

Paulette Satterley
14601 Guadalupe Dr.
Rancho Murieta, Ca 95683
Telephone 916-768-2003

October 12, 2012

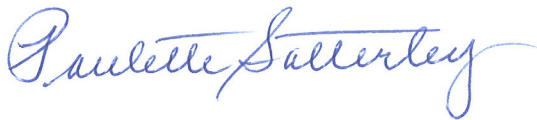
Ms. Barbara Jakub
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: Fuel Leak Case No: RO0000133

Enclosed please find the *Pilot Test Work Plan* dated 10-11-2012 and the *2012 Second Semi-Annual Groundwater Monitoring Report* dated 10-12-2012. These reports were prepared by Taber Consultants of West Sacramento, California.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document are true and correct to the best of my knowledge.

Sincerely,



Paulette Satterley

RECEIVED

10:18 am, Oct 31, 2012

Alameda County
Environmental Health

2012 SECOND SEMI-ANNUAL MONITORING REPORT

Former City of Paris Cleaners
3516 Adeline Street
Oakland, California 94608

USTCF Claim #002192

Prepared For:

Ms. Paulette Satterley
14601 Guadalupe Drive
Rancho Murieta, CA 95683

Prepared By:

Taber Consultants
3911 West Capitol Avenue
West Sacramento, CA 95691

Taber Project No. 2011-0107

October 12, 2012



www.taberconsultants.com

TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	Project Description	1
1.2	Site Location and Description	1
1.3	Chronological Site History and Subsurface Investigations	1
1.4	Zimmerman Residence Plume	4
2.0	GROUNDWATER MONITORING ACTIVITIES AND RESULTS	6
2.1	Groundwater Elevation Measurements	6
2.2	Natural Attenuation Status.....	6
2.3	Groundwater Sampling and Analysis	6
2.4	Analytical Results	6
2.5	Schedule of Upcoming Activities	7
3.0	CONCLUSIONS AND RECOMMENDATIONS	8
3.1	Plume Concentration Status Relative to Environmental Screening Levels	8
3.2	Natural Attenuation Status.....	8
3.3	Conclusions	8
3.4	Recommendations.....	9
4.0	REPORT DISTRIBUTION	10
5.0	REMARKS AND SIGNATURE	11

LIST OF FIGURES

- Figure 1. Vicinity Map
- Figure 2. Site Map
- Figure 3. Groundwater Elevation Map
- Figure 4. Groundwater Analytical Summary

LIST OF TABLES

- Table 1. Groundwater Monitoring and Analytical Results – August 22, 2012
- Table 2. Groundwater Monitoring and Analytical Results – Summary
- Table 3. Natural Attenuation Parameter Field Readings - August 22, 2012
- Table 4. Natural Attenuation Parameter Field Readings - Site Investigation 2011
- Table 5. Natural Attenuation Parameter Analytical Results - Site Investigation 2011

LIST OF CHARTS

- Chart 1. MW-1 TPH-SS, TPH-G, and Groundwater Depth
- Chart 2. MW-2 TPH-SS, TPH-G, and Groundwater Depth
- Chart 3. MW-3 TPH-SS, TPH-G, and Groundwater Depth
- Chart 4. Groundwater Depth MW-1, MW-2 and MW-3

LIST OF APPENDICES

- Appendix A. Field Data Sheets
- Appendix B. Laboratory Analytical Reports

1.0 INTRODUCTION

1.1 Project Description

On behalf of Ms. Paulette Satterley, Taber Consultants has prepared this *2012 Second Semi-Annual Monitoring Report* for submittal to the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) and Alameda County Health Care Services Agency (ACHSA). The scope of work conducted during this project complies with existing SFBRWQCB and ACHSA directive letters.

1.2 Site Location and Description

The former City of Paris Cleaners, located at 3516 Adeline St., Oakland, CA, is a former dry cleaning, laundry and dyeing operation currently owned by Mrs. Debra Runyon. The site location is shown on Figure 1. A site plan is shown on Figure 2. The facility operated as City of Paris Cleaners and Dyers for about 40 years until the 1960's, but cleaning materials and tanks were not completely removed from the site until 1992. The site buildings remained vacant for a number of years following the closure of the dry cleaning operation, and then the owner converted them to residential and light commercial use.

The site lies at the southeastern corner of the intersection of 35th Street and Adeline Street at approximately 30 feet above mean sea level (amsl) in the northwest portion of the City of Oakland, California. The site buildings currently house on-site living quarters and City of Paris Studios, a workshop for art, art restoration, collectibles and hobbies. Mrs. Runyon acquired the property in July 2000.

1.3 Chronological Site History and Subsurface Investigations

In 1987, Frank Champion, the owner at that time, applied for permits to remove Stoddard Solvent storage tanks at the site. Mr. Champion applied for five permits, obtaining permission to remove two 1000-gallon tanks, a 500-gallon tank, a 250-gallon tank and a 150-gallon tank. Underground storage tanks at the site were used to store Stoddard Solvent, the dry cleaning solvent used during operation of the dry cleaning facility until the 1960s when the facility was closed.

On October 4, 1990, Semco Company of San Mateo excavated and reported removing one 750-gallon and two 1,000-gallon underground tanks used to store Stoddard Solvent. Six soil samples were collected in conjunction with the UST removal.

On July 31 and August 1 and 2, 1991, Uriah Inc. (UES) performed a soil vapor survey at the site using photoionization technology (a Photovac TIP I) in an attempt to define the approximate boundaries of soil impacted by Stoddard Solvent. Soil vapors were found to be widely distributed across the site, but due to physical impediments posed by site structures, sidewalks, etc., the full extent of the impacted soil was not defined.

UES contracted W.A. Craig to over excavate the eastern portion of the tank pit on August 30, 1991. Approximately 44 cubic yards were excavated and placed in a cell for on-site bioremediation of the impacted soil. During over excavation, EUS reports that the contractor discovered an additional 250-gallon UST containing "a small volume of liquid" that was stored in a 55-gallon drum on site after removing an aliquot for analysis. This UST was removed and disposed by W. A. Craig on October 31, 1991. An additional 15 cubic yards was over excavated from the tank pit by W.A. Craig on January 27, 1992 and added to the on-site bioremediation cell.

On March 31, 1992, composite samples of the on-site bioremediated soil were analyzed to verify that sufficient hydrocarbon removal had occurred to reuse as fill on the site. No additional soils were excavated due to safety concerns regarding building foundation integrity; however soil samples were collected from the tank pit side walls. ACHCSA approved use of the bioremediated soil as backfill, and W. A. Craig backfilled the tank pit with bioremediated soil and clean fill on April 21, 1992.

On October 29 and 30, 1992, UES supervised on-site installation of ground water monitoring wells. Soils Exploration Services of Vacaville, California, installed three 30-foot monitoring wells. Initial depth to groundwater measurements in the wells ranged from 13 to 14 feet below grade. Beginning November 18, 1992, groundwater samples were analyzed for Total Petroleum Hydrocarbons as Stoddard Solvent (TPH-SS), TPH as diesel (TPH-D), TPH as gasoline (TPH-G), methyl tertiary butyl ether (MTBE), and benzene, toluene, ethyl benzene and total xylenes (BTEX). Samples from all three monitoring wells contained TPH-SS ranging from 630 parts per billion (ppb) in MW-2 to 11,000 ppb in MW-3. TPH-D, TPH-G, MTBE and BTEX concentrations were below laboratory detection limits.

On March 19, 1998, Dugan Associates of San Jose, California (Dugan) advanced six on and off-site soil borings to a total depth of 18 feet below grade. Five of the soil borings were advanced on the north side of 35th Street in the projected downgradient direction from the site (EB-2 through EB-6). One soil boring was advanced on-site to the northwest of the former UST location (EB-1). At each soil boring, Dugan collected a soil sample at 5, 10 and 15 feet below grade and one grab-groundwater sample at 18 feet below grade. The on-site soil boring (EB-1) groundwater sample concentration was 270,000 ppb TPH-SS, with one off-site groundwater sample (EB-5) reporting 780 ppb TPH-SS. Concentrations of analytes for all other groundwater samples from the soil borings were below laboratory detection limits. Soil samples at EB-1 contained 310 and 340 ppb of TPH-SS at 10 and 15 ft. below grade, respectively, and trace amounts of total xylenes and/or toluene.

In September, 1999, ACHSA issued a directive letter which required groundwater analysis for semi-volatile organics (SVOCs) and volatile organics (VOCs) historically associated with dry cleaning operations. In December 1999, using EPA method 625 and 3510, or 8270 and 3550, 1,2-dichlorobenzene (DCB), 1,1-dichloroethane (1,1 DCA), 2-methylnaphthalene and naphthalene were detected in samples from one or more wells. Concentrations of other SVOC and VOC analytes were below laboratory detection limits, including denser than aqueous phase

liquids (DNAPLs, i.e. pentachlorophenol (PCP)). At that time Dugan defined a north-trending groundwater gradient at 0.003 ft./ft.

In their September, 1999 letter, the ACHSA also noted that according to a database search they believed a 97-foot industrial well had been drilled at the site. The well was located southeast of Monitoring Well 3 (Figure 2).

In March 2002, in compliance with an ACHSA directive letter, WellTest, Inc. (formerly Dugan and Associates) redeveloped the three monitoring wells (by purging 10 well-volumes) and sampled the three wells pursuant to quarterly monitoring responsibilities. WellTest, Inc. also sampled the industrial well on-site. The analytical results of the sampling indicated up to 11,000 micrograms per liter ($\mu\text{g/L}$) of TPH-SS in the sample from MW-1, no BTEX above laboratory detection limits, up to 31 $\mu\text{g/L}$ MTBE in the sample from MW-3, 0.61 $\mu\text{g/L}$ DCB in the sample from MW-1, and 130 $\mu\text{g/L}$ Naphthalene in MW-1. The groundwater gradient was also defined to the southeast at 0.14 ft./ft., which appears to be an anomalously steep gradient for this site. This steep gradient may be a result of sediment blocking some or all of the screened section of one or more well. When Dugan redeveloped the wells in 2002, they appear to have adversely impacted the ability of the wells to adjust to changing water levels.

Taber Consultants, formerly Western Resource Management (WRM), assumed environmental consulting responsibilities for the site commencing in June 2007. Taber performed groundwater monitoring at the site for the first and second semi-annual periods of 2009. In response to a query by ACHSA, Taber submitted a well completion report request to the California Department of Water Resources, in which undated well boring logs for a well at the City of Paris Cleaners, at 3516 Adeline Street, indicated a 97-foot industrial well on the site. Taber also found well drilling information for another industrial well drilled in 1927 for the City of Paris Cleaners, drilled to 295 feet. The location of this well is unknown, and the well could have been covered by buildings constructed after the well was taken out of service.

July 28, 2009, ACHCSA advised Responsible Parties that The California State Water Resources Control Board (State Water Board) had approved Resolution No. 2009-0042, which reduced quarterly groundwater monitoring requirements to semiannual or less frequent monitoring at all sites. In 2009, Taber reduced monitoring at the City of Paris Cleaners site to two semi-annual monitoring events at the site in February and August. Corresponding reports were the First Semi-Annual and Second Semi-Annual Monitoring Reports.

In August of 2009 Taber Consultants evaluated using the HydraSleeve[®] no-purge sampling protocol at the site. With verbal authorization from Barbara Jakub of ACHCSA, on March 17, 2010, Taber Consultants implemented ongoing use of the HydraSleeve[®] sampling protocol for all wells at the site.

In March 2011 Taber Consultants resurveyed top of well casings during groundwater monitoring activities. In May 2011 Taber Consultants conducted site investigation activities which included: video well logging to evaluate well screen and casing condition; hydrogeology characterization using cone penetrometer testing (CPT), the GeoProbe[®] hydraulic profiling tool (CPT),

continuous push soil borings; assessing distribution of impacted soil by analyzing soil samples and grab groundwater samples; and assessing site groundwater chemistry by analyzing grab groundwater samples for natural attenuation parameters. The findings of the investigation are detailed in the *Site Investigation Report*, *Human Health Risk Assessment Report*, and *Natural Attenuation Analysis Report* dated February 1, 2012.

1.4 Zimmerman Residence Plume

A source of TPH-G, BTEX and MTBE has been identified at the adjacent property to the south and southeast of the City of Paris site. This site, referred to as the Zimmerman Residence, is located approximately 60 feet to the southwest and up-gradient/cross-gradient of the former City of Paris Cleaners site. The Zimmerman Residence property includes a residential building and a warehouse, and spans the distance from Adeline Street to Chestnut Street to the east.

On February 22, 2000, one 3,750-gallon gasoline UST was removed from the sidewalk between the warehouse building and Chestnut Street. The former UST location is approximately 220 feet southeast of the City of Paris site. Site investigations were conducted at the site in June 2006, October 2007, December 2007 and May 2008.

Soil and groundwater samples from the Zimmerman residence site contained TPH-G, TPH-D and BTEX. Maximum concentrations reported in groundwater samples from soil borings were 120,000 µg/L TPH-G (S-4), 12,000 TPH-D (SB-14), 10,000 µg/L benzene (SB-11), 930 µg/L toluene (pit water), 3,500 µg/L ethyl-benzene (S-4), and 7,900 µg/L xylenes (SB-11), respectively. Grab groundwater samples taken in May 2008 had concentrations of 740 µg/L TPH-G in soil boring SB-27 (east of the industrial well W-IND at the site), 3,600 µg/L TPH-G in soil boring SB-25 (on the southeast corner of the site), and 2,300 µg/L TPH-G in soil boring SB-26 (south of the monitoring wells at the site).

