (EPA 8020) | TPH-Diesel (EPA 8015M) silica gel c.u. | TEPH (EPA 8015M) ☐ Diesel ☐ M.O. ☐ Other | PURGEABLE HALOCARBONS (EPA 8010) | VOLATILE ORGANICS (VOCs) (EPA 8260) | SEMIVOLATILES (EPA 8270) | TOTAL OIL AND GREASE (SM 5520 B+F, E+F) | | ☐ PESTICIDES (EPA 8080) ☐ PCB's (EPA 8080) | PNA's by ☐ 8270 ☐ 8310 | ☐ Spec. Cond. ☐ TSS ☐ TDS | LUFT METALS: Cd, Cr, Pb, Ni, Zn | CAM 17 METALS (EPA 6010/7470/7471) | TOTAL LEAD | ☐ W.E.T. (STLC) ☐ TCLP | ☐ Hexavalent Chromium ☐ pH (24 hr hold time for H20) | FOx by 8260 | Filter sample | Composite as 1 | NUMBER OF CONTAINERS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OW-7 | 11-26-00 | 1715 | $H_2O$ | HCl | X | | | | X | | | | | | | | | | | | | | | | | 6 |
| OW-7 | ↓ | 1725 | ↓ | None | | | X | | | | | | | | | | | | | | | | | | | 1 |
| OW-8 | ↓ | 1425 | ↓ | None | | | | | | | | | | | | | | | X | | | | | | | 1 |

### PROJECT INFORMATION

PROJECT NAME: PG&E Coliseum Way
PROJECT NUMBER: 6118
P.O. #:

### SAMPLE RECEIPT

| | |
|---|---|
| TOTAL NO. OF CONTAINERS | |
| HEAD SPACE | |
| TEMPERATURE | |
| CONFORMS TO RECORD | |

| TAT | STANDARD 5-DAY | | | 24 | 48 | 72 | OTHER |
|---|---|---|---|---|---|---|---|

SPECIAL INSTRUCTIONS/COMMENTS:
Report: ☐ Routine ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ Electronic Report
* Filter Lead Sample prior to analysis
Please see attached price sheet

| RELINQUISHED BY 1. | RELINQUISHED BY 2. | RELINQUISHED BY 3 |
|---|---|---|
| Jules L. Sibilio 1242 (SIGNATURE) (TIME) | (SIGNATURE) (TIME) | 1815 (SIGNATURE) (TIME) |
| Jules L. Sibilio 11/30/00 (PRINTED NAME) (DATE) | (PRINTED NAME) (DATE) | B Morse 11/30/00 (PRINTED NAME) (DATE) |
| CSS Environmental (COMPANY) | (COMPANY) | (COMPANY) |
| **RECEIVED BY 1** | **RECEIVED BY 2** | **RECEIVED BY (LABORATORY) 3** |
| 1242 (SIGNATURE) (TIME) | (SIGNATURE) (TIME) | Denise Harrington (SIGNATURE) (TIME) |
| B Morse 11-30-00 (PRINTED NAME) (DATE) | (PRINTED NAME) (DATE) | D. Harrington 1815 (PRINTED NAME) (DATE) |
| (COMPANY) | (COMPANY) | Chromalab 11/30/00 |

# CHROMALAB, INC.

Environmental Services (SDB)

# FAX TRANSMISSION

2000-12-008

Date: June 28, 2000

Pages: 1

To: Aron N. Stessman
Company: CSS
From: Afsaneh Salimpour
Subject: Coliseum Way

Fax#: 415-457-9261

Thanks for the fax today. ChromaLab will be glad to offer the following quotation on this project. For this quote, our service includes glass or plastic sample containers, sample pickup at your office, and final results faxed to you in Ten working days.

Our prices are:

| Method | # of samples | Price/sample | TOAL |
|---|---|---|---|
| Filtration | 12 | 10.00 | 120.00 |
| Lead | 12 | 18.00 | 216.00 |
| TPH-D | 20 | 50.00 | 1000.00 |
| VOCs (8010 list by 8260) | 12 | 70.00 | 840.00 |
| MTBE by 8260 | 20 | 125.00 | 2500.00 |
| TPH-gas/BTEX | 20 | 50.00 | 1000.00 |
| | | | |
| | | | |
| | | | |
| TOTAL | | | $ 5676.00 |

Please let me know if you have any questions. I'm looking forward to working with you on this project.

Sincerely,

Afsaneh Sa;impour
Project Manager


1220 Quarry Lane • Pleasanton, California 94566-4756

Sheet 1 of 2

Project: PG+E Coliseum Way Job No.: 6118
Subject: FIELD INVESTIGATION DAILY REPORT Date: 11-28-00
Equipment Rental: _____ Company: _____ To: CSS
Equipment Hours: _____ F.E. Time from: _____ to: _____ By: JS

(outside service and expense record must be attached for any outside costs)

1130 - Arrive @ CSS. Meet w/ Aaron + Terry. Load Truck
1200 - Drive to PG+E Coliseum Way (site)
1240 - On-site. Open all wells
1310 - Start ∇ level meas.
1335 - Start to purge ≈ 7.2 gal from OW-2
1350 - Meas. Temp. (see attached sheet)
1355 - Sampled OW-2. Pb
1405 - Start to purge ≈ 6.7 gal. from OW-8
1420 - Meas. Temp. (see attached sheet)
1425 - Sampled OW-8. Pb
1435 - Start to purge ≈ 6.6 gal. from OW-5
1450 - Meas Temp. (see attached sheet)
1500 - Sampled OW-5 TPH-g/BTEX; HVOC's
1510 - " " . TPH-d.
1512 - " " . Pb
1525 - Start to purge ≈ 6.4 gal. from OW-1
1540 - Meas. Temp. (see attached sheet)
1550 - Sampled OW-1. TPH-g/BTEX; HVOC's
1600 - " " . TPH-d.
1615 - Start to purge ≈ 5.5 gal. from OW-6
1625 - Meas. Temp. (see attached sheet)
1635 - Sampled OW-6. TPH-g/BTEX; HVOC's
1645 - " " . TPH-d
1655 - Start to purge ≈ 5.4 gal. from OW-7
1705 - Meas. Temp. (see attached sheet)
1715 - Sampled OW-7. TPH-g/BTEX; HVOC's
1725 - " " . TPH-d
- Clean up.

Attachments:

Initial

Sheet 2 of 2

Project: PG+E Coliseum Way Job No.: 6118

Subject: FIELD INVESTIGATION DAILY REPORT Date: 11-28-00

Equipment Rental: _____ Company: _____ To: CSS

Equipment Hours: _____ F.E. Time from: _____ to: _____ By: JS

(outside service and expense record must be attached for any outside costs)

1745 - Drive to CSS;

1850 - Arrive @ CSS

- Finish Paperwork

- Fill out C-O-C

1920

Attachments:

Initial

# RECORD OF GROUNDWATER LEVEL MEASUREMENTS

Page 1 of 1

Date Measured: 11-28-00 Job No.: 6118

Site Location: PG+E Coleseum Way

Well location map attached? Yes X No ___

Method of Measurement: X Electric well sounder,

___ Other: ___

Weather/Visibility: ___

Notes: ___

| Well I.D. | Time (24 hr) | G.W.L. (1/100 ft) | G.W.L. 3X's? | B.O.W. (1/2ft) | Remarks |
|---|---|---|---|---|---|
| OW-1 | | 4.65 | | 17.95 | 2" |
| OW-2 | | 5.10 | | 20.11 | 2" |
| OW-4 | | | | | Covered |
| OW-5 | | 5.20 | | 18.95 | 2" |
| OW-6 | | 5.80 | | 17.20 | 2" |
| OW-7 | | 7.00 | | 18.20 | 2" |
| OW-8 | | 3.73 | | 17.76 | 2" |
| | | | | | |
| | | | | | |
| | | | | | |

Measured by (Signature): John L. Letchio

rev.2/13/90

# WATER QUALITY SAMPLING INFORMATION

Date: _____ Well No.: OW-2 Sampled by: _____

Project: _____ Project No.: _____

Sampling method: _____

## GROUNDWATER

Well diameter (in.) _____

Well elevation (ft.) _____

Depth to static water (ft.) _____

Water level elevation (ft.) 5.10

Well casing depth (ft.) 20.14

Water volume in well (gals) 2.40

Pump inlet depth (ft.) _____

## SURFACE WATER

Stream width (ft.) _____

Stream depth (ft.) _____

Stream velocity (cfs.) _____

Rained recently (?) _____

2-in. Casing = 0.16 gals/ft.

4-in. Casing = 0.65 gals/ft.

6-in. Casing = 1.47 gals/ft

Sketch of well location

Analyses requested: Pb

No. & types of sample bottles used: _____ Method of shipment: _____

| TIME | DEPTH TO WATER (ft.) | VOLUME WITHDRAWN (GALS.) | TEMP (deg. F) | pH | CONDUCTIVITY | TURBIDITY | REMARKS |
|---|---|---|---|---|---|---|---|
| 1335 | 5.10 | 0 | — | — | — | — | Start |
| 1350 | | 37.2 | 70 | | | | Clear; No Odor |
| 1355 | | | | | | | Sampled OW-2 Pb |

1.20

# WATER QUALITY SAMPLING INFORMATION

Date: _____ Well No.: OW-8 Sampled by: _____

Project: _____ Project No.: _____

Sampling method: _____

## GROUNDWATER

Well diameter (in.) _____

Well elevation (ft.) _____

Depth to static water (ft.) _____

Water level elevation (ft.) 3.73

Well casing depth (ft.) 17.76

Water volume in well (gals) 2.24

Pump inlet depth (ft.) _____

## SURFACE WATER

Stream width (ft.) _____

Stream depth (ft.) _____

Stream velocity (cfs.) _____

Rained recently (?) _____

2-in. Casing = 0.16 gals/ft.

4-in. Casing = 0.65 gals/ft.

6-in. Casing = 1.47 gals/ft

Sketch of well location

Analyses requested: Pb

No. & types of sample bottles used: _____ Method of shipment: _____

| TIME | DEPTH TO WATER (ft.) | VOLUME WITHDRAWN (GALS.) | TEMP (deg. F) | pH | CONDUCTIVITY | TURBIDITY | REMARKS |
|---|---|---|---|---|---|---|---|
| 1405 | 3.73 | 0 | — | — | — | — | Start |
| 1420 | | ≈6.7 | 70 | — | 0.88 | | Light brown, No Odor |
| 1425 | | | | | | | Sampled OW-8 Pb |

6.72

# WATER QUALITY SAMPLING INFORMATION

Date: _____ Well No.: OW-5 Sampled by: _____

Project: _____ Project No.: _____

Sampling method: _____

## GROUNDWATER

Well diameter (in.) _____

Well elevation (ft.) _____

Depth to static water (ft.) _____

Water level elevation (ft.) 5.20

Well casing depth (ft.) 18.95

Water volume in well (gals) 2.2

Pump inlet depth (ft.) _____

## SURFACE WATER

Stream width (ft.) _____

Stream depth (ft.) _____

Stream velocity (cfs.) _____

Rained recently (?) _____

2-in. Casing = 0.16 gals/ft.

