



TEC Environmental

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January 22, 2010

Mr. Steven Plunkett
Hazardous Materials Specialist
Alameda County Health Agency
Division of Environmental Protection
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

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3:24 pm, Jan 20, 2010

Alameda County
Environmental Health

SUBJECT: FOURTH QUARTER 2009 GROUNDWATER MONITORING REPORT

SITE: FORMER OLYMPIAN SERVICE STATION
1435 WEBSTER STREET
ALAMEDA, CALIFORNIA 94501
FLC # RO0000193

Dear Mr. Plunkett:

On behalf of Olympian JV, Technology, Engineering & Construction, Inc. (TEC) is pleased to submit this fourth quarter 2009 groundwater monitoring report for the above referenced site.

Thank you for your cooperation and assistance on this project. If you have any questions or concerns, please contact the undersigned at (650) 616-1205.

Sincerely,
**Technology, Engineering
& Construction, Inc.**

Morgan A. Reed
Project Manager

cc: Mr. Fred Bertetta c/o Ms. Janet Heikel, Olympian, 1300 Industrial Road, Suite 2, San Carlos, California 94070
Mr. Jeff Farrar, P.O. Box 1701, Chico, California 95927
Mr. and Mrs. Charles A. & Ose M. Begley, 2592 Pine View Dr., Fortuna, California 95540

**FOURTH QUARTER 2009
GROUNDWATER MONITORING REPORT**

**FORMER OLYMPIAN SERVICE STATION
1435 WEBSTER STREET
ALAMEDA, CALIFORNIA 94501**

FLC #: RO0000193

PREPARED FOR:

**OLYMPIAN JV
AND
ALAMEDA COUNTY HEALTH AGENCY**

PREPARED BY:

**TECHNOLOGY, ENGINEERING & CONSTRUCTION, INC.
PROJECT #: E-322**

SAMPLING DATE:

DECEMBER 10 AND 22, 2009

REPORT DATE:

JANUARY 22, 2010



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1.0 INTRODUCTION

On behalf of Olympian JV, Technology, Engineering & Construction, Inc. (TEC) conducted the fourth quarter 2009 groundwater monitoring event at the former Olympian Service Station located at 1435 Webster Street, Alameda, California. The site is the location of a subsurface release of petroleum hydrocarbons related to the former gasoline underground storage tanks (USTs) that were removed in 1989.

This report includes the site environmental background and results of the current groundwater monitoring event. This quarter, recently installed well MW-9, priority groundwater monitoring well MW-4, and all soil vapor monitoring wells were sampled in compliance with California Regional Water Quality Control Board Resolution 2009-42 and Alameda County Health Agency directives. A vicinity map and site map are provided as Figures 1 and 2, respectively.

2.0 SITE DESCRIPTION

The site is located on the corner of Webster Street and Taylor Avenue in Alameda, California. Prior to 1989, the site was occupied by an Olympian Service Station. Station facilities consisted of two 10,000-gallon gasoline USTs, one 7,500-gallon diesel UST, one 500-gallon waste oil UST and two dispenser islands (Figure 2).

The surrounding topography is flat and the site is approximately 20 feet above mean sea level. The site is situated in a mixed commercial and residential area and is currently leased by the City of Alameda and used as a metered parking lot.

3.0 ENVIRONMENTAL BACKGROUND

A historical timeline of relevant activities at the subject site is presented in Section 3.1; a summary of the current site condition, including the monitoring well network and general chemical of concern (COC) distribution, is presented in Section 3.2. An updated site conceptual model, incorporating results from the recent subsurface investigation will be presented in the forthcoming *Updated Site Conceptual Model, Health Risk Assessment, Feasibility Study, and Corrective Action Workplan*.