At the Zimmerman site, approximately 1,100 tons of gasoline-impacted soil was removed from the warehouse interior adjacent to Chestnut Street in March 2009. During soil removal, AEI Consultants (AEI), the environmental consultant for this project, reported that while no groundwater was collected from the excavation during excavation activities, a light sheen of free product was seen on the water seeping into the pit during excavation. In March, 2009, AEI injected hydrogen peroxide into the permeable bridge they had installed in the backfill area as a measure to treat the free product and to mitigate plume migration from the source. An injection well was installed in the tank excavation area at the Zimmerman residence in May 2009 to aerate impacted groundwater.

Correspondence from Alameda County dated December 29, 2008, notes that sorbed-phase soil concentrations of petroleum hydrocarbons further than 100 feet from the tank on Chestnut Street indicated an additional source was likely at the site.

Seven groundwater monitoring wells (MW-1 through MW-7) and one injection well (IW-1) are at the Zimmerman Residence site. Groundwater monitoring has been ongoing since April 2009. Based on the *First Semi-Annual Groundwater Monitoring* report dated September 30, 2011 by AEI Consultants Environmental & Engineering Services, elevated TPH-G and benzene

concentrations have been detected in groundwater samples. The highest TPH-G and benzene concentrations indicated in the report were 27,000 µg/L (May 5, 2011 sample from MW-2) and 3,800 µg/L (August 27, 2009 sample from MW-3), respectively.

The closest well to the former City of Paris site is MW-4 located approximately 60 feet southeast. Concentrations in MW-4 groundwater samples collected on May 5, 2011 were 5,900 µg/L TPH-G and 560 µg/L benzene. In April 2012, concentrations in MW-4 were 330 µg/L TPH-G and 23 µg/L benzene.

MTBE concentrations have not been reported here because elevated reporting limits due to sample dilution range from 5 and 1,200 µg/L; resulting in a lack of meaningful data regarding MTBE concentrations in groundwater at the Zimmerman Residence site.

2.0 GROUNDWATER MONITORING ACTIVITIES AND RESULTS

On August 22, 2012, Taber Consultants visited the site to measure water levels and collect groundwater samples from monitoring wells MW-1 through MW-3 and the industrial well W-IND.

2.1 Groundwater Elevation Measurements

Depth-to-groundwater was measured in wells MW-1, MW-2, MW-3 and W-IND using a water level meter capable of measurements to within 0.01 foot. Depth to groundwater was 12.73, 12.02, 12.11, and 12.93 feet below top of casing (BTOC) in MW-1, MW-2, MW-3 and W-IND, respectively. Depth to groundwater data were converted to groundwater elevations referenced to feet above mean sea level (amsl). Corresponding groundwater elevations were 18.57, 19.01, 19.02, and 19.55 feet amsl. Current groundwater depth and elevation data is presented in Table 1 and historic groundwater depth and elevation data trends are presented in Table 2 and Chart 4.

2.2 Natural Attenuation Status

The oxygen concentration in wells MW-1, MW-2, MW-3 and W-IND were 0.7, 0.99, 0.61 and 2.29 mg/l, respectively. The ORP in wells MW-1, MW-2, MW-3 and W-IND were -219.0, -167.9, -167.0 and 55 mV, respectively. These results are tabulated in Table 3. Historical data from the 2011 site investigation natural attenuation field and analytical parameters are included as Tables 4 and 5.

2.3 Groundwater Sampling and Analysis

Following groundwater level measurements, the four wells were sampled in accordance with the HydraSleeve[®] no-purge sampling protocol. The HydraSleeve[®] was lowered into the well, water levels were allowed to equilibrate, and then a representative sample from the groundwater was collected using the HydraSleeve[®] as it was carefully retrieved from the well. Taber Consultants then transferred the sample from the HydraSleeve[®] into the laboratory-supplied containers. The samples were transported in an iced cooler with chain-of-custody documentation to Sparger Technology, Inc. (Sparger), of Rancho Cordova, California, a state certified analytical laboratory (ELAP Certification #1614).

The groundwater samples were analyzed for TPH-SS and TPH-G by EPA Method 8015B; and BTEX and MTBE by EPA Method 8260B.

2.4 Analytical Results

TPH-SS was detected in the groundwater samples from monitoring wells MW-1 and MW-3 at concentrations of 5,000 µg/L and 2,000 µg/L, respectively. TPH-G, which has the laboratory note "Non-typical TPH pattern present in gas range," was detected in the groundwater samples from monitoring wells MW-1, MW-2 and MW-3 at concentrations of 4,500 µg/L, 290 µg/L, and

1,400 µg/L, respectively. MTBE was detected in the groundwater samples from monitoring wells MW-1, MW-2 and MW-3 at concentrations of 5.7 µg/L and 1.2 µg/L, and 20 µg/L, respectively. Xylenes were detected in in the groundwater samples from monitoring well MW-3 at 30 µg/L. No other BTEX compounds were detected at or above the laboratory reporting limits in the monitoring well samples. No analytes were detected at or above the laboratory reporting limits in well W-IND.

Groundwater elevations based on the August 22, 2012, water level measurements in the wells are shown on Figure 3. The Laboratory analytical results are shown on Figure 4 and summarized in Table 1. A historical summary of groundwater elevations and analytical results for the wells is included in Table 2. Trend graphs of concentrations of TPH-SS, TPH-G and groundwater elevations for MW-1, MW-2, and MW-3 are shown on Charts 1, 2 and 3. Graphs of the groundwater elevations in the monitoring wells relative to each other are shown on Chart 4. The field data sheets are included in Appendix A. The laboratory analytical reports and chain-of-custody documentation are included in Appendix B.

2.5 Schedule of Upcoming Activities

An *Additional Site Investigation Work Plan* to investigate the western boundary of the plume and conduct a geophysical study was prepared and submitted to ACHSA in May 2012. A work plan to conduct remediation pilot testing using sulfate injection has been prepared and will be submitted concurrently with this report. The first semi-annual groundwater monitoring event is scheduled for February 2013.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Plume Concentration Status Relative to Environmental Screening Levels

The California Department of Health Services (DHS) and the EPA have established Maximum Contaminant Levels (MCLs) for certain chemicals as part of drinking water standards. The MCLs are numerical limits that are used by the RWQCB as water quality goals. MCLs have not been established for middle distillates like TPH-SS, however there is a taste and odor threshold used for comparison as described below. MCLs have been established for benzene (1 µg/L), toluene (150 µg/L), ethyl-benzene (300 µg/L), xylenes (1,750 µg/L) and MTBE (13 µg/L).

The TPH taste and odor threshold of 100 µg/L is used by the San Francisco Bay RWQCB as an environmental screening level (ESL) for middle distillates. Concentrations of TPH-SS in MW-1, MW-2 and MW-3 groundwater samples exceed the TPH screening level. Historically, the concentrations of TPH-SS at the site have also exceeded the groundwater nuisance and odor concerns screening level of 5,000 µg/L for TPH. MTBE concentrations have historically been below the MCL in groundwater from MW-1 and MW-2 and occasionally above the MCL in MW-3. The concentrations over time have fluctuated seasonally with water elevation.

After 2007 trends in groundwater sample concentrations decreased from high levels of TPH-SS, i.e. 45,000 µg/L TPH-SS in monitoring well MW-1 in December 2007, however TPH-SS concentrations for the last two monitoring events were 5000 µg/L TPH-SS.

3.2 Natural Attenuation Status

During the August 22, 2012, groundwater sampling event, the oxygen concentration, electrical conductivity, oxygen reduction potential (ORP), pH and temperature were monitored (Table 3). Oxygen concentration and ORP are indicators of the rate that microbial degradation can occur in the groundwater at a given oxygen-reduction state (redox state). The industrial well W-IND draws water from further below the subsurface than the monitoring wells, likely mixing with other groundwater slightly increasing the oxygen content in the water and raising the ORP. The redox state of the monitoring wells, however, is strongly influenced by the TPH-SS plume. The TPH-SS plume supplies excessive carbon for reduction relative to available electron acceptors, producing highly reducing conditions in the groundwater.

The oxygen concentration in wells MW-1, MW-2, MW-3 and W-IND were 0.7, 0.99, 0.61 and 2.29 mg/l, respectively. The ORP in wells MW-1, MW-2, MW-3 and W-IND were -219.0, -167.9, -167.0 and 55 mV, respectively.

3.3 Conclusions

The groundwater elevation contours and flow direction for the Second semi-annual 2012 was not assessed because of the close spacing of the monitoring wells at the site and historical results indicating that groundwater flow direction beneath the site is not consistent with other environmental groundwater monitoring sites in the general area. Based on monitoring results of

wells in the upper groundwater zone at four nearby UST release sites, groundwater in the area flows west-southwest. Three of the sites are to the east and up-gradient of the subject site; Shell Gas Station at 3420 San Pablo Avenue, Thrifty Gas Station at 3400 San Pablo Avenue, and the Zimmerman Residence at 3442 Adeline Street (closest and adjacent to the site). The fourth site is to the north-northwest and cross-gradient to up-gradient of the subject site; Ambassador Laundry at 3623 Adeline Street.

During 2011 site investigation activities Taber Consultants analyzed the natural attenuation potential at the site using analytical field parameters (chemical electron acceptors) and field parameters (oxygen and electrical conductivity probes) which are included in Tables 4 and 5. These results were reported in Taber Consultants' February 1, 2012 *Natural Attenuation Analysis*. These results indicated that the groundwater condition at the site was strongly reducing, electron acceptors were depleted within the plume, and that natural attenuation by microbial degradation has been impaired at the site.

As noted in the *Natural Attenuation Analysis* report, this redox state suggests that electron acceptors oxygen, nitrate, manganese and iron are depleted and poorly available. At this redox state the system favors sulfate and carbon dioxide reduction. However, as observed during the 2011 site investigation, sulfate was depleted in monitoring wells MW-1 and MW-3, the wells with historically high TPH-SS concentrations. This leaves carbon dioxide as the predominant electron acceptor. In this redox state, methanogenesis is predominant, causing natural attenuation via microbial degradation to proceed very slowly.

During the May 2011 Site Investigation, the boundaries of the TPH-SS plume were reasonably defined to the east, north and south, however the non-detect boundary on the western edge of the site was not defined. Taber Consultants prepared a work plan in May 2012 to advance four additional borings in the Adeline Street area east of the source area to determine the western plume boundary as directed in the ACHSA directive dated April 10, 2012.

3.4 Recommendations

The redox state of the groundwater at the site indicates that the TPH-SS concentrations within the plume will attenuate very slowly due to depleted concentrations of electron acceptors. Taber Consultants recommends performing a remedial action pilot test at the site using sulfate injection to reduce TPH-SS concentrations through enhanced natural attenuation. Taber Consultants has prepared this pilot test work plan for interim remedial activity as directed in the ACHSA directive dated April 10, 2012. The pilot test work plan will be submitted concurrently with this report.

4.0 REPORT DISTRIBUTION

Ms. Paulette Satterley
14601 Guadalupe Drive
Rancho Murieta, CA 95683

Paula Champion-Braig
280 Mountain Ave.
Piedmont, Ca. 94611-3506

Ms. Barbara Jakub
Alameda County Health Care Services Agency
1131 Harbor Parkway, Suite 250
Alameda CA, 94502

Ms. Cherie McCaulou
San Francisco Bay Regional Water Quality Control Board
1515 Clay St., Suite 1400
Oakland, CA 94612

5.0 REMARKS AND SIGNATURE


The interpretations and/or conclusions contained in this report represent our professional opinions and are based in part on information supplied by the client. These opinions are based on currently available information and were developed in accordance with currently accepted geologic, hydrogeologic, and engineering practices in Alameda County, California in 2012. Other than this, no warranty is implied or intended.

This report has been prepared solely for the use of Ms. Paulette Satterley. Any reliance on this report by third parties shall be at such parties' sole risk. The work described herein was performed under the direct supervision of the professional geologist, registered with the State of California, whose signature appears below.

We appreciate the opportunity to provide you with geologic, engineering and environmental consulting services and trust this report meets your needs. If you have any questions or concerns, please call us at (916) 371-1690.