4-in. Casing = 0.65 gals/ft.

6-in. Casing = 1.47 gals/ft

Sketch of well location

Analyses requested: TPH-d; TPH-g/BTEX; VOC's; Pb

No. & types of sample bottles used: _____ Method of shipment: _____

| TIME | DEPTH TO WATER (ft.) | VOLUME WITHDRAWN (GALS.) | TEMP (deg. F) | pH | CONDUCTIVITY | TURBIDITY | REMARKS |
|---|---|---|---|---|---|---|---|
| 1435 | 5.20 | 0 | — | — | — | — | Start |
| 1450 | | 6.6 | 68 | | | | Clear; Slight odor |
| 1500 | | | | | | | |
| 1510 | | | | | | | Sampled OW-5 TPH-g/BTEX; VOC; |
| 1512 | | | | | | | Sampled OW-5 TPH-d |
| | | | | | | | Sampled OW-5 Pb |

6.6

# WATER QUALITY SAMPLING INFORMATION

Date: _____ Well No.: OW-1 Sampled by: _____

Project: _____ Project No.: _____

Sampling method: _____

## GROUNDWATER

Well diameter (in.) _____

Well elevation (ft.) _____

Depth to static water (ft.) _____

Water level elevation (ft.) 4.65

Well casing depth (ft.) 17.95

Water volume in well (gals) 2.13

Pump inlet depth (ft.) _____

## SURFACE WATER

Stream width (ft.) _____

Stream depth (ft.) _____

Stream velocity (cfs.) _____

Rained recently (?) _____

2-in. Casing = 0.16 gals/ft.

4-in. Casing = 0.65 gals/ft.

6-in. Casing = 1.47 gals/ft

Sketch of well location

Analyses requested: TPH-d; TPH-g/BTEX;

No. & types of sample bottles used: _____ Method of shipment: _____

| TIME | DEPTH TO WATER (ft.) | VOLUME WITHDRAWN (GALS.) | TEMP (deg. F) | pH | CONDUCTIVITY | TURBIDITY | REMARKS |
|---|---|---|---|---|---|---|---|
| 1525 | | 0 | — | — | — | — | Start |
| 1540 | | ≈ 6.4 | 68 | | | | Clear; No Odor |
| 1550 | | | | | | | |
| 1600 | | | | | | | Sampled OW-1 TPH-g/BTEX; VOCs Sampled OW-1 TPH-d |

6-38

# WATER QUALITY SAMPLING INFORMATION

Date: _____ Well No.: OW-6 Sampled by: _____

Project: _____ Project No.: _____

Sampling method: _____

## GROUNDWATER

Well diameter (in.) _____

Well elevation (ft.) _____

Depth to static water (ft.) _____

Water level elevation (ft.) 5.80

Well casing depth (ft.) 17.20

Water volume in well (gals) 1.82

Pump inlet depth (ft.) _____

## SURFACE WATER

Stream width (ft.) _____

Stream depth (ft.) _____

Stream velocity (cfs.) _____

Rained recently (?) _____

2-in. Casing = 0.16 gals/ft.

4-in. Casing = 0.65 gals/ft.

6-in. Casing = 1.47 gals/ft

Sketch of well location

Analyses requested: TPH-d; TPHg/BTEX; VOC's

No. & types of sample bottles used: _____ Method of shipment: _____

| TIME | DEPTH TO WATER (ft.) | VOLUME WITHDRAWN (GALS.) | TEMP. (deg. F) | pH | CONDUCTIVITY | TURBIDITY | REMARKS |
|---|---|---|---|---|---|---|---|
| 1615 | | 0 | — | — | — | — | Start |
| 1625 | | 4.5.5 | 70 | | | | Light Brown; Slight Odor |
| 1635 | | | | | | | |
| 1645 | | | | | | | Sampled TPHg/BTEX; VOCs Sampled TPH-d |

5.46

# WATER QUALITY SAMPLING INFORMATION

Date: _____ Well No.: OW-7 Sampled by: _____

Project: _____ Project No.: _____

Sampling method: _____

## GROUNDWATER

Well diameter (in.) _____

Well elevation (ft.) _____

Depth to static water (ft.) _____

Water level elevation (ft.) 7.00

Well casing depth (ft.) 18.20

Water volume in well (gals) 1.79

Pump inlet depth (ft.) _____

## SURFACE WATER

Stream width (ft.) _____

Stream depth (ft.) _____

Stream velocity (cfs.) _____

Rained recently (?) _____

2-in. Casing = 0.16 gals/ft.

4-in. Casing = 0.65 gals/ft.

6-in. Casing = 1.47 gals/ft

Sketch of well location

Analyses requested: TPH-d; TPH-g/BTEX; VOCs

No. & types of sample bottles used: _____ Method of shipment: _____

| TIME | DEPTH TO WATER (ft.) | VOLUME WITHDRAWN (GALS.) | TEMP. (deg. F) | pH | CONDUCTIVITY | TURBIDITY | REMARKS |
|---|---|---|---|---|---|---|---|
| 1655 | 7.00 | 0 | — | — | — | — | Start |
| 1705 | | ≈ 5.4 | 63 | | | | Clear; No Odor |
| 1715 | | | | | | | |
| 1725 | | | | | | | Sampled OW-7 TPH-g/BTEX; VOCs |
| | | | | | | | Sampled OW-7 TPH-d |

5.37

# *APPENDIX B*

## Historical Monitoring Data

# Historical Groundwater Analytical Data

| Well ID | MCL | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 | OW-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | ug/L | Apr-88 | Oct-89 | Jan-90 | Apr-90 | Jul-90 | Oct-90 | Jan-91 | Apr-91 | Jul-91 | Dec-91 | Mar-92 | Jul-92 | Oct-92 | Jan-93 | Apr-93 | Jul-93 | Oct-93 | Jan-94 | Jul-94 | Jun-95 | Nov-95 | Jun-96 | Oct-96 | Apr,Jun-97 | Dec-97 | Jun-98 | Dec-98 | Jun-99 | Nov-99 | Jun-00 | Nov-00 |
| PURGEABLE HALOCARBONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloromethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromomethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Vinyl chloride | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chloroethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Methylene Chloride | 5# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Trichlorofluoromethane | 150 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1-Dichloroethene | 6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1-Dichloroethane | 5 | ND | 5 | 4 | 4 | 2 | 2 | 1 | 2.6 | 4.6 | ND | ND | ND | 1 | 3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cis-1,2-Dichloroethene | 6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| trans-1,2-Dichloroethene | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chloroform | 100# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Freon 113 | 1200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichloroethane | 0.5 | ND | ND | ND | ND | ND | ND | ND | 0.63 | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1,1-Trichloroethane | 200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Carbon Tetrachloride | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromodichloromethane | 100# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichloropropane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cis-1,3-Dichloropropene | 5*** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Trichloroethene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1,2-Trichloroethane | 32 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| trans-1,3-Dichloropropene | 5*** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Dibromochloromethane | 100# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2-Chloroethylvinyl Ether | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromoform | 100# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Tetrachloroethene | 5 | ND | ND | ND | ND | ND | ND | ND | 1.1 | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1,2,2-Tetrachloroethane | 1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chlorobenzene | 30 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | | NA | NA | 1 | 4 | 4 | 1 | 3 | 1.8 | 2.9 | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichlorobenzene | 600# | NA | NA | ND | ND | ND | ND | ND | 0.56 | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | 5 | 4 | 11 | 5 | 13 | 11 | 6 | 3 | 8.7 | 14 | 3.2 | ND | 4 | 3 | 3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PURGEABLE AROMATICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 1 | ND | ND | 3.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | NA | ND | ND | ND | ND | 0.66 | ND | 0.5 | 0.55 | ND | ND | ND |
| Toluene | 1000# | ND | ND | 2.3 | 0.4 | ND | ND | ND | ND | ND | ND | ND | 0.7 | ND | ND | NA | ND | NA | ND | ND | NA | ND | ND | ND | ND | ND | 0.67 | ND | ND | ND | ND | ND |
| Ethylbenzene | 680 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2 | ND | 0.8 | NA | ND | NA | ND | ND | NA | ND | ND | ND | ND | 2.3 | ND | 0.76 | ND | ND | ND | ND |
| Total Xylenes | 1750** | | ND | 2.6 | 2.4 | ND | ND | ND | ND | ND | ND | 3.2 | 9 | 1.7 | 1.9 | NA | ND | NA | 2.5 | ND | NA | ND | ND | ND | ND | 1.1 | ND | 0.67 | ND | 0.59 | ND | ND |
| TOTAL VOCs | | 4 | 16 | 18.1 | 23.8 | 17 | 9 | 7 | 13.41 | 21.5 | 3.2 | 3.2 | 15.7 | 5.7 | 8.5 | NA | NA | NA | 2.5 | NA | NA | NA | NA | NA | NA | 4.06 | 0.67 | 1.93 | 0.55 | 0.59 | NA | NA |
| HYDROCARBONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TVH-g | | NA | NA | < 50 | 82 | < 50 | < 50 | < 500 | NA | NA | NA | 100 | 320 | < 50 | 70 | NA | NA | NA | 80 | 60 | 400 | 230 | 500 | 630 | 590 | 420 | 850 | 850 | 1100 | 990 | 860 | 620 |
| TEPH-d | | < 1000 | < 1000 | 190 | 300 | 200 | 200 | 90 | < 200 | < 50 | 1600 | 3100 | 3900 | 1000 | 2000 | NA | 2300 | NA | 1000 | 1500 | 740 | 1000 | 2300 | 1400 | 1500 | 700 | 1900 | 1800 | 1600 | 940 | 350 | 250 |
| O&G | | < 5000 | 16000 | NA | NA | NA | NA | NA | NA | < 5000 | < 5000 | < 5000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| TPH (418.1) | | NA | NA | < 5000 | < 5000 | < 5000 | < 5000 | < 5000 | < 500 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| METALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead | 0 | NA | NA | NA | NA | NA | NA | NA | ND | NA | NA | ND | ND | ND | ND | NA | NA | NA | NA | NA | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
1) MCL = Maximum Contaminant Level in drinking water (State MCL if not noted otherwise )
2) # = EPA MCL
3) * = MCL for sum of four compounds
4) ** = MCL for sum of all xylene isomers
5) *** = MCL for sum of trans- and cis-1,3-Dichloropropene
6) ND = Not Detected at or above MDL
7) Purgeable Halocarbons (EPA method 8010)
8) Purgeable Aromatics (EPA method 8020)
9) NA = Not Analyzed or analysis not required