3.1 Site Timeline

- | | |
|-----------------------|--|
| October 1988 | Soil gas analysis performed onsite identifies significant concentrations of total hydrocarbons as propane in soil gas. |
| September 1989 | Two 10,000-gallon gasoline USTs, one 7,500-gallon diesel UST and one 500-gallon waste oil UST removed by TEC Accutite; petroleum hydrocarbons detected in soil beneath former tank location. |
| January 1991 | Approximately 950 cubic yards of soil were removed from the former location of the USTs; this soil was bioremediated onsite and returned to the former excavation. |
| January 1993 | Three monitoring wells installed onsite (MW-1 through MW-3); no petroleum hydrocarbons detected in soil. |
| February 1999 | Four soil borings advanced on- and offsite (B-1 through B-4); petroleum hydrocarbon concentrations detected in soil and groundwater. |
| December 1999 | Three monitoring wells, installed onsite (MW-4 through MW-6); petroleum hydrocarbons detected in soil. |



- November 2000** Site conceptual model (SCM) completed; potential for benzene vapor-phase migration from hydrocarbon affected groundwater to indoor and ambient air identified as an exposure pathway requiring further evaluation.
- June 2001** Four soil borings advanced [B-1 through B-4 (second set of B-1 through B-4)]; no petroleum hydrocarbons detected in soil; petroleum hydrocarbons detected in groundwater.
- February 2002** Site-specific risk assessment performed; compounds of concern identified as TPHg and benzene.
- May 2003** Eight soil vapor probes advanced onsite (SV-1 through SV-7); petroleum hydrocarbons detected below their respective Environmental Screening Levels (ESLs).
- September 2005** SCM updated; uncertainties identified in onsite benzene vapor concentrations and offsite groundwater conditions.
- June 2006** Eight soil borings advanced (SP-1 through SP-8); petroleum hydrocarbons detected in soil above constituent ESLs.
- November 2006** Seventeen soil borings advanced (CB-1 through CB-17) to determine excavation limits; petroleum hydrocarbons detected at concentrations below ESLs and/or laboratory detection limits at depths shallower than 8 feet bsg.
- December 2006** Five soil borings advanced (DB-1 through DB-5); onsite soils classified as Class II waste; monitoring wells MW-1 and MW-5 abandoned by pressure grouting.
- February 2007** Interim remedial action conducted; 992.54 tons of soil excavated from site; 15,000 gallons of groundwater pumped from open excavation pit, sediment removed and carbon-filtered, and discharged to sewer under permit.
- March 2007** Two monitoring wells installed onsite (MW-7 and MW-8).
- July 2007** Thirteen off-site soil borings advanced (B-6 through B-18); off-site plume defined in all directions except crossgradient to the northeast.
- July 2007** Thirteen off-site soil borings advanced (B-6 through B-18); off-site plume defined in all directions except crossgradient to the northeast.
- July 2009** Six off-site soil borings advanced (B-19 through B-24); off-site plume fully defined. One groundwater monitoring well (MW-9) installed in the public right-of-way on Webster Street. Five permanent nested vapor monitoring points installed onsite; no petroleum hydrocarbons detected in onsite soil vapor.

3.2 Site Condition

The site currently has seven groundwater monitoring wells (MW-2 through MW-4 and MW-6 through MW-9) and five dual-completed vapor monitoring points (VMP-1 through VMP-5) in its network. Locations of site monitoring wells are presented in Figure 2. The groundwater monitoring well construction details and activity schedule are presented in Table 1. Chemicals of concern (COCs) for the site include petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), and methyl tert-butyl ether (MTBE). The source area was the former USTs, which were removed in 1989. TEC continues to monitor all active groundwater monitoring wells associated with the site on a semi-



annual basis in preparation for applying for site closure. New well MW-9 and priority well MW-4 are monitored quarterly.

4.0 GROUNDWATER MONITORING

TEC conducted the fourth quarter groundwater monitoring event on December 10, 2009. Field data sheets from this groundwater sampling event are presented as Attachment A.