Sincerely,

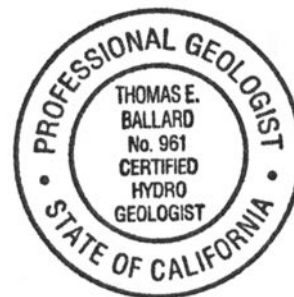
Taber Consultants



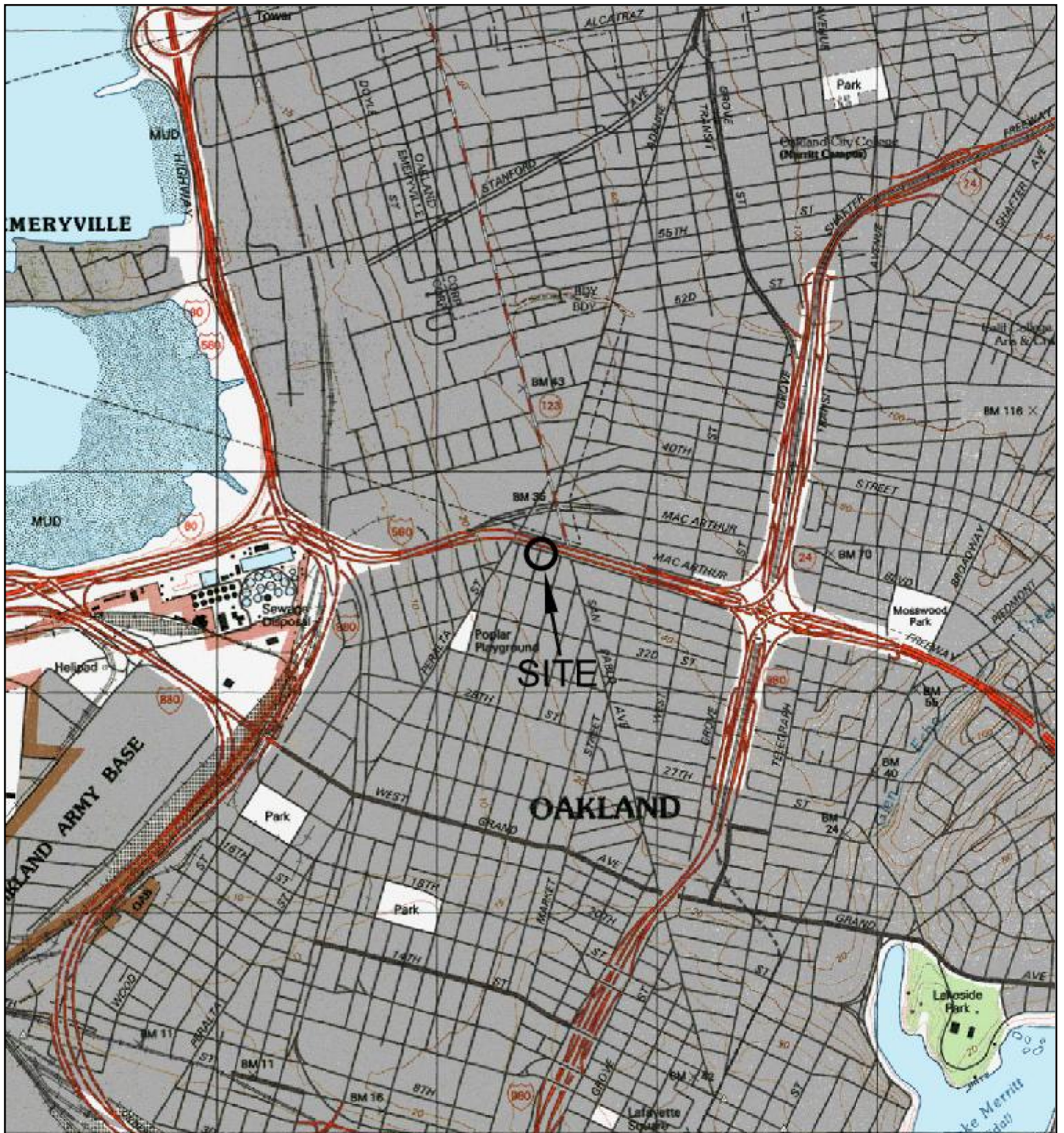
Ellen Pyatt, MSc.
Project Geologist



Thomas E. Ballard, P.G. #7299, C.H.G. #961
Principal Hydrogeologist



FIGURES



Scale: 1:24,000

Source:
**USGS West Oakland
 Quadrangle Topographic Map
 Report, 7.5 Minute Series
 (topographic), dated 1993**

Taber
 Since 1954

Taber Consultants
 Engineers and Geologists
 3911 West Capitol Avenue
 West Sacramento, CA 95691-2116
 916.371.1690 Fax 916.371.7265
 www.taberconsultants.com

Former City of Paris Cleaners

3516 Adeline Street
 Oakland, California

Vicinity Map

2011-0107

September 2012

Figure 1

EB-2



EB-3



EB-4



EB-5

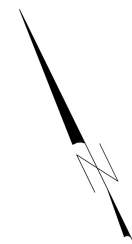
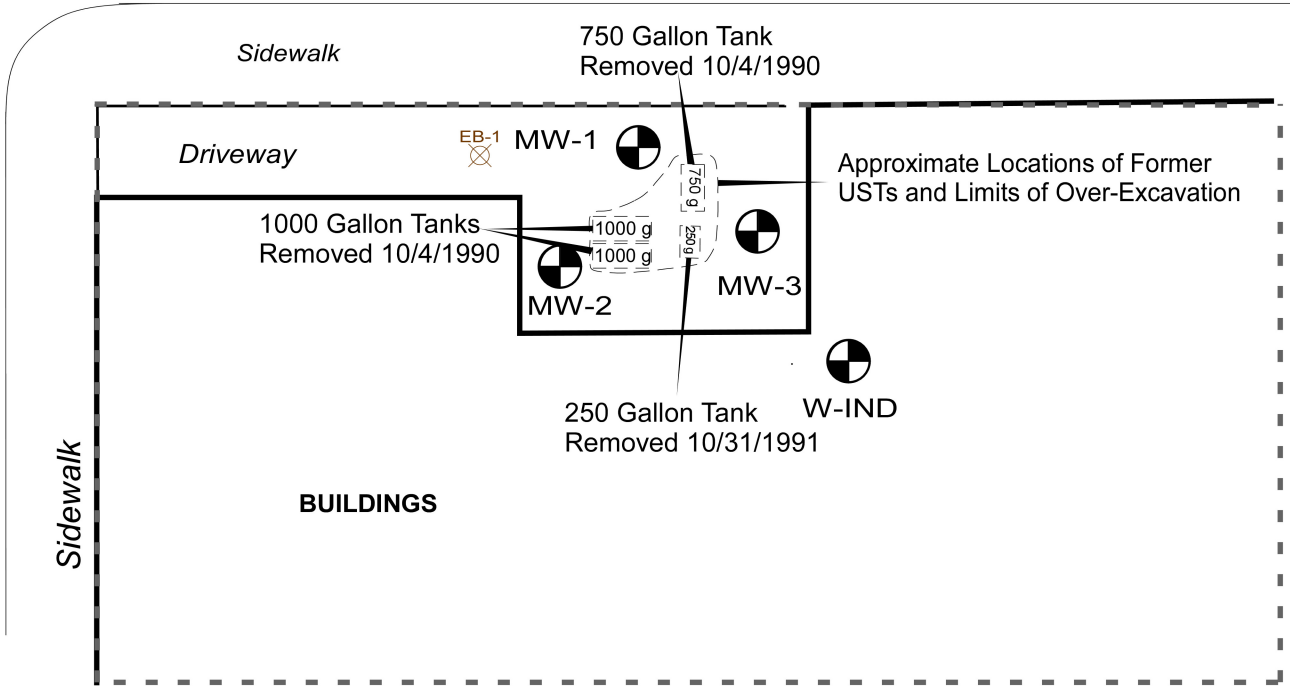


EB-6



35TH STREET

ADELINE STREET



0 10 20

Approximate Scale in Feet
1 inch = 20 feet

LEGEND



EB-1 Soil Boring (1998)



MW-2 Groundwater Monitoring Well

W-IND Industrial Well



Approximate Locations Former Underground Storage Tanks



Approximate Site Boundary
(Assessor's Parcel Number 5-478-23)

Taber
Since 1954

**Taber Consultants
Engineers and Geologists**
3911 West Capitol Avenue
West Sacramento, CA 95691-2116
916.371.1690 Fax 916.371.7265
www.taberconsultants.com

Former City of Paris Cleaners

3516 Adeline Street
Oakland, California

Site Map

2011-0107

September 2012

Figure 2

EB-2



EB-3



EB-4



EB-5

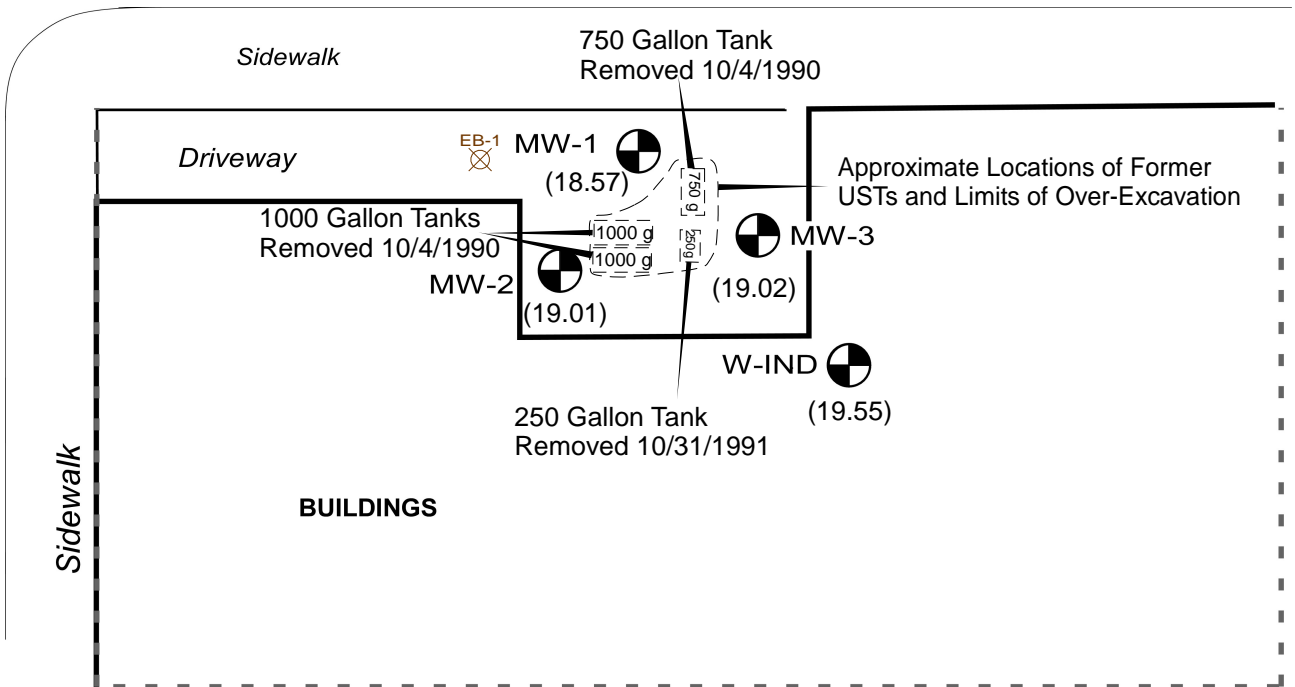


EB-6






35TH STREET

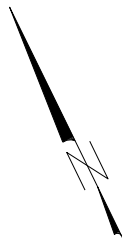
ADELINE STREET



LEGEND

-  MW-2 Groundwater Monitoring Well
-  W-IND Industrial Well
-  - - - - - Approximate Site Boundary (Assessor's Parcel Number 5-478-23)
- (20.14) Groundwater Elevation In Feet Above Mean Sea Level

Groundwater Monitoring Data from August 22, 2012



Approximate Scale in Feet
1 inch = 20 feet

Taber
Since 1954

**Taber Consultants
Engineers and Geologists**
3911 West Capitol Avenue
West Sacramento, CA 95691-2116
916.371.1690 Fax 916.371.7265
www.taberconsultants.com

Former City of Paris Cleaners

3516 Adeline Street
Oakland, California

Groundwater Elevation Map

2011-0107

September 2012

Figure 3

EB-2
⊗

EB-3
⊗

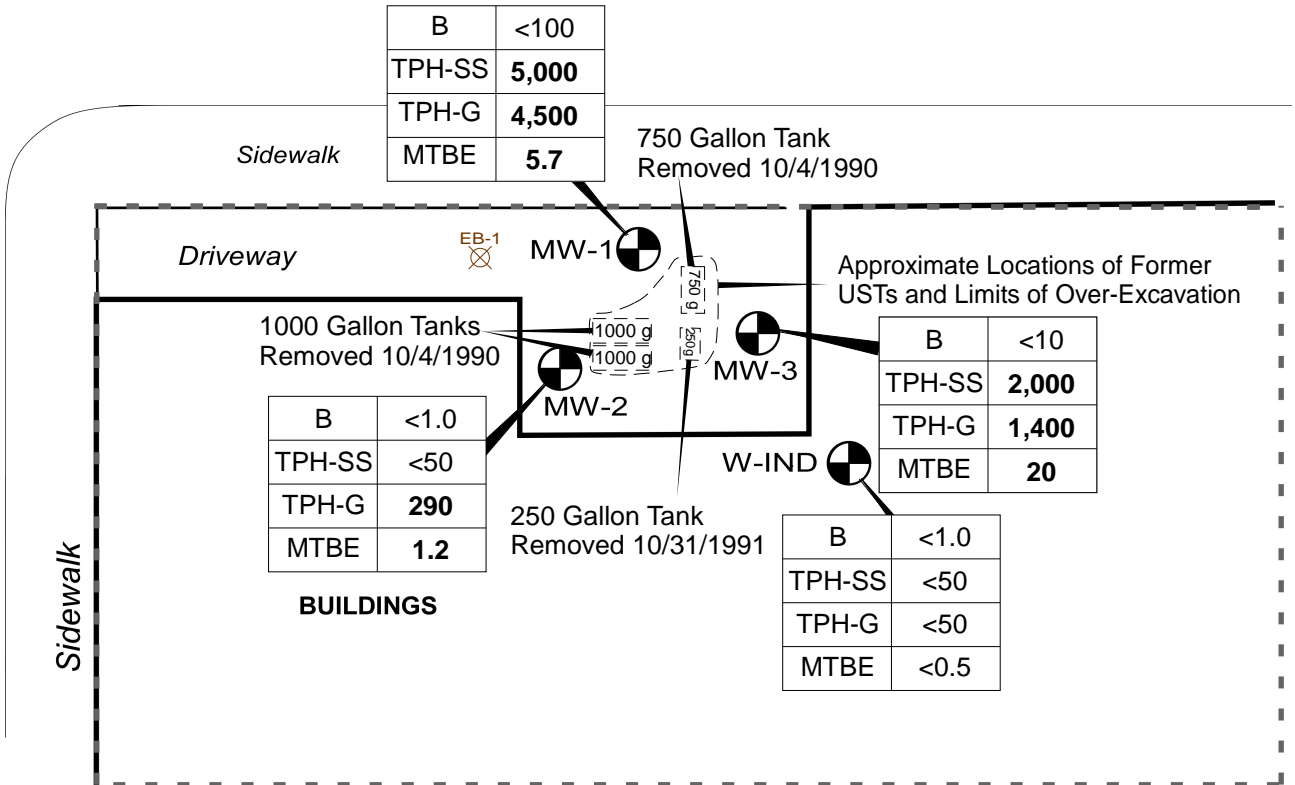
EB-4
⊗

EB-5
⊗




EB-6
⊗

35TH STREET

ADELINE STREET

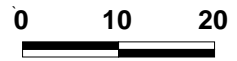
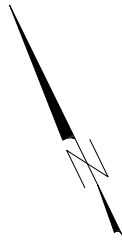