# Historical Groundwater Analytical Data

| Well ID | MCL | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 | OW-2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | ug/L | Apr-88 | Oct-89 | Jan-90 | Apr-90 | Jul-90 | Oct-90 | Jan-91 | Apr-91 | Jul-91 | Dec-91 | Mar-92 | Jul-92 | Oct-92 | Jan-93 | Apr-93 | Jul-93 | Oct-93 | Jan-94 | Apr-94 | Jul-94 | Jun-95 | Nov-95 | Jun-96 | Oct-96 | Apr,Jun-97 | Dec-97 | Jun-98 | Dec-98 | Jun-99 | Nov-99 | Jun-00 | Nov-00 |
| PURGEABLE HALOCARBONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloromethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromomethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Vinyl chloride | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chloroethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Methylene Chloride | 5# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Trichlorofluoromethane | 150 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1-Dichloroethene | 6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1-Dichloroethane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cis-1,2-Dichloroethene | 6 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| trans-1,2-Dichloroethene | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chloroform | 100# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Freon 113 | 1200 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichloroethane | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1,1-Trichloroethane | 200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Carbon Tetrachloride | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromodichloromethane | 100# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichloropropane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cis-1,3-Dichloropropene | 5*** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Trichloroethene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1,2-Trichloroethane | 32 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| trans-1,3-Dichloropropene | 5*** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Dibromochloromethane | 100# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2-Chloroethylvinyl Ether | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromoform | 100# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Tetrachloroethene | 5 | ND | ND | ND | ND | ND | ND | ND | 0.53 | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1,2,2-Tetrachloroethane | 1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chlorobenzene | 30 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichlorobenzene | 600# | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | 5 | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PURGEABLE AROMATICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 1 | ND | ND | 0.4 | ND | ND | ND | ND | ND | ND | ND | 1.4 | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Toluene | 1000# | ND | ND | 0.4 | 0.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Ethylbenzene | 680 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Total Xylenes | 1750** | | ND | 0.4 | 0.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| TOTAL VOCs | | NA | NA | 1.2 | 1.4 | NA | NA | NA | 0.53 | NA | NA | 1.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| HYDROCARBONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TVH-g | | NA | NA | < 50 | < 50 | < 50 | < 50 | < 50 | NA | NA | NA | < 50 | < 50 | < 50 | < 50 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| TEPH-d | | < 1000 | < 1000 | 130 | 140 | 68 | 90 | < 50 | < 200 | < 50 | 650 | 670 | 410 | 410 | 620 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| O&G | | 15000 | 16000 | NA | NA | NA | NA | NA | NA | < 5000 | < 5000 | < 5000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| TPH (418.1) | | NA | NA | < 5000 | < 5000 | < 5000 | < 5000 | < 5000 | < 500 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| METALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead | 0 | NA | NA | NA | NA | NA | NA | NA | ND | NA | NA | ND | ND | ND | ND | ND | ND | ND | 6 | ND | 4.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Notes:
1) MCL = Maximum Contaminant Level in drinking water (State MCL if not noted otherwise )
2) # = EPA MCL
3) * = MCL for sum of four compounds
4) ** = MCL for sum of all xylene isomers
5) *** = MCL for sum of trans- and cis-1,3-Dichloropropene
6) ND = Not Detected at or above MDL
7) Purgeable Halocarbons (EPA method 8010)
8) Purgeable Aromatics (EPA method 8020)
9) NA = Not Analyzed or analysis not required

# Historical Groundwater Analytical Data

| Well ID | MCL | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 | OW-4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | ug/L | Jun-88 | Oct-89 | Jan-90 | Apr-90 | Jul-90 | Oct-90 | Jan-91 | Apr-91 | Jul-91 | Dec-91 | Mar-92 | Jul-92 | Oct-92 | Jan-93 | Apr-93 | Jul-93 | Oct-93 | Jan-94 | Jul-94 | Jun-95 | Nov-95 | Jun-96 | Oct-96 | Apr,Jun-97 | Dec-97 | Jul-98 | Dec-98 | Jun-99 | Nov-99 | Jun-00 | Nov-00 |
| PURGEABLE HALOCARBONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloromethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromomethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Vinyl chloride | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chloroethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Methylene Chloride | 5# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Trichlorofluoromethane | 150 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1-Dichloroethene | 6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1-Dichloroethane | 5 | ND | ND | ND | ND | ND | ND | 3 | 6.1 | 9.4 | ND | 7 | 4 | 4 | 3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cis-1,2-Dichloroethene | 6 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| trans-1,2-Dichloroethene | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chloroform | 100# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Freon 113 | 1200 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichloroethane | 0.5 | ND | ND | ND | ND | ND | ND | ND | 0.49 | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1,1-Trichloroethane | 200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Carbon Tetrachloride | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromodichloromethane | 100# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichloropropane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cis-1,3-Dichloropropene | 5*** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Trichloroethene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1,2-Trichloroethane | 32 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| trans-1,3-Dichloropropene | 5*** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Dibromochloromethane | 100# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2-Chloroethylvinyl Ether | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromoform | 100# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Tetrachloroethene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1,2,2-Tetrachloroethane | 1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chlorobenzene | 30 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichlorobenzene | 600# | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PURGEABLE AROMATICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 1 | ND | ND | ND | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | NA | NA | NA | NA | NA |
| Toluene | 1000# | ND | ND | ND | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | NA | NA | NA | NA | NA |
| Ethylbenzene | 680 | ND | ND | ND | 0.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | NA | NA | NA | NA | NA |
| Total Xylenes | 1750** | ND | ND | 0.6 | 2 | ND | ND | ND | ND | ND | ND | 0.7 | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | NA | NA | NA | NA | NA |
| TOTAL VOCs | | NA | NA | 0.6 | 3.4 | NA | NA | 3 | 6.59 | 9.4 | NA | 7.7 | 4 | 4 | 3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| HYDROCARBONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TVH-g | | NA | NA | <50 | <50 | <50 | <50 | <50 | NA | NA | NA | < 50 | < 50 | < 50 | < 50 | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | NA | NA | NA | NA | NA |
| TEPH-d | | < 1000 | < 1000 | 150 | 210 | 150 | 150 | <50 | 560 | < 50 | 2000 | 2100 | 820 | 1300 | 2100 | NA | 1500 | NA | NA | NA | 1600 | 630 | 1100 | 840 | 980 | NA | 1000 | NA | NA | NA | NA | NA |
| O&G | | < 5000 | < 5000 | NA | NA | NA | NA | NA | NA | < 5000 | < 5000 | < 5000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| TPH (418.1) | | NA | NA | < 5000 | < 5000 | < 5000 | < 5000 | < 5000 | < 500 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| METALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead | 0 | NA | NA | NA | NA | NA | NA | NA | ND | NA | NA | ND | 5 | ND | ND | NA | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

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9) NA = Not Analyzed or analysis not required

# Historical Groundwater Analytical Data

| Well ID | MCL | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 | OW-5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | ug/L | Apr-91 | Jul-91 | Dec-91 | Mar-92 | Jul-92 | Oct-92 | Jan-93 | Jul-93 | Oct-93 | Jan-94 | Apr-94 | Jul-94 | Jun-95 | Nov95 | Jun-96 | Oct-96 | Apr,Jun-97 | Dec-97 | Jun-98 | Dec-98 | Jun-99 | Nov-99 | Jun-00 | Nov-00 |
| PURGEABLE HALOCARBONS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloromethane | | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromomethane | | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vinyl chloride | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | 1.1 | ND | ND | ND | ND |
| Chloroethane | | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | 5# | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | 67 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 150 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | 6 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 5 | 1.8 | 7.2 | ND | 4 | 8 | 13 | 5 | 6 | NA | 2 | NA | 4 | 3.2 | 7.9 | 2.5 | 8.9 | 5.3 | 2.9 | 1 | 2.5 | 3 | 2.5 | 2.2 | 2.8 |
| cis-1,2-Dichloroethene | 6 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | 10 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | 100# | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Freon 113 | 1200 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 200 | 6 | 26 | 16 | 12 | 25 | 28 | 7 | 7 | NA | 2 | NA | 3 | 1.3 | 2.1 | ND | 1.3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | 100# | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,3-Dichloropropene | 5*** | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene | 5 | 0.75 | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | 0.7 | 0.8 | 0.9 | ND | 0.55 |
| 1,1,2-Trichloroethane | 32 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | 5*** | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | 100# | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Chloroethylvinyl Ether | | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | ND | ND |
| Bromoform | 100# | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | 5 | 0.7 | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | 30 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | 600# | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.0 |
| PURGEABLE AROMATICS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 1 | 14 | 20 | 11 | 15 | 11 | 13 | 26 | 14 | NA | 21 | NA | 11 | | 11 | 15 | 18 | 3.8 | 15 | ND | 7.3 | 8.2 | 11 | 6.3 | 10 |
| Toluene | 1000# | 0.54 | ND | ND | 1.1 | ND | ND | ND | ND | NA | ND | NA | ND | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 680 | 0.58 | ND | ND | 0.6 | ND | ND | 0.7 | ND | NA | 0.7 | NA | 0.6 | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Total Xylenes | 1750** | 5.6 | 4 | 6.9 | 5.1 | 6 | 3.6 | 13 | 2.4 | NA | 9.2 | NA | 1.3 | | ND | ND | ND | ND | 2.74 | ND | ND | ND | ND | ND | ND |
| TOTAL VOCs | | 28.97 | 57.2 | 35.9 | 37.6 | 50 | 57.6 | 51.7 | 29.4 | NA | 34.9 | NA | 19.9 | 4.5 | 88 | 17.5 | 28.2 | 9.1 | 20.64 | 1 | 11.6 | 12 | 14.4 | 8.5 | 14.35 |
| HYDROCARBONS | | | | | | | | | | | | | | | | | | | | | | | | | |
| TVH-g | | NA | NA | NA | 120 | 270 | 160 | 350 | 140 | NA | 370 | NA | 110 | ND | ND | ND | ND | ND | 83 | ND | ND | ND | 59 | ND | ND |
| TEPH-d | | 600 | 1500 | 1200 | 840 | 650 | 1000 | 1000 | 1600 | NA | 510 | NA | 1300 | 510 | 1600 | 630 | 870 | 740 | 630 | 630 | 780 | 630 | 900 | ND | ND |
| O&G | | NA | < 5000 | < 5000 | < 5000 | NA | NA | NA | NA | NA | ND | NA | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| TPH (418.1) | | < 500 | NA | NA | NA | NA | NA | NA | NA | NA | ND | NA | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| METALS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead | 0 | ND | NA | NA | ND | ND | ND | ND | ND | ND | 7.3 | 7.4 | 5 | ND | ND | ND | ND | 5 | ND | ND | ND | ND | ND | ND | ND |

Notes:
1) MCL = Maximum Contaminant Level in drinking water (State MCL if not noted otherwise )
2) # = EPA MCL
3) * = MCL for sum of four compounds
4) ** = MCL for sum of all xylene isomers
5) *** = MCL for sum of trans- and cis-1,3-Dichloropropene
6) ND = Not Detected at or above MDL
7) Purgeable Halocarbons (EPA method 8010)
8) Purgeable Aromatics (EPA method 8020)
9) NA = Not Analyzed or analysis not required