4.1 Sampling Methods

Upon arrival to the site, a TEC technician uncapped all active site groundwater monitoring wells (MW-2 through MW-4 and MW-6 through MW-9) and allowed the water level in each well to fully equilibrate prior to measuring the depth to water. Wells were gauged to the nearest 0.01 foot using an electric water level meter and recorded on the well sampling logs. Following well gauging, approximately three casing-water volumes of groundwater were purged from well MW-9 using a submersible pump. Well MW-4 was purged using a disposable plastic bailer and went dry after purging one casing volume. After water levels in each well recovered to a minimum of 80% of the pre-purge level, groundwater samples were collected with a disposable bailer and transferred into laboratory supplied HCl-preserved volatile organic analysis vials (VOAs). The samples were labeled, stored in an insulated container with ice, and delivered to *Torrent Laboratory, Inc.*, a California Department of Health Services certified laboratory, under chain-of-custody documentation for analysis.

All groundwater samples were analyzed for TPHg, BTEX, and fuel oxygenates by EPA Method 8260B. The laboratory analytical report and chain-of-custody documentation are presented in Attachment B.

4.2 Electronic Laboratory Data Submittal

The laboratory report was converted into EDF format and uploaded to GeoTracker, California's online geospatial database. Depths to groundwater were uploaded to GeoTracker as a GEO_WELL file. This report was converted into PDF format and uploaded to GeoTracker as a GEO_REPORT file. Attachment C contains the GeoTracker submission confirmations.

4.3 Results

4.3.1 Groundwater Elevation and Flow Direction

The calculated groundwater gradient based on groundwater elevations is toward the southwest at 0.004 feet/foot (ft/ft). Groundwater elevations are presented in Table 2 and Figure 3.

4.3.2 Petroleum Hydrocarbons in Groundwater

The sample submitted from groundwater monitoring well MW-9 (installed third quarter 2009) contained concentrations of toluene and MTBE that were above laboratory detection limits but below ESLs. All other target analytes were below laboratory detection limits.

TPHg and BTEX compounds were not detected in the sample from well MW-4; however, 1,2-dichloroethane (1,2 DCA) and MTBE were reported at 0.71 micrograms per liter (ug/L) and 4.1 ug/L, respectively.

Groundwater analytical results are summarized in Table 3 and Figure 4.



5.0 SOIL VAPOR MONITORING

5.1 Sampling Methods

TEC conducted vapor sampling of monitoring points VMP-1 through VMP-5 on December 22, 2009. Standard sampling procedures for TO-15 are presented below.

5.1.1 Vacuum Tightness Test Procedures

Prior to vapor sampling at each location, a sampling train was constructed using a clean laboratory-supplied manifold consisting of an in-line 0.5 micron filter, a vacuum gauge and an in-line flow regulator rated at 50-60 milliliters per minute (mL/Min). A 1-liter sample Summa canister was attached to a tee-fitting located at the downstream end of the manifold. All connections were made with Swagelok fittings. Each manifold was connected to an existing sampling point using a Swagelok ball-valve and ¼-inch Teflon tubing. After the sampling train had been constructed, a 6-liter Summa canister was attached to the tee-fitting to conduct a vacuum leak test and to subsequently purge the system. Vacuum tests were conducted by closing the ball-valve between the sampling point and manifold and opening the 6-liter Summa canister. A vacuum of 10-30 inches of mercury (in Hg) was applied to the sampling train for a minimum of 5 minutes.

5.1.2 Sampling System Purge Procedures

Following vacuum testing, the soil-vapor sample implant, tubing, and manifold were purged by opening the ball valve while under vacuum from the purge Summa canister. A minimum of one sample train volume (60-100mL) was purged from the system by leaving the ball valve open for a minimum of 2 minutes at a flow rate of approximately 50 mL/min. The ball valve and 6-liter Summa canister valve were closed following each purge.