LEGEND


-  MW-2 Groundwater Monitoring Well
-  W-IND Industrial Well
-  Approximate Site Boundary (Assessor's Parcel Number 5-478-23)

B	<1.0	Benzene in micrograms per liter (µg/l)
TPH-SS	<50	Total petroleum hydrocarbon as Stoddard Solvent in µg/l
TPH-G	<50	Total petroleum hydrocarbons as gasoline in µg/l
MTBE	<0.5	Methyl tertiary-butyl ether in µg/l

Groundwater Monitoring Data from August 22, 2012



Approximate Scale in Feet
1 inch = 20 feet

 <p>Taber Since 1954</p>		<p>Taber Consultants Engineers and Geologists 3911 West Capitol Avenue West Sacramento, CA 95691-2116 916.371.1690 Fax 916.371.7265 www.taberconsultants.com</p>	
		<p>Former City of Paris Cleaners</p>	
<p>3516 Adeline Street Oakland, California</p>			
<p>Groundwater Analytical Summary</p>			
2011-0107	September 2012	Figure 4	

TABLES

TABLE 1
2012 SECOND SEMI-ANNUAL
GROUNDWATER ELEVATION AND ANALYTICAL RESULTS

City of Paris Cleaners
3516 Adeline Street, Oakland, California 94608

Well ID	Date	Elevation Summary			Analytical Summary						
		Top of Casing Elevation (feet amsl)	Depth to Water (feet BTOC)	Groundwater Elevation (feet amsl)	TPH-SS	TPH-G	Benzene	Toluene (ug/l)	Ethyl benzene	Xylenes	MTBE
MW-1	08/22/12	31.30	12.73	18.57	5000	4500	<100	<100	<100	<100	5.7
MW-2	08/22/12	31.03	12.02	19.01	<50	290	<1.0	<1.0	<1.0	<1.0	1.2
MW-3	08/22/12	31.13	12.11	19.02	2000	1400	<10	<10	<10	30	20
W-IND	08/22/12	32.48	12.93	19.55	<50	<50	<1.0	<1.0	<1.0	<1.0	<0.50

Explanation:

TPH-G = Total petroleum hydrocarbons as gasoline, analyzed by EPA Method 8015B.
TPH-SS = Total petroleum hydrocarbons as stoddard solvent, analyzed by the 8015B.
Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B.
MTBE = Methyl tertiary-butyl ether, analyzed by EPA Method 8260B.

amsl = Above mean sea level.
BTOC = Below top of casing.

ug/l = Micrograms per liter.
<1.0 = Not detected at or above indicated laboratory reporting limit.

On March 17, 2010, Taber Consultants implemented the HydraSleeve® no purge protocol for all wells.
On March 23, 2011, Taber Consultants resurveyed top of casing elevations for all wells.

**TABLE 2
GROUNDWATER ELEVATION AND ANALYTICAL RESULTS
SUMMARY**

City of Paris Cleaners
3516 Adeline Street, Oakland, California 94608

		Elevation Summary			Analytical Summary										
Well ID	Date	Top of Casing Elevation (feet amsl)	Depth to Water (BTOC)	Groundwater Elevation (feet amsl)	TPH-SS	TPH-G	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	1,2-DCB	1,1-DCA	2-Methyl-Naphthalene	Naphthalene
Groundwater Sample Locations															
EB1-18	03/19/98	18' bgs	Groundwater	Grab Sample	270000	--	<5.0	93	66	1700	<100	--	--	--	--
EB2-18	03/19/98	18' bgs	Groundwater	Grab Sample	<1.0	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
EB3-18	03/19/98	18' bgs	Groundwater	Grab Sample	<1.0	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
EB4-18	03/19/98	18' bgs	Groundwater	Grab Sample	<1.0	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
EB5-18	03/19/98	18' bgs	Groundwater	Grab Sample	780	--	<0.5	<0.5	<0.5	2	<5.0	--	--	--	--
EB6-18	03/19/98	18' bgs	Groundwater	Grab Sample	<1.0	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
MW-1	11/18/92	17.44	13.99	3.45	1800	NA	<0.5	<0.5	<0.5	<0.5	NA	--	--	--	--
MW-1	11/4/1993	17.44	16.79	0.65	2000	<50	<0.5	<0.5	<0.5	<0.5	NA	--	--	--	--
MW-1	3/8/1994	17.44	14.14	3.3	150	NA	35	40	72	120	NA	--	--	--	--
MW-1	8/2/1994	17.44	13.18	4.26	2100	<50	<0.5	<0.5	<0.5	<0.5	NA	--	--	--	--
MW-1	2/8/1995	17.44	10.92	6.52	620	<50	<0.5	<0.5	<0.5	<0.5	NA	--	--	--	--
MW-1**	7/8/1996	17.44	11.62	5.82	37000	110000	1.6	<0.5	<0.5	74	7.9	--	--	--	--
MW-1	10/9/1996	17.44	14.11	3.33	42000	NA	<0.5	5	<0.5	<0.5	NA	--	--	--	--
MW-1	3/18/1997	17.44	12.37	5.07	2600	NA	<0.5	1.5	1.5	9.6	<6.0	--	--	--	--
MW-1	6/19/1997	17.44	13.26	4.18	660	NA	<0.5	<0.5	1.2	0.71	<5.0	--	--	--	--
MW-1	11/14/1997	17.44	11.45	5.99	10000	NA	<0.5	<0.5	110	1.2	<5.0	--	--	--	--
MW-1	12/15/1999	17.44	11.31	6.13	<20	<50	<0.5	<0.5	<0.5	<0.5	NA	<0.5	0.59	<0.5	<0.5
MW-1	03/22/02	17.44	8.97	8.47	11000	--	--	--	--	--	<5.0	--	--	--	130
MW-1	04/15/03	17.44	9.23	8.21	3900	--	<2.5	<2.5	<2.5	3	9	--	--	--	--
MW-1	03/26/04	17.44	10.32	7.12	30000	24000	<50	<50	<50	<50	<500	--	--	--	--
MW-1	09/30/04	17.44	11.53	5.91	3800	2600	<0.5	<0.5	<0.5	2.7	<5	--	--	--	--
MW-1	09/09/05	17.44	13.63	3.81	15000	11000	c	<5	<5	15	<50	--	--	--	--
MW-1	11/30/07	17.44	13.95	3.49	--	--	--	--	--	--	--	--	--	--	--
MW-1	12/20/07	17.44	11.51	5.93	45000	110000	20	50	20	100	<5	--	--	--	--
MW-1	05/23/08	17.44	14.14	3.3	4200	<500	<1	<1	<1	20	<0.50	--	--	--	--
MW-1	08/12/08	17.44	13.78	3.66	4000	12000	<1	<1	<1	<1	<0.50	--	--	--	--
MW-1	12/18/08	17.44	10.71	6.73	9900	2700	<1	<1	<1	<1	<0.50	--	--	--	--
MW-1	02/19/09	17.44	8.91	8.53	500	3100	<10	<10	<10	<10	<5	--	--	--	--
MW-1	08/11/09	17.44	13.35	4.09	13000	7800	<10	<10	<10	<10	5.9	--	--	--	--

**TABLE 2
GROUNDWATER ELEVATION AND ANALYTICAL RESULTS
SUMMARY**

City of Paris Cleaners
3516 Adeline Street, Oakland, California 94608

		Elevation Summary			Analytical Summary										
Well ID	Date	Top of	Depth to	Groundwater	TPH-SS	TPH-G	Benzene	Toluene	Ethyl	Xylenes	MTBE	1,2-DCB	1,1-DCA	2-Methyl-	Naphthalene
		Casing													
		Elevation	BTOC)	(feet amsl)											
		(feet amsl)													
MW-1 NP	08/11/09	17.44	13.35	4.09	6000	10000	<10	<10	<10	<10	<5	--	--	--	--
MW-1	03/17/10	17.44	9.31	8.13	4000	12000	<20	<20	<20	20	<10	--	--	--	--
MW-1	08/18/10	17.44	12.65	4.79	2000	6900	<100	<100	<100	<100	<50	--	--	--	--
MW-1	03/23/11	31.30	6.75	24.55	8800	8100	<10	<10	<10	<10	<5	--	--	--	--
MW-1 ^a	08/25/11	31.30	11.35	19.95	2100	7200	<1	<1	<1	<1	2.1	--	--	--	--
MW-1	02/22/12	31.30	11.35	19.95	5000	4200	<100	<100	<100	<100	<50	--	--	--	--
MW-1	08/22/12	31.30	12.73	18.57	5000	4500	<10	<10	<10	<10	5.7	--	--	--	--
MW-2	11/18/92	17.31	13.18	4.13	630	NA	<0.5	<0.5	<0.5	<0.5	NA	--	--	--	--
MW-2	11/04/93	17.31	14.84	2.47	3200	<50	<0.5	<0.5	<0.5	<0.5	NA	--	--	--	--
MW-2	03/08/94	17.31	11.5	5.81	45	NA	1.4	2	11	19	NA	--	--	--	--
MW-2	08/02/94	17.31	13.14	4.17	170	<50	<0.5	<0.5	<0.5	<0.5	NA	--	--	--	--
MW-2	02/08/95	17.31	8.18	9.13	570	<50	<0.5	<0.5	<0.5	<0.5	NA	--	--	--	--
MW-2**	07/08/96	17.31	11.06	6.25	1800	2800	<0.5	2.6	15	24	6.3	--	--	--	--
MW-2	10/09/96	17.31	12.38	4.93	4100	NA	<0.5	0.57	<0.5	<0.5	NA	--	--	--	--
MW-2	03/18/97	17.31	10.61	6.7	240	<0.5	0.57	<0.5	<0.5	5.3	NA	--	--	--	--
MW-2	06/19/97	17.31	11.68	5.63	2500	NA	<0.5	<0.5	9.1	<0.5	<5.0	--	--	--	--
MW-2	11/14/97	17.31	10.61	6.7	130	NA	<0.5	<0.5	0.9	1.2	<5.0	--	--	--	--
MW-2	12/15/99	17.31	10.97	6.34	<20	<50	<0.5	<0.5	<0.5	<0.5	NA	<0.5	0.53	<0.5	49
MW-2	03/22/02	17.31	8.82	8.49	170	13000	410	1000	210	1100	<5.0	--	--	--	<10
MW-2	04/15/03	17.31	8.52	8.79	99	--	<0.5	<0.5	<0.5	0.76	10	--	--	--	--
MW-2	03/26/04	17.31	9.32	7.99	120	93	<0.5	<0.5	<0.5	0.76	5.4	--	--	--	--
MW-2	09/30/04	17.31	11.62	5.69	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	--	--	--	--
MW-2	09/09/05	17.31	12.75	4.56	120	98	<0.5	<0.5	<0.5	<0.5	<5	--	--	--	--
MW-2	11/30/07	17.31	11.06	6.25	--	--	--	--	--	--	--	--	--	--	--
MW-2	12/20/07	17.31	9.95	7.36	<50	3000	<1	1.6	<1	2.4	2.9	--	--	--	--
MW-2	05/23/08	17.31	12.46	4.85	300	1100	<1	<1	<1	<1	3.5	--	--	--	--
MW-2	08/12/08	17.31	12.08	5.23	2200	350	<1	<1	<1	<1	<0.50	--	--	--	--
MW-2	12/18/08	17.31	10.58	6.73	300	<50	<1	<1	<1	<1	7.3	--	--	--	--
MW-2	02/19/09	17.31	8.22	9.09	300	300	<1	<1	<1	<1	3.4	--	--	--	--
MW-2	08/11/09	17.31	13.00	4.31	600	610	<1	<1	<1	<1	3.8	--	--	--	--
MW-2	03/17/10	17.31	8.95	8.36	<50	<50	<1	<1	<1	<1	1.8	--	--	--	--
MW-2	08/18/10	17.31	12.15	5.16	<50.0	70	<1.0	<1.0	<1.0	<1.0	2.4	--	--	--	--
MW-2	03/23/11	31.03	6.22	24.81	200	<50	<1.0	<1.0	<1.0	<1.0	3.6	--	--	--	--