# Historical Groundwater Analytical Data

| Well ID | MCL | OW-3 | OW-3 | OW-3 | OW-3 | OW-3 | OW-3 | OW-3 | OW-3 | OW-3 | OW-3 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 | OW-6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | ug/L | Apr-88 | Jun-88 | Oct-89 | Jan-90 | Apr-90 | Jul-90 | Oct-90 | Jan-91 | Apr-91 | Jul-91 | Dec-91 | Mar-92 | Jul-92 | Oct-92 | Jan-93 | Jul-93 | Oct-93 | Jan-94 | Jul-94 | Jun-95 | Nov-95 | Jun-96 | Oct-96 | Apr,Jun-97 | Dec-97 | Jun-98 | Dec-98 | Jun-99 | Nov-99 | Jun-00 | Nov-00 |
| **PURGEABLE HALOCARBONS** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloromethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromomethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vinyl chloride | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | 5# | ND | ND | ND | ND | 9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | 49 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 150 | ND | ND | ND | ND | ND | ND | ND | ND | 0.82 | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | 6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 5 | 4 | 5 | 26 | 29 | 14 | 17 | 17 | 15 | 16 | 41 | ND | 1 | 2 | 2 | 10 | 23 | NA | 7 | 17 | 31 | 6.8 | 10 | 5.4 | 7 | 7.7 | 3.3 | 4.6 | 2.1 | 3.1 | 1.4 | 2.3 |
| cis-1,2-Dichloroethene | 6 | NA | NA | ND | ND | 33 | ND | 1 | 1 | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | 10 | ND | 2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | 100#* | 2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Freon 113 | 1200 | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | 0.55 | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 200 | ND | ND | ND | ND | ND | ND | ND | ND | 2.5 | ND | ND | ND | ND | ND | 10 | 16 | NA | ND | ND | 3.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | 100#* | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,3-Dichloropropene | 5*** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 32 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | 5*** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | 100#* | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Chloroethylvinyl Ether | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | ND | ND | ND | ND |
| Bromoform | 100#* | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.1 | ND | ND | ND |
| Tetrachloroethene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | 1.4 | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | 30 | ND | 1 | ND | ND | ND | ND | ND | 1 | 2.3 | 2 | 6.7 | ND | ND | ND | ND | ND | NA | ND | 2 | 4.6 | ND | 5.2 | 1 | 4.5 | 26 | 9.1 | 8.3 | ND | 1.9 | ND | ND |
| 1,3-Dichlorobenzene | | NA | NA | NA | 3 | ND | 2 | 2 | 1 | 3.3 | ND | 15 | ND | ND | ND | ND | ND | NA | ND | ND | 11 | 7.4 | 20 | 10 | 25 | 46 | 30 | 27 | 5.4 | 9.2 | 3 | 2.7 |
| 1,2-Dichlorobenzene | 600# | NA | NA | NA | 2 | ND | 1 | 1 | 1 | 2.3 | ND | 5.8 | ND | ND | ND | ND | ND | NA | ND | ND | 23 | ND | 2.4 | ND | 2.1 | 6.3 | 3 | 2.8 | ND | 0.7 | ND | ND |
| 1,4-Dichlorobenzene | 5 | NA | NA | NA | 2 | ND | ND | 2 | 1 | 3.1 | ND | 23 | ND | ND | ND | ND | ND | NA | ND | ND | 2.9 | 16 | 46 | 26 | 65 | 140 | 84 | 68 | 19 | 30 | 11 | 10 |
| **PURGEABLE AROMATICS** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 1 | ND | ND | ND | 0.5 | ND | ND | ND | ND | 0.54 | ND | ND | ND | ND | ND | ND | 0.6 | NA | ND | ND | ND | ND | ND | ND | ND | 0.5 | ND | ND | ND | ND | ND | ND |
| Toluene | 1000# | ND | ND | ND | 0.4 | 0.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 680 | ND | ND | ND | ND | 0.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.1 | NA | ND | ND | ND | ND | ND | ND | ND | 35 | ND | ND | ND | ND | ND | ND |
| Total Xylenes | 1750** | | | ND | 0.7 | 2.1 | ND | ND | ND | ND | ND | 2 | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TOTAL VOCs | | 6 | 8 | 26 | 37.6 | 59.4 | 20 | 23 | 20 | 32.81 | 43 | 51.5 | 1 | 2 | 2 | 20 | 42.7 | NA | 7 | 19 | 78.3 | 81.2 | 83.6 | 42.4 | 103.6 | 261.5 | 129.4 | 110.7 | 27.6 | 44.9 | 15.4 | 15.0 |
| **HYDROCARBONS** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TVH-g | | NA | NA | NA | < 50 | 52 | < 50 | < 50 | < 50 | NA | NA | NA | < 50 | < 50 | < 50 | < 50 | < 50 | NA | 70 | <50 | ND | ND | 61 | ND | 83 | 160 | 110 | 130 | 84 | 57 | ND | ND |
| TEPH-d | | < 1000 | < 1000 | < 1000 | 440 | 470 | 450 | 130 | 1310 | 700 | < 50 | 5500 | 4900 | 3500 | 3900 | 5300 | 3500 | NA | 2200 | 2500 | 1300 | 2400 | 2000 | 2400 | 1300 | 1200 | 1300 | 2000 | 1300 | 1000 | 88 | ND |
| O&G | | < 5000 | < 5000 | 5000 | NA | NA | NA | NA | NA | NA | < 5000 | < 5000 | < 5000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| TPH (418.1) | | NA | NA | NA | < 5000 | < 5000 | < 5000 | < 5000 | < 5000 | < 500 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **METALS** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead | 0 | NA | NA | NA | NA | NA | NA | NA | NA | ND | NA | NA | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
1) MCL = Maximum Contaminant Level in drinking water (State MCL if not noted otherwise )
2) # = EPA MCL
3) * = MCL for sum of four compounds
4) ** = MCL for sum of all xylene isomers
5) *** = MCL for sum of trans- and cis-1,3-Dichloropropene
6) ND = Not Detected at or above MDL
7) Purgeable Halocarbons (EPA method 8010)
8) Purgeable Aromatics (EPA method 8020)
9) NA = Not Analyzed or analysis not required

# Historical Groundwater Analytical Data

| Well ID | MCL | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 | OW-7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | ug/L | Dec-91 | Mar-92 | Jul-92 | Oct-92 | Jan-93 | Apr-93 | Jul-93 | Oct-93 | Jan-94 | Jul-94 | Jun-95 | Nov-95 | Jun-96 | Oct-96 | Apr,Jun-97 | Dec-97 | Jun-98 | Dec-98 | Jun-99 | Nov-99 | Jun-00 | Nov-00 |
| PURGEABLE HALOCARBONS | | | | | | | | | | | | | | | | | | | | | | | |
| Chloromethane | | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromomethane | | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vinyl chloride | 0.5 | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroethane | | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | 5# | 14 | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | 570 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 150 | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | 6 | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 5 | ND | 16 | ND | ND | 25 | NA | 14 | NA | 8 | ND | 5.5 | 25 | 6.5 | 9.6 | 4.3 | 9.8 | 4.1 | 5.7 | ND | 6.3 | ND | ND |
| cis-1,2-Dichloroethene | 6 | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | 10 | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | 100#* | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Freon 113 | 1200 | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 0.5 | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 200 | 10 | 460 | 29 | 60 | 530 | NA | 73 | NA | 76 | 28 | 33 | 41 | 18 | 6.6 | 7.9 | 31 | 5.9 | 5.6 | ND | ND | ND | ND |
| Carbon Tetrachloride | 0.5 | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | 100#* | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | 5 | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,3-Dichloropropene | 5*** | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene | 5 | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 32 | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | 5*** | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | 100#* | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Chloroethylvinyl Ether | | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | ND | ND |
| Bromoform | 100#* | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | 5 | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ND | ND | ND | ND | ND | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | 30 | 10 | ND | ND | 8 | ND | NA | 29 | NA | 21 | 24 | 12 | 34 | 25 | 31 | 25 | 46 | 27 | 31 | 34 | 36 | 18 | 39 |
| 1,3-Dichlorobenzene | | 460 | 130 | 420 | 330 | 170 | NA | 540 | NA | 450 | 570 | 270 | 400 | 380 | 440 | 290 | 360 | 340 | 360 | 420 | 330 | 220 | 330 |
| 1,2-Dichlorobenzene | 600# | 120 | 22 | 95 | 77 | 33 | NA | 470 | NA | 78 | 100 | 290 | 61 | 62 | 74 | 47 | 57 | 50 | 46 | 67 | 44 | 44 | 49 |
| 1,4-Dichlorobenzene | 5 | 440 | 120 | 400 | 290 | 160 | NA | 110 | NA | 410 | 540 | 51 | 480 | 500 | 560 | 410 | 530 | 450 | 470 | 580 | 450 | 310 | 470 |
| PURGEABLE AROMATICS | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 1 | ND | 0.8 | 1 | 1.4 | 0.8 | NA | 1.6 | NA | 1.6 | 1.2 | | 1.1 | ND | ND | 0.56 | 1.5 | 0.66 | 0.65 | 0.84 | 0.62 | ND | 0.83 |
| Toluene | 1000# | ND | 0.6 | 0.5 | ND | ND | NA | ND | NA | ND | ND | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 680 | ND | ND | 0.5 | ND | ND | NA | ND | NA | ND | ND | | ND | ND | ND | ND | 70 | ND | ND | ND | ND | ND | ND |
| Total Xylenes | 1750** | ND | 2.1 | 5 | ND | ND | NA | ND | NA | 4.2 | ND | | ND | ND | ND | ND | 1.1 | ND | ND | ND | ND | ND | ND |
| TOTAL VOCs | | 1054 | 751.5 | 951 | 788.4 | 918.8 | NA | 1237.5 | NA | 1048.8 | 1283.2 | 861.5 | 1812.1 | 991.5 | 1118.2 | 784.76 | 1106.5 | 877.86 | 920.95 | 1101.8 | 866.92 | 592 | 888.83 |
| HYDROCARBONS | | | | | | | | | | | | | | | | | | | | | | | |
| TVH-g | | NA | 700 | 1300 | 1400 | 720 | NA | 1500 | NA | 1400 | 1800 | 650 | 980 | 1200 | 1500 | 1100 | 1100 | 1000 | 1100 | 1200 | 1100 | 560 | 1100 |
| TEPH-d | | 7100 | 4400 | 2800 | 3900 | 2300 | NA | 4900 | NA | 4500 | 4800 | 1600 | 4400 | 4500 | 4800 | 2600 | 2100 | 2600 | 3500 | 3500 | 2400 | 430 | 370 |
| O&G | | < 5000 | < 5000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| TPH (418.1) | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| METALS | | | | | | | | | | | | | | | | | | | | | | | |
| Lead | 0 | NA | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
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5) *** = MCL for sum of trans- and cis-1,3-Dichloropropene
6) ND = Not Detected at or above MDL
7) Purgeable Halocarbons (EPA method 8010)
8) Purgeable Aromatics (EPA method 8020)
9) NA = Not Analyzed or analysis not required