5.1.3 Sample Collection Procedures

Two samples from each of the five dual-point monitoring wells (VMP-1 through VMP-5), were collected using 1-liter Summa canisters attached directly to the sampling manifold. For process verification purposes, the entire sampling train was covered by a sampling shroud and a tracer gas atmosphere was generated as described in Section 5.1.4, below. Once a tracer gas atmosphere had been introduced to the shroud, the ball valve and 1-liter sample Summa canister were opened for sample collection. Sample collection continued until approximately -0.5 to -4 in Hg were shown on the manifold vacuum gauge. TEC attempted to leave a partial vacuum in the Summa canister as a means to determine if leakage occurred during transit to the laboratory. The final vacuum gauge reading was recorded on a tag attached to the Summa canister. All samples were labeled and shipped under chain-of-custody documentation to Torrent for analysis of TPHg and volatile organic compounds (VOCs), including BTEX compounds, by EPA Methods TO-3 Modified and TO-15 and analysis of fixed gases by ASTM D-1946. Field sheets showing sampling times and final vacuum readings are included in Attachment A. A copy of the TO-15 laboratory report is presented in Attachment B and summarized in Table 4.

5.1.4 Process Verification

Process verification sampling was intended to test the integrity of the soil vapor sample point seal and all fittings and connections in order to demonstrate that the sampled vapor represented targeted soil gas rather than ambient air caused by short-circuiting or leakage. To determine if above-grade ambient air had compromised sample results, cotton pads soaked with isopropyl alcohol (IPA) were placed inside a clear high density polyethylene shroud fitted over the sampling train. The IPA was allowed to volatilize for a minimum of 5 minutes prior to sample collection in order to create a tracer gas atmosphere within the shroud. The presence of tracer gas atmosphere in the shroud was confirmed using a hand-held Thermo OVM PID. All samples soil gas samples were analyzed for the presence of IPA.



5.2 Results

Analytical results for soil vapor samples collected on December 22, 2009 are summarized below and in Table 4. The laboratory analytical report is presented as Attachment B.

5.2.1 Chemicals of Concern

TPHg, BTEX compounds and MTBE were not detected in any soil vapor samples collected during this sampling event, with the exception of 11 ug/m³ o-xylenes in sample VMP-2(8).

5.2.2 Tracer Compound

The IPA tracer compound was not detected above laboratory reporting limits in any soil vapor samples with the exception of VMP-4(4), where it was detected at 38 ug/m³. This concentration is significantly lower than the detection limit of 10,000 ug/m³ recommended in Department of Toxics Substances Control guidance (DTSC 2003).

5.2.3 Fixed Gases

Oxygen was detected at levels that are typically representative of soil gas (between 7.4% and normal atmospheric levels) with the exception of VMP-5(4). Concentrations of carbon dioxide were detected in samples between 1.5% and 9.5%. Methane was below reporting limits for all samples.

6.0 CONCLUSIONS AND RECOMMENDATIONS

- For this groundwater monitoring event, average groundwater flow was toward the southwest at approximately 0.004 ft/ft, within historical precedent for seasonal change in groundwater elevation and gradient.
- Concentrations of chemicals of concern in wells MW-4 and MW-9 were below ESLs with the exception of 1,2 DCA in well MW-4. Concentrations of MTBE in these wells are below ESLs and appear to be stable or decreasing.
- TEC will complete at least 2 more quarterly events in order to accumulate one full year of quarterly monitoring results for newly installed well MW-9. Because this sampling will incur technician travel time, laboratory minimum analytical fees, and other costs, TEC will also monitor priority downgradient well MW-4 on a quarterly basis. All other site monitoring wells will be monitored on a semi-annual basis; the next semi-annual monitoring event will occur during the first quarter 2010.
- Soil vapor monitoring analytical results for COCs are consistent with and confirm the representativeness of results from August 2009. COCs were not detected at or above laboratory reporting limits in any sample. With the exception of sample VMP-5 (4'), which contains a greater-than-atmospheric concentration of oxygen, fixed gas results are within typical ranges for soil gas, increasing confidence in the VOC results. TEC recommends utilizing soil vapor data for VOCs with confidence during the forthcoming health risk assessment.
- TEC is currently finalizing a *Revised Site Conceptual Model, Health Risk Assessment, Feasibility Study, and Corrective Action Workplan* for this site in order to facilitate regulatory closure. updated SCM and a detailed *Health Risk Assessment* to evaluate the