**TABLE 2
GROUNDWATER ELEVATION AND ANALYTICAL RESULTS
SUMMARY**

City of Paris Cleaners
3516 Adeline Street, Oakland, California 94608

		Elevation Summary			Analytical Summary										
Well ID	Date	Top of	Depth to	Groundwater	TPH-SS	TPH-G	Benzene	Toluene	Ethyl	Xylenes	MTBE	1,2-DCB	1,1-DCA	2-Methyl-	Naphthalene
		Casing													
		Elevation	BTOC)	(feet amsl)											
		(feet amsl)		(feet amsl)											
MW-2	08/25/11	31.03	11.06	19.97	<50	<50	<1.0	<1.0	<1.0	<1.0	1.5	--	--	--	--
MW-2	02/22/12	31.03	10.61	20.42	400	250	<1.0	<1.0	<1.0	<1.0	<0.50	--	--	--	--
MW-2	08/22/12	31.03	12.02	19.01	<50	290	<1.0	<1.0	<1.0	<1.0	1.2	--	--	--	--
MW-3	11/18/92	17.44	13.93	3.51	11000	NA	<0.5	<0.5	<0.5	<0.5	NA	--	--	--	--
MW-3	11/04/93	17.44	15.16	2.28	320	<50	<0.5	<0.5	<0.5	<0.5	NA	--	--	--	--
MW-3	03/08/94	17.44	13.43	4.01	45	NA	0.8	0.9	5	10	NA	--	--	--	--
MW-3	08/02/94	17.44	12.82	4.62	<20	<50	<0.5	<0.5	<0.5	<0.5	NA	--	--	--	--
MW-3	02/08/95	17.44	7.62	9.82	<20	<50	<0.5	<0.5	<0.5	<0.5	NA	--	--	--	--
MW-3**	07/08/96	17.44	10.97	6.47	2500	2200	1	<0.5	8.8	8	10	--	--	--	--
MW-3	10/09/96	17.44	11.84	5.6	2600	NA	<0.5	<0.5	<0.5	<0.5	NA	--	--	--	--
MW-3	03/18/97	17.44	10.16	7.28	2500	NA	<0.5	0.61	0.63	5.2	NA	--	--	--	--
MW-3	06/19/97	17.44	11.40	6.04	21000	NA	<0.5	<0.5	11	<0.5	<5.0	--	--	--	--
MW-3	11/14/97	17.44	10.71	6.73	1,400	NA	<0.5	<0.5	28	28	<5.0	--	--	--	--
MW-3	12/15/99	17.44	10.96	6.48	<20	<50	<0.5	<0.5	<0.5	<0.5	NA	0.87	0.57	25	88
MW-3	03/22/02	17.44	10.97	6.47	420	<50	<0.5	<0.5	<0.5	<0.5	31	--	--	--	<50
MW-3	04/15/03	17.44	8.31	9.13	2700	--	<0.5	<0.5	<0.5	<0.5	40	--	--	--	--
MW-3	03/26/04	17.44	8.61	8.83	2700	1900	<1.7	<1.7	<1.7	4.3	<17	--	--	--	--
MW-3	09/30/04	17.44	11.1	6.34	3900	2600	<0.5	<0.5	<0.5	3.2	<10	--	--	--	--
MW-3	09/09/05	17.44	13.75	3.69	4000	2600	<0.5	<0.5	0.57	2.7	12	--	--	--	--
MW-3	11/30/07	17.44	13.9	3.54	--	--	--	--	--	--	--	--	--	--	--
MW-3	12/20/07	17.44	10.79	6.65	18000	12000	<1	1.6	1.1	2.4	9.2	--	--	--	--
MW-3	05/23/08	17.44	15.2	2.24	900	3000	<1	<1	<1	<1	9.1	--	--	--	--
MW-3	08/12/08	17.44	14.14	3.3	1900	4300	<1	<1	<1	<1	6.5	--	--	--	--
MW-3	12/18/08	17.44	12.53	4.91	5000	610	<1	1	<1	<1	20	--	--	--	--
MW-3	02/19/09	17.44	11.11	6.33	1500	1300	<1	1	<1	<1	9	--	--	--	--
MW-3	08/11/09	17.44	15.22	2.22	1000	2200	<10	<10	<10	<10	7.3	--	--	--	--
MW-3 NP	08/11/09	17.44	15.22	2.22	3000	6700	<10	<10	<10	<10	<5	--	--	--	--
MW-3	03/17/10	17.44	11.94	5.5	3000	4600	<10	<10	<10	<10	9.4	--	--	--	--
MW-3	08/18/10	17.44	12.86	4.58	1000	3500	<50	<50	<50	<50	<25	--	--	--	--
MW-3 ^a	03/23/11	31.13	3.58	27.55	500	<50	<1.0	<1.0	<1.0	<1.0	<0.50	--	--	--	--
MW-3	08/25/11	31.13	11.85	19.28	<50	2300	<1.0	<1.0	<1.0	<1.0	4.5	--	--	--	--
MW-3	02/22/12	31.13	10.84	20.29	2000	1900	<10	<10	<10	<10	<5.0	--	--	--	--
MW-3	08/22/12	31.13	12.11	19.02	2000	1400	<10	<10	<10	30	20	--	--	--	--

**TABLE 2
GROUNDWATER ELEVATION AND ANALYTICAL RESULTS
SUMMARY**

City of Paris Cleaners
3516 Adeline Street, Oakland, California 94608

Well ID	Date	Elevation Summary			Analytical Summary										
		Top of Casing Elevation (feet amsl)	Depth to Water BTOC)	Groundwater Elevation (feet amsl)	TPH-SS	TPH-G	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE (ug/l)	1,2-DCB	1,1-DCA	2-Methyl-Naphthalene	Naphthalene
W-IND	03/22/02	NA	--	--	<50	190	<0.5	<0.5	<0.5	0.8	<5.0	--	--	--	--
W-IND	04/15/03	NA	--	--	--	--	--	--	--	--	--	--	--	--	--
W-IND	03/26/04	NA	--	--	500	200	<0.5	<0.5	<0.5	<0.5	<5	--	--	--	--
W-IND	09/30/04	NA	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	--	--	--	--
W-IND	09/09/05	NA	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	--	--	--	--
W-IND	11/30/07	NA	12.92	--	--	--	--	--	--	--	--	--	--	--	--
W-IND	12/20/07	NA	11.68	--	<50	500	<1	1	<1	2.2	<.50	--	--	--	--
W-IND	05/23/08	NA	12.72	--	300	250	<1	3.7	<1	2.4	<0.50	--	--	--	--
W-IND	08/12/08	NA	13.42	--	<50	<50.0	<1	<1	<1	<1	<0.50	--	--	--	--
W-IND	12/18/08	NA	12.65	--	<50	<50	<1	<1	<1	<1	0.7	--	--	--	--
W-IND	02/19/09	NA	9.74	--	<50	<50	<1	<1	<1	<1	<0.5	--	--	--	--
W-IND	08/11/09	NA	14.13	--	<50	<50	<1	<1	<1	<1	<0.5	--	--	--	--
W-IND	03/17/10	NA	9.78	--	<50	<50	<1	<1	<1	<1	<0.5	--	--	--	--
W-IND	08/18/10	NA	12.84	--	<50	<50	<1.0	<1.0	<1.0	<1.0	<0.50	--	--	--	--
W-IND	03/23/11	32.48	8.32	24.16	<50	<50	<1.0	<1.0	<1.0	<1.0	<0.50	--	--	--	--
W-IND	08/25/11	32.48	12.34	20.14	<50	<50	<1.0	<1.0	<1.0	<1.0	<0.50	--	--	--	--
W-IND	02/22/12	32.48	11.84	20.64	<50	<50	<1.0	<1.0	<1.0	<1.0	<0.50	--	--	--	--
W-IND	08/22/12	32.48	12.93	19.55	<50	<50	<1.0	<1.0	<1.0	<1.0	<0.50	--	--	--	--

Explanation:

TPH-G = Total petroleum hydrocarbons as gasoline, analyzed by EPA Method 8015B.
 TPH-SS = Total petroleum hydrocarbons as stoddard solvent, analyzed by the 8015B.
 Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B.
 MTBE = Methyl tertiary-butyl ether, analyzed by EPA Method 8260B.

amsl = Above mean sea level.
 BTOC = Below top of casing.
 -- = not analyzed

ug/l - Micrograms per liter.
 <1.0 = Not detected at or above indicated laboratory reporting limit.

NA = Data not available

•• Components found in the gasoline range, however they are not characteristic of gasoline components.

NP = HydraSleeve® no purge protocol

On March 17, 2010, Taber Consultants implemented the HydraSleeve® no purge protocol for all wells.

On March 23, 2011, Taber Consultants resurveyed top of casing elevations for all wells.

MW-3^a During the 3/23/11 monitoring event, Taber Consultants replaced a damaged well cap. See First Semiannual Monitoring Report 2011 for discussion.

TABLE 3
NATURAL ATTENUATION PARAMETER FIELD READINGS
August 22, 2012
City of Paris Cleaners
3516 Adeline Street, Oakland, California 94608

Well ID	Sample Date	Dissolved Oxygen (DO) (%)	Dissolved Oxygen (DO) (mg/l)	Oxygen Reduction Potential (ORP) (mV)	pH	Electrical Conductivity (EC) (uS/cm)	Temperature (° C)
MW-1	08/22/12	7.3	0.7	-219.0	6.42	1365	17.53
MW-2	08/22/12	10.6	0.99	-167.9	6.37	1380	17.13
MW-3	08/22/12	6.5	0.61	-167.0	6.42	1372	17.04
W-IND	08/22/12	23.6	2.29	55.5	6.34	841	16.82

TABLE 4
NATURAL ATTENUATION PARAMETER FIELD READINGS
SITE INVESTIGATION 2011

Former City of Paris Cleaners
3516 Adeline St, Oakland, CA 94608

Sample Location	Sample Identification	Sample Date	Dissolved	Dissolved	Oxygen	pH	Electrical	Temperature
			Oxygen (DO)	Oxygen (DO)	Reduction Potential (ORP)		Conductivity (EC)	
			(%)	(mg/l)	(mV)			(° C)
Upper (Shallow) Groundwater Zone								
GP-3	GP-3-15	5/6/2011	99.7	8.7	27.9	6.65	1195	21.06
GP-4	GP-4-15	5/6/2011	73.9	6.59	-124.6	7.08	1017	20.34
GP-8	GP-8-15	5/12/2011	3.4	0.33	-176.5	7.84	1380	21.40
GP-9	GP-9-15	5/12/2011	2.2	0.24	-144.2	7.44	1299	23.20
GP-11	GP-11-15	5/13/2011	27.5	3.18	-91.4	7.93	960	22.30
MW-1	MW-1	5/12/2011	11.4	1.36	-202.6	7.21	1831	15.40
MW-2	MW-2	5/12/2011	23.4	2.83	-116.7	5.54	1857	15.90
MW-3	MW-3	5/12/2011	12.7	1.56	-202.7	7.27	667	15.70
Lower (Deeper) Groundwater Zone								
GP-1	GP-1	5/2/011	60.2	6.29	75.1	6.14	1069	21.00
GP-2	GP-2	5/2/011	35.4	3.29	-165.7	6.98	774	22.07
GP-3	GP-3-35	5/6/2011	39.6	3.6	-57.0	6.19	814	20.23
GP-4	GP-4-35	5/6/2011	42.7	3.86	38.0	7.21	699	18.94
GP-5	GP-5	5/5/2011	28.3	2.38	-281.5	8.20	956	23.70
GP-8	GP-8-35	5/12/2011	8.5	0.99	-108.3	6.91	1068	20.90
GP-9	GP-9-35	5/12/2011	20.6	1.43	-91.4	6.38	938	20.90
GP-11	GP-11-35	5/13/2011	19.9	2.21	-107.1	7.56	924	23.90
W-IND	W-IND	5/12/2011	50.6	6.45	18.1	7.04	1077	15.80

Explanation:

% = percent

mg/l = milligrams per liter.

mV = milli-volts.

uS/cm = microSiemens per centimeter.

Siemens (S) is a unit of the electrical conductivity. The conductivity of water is measured within a certain distance thus the input is in S/cm or uS/cm.