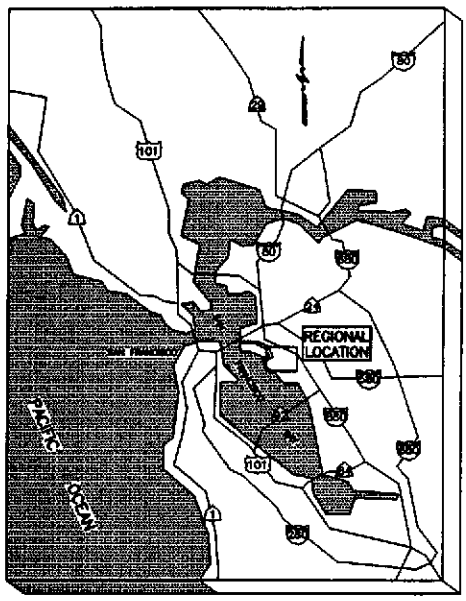
# Historical Groundwater Analytical Data

| Well ID | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 | OW-8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Apr-93 | Jul-93 | Oct-93 | Jan-94 | Apr-94 | Jul-94 | Jun-95 | Nov-95 | Jun-96 | Oct-96 | Apr,Jun-97 | Dec-97 | Jun-97 | Dec-98 | Jun-99 | Nov-99 | Jun-00 | Nov-00 |
| PURGEABLE HALOCARBONS | | | | | | | | | | | | | | | | | | |
| Chloromethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromomethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Vinyl chloride | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chloroethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Methylene Chloride | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Trichlorofluoromethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1-Dichloroethene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1-Dichloroethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cis-1,2-Dichloroethene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| trans-1,2-Dichloroethene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chloroform | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Freon 113 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichloroethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1,1-Trichloroethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Carbon Tetrachloride | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromodichloromethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichloropropane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cis-1,3-Dichloropropene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Trichloroethene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1,2-Trichloroethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| trans-1,3-Dichloropropene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Dibromochloromethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2-Chloroethylvinyl Ether | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Bromoform | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Tetrachloroethene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,1,2,2-Tetrachloroethane | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2-Dichlorobenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PURGEABLE AROMATICS | | | | | | | | | | | | | | | | | | |
| Benzene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Total Xylenes | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| TOTAL VOCs | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| HYDROCARBONS | | | | | | | | | | | | | | | | | | |
| TVH-g | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| TEPH-d | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| O&G | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| TPH (418.1) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| METALS | | | | | | | | | | | | | | | | | | |
| Lead | 27 | 17 | ND | 25 | 12 | 24 | 3.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Notes:
1) MCL = Maximum Contaminant Level in drinking water (State MCL if not noted otherwise )
2) # = EPA MCL
3) * = MCL for sum of four compounds
4) ** = MCL for sum of all xylene isomers
5) *** = MCL for sum of trans- and cis-1,3-Dichloropropene
6) ND = Not Detected at or above MDL
7) Purgeable Halocarbons (EPA method 8010)
8) Purgeable Aromatics (EPA method 8020)
9) NA = Not Analyzed or analysis not required

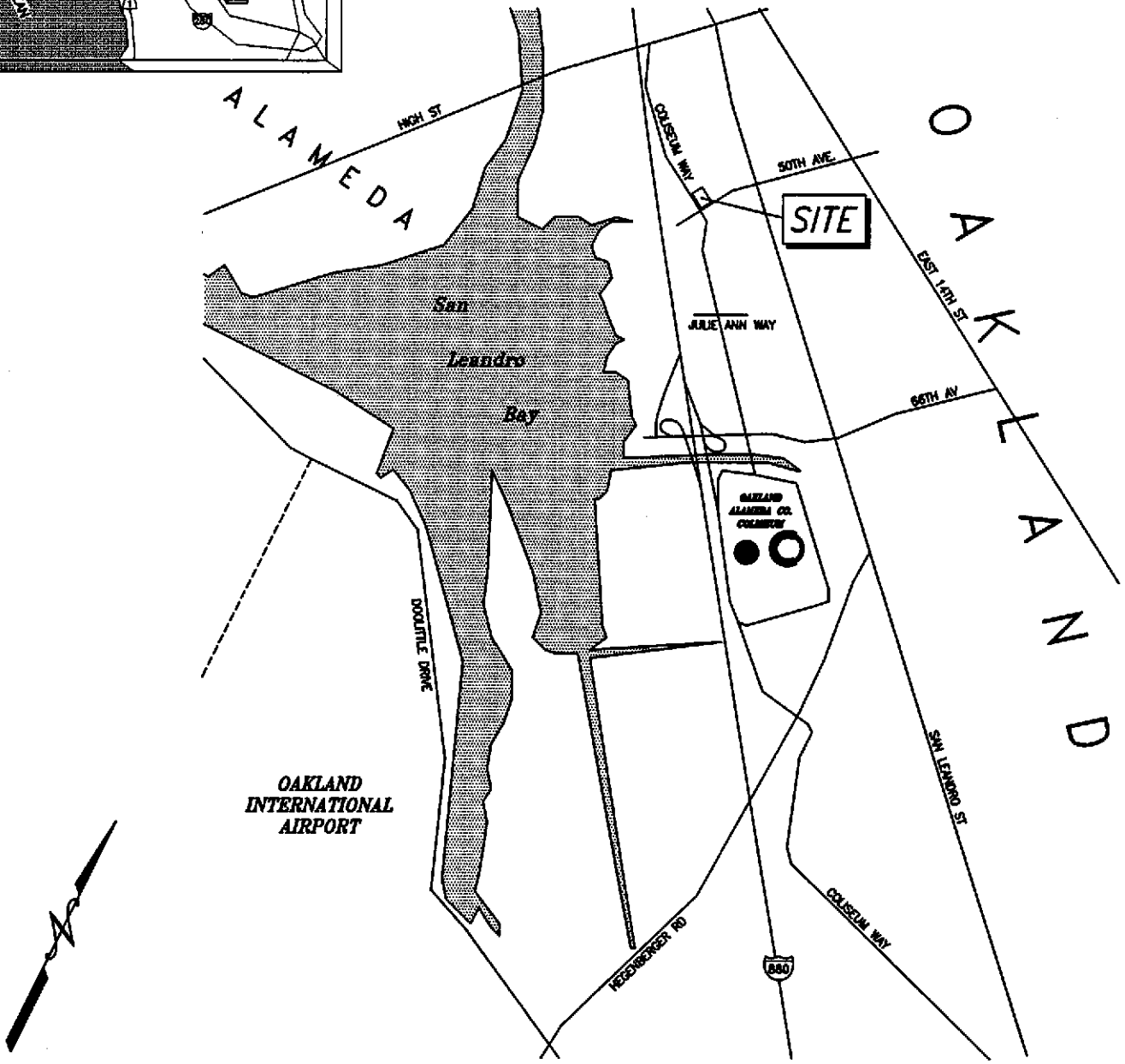
# *APPENDIX C*

## Figures




SCALE

MILE 0 1 MILE




CSS

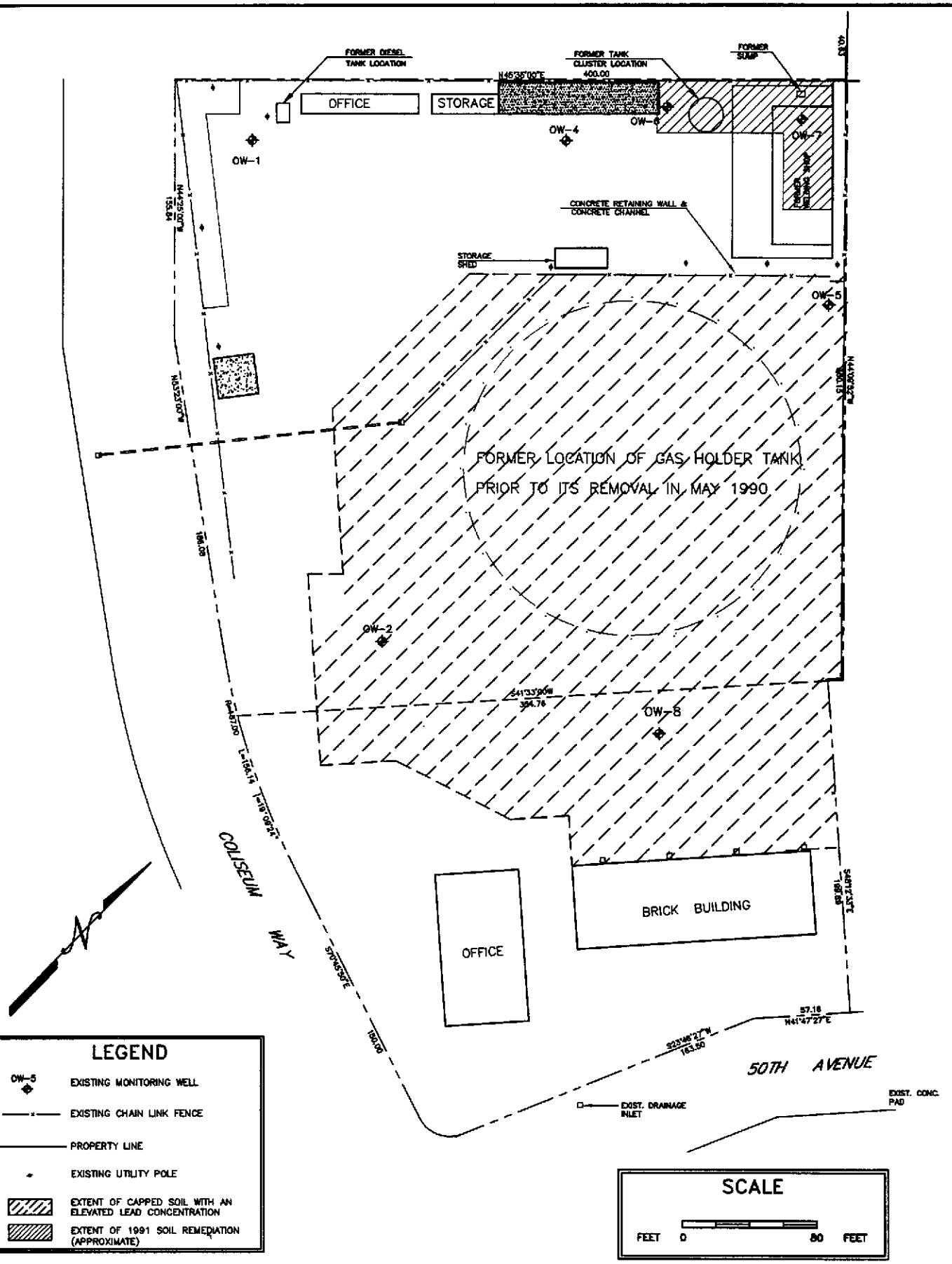
CSS ENVIRONMENTAL SERVICES, INC.