(°C) = Celcius

TABLE 5
NATURAL ATTENUATION PARAMETER ANALYTICAL RESULTS
SITE INVESTIGATION 2011
Former City of Paris Cleaners
3516 Adeline St, Oakland, CA 94608

Sample Location	Sample Identification	Sample Date	Carbon Dioxide	Phosphorus	Total Kjeldahl Nitrogen	Alkalinity as CaCO ₃	Sulfate	Nitrate	Ferrous Iron	Ferric Iron	Manganese (II)	Ethane	Ethene	Sulfide	Methane
Upper (Shallow) Groundwater Zone															
GP-3	GP-3-15	5/6/2011	83	0.315	0.870	312	185	25.0	<0.025	1.4	6.24	<0.01	<0.01	<0.5	0.035
GP-4	GP-4-15	5/6/2011	94	0.293	1.830	379	6.82	<0.05	<0.025	29.0	5.55	<0.01	<0.01	<0.5	0.047
GP-8	GP-8-15	5/12/2011	65	0.422	0.793	517	17	<0.05	<0.025	9.7	3.40	0.022	0.02	<0.5	0.068
GP-9	GP-9-15	5/12/2011	130	0.386	1.910	400	16	<0.05	<0.025	6.9	1.64	0.038	0.02	<0.5	0.081
GP-11	GP-11-15	5/13/2011	89	0.103	0.793	220	126.0	36.0	<0.025	3.4	1.89	0.022	0.02	<0.5	0.045
MW-1	MW-1	5/12/2011	94	0.938	1.720	750	<1.0	<0.05	<0.025	18.0	1.12	<0.01	<0.01	<0.5	0.058
MW-2	MW-2	5/12/2011	64	0.115	0.265	666	81	130.0	<0.025	0.3	3.06	<0.01	<0.01	<0.5	0.047
MW-3	MW-3	5/12/2011	77	1.260	1.780	299	<1.0	<0.05	<0.025	19.0	1.36	<0.01	<0.01	<0.5	0.066
Lower (Deeper) Groundwater Zone															
GP-1	GP-1	5/2/011	42	0.362	0.230	279	146	30.0	<0.025	2.1	2.18	<0.01	<0.01	<0.5	<0.01
GP-2	GP-2	5/2/011	65	0.341	1.300	216	70	35.0	<0.025	0.9	4.96	<0.01	<0.01	<0.5	0.025
GP-3	GP-3-35	5/6/2011	54	0.105	0.300	230	86	36.0	<0.025	5.8	4.85	<0.01	<0.01	<0.5	<0.01
GP-4	GP-4-35	5/6/2011	88	0.409	0.630	173	71	38.0	<0.025	0.7	6.38	<0.01	<0.01	<0.5	0.064
GP	GP-5	5/5/2011	105	0.025	0.750	330	86	30.0	<0.025	0.1	1.83	0.024	<0.01	<0.5	0.048
GP-8	GP-8-35	5/12/2011	122	0.625	1.370	297	96	14.0	<0.025	9.5	5.42	0.033	0.03	<0.5	0.077
GP-9	GP-9-35	5/12/2011	67	0.753	0.923	242	76.0	3.4	<0.025	8.6	9.63	0.019	0.01	<0.5	0.055
GP-11	GP-11-35	5/13/2011	72	<0.01	0.458	284	79.0	39.0	<0.025	0.3	5.10	0.022	0.02	<0.5	0.055
W-IND	W-IND	5/12/2011	54	9.630	0.731	350	76	19.0	<0.025	8.0	0.69	<0.01	<0.01	<0.5	0.042

Explanation:

CaCO₃ = Calcium carbonate

mg/l = milligrams per liter

Carbon Dioxide analyzed by EPA Method 4500-C02 C

Phosphorus analyzed by EPA Method 365.3

Total Kjeldahl Nitrogen analyzed by EPA Method 351.2

Alkalinity as Calcium Carbonate analyzed by EPA method SM 2320B

Sulfate and nitrate analyzed by EPA method 300.0

Ferrous iron analyzed by EPA method 6101610/SM 3500

Ferric iron analyzed by EPA Method 6010A

Manganese analyzed by EPA method 6010B

Methane, ethane, and ethene analyzed by EPA Method RSK-175

Sulfide analyzed by EPA method 376.2/4500-S 2-G

7<5FHG

Chart 1. MW-1 TPH-SS,TPH-G, and Groundwater Depth

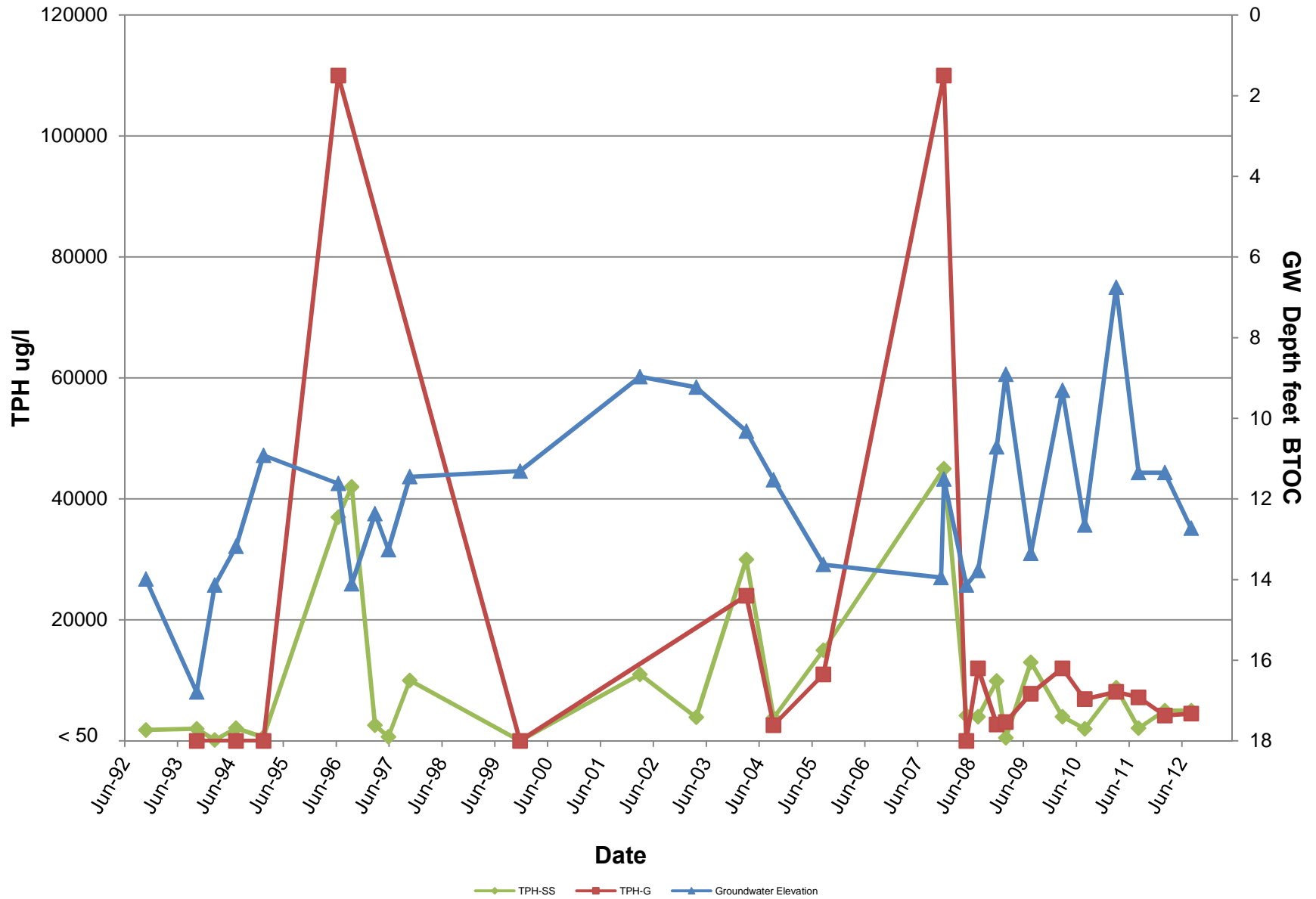


Chart 2. MW-2 TPH-SS, TPH-G, and Groundwater Depth

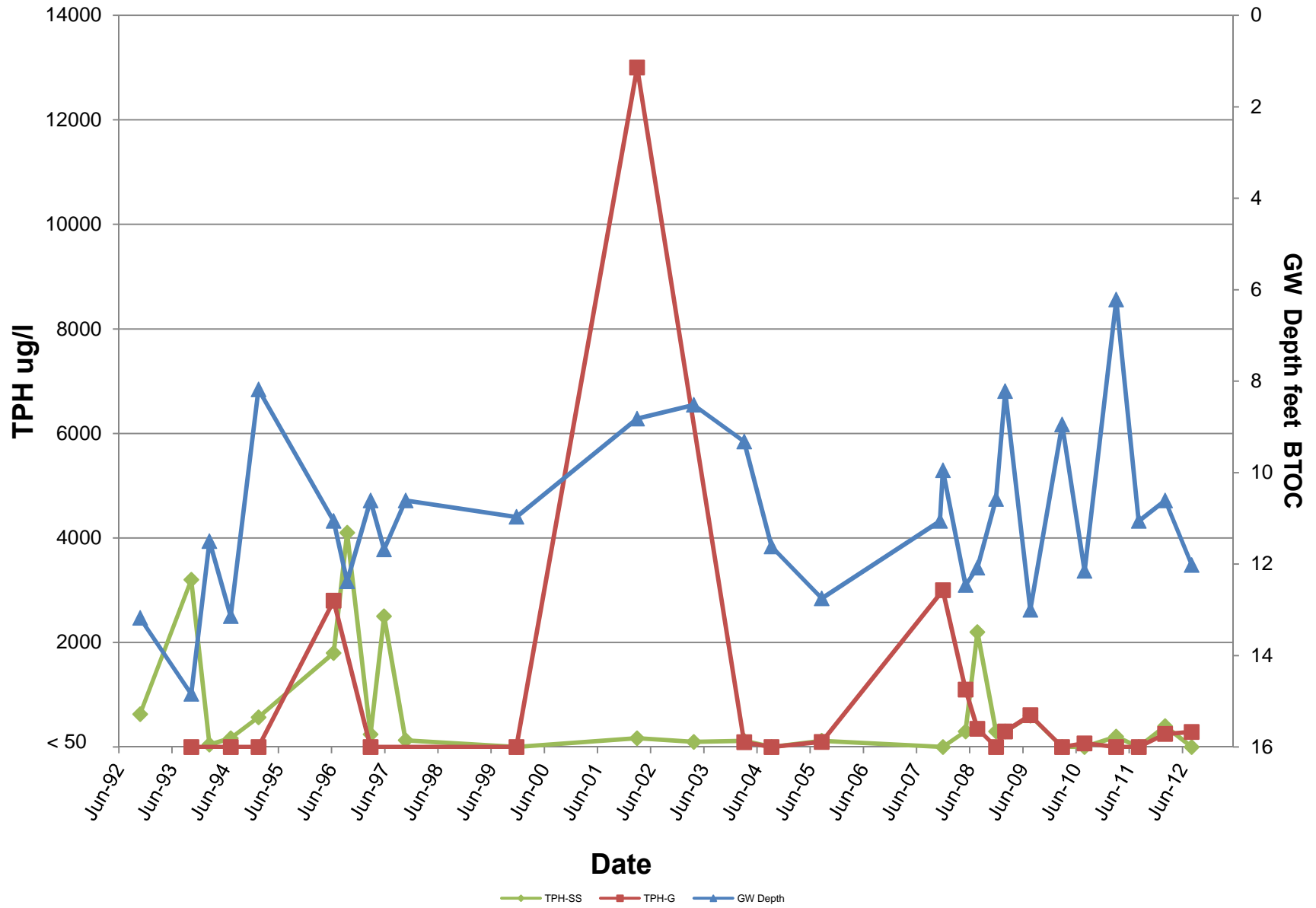


Chart 3. MW-3 TPH-SS, TPH-G, and Groundwater Depth

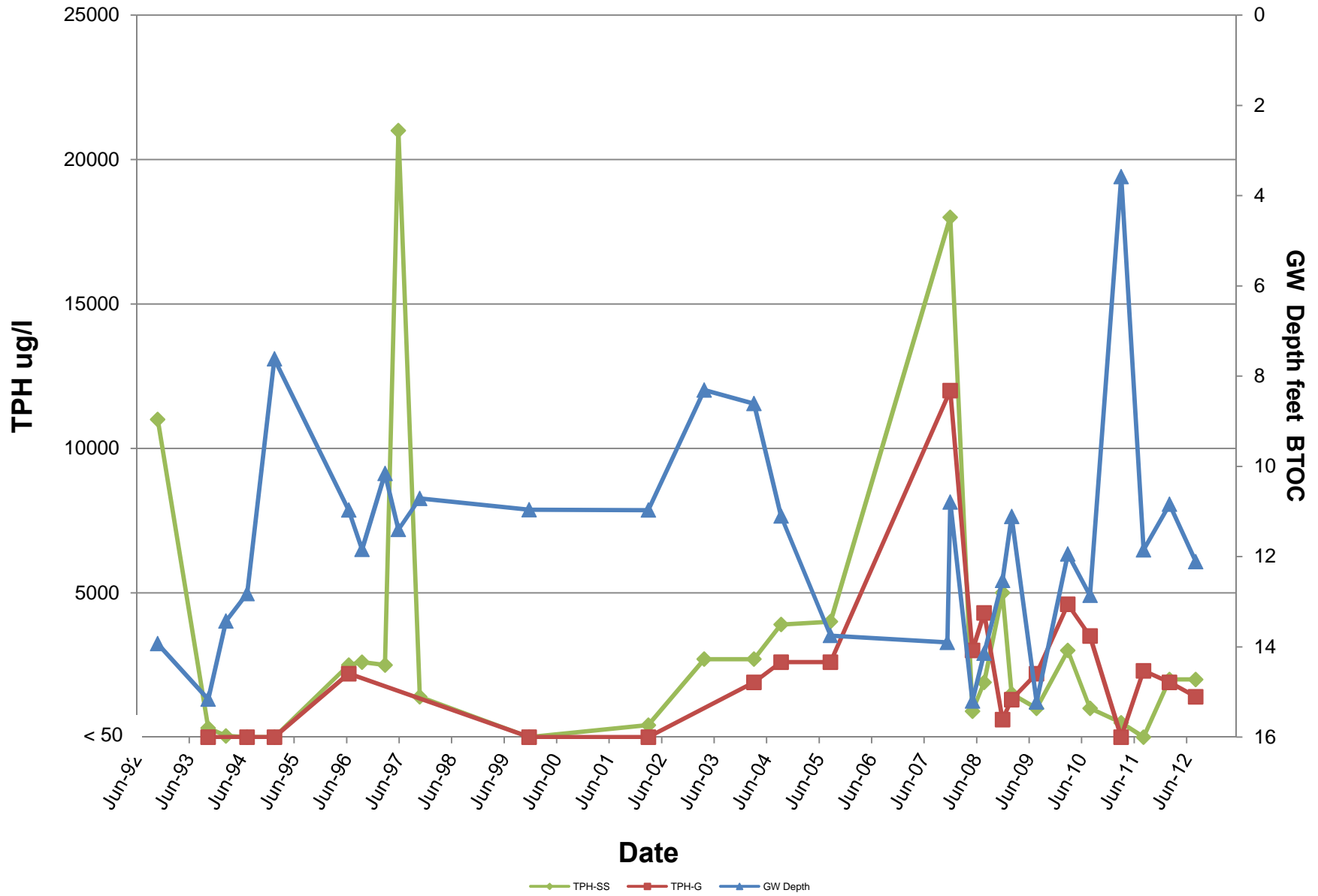
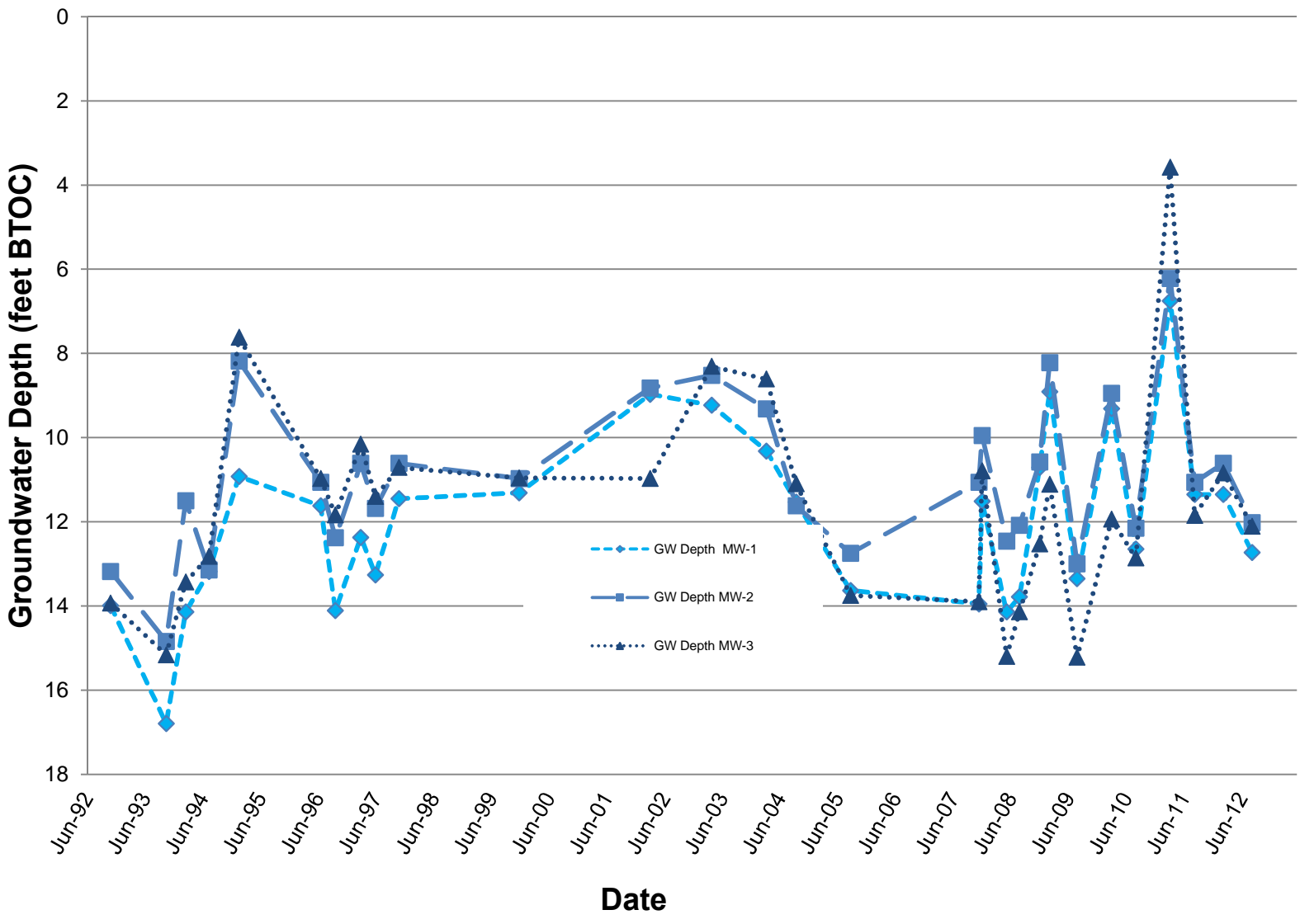


Chart 4. Groundwater Depth MW-1, MW-2 and MW-3



APPENDIX A
FIELD DATA SHEETS

Taber Consultants
DO/ORP Readings

Site: City Of Paris Cleaners

3516 Adeline Street, Oakland, CA.

Date: 8/22/12

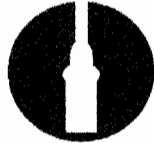
Time: 08100

Bar P = 758.3 mmHg YSI 550

Well #	DTW	Total Depth	DO %	DO mg/L	ORP mV	Ph	Temp 'C	Conductivity "S/cm	Sample Time	Comments/ Sample Volume.
MW-1	12.73	29.80	7.3	0.70	-219.0	6.42	17.53	1365	10:30	H ₂ O Sampled @ 09:10 Volume: 4 Vials, 1-500ml Amp.
MW-2	12.02	29.50	10.6	0.99	-167.9	6.37	17.13	1380	10:10	H ₂ O Sampled @ 09:50 Volume: 4 Vials, 1-500ml Amp.
MW-3	12.11	29.70	6.5	0.61	-167.0	6.42	17.04	1372	10:20	H ₂ O Sampled @ 10:00 Volume: 4 Vials, 1-500ml Amp.
IND-W	12.93	72.85	23.6	2.29	55.5	6.34	16.82	841	09:30	H ₂ O Sampled @ 09:15 Volume 4 Vials, 1-500ml Amp.

Observations and Comments: Hydro-slarva
 IND Well Deployed @ 08:45 — Sampled 09:15
 MW-1 " " @ 08:50 — " " 09:40
 MW-2 " " @ 08:55 — " " 09:50
 MW-3 " " @ 09:00 — " " 10:00

Note: All Readings (DO/ORP/Ph/Cond/Temp) TAKAM @ 27 FT.



Project Contact (PDF To): Tom Ballard (to email address's)		California EDF Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Chain-of-Custody Record and Analysis Request																			
Company / Address: Taber Consultants: 3911 West Capitol Ave. West Sacramento, CA 95691		Sampling Company Log Code: WRMC		Analysis Request										TAT									
Phone #: 916-371-1690	Fax #: 916-371-7265	Deliver all files to: inbox@TaberConsultants.com																				<input type="checkbox"/> 12 hr	
Project #: 2011-107	P.O. #: 3C	please email a copy to: SNess@TaberConsultants.com																				<input type="checkbox"/> 24 hr	
Project Name: NoPurge CityOfP		Sampler Signature: 																				<input type="checkbox"/> 48 hr	
Project Address: 3514 Adeline St. Oakland, CA		Sampling		Container				Preservative			Matrix											<input type="checkbox"/> 72 hr	
Sample ID	Field Point Name	Date	Time	40 ml VOA	Sleeve	Poly	Glass <small>200ml, 400ml</small>	Tedlar	HCl	HNO ₃	None		Water	Soil	Air								<input checked="" type="checkbox"/> 1 wk
MW-1	MW-1	8/22/12	09:40	4			1																x
MW-2	MW-2	8/22/12	09:50	4			1																x
MW-3	MW-3	8/22/12	10:00	4			1																x
W-IND	W-IND	8/22/12	09:15	4			1																x
Relinquished by:		Date	Time	Received by:		Remarks: please save file(s), PDF's, EDF & XLS name as: sample date year_month_day_project name_WO#																	
Relinquished by:		Date	Time	Received by:		EXAMPLE: 2010_08_10_NoPurge_CityOfP_12345 Bill to: Invoice@TaberConsultants.com																	
Relinquished by:		Date	Time	Received by Laboratory:		For Lab Use Only: Sample Receipt																	

APPENDIX B

LABORATORY REPORTS

Tom Ballard
Taber Consultants
3911 West Capitol Ave.
West Sacramento, CA 95691

Client	Taber Consultants
Workorder	20353 NoPurge_CityOfParis
Received	08/23/12

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

- DUP - Matrix Duplicate
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- LCS - Lab Control Sample
- LCSD - Lab Control Sample Duplicate
- RPD - Relative Percent Difference
- QC - Additional Quality Control
- DIL - Results from a diluted sample
- ND - None Detected
- RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.



Ray James
Laboratory Director

Tom Ballard
Taber Consultants
3911 West Capitol Ave.
West Sacramento, CA 95691

Workorder 20353

Enclosed are the results from samples received on August 23, 2012.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
20353001	MW-1, Water	08/22/12	8015B TEPH 8015B TPHgas 8260B BTEX/FOC W
20353002	MW-2, Water	08/22/12	8015B TEPH 8015B TPHgas 8260B BTEX/FOC W
20353003	MW-3, Water	08/22/12	8015B TEPH 8015B TPHgas 8260B BTEX/FOC W
20353004	W-IND, Water	08/22/12	8015B TEPH 8015B TPHgas 8260B BTEX/FOC W

Test Certificate of Analysis

Client ID Taber Consultants
Workorder # 20353

Workorder ID NoPurge_CityOfParis

Laboratory ID 20353001
Sample ID MW-1
Matrix Water

Sampled 08/22/12
Received 08/23/12
Reported 09/02/12

8015B TEPH
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Solvent	8015B TEPH	08/24/12	08/28/12	5000	50.0 ug/L 1:1

Laboratory ID 20353001
Sample ID MW-1
Matrix Water

Sampled 08/22/12
Received 08/23/12
Reported 09/02/12

8015B TPH Gas
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas ¹	8015B TPHgas	08/31/12	08/31/12	4500	1000 ug/L 1:20

Surrogates

Surrogate	Result	Recovery	Limits
Trifluorotoluene	19.2 ug/L	96 %	(65 - 135)

¹ - Non-typical TPH pattern present in gas range.

Laboratory ID 20353001
Sample ID MW-1
Matrix Water

Sampled 08/22/12
Received 08/23/12
Reported 09/02/12

8260B BTEX/Oxygenates
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOC	08/31/12	08/31/12	5.7	5.0 ug/L 1:10
Benzene	8260B BTEX/FOC	08/31/12	08/31/12	ND	10 ug/L 1:10
Toluene	8260B BTEX/FOC	08/31/12	08/31/12	ND	10 ug/L 1:10
Ethylbenzene	8260B BTEX/FOC	08/31/12	08/31/12	ND	10 ug/L 1:10
Xylene, Total	8260B BTEX/FOC	08/31/12	08/31/12	ND	10 ug/L 1:10

Surrogates

Surrogate	Result	Recovery	Limits
1,2-Dichloroethane-d4	47 ug/L	94 %	(65 - 135)

Test Certificate of Analysis

Client ID Taber Consultants
 Workorder # 20353

Workorder ID NoPurge_CityOfParis

Laboratory ID 20353002
 Sample ID MW-2
 Matrix Water

Sampled 08/22/12
 Received 08/23/12
 Reported 09/02/12

8015B TEPH
 Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Solvent	8015B TEPH	08/24/12	08/28/12	ND	50.0 ug/L 1:1

Laboratory ID 20353002
 Sample ID MW-2
 Matrix Water

Sampled 08/22/12
 Received 08/23/12
 Reported 09/02/12

8015B TPH Gas
 Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas ¹	8015B TPHgas	08/31/12	08/31/12	290	50 ug/L 1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	20.6 ug/L	103 %	(65 - 135)

¹ - Non-typical TPH pattern present in gas range.