SITE LOCATION MAP

PG & E DISTRIBUTION CONSTRUCTION SITE
4930 COLISEUM WAY
OAKLAND, CA 94610

FIGURE 1

| JOB NUMBER | DATE | DRAWING | BY | REVISED |
|---|---|---|---|---|
| 6118 | 01/99 | 3666LOC | JL/ZS | 00/00 |



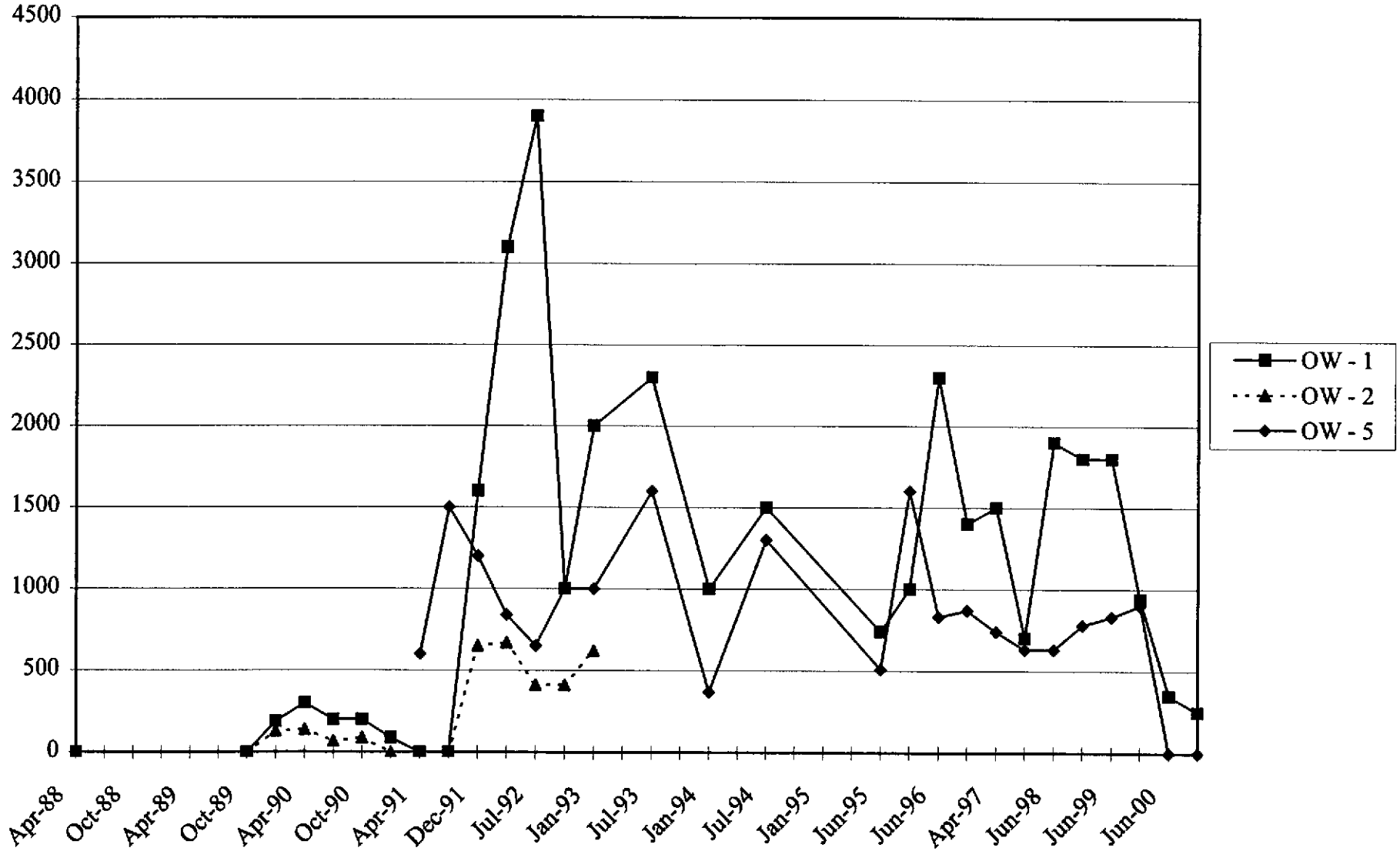

CSS ENVIRONMENTAL SERVICES, INC.

SITE PLAN
PG&E DISTRIBUTION CONSTRUCTION SITE
4930 COLISEUM WAY
OAKLAND, CA 94610

FIGURE 2

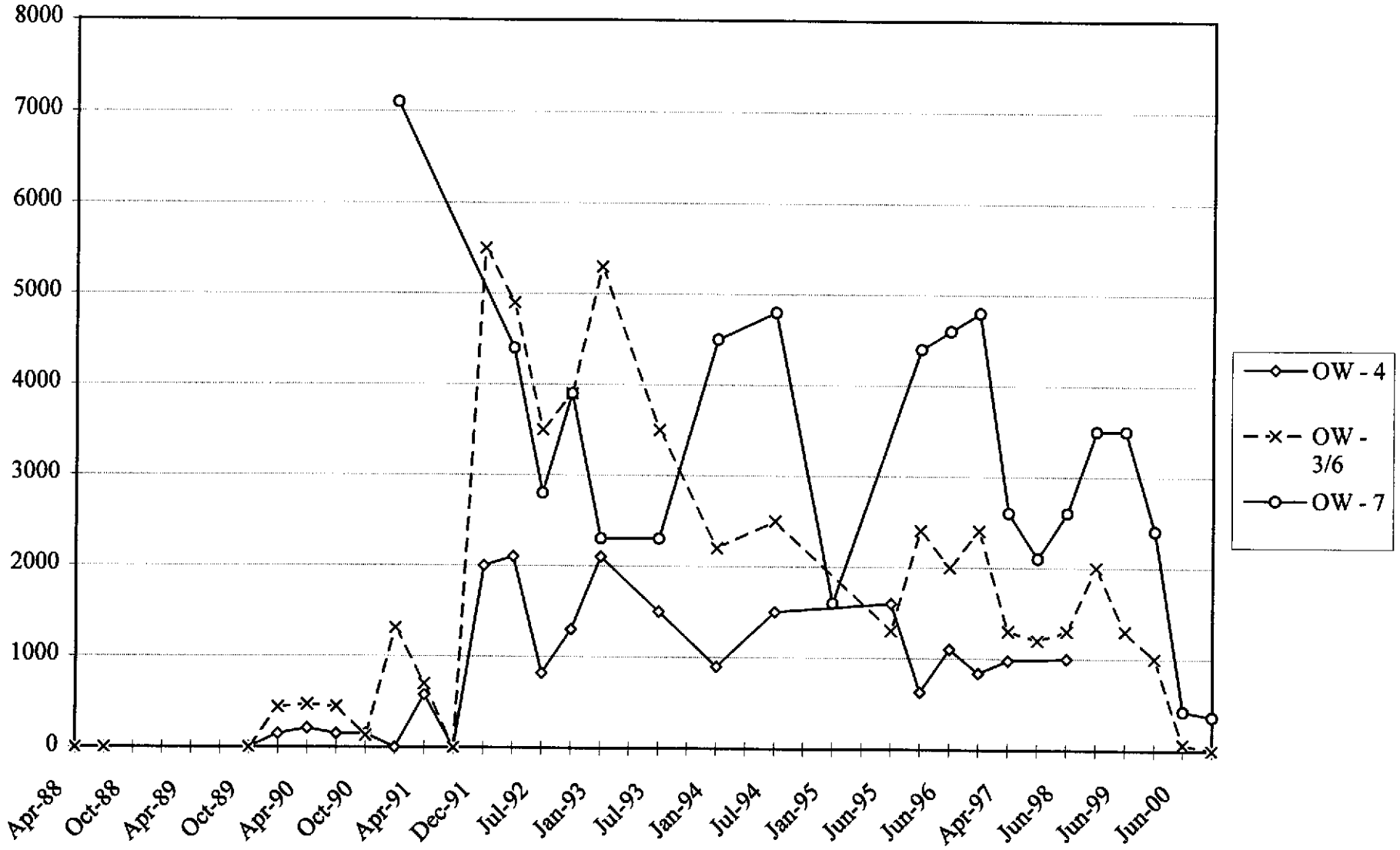
| JOB NUMBER | DATE | DRAWING | BY | REVISED |
|---|---|---|---|---|
| 6118 | 11/96 | 6118SITE | ESS | 7/00 |