Laboratory ID 20353002
 Sample ID MW-2
 Matrix Water

Sampled 08/22/12
 Received 08/23/12
 Reported 09/02/12

8260B BTEX/Oxygenates
 Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOC	08/31/12	08/31/12	1.2	0.50 ug/L 1:1
Benzene	8260B BTEX/FOC	08/31/12	08/31/12	ND	1.0 ug/L 1:1
Toluene	8260B BTEX/FOC	08/31/12	08/31/12	ND	1.0 ug/L 1:1
Ethylbenzene	8260B BTEX/FOC	08/31/12	08/31/12	ND	1.0 ug/L 1:1
Xylene, Total	8260B BTEX/FOC	08/31/12	08/31/12	ND	1.0 ug/L 1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	46 ug/L	92 %	(65 - 135)

Test Certificate of Analysis

Client ID Taber Consultants
Workorder # 20353

Workorder ID NoPurge_CityOfParis

Laboratory ID 20353003
Sample ID MW-3
Matrix Water

Sampled 08/22/12
Received 08/23/12
Reported 09/02/12

8015B TEPH
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Solvent	08/24/12	08/28/12	2000	50.0 ug/L	1:1

Laboratory ID 20353003
Sample ID MW-3
Matrix Water

Sampled 08/22/12
Received 08/23/12
Reported 09/02/12

8015B TPH Gas
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas ¹	08/31/12	08/31/12	1400	500 ug/L	1:10

Surrogates	Result	Recovery	Limits
Trifluorotoluene	20.2 ug/L	101 %	(65 - 135)

¹ - Non-typical TPH pattern present in gas range.

Laboratory ID 20353003
Sample ID MW-3
Matrix Water

Sampled 08/22/12
Received 08/23/12
Reported 09/02/12

8260B BTEX/Oxygenates
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether	08/31/12	08/31/12	20	5.0 ug/L	1:10
Benzene	08/31/12	08/31/12	ND	10 ug/L	1:10
Toluene	08/31/12	08/31/12	ND	10 ug/L	1:10
Ethylbenzene	08/31/12	08/31/12	ND	10 ug/L	1:10
Xylene, Total	08/31/12	08/31/12	30	10 ug/L	1:10

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	48 ug/L	96 %	(65 - 135)

Test Certificate of Analysis

Client ID Taber Consultants
Workorder # 20353

Workorder ID NoPurge_CityOfParis

Laboratory ID 20353004
Sample ID W-IND
Matrix Water

Sampled 08/22/12
Received 08/23/12
Reported 09/02/12

8015B TEPH
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Solvent	8015B TEPH	08/24/12	08/28/12	ND	50.0 ug/L 1:1

Laboratory ID 20353004
Sample ID W-IND
Matrix Water

Sampled 08/22/12
Received 08/23/12
Reported 09/02/12

8015B TPH Gas
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas	8015B TPHgas	08/31/12	08/31/12	ND	50 ug/L 1:1

Surrogates

Surrogate	Result	Recovery	Limits
Trifluorotoluene	20 ug/L	100 %	(65 - 135)

Laboratory ID 20353004
Sample ID W-IND
Matrix Water

Sampled 08/22/12
Received 08/23/12
Reported 09/02/12

8260B BTEX/Oxygenates
Parameter

Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOC	08/31/12	08/31/12	ND	0.50 ug/L 1:1
Benzene	8260B BTEX/FOC	08/31/12	08/31/12	ND	1.0 ug/L 1:1
Toluene	8260B BTEX/FOC	08/31/12	08/31/12	ND	1.0 ug/L 1:1
Ethylbenzene	8260B BTEX/FOC	08/31/12	08/31/12	ND	1.0 ug/L 1:1
Xylene, Total	8260B BTEX/FOC	08/31/12	08/31/12	ND	1.0 ug/L 1:1

Surrogates

Surrogate	Result	Recovery	Limits
1,2-Dichloroethane-d4	49 ug/L	98 %	(65 - 135)

Method Blank Report

Client ID	Taber Consultants	Sample ID	MB for HBN 438075 [SGXV/2840]				
Laboratory ID	105052	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Stoddard Solvent	8015B TEPH	08/24/12	08/28/12	ND	50.0 ug/L	1:1	

Lab Control Sample Report

Client ID	Taber Consultants	Sample ID	LCS for HBN 438075 [SGXV/2840]				
Laboratory ID	105053	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Stoddard Solvent	8015B TEPH	08/24/12	08/28/12	1040	50.0 ug/L	1:1	

Lab Control Sample Duplicate Report

Client ID	Taber Consultants	Sample ID	LCSD for HBN 438075 [SGXV/2840]				
Laboratory ID	105054	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Stoddard Solvent	8015B TEPH	08/24/12	08/28/12	1040	50.0 ug/L	1:1	

Method Blank Report

Client ID	Taber Consultants	Sample ID	MB for HBN 438182 [VGXV/3147]				
Laboratory ID	105130	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	08/31/12	08/31/12	ND	50 ug/L	1:1	
Surrogates	Result	Recovery	Limits				
Trifluorotoluene	19.4 ug/L	97 %	(65 - 135)				

Lab Control Sample Report

Client ID	Taber Consultants	Sample ID	LCS for HBN 438182 [VGXV/3147]				
Laboratory ID	105131	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	08/31/12	08/31/12	1060	50 ug/L	1:1	

Lab Control Sample Duplicate Report

Client ID	Taber Consultants	Sample ID	LCSD for HBN 438182 [VGXV/3147]				
Laboratory ID	105132	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	08/31/12	08/31/12	964	50 ug/L	1:1	

Matrix Spike Report

Client ID	Taber Consultants	Sample ID	MS for HBN 438182 [VGXV/3147]				
Laboratory ID	105133	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	08/31/12	08/31/12	1020	50 ug/L	1:1	

Matrix Spike Duplicate Report

Client ID	Taber Consultants	Sample ID	MSD for HBN 438182 [VGXV/3147]				
Laboratory ID	105134	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	08/31/12	08/31/12	1080	50 ug/L	1:1	

Method Blank Report

Client ID	Taber Consultants	Sample ID	MB for HBN 438184 [VMXV/3432]				
Laboratory ID	105135	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Methyl-tert-butyl-ether	8260B BTEX/FOC	08/31/12	08/31/12	ND	0.50 ug/L	1:1	
Benzene	8260B BTEX/FOC	08/31/12	08/31/12	ND	1.0 ug/L	1:1	
Toluene	8260B BTEX/FOC	08/31/12	08/31/12	ND	1.0 ug/L	1:1	
Ethylbenzene	8260B BTEX/FOC	08/31/12	08/31/12	ND	1.0 ug/L	1:1	
Xylene, Total	8260B BTEX/FOC	08/31/12	08/31/12	ND	1.0 ug/L	1:1	
Surrogates	Result	Recovery	Limits				
1,2-Dichloroethane-d4	48 ug/L	96 %	(65 - 135)				

Lab Control Sample Report

Client ID	Taber Consultants	Sample ID	LCS for HBN 438184 [VMXV/3432]				
Laboratory ID	105136	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Methyl-tert-butyl-ether	8260B BTEX/FOC	08/31/12	08/31/12	47	0.50 ug/L	1:1	
Benzene	8260B BTEX/FOC	08/31/12	08/31/12	46	1.0 ug/L	1:1	

Lab Control Sample Report

Client ID Taber Consultants **Sample ID** LCS for HBN 438184 [VMXV/3432]
Laboratory ID 105136 **Matrix** Water

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
(continued)						
Toluene	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	51	1.0 ug/L	1:1
Ethylbenzene	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	51	1.0 ug/L	1:1
Xylene, Total	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	153	1.0 ug/L	1:1

Lab Control Sample Duplicate Report

Client ID Taber Consultants **Sample ID** LCSD for HBN 438184 [VMXV/3432]
Laboratory ID 105137 **Matrix** Water

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	51	0.50 ug/L	1:1
Benzene	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	50	1.0 ug/L	1:1
Toluene	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	55	1.0 ug/L	1:1
Ethylbenzene	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	55	1.0 ug/L	1:1
Xylene, Total	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	163	1.0 ug/L	1:1

Matrix Spike Report

Client ID Taber Consultants **Sample ID** MS for HBN 438184 [VMXV/3432]
Laboratory ID 105138 **Matrix** Water

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	45	0.50 ug/L	1:1
Benzene	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	44	1.0 ug/L	1:1
Toluene	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	49	1.0 ug/L	1:1
Ethylbenzene	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	49	1.0 ug/L	1:1
Xylene, Total	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	148	1.0 ug/L	1:1

Matrix Spike Duplicate Report

Client ID Taber Consultants **Sample ID** MSD for HBN 438184 [VMXV/3432]
Laboratory ID 105139 **Matrix** Water

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	44	0.50 ug/L	1:1
Benzene	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	43	1.0 ug/L	1:1
Toluene	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	47	1.0 ug/L	1:1
Ethylbenzene	8260B BTEX/FOC08/31/12	08/31/12	08/31/12	48	1.0 ug/L	1:1

Matrix Spike Duplicate Report

Client ID	Taber Consultants	Sample ID	MSD for HBN 438184 [VMXV/3432]			
Laboratory ID	105139	Matrix	Water			

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
(continued)						
Xylene, Total	8260B BTEX/FOC	08/31/12	08/31/12	143	1.0 ug/L	1:1

QC SUMMARY

Client ID	Taber Consultants	Original	20353002
QC Batch	VGX 3267	Samples	Matrix Spike [105133]
Matrix	Water		Matrix Spike Duplicate [105134]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	73	79	(65-135)	7.9	(20 MAX)

Client ID	Taber Consultants	Original	20353002
QC Batch	VMX 3470	Samples	Matrix Spike [105138]
Matrix	Water		Matrix Spike Duplicate [105139]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Methyl-tert-butyl-ether	88	86	(65-135)	2.3	(20 MAX)
Benzene	88	86	(65-135)	2.3	(20 MAX)
Toluene	98	94	(65-135)	4.2	(20 MAX)
Ethylbenzene	98	96	(65-135)	2.1	(20 MAX)
Xylene, Total	99	95	(65-135)	4.1	(20 MAX)

Client ID	Taber Consultants	Samples	Lab Control Sample [105053]
QC Batch	SGX 2868		Lab Control Sample Duplicate [105054]
Matrix	Water		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Stoddard Solvent	104	104	(65-135)	0	(20 MAX)

Client ID	Taber Consultants	Samples	Lab Control Sample [105131]
QC Batch	VGX 3267		Lab Control Sample Duplicate [105132]
Matrix	Water		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	106	96	(65-135)	9.9	(20 MAX)

Client ID	Taber Consultants	Samples	Lab Control Sample [105136]
QC Batch	VMX 3470		Lab Control Sample Duplicate [105137]
Matrix	Water		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Methyl-tert-butyl-ether	94	102	(65-135)	8.2	(20 MAX)
Benzene	92	100	(65-135)	8.3	(20 MAX)
Toluene	102	110	(65-135)	7.5	(20 MAX)

QC SUMMARY

Client ID	Taber Consultants	Samples	Lab Control Sample [105136]
QC Batch	VMX 3470		Lab Control Sample Duplicate [105137]
Matrix	Water		(continued)

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Ethylbenzene	102	110	(65-135)	7.5	(20 MAX)
Xylene, Total	102	109	(65-135)	6.6	(20 MAX)



Project Contact (PDF To): Tom Ballard (to email address's)	California EDF Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Chain-of-Custody Record and Analysis Request
---	--	---

Company / Address: Taber Consultants: 3911 West Capitol Ave. West Sacramento, CA 95691	Sampling Company Log Code: WRMC	Analysis Request
--	---	-------------------------

Phone #: 916-371-1690	Fax #: 916-371-7265	Global ID: T0600100379	<input type="checkbox"/> 12 hr <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 72 hr <input checked="" type="checkbox"/> 1 Wk
---------------------------------	-------------------------------	-------------------------------	--

Project #: 2011-107	P.O. #: 3C	Deliver all files to: inbox@TaberConsultants.com	<input type="checkbox"/> 12 hr <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 72 hr <input checked="" type="checkbox"/> 1 Wk
-------------------------------	-------------------	--	--

Project Name: NoPurge CityOfP	Sampler Signature: 	
---	------------------------	--

Project Address: 3514 Adeline St. Oakland, CA	Sampling	Container	Preservative	Matrix	
---	-----------------	------------------	---------------------	---------------	--

Sample ID	Field Point Name	Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO ₃	None	Water	Soil	Air	MTBE/BTEX (EPA 8260B)	TPH Gas (EPA 8015)	5 Oxygenates (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Organics Full List (EPA 8260B)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)	TPH-SS Standard Solvent (EPA 8015)	Chromatograms	TAT
MW-1	MW-1	8/22/12	09:40	4											X	X							X	X		x
MW-2	MW-2	8/22/12	09:50	4											X	X							X	X		x
MW-3	MW-3	8/22/12	10:00	4											X	X							X	X		x
W-IND	W-IND	8/22/12	09:15	4											X	X							X	X		x

Relinquished by: 	Date: 8/23/12	Time: 09:50	Received by: 	Date: 8/23/12	Time: 1342	Remarks: please save file(s), PDF's, EDF & XLS name as: sample date year_month_day_project name_WO#
----------------------	------------------	----------------	------------------	------------------	---------------	---

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	EXAMPLE: 2010_08_10 NoPurge CityOfP 12345 Bill to: invoice@TaberConsultants.com
------------------	-------	-------	--------------	-------	-------	---

Relinquished by:	Date:	Time:	Received by Laboratory:	Date:	Time:	For Lab Use Only: Sample Receipt
						Temp °C
						Initials
						Date
						Time