**FIGURE 3.1**
**TPH-DIESEL in OW - 1, 2, & 5**



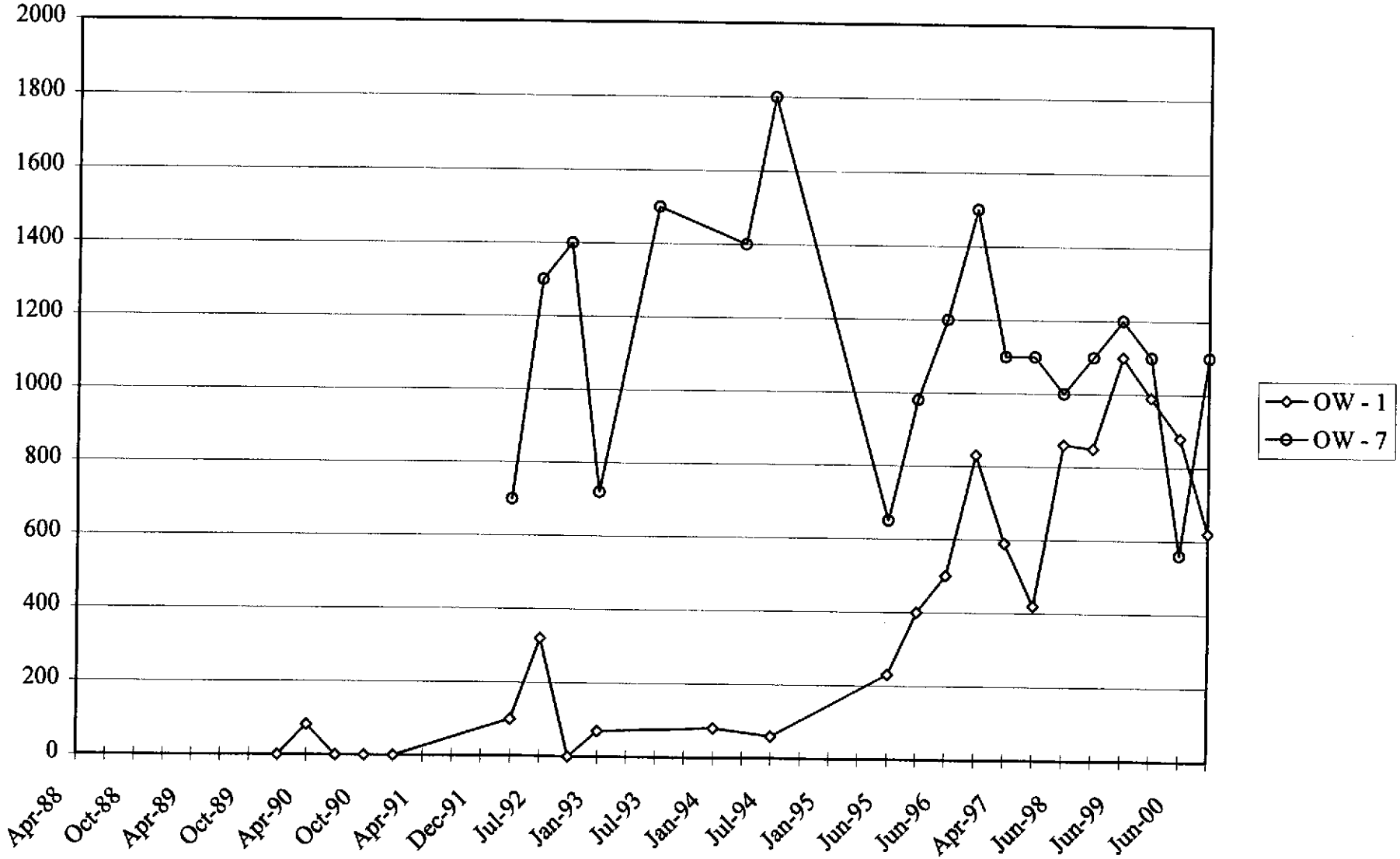

6118 tables11-99.xls

**FIGURE 3.2**
**TPH-DIESEL in OW - 4, 3/6, & 7**



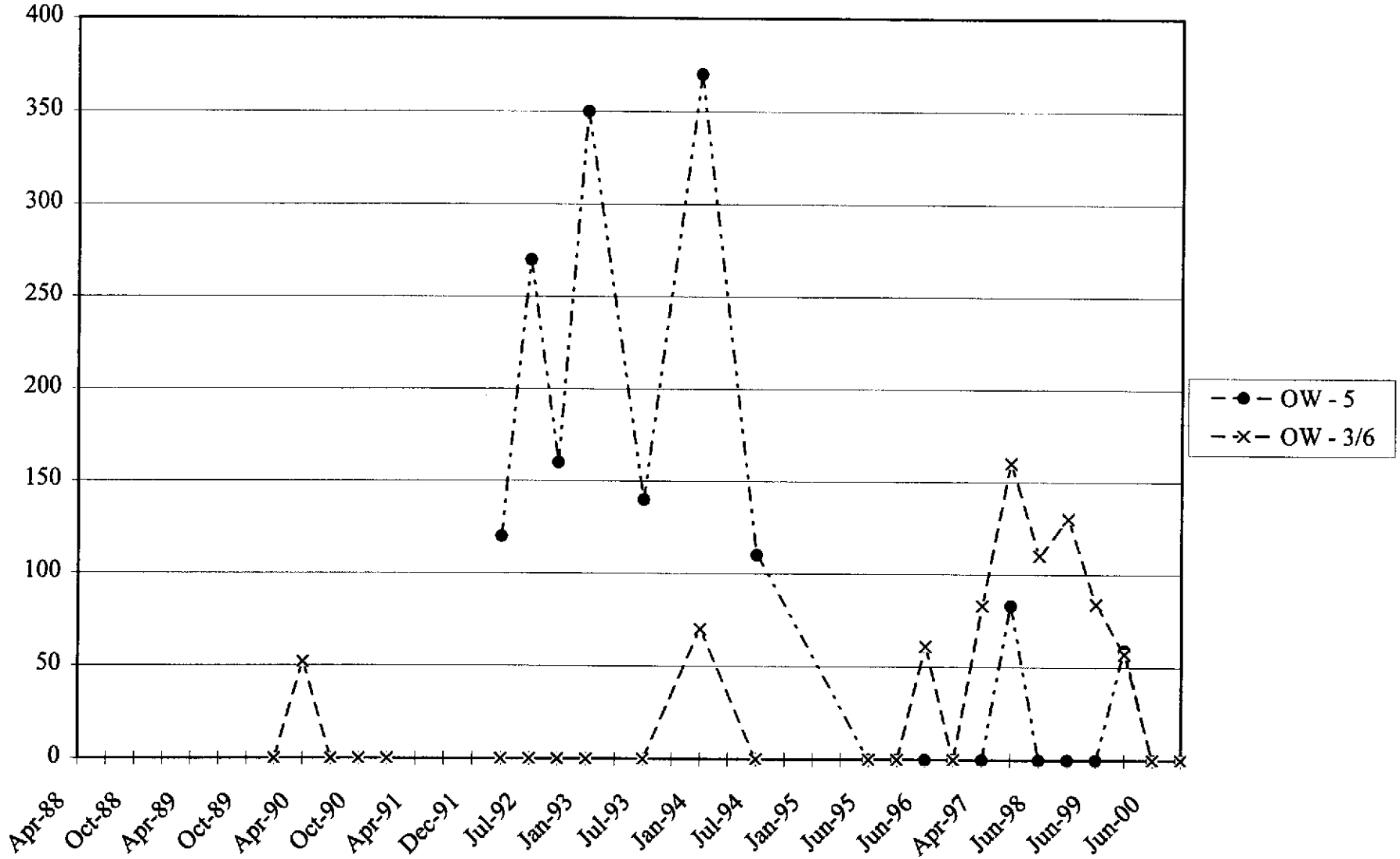

6118 tables11-99.xls

**FIGURE 3.3**
**TPH-GASOLINE in OW - 1 & 7**



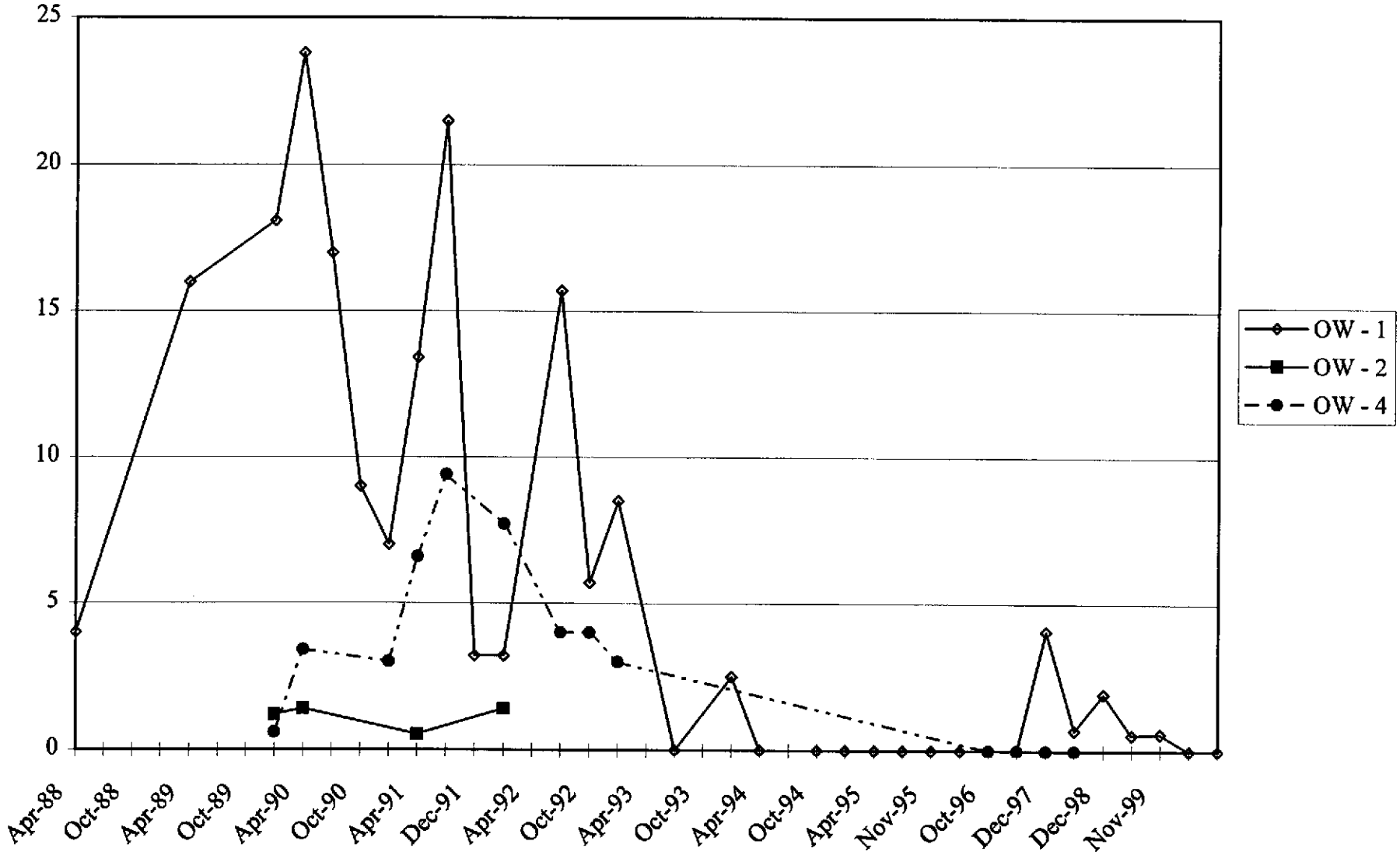

6118 tables11-99.xls

**FIGURE 3.4**
**TPH-GASOLINE in OW - 5 & 3/6**



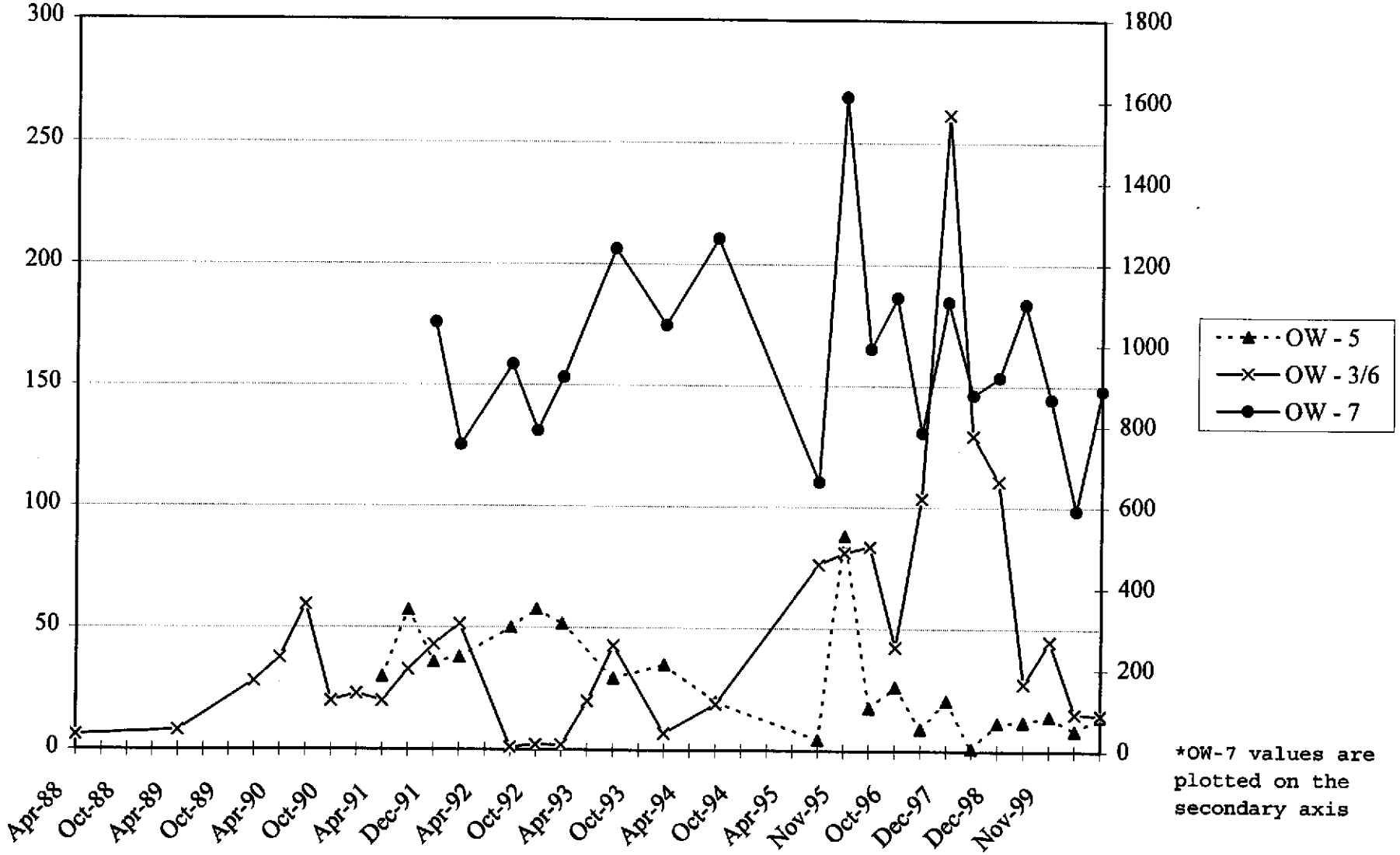

6118 tables11-99.xls

**FIGURE 3.5**
**TOTAL VOCs in OW-1, 2, & 4**



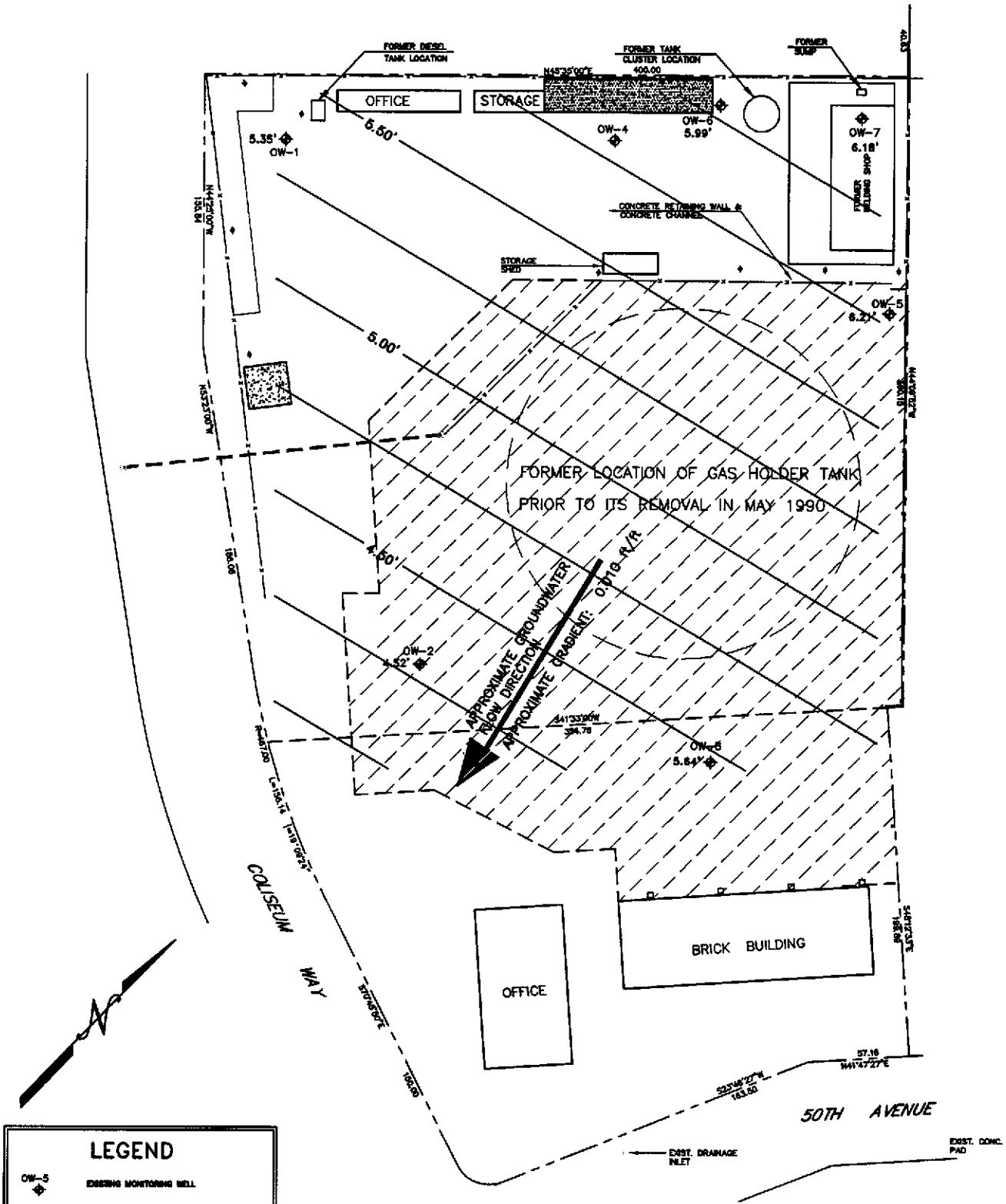

6118 tables11-99.xls

**FIGURE 3.6**
**TOTAL VOCS in OW-5, 6, & 7***




*OW-7 values are plotted on the secondary axis

6118 tables11-99.xls



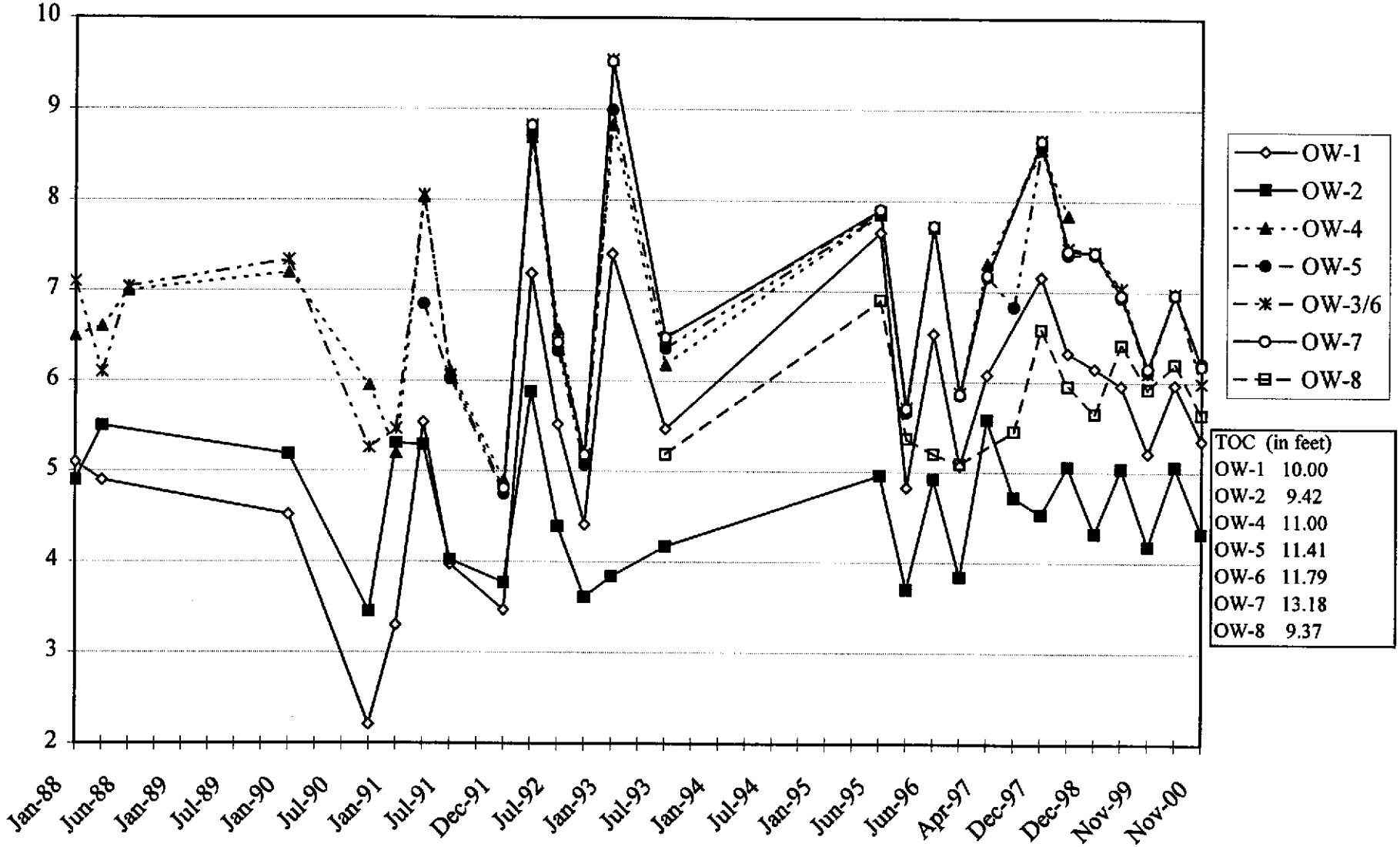

CSS ENVIRONMENTAL SERVICES, INC.

SITE PLAN AND SITE RELATIVE GROUNDWATER ELEVATIONS
PG&E DISTRIBUTION CONSTRUCTION SITE
4930 COLISEUM WAY
OAKLAND, CA 94610

FIGURE 4.1

| JOB NUMBER | DATE | DRAWING | BY | REVISED |
|---|---|---|---|---|
| 6118 | 1/99 | GW12-98 | ESS/ZS | 01/01 |

**FIGURE 4.2**
**HISTORICAL GROUNDWATER LEVELS**




6118 tables11-99.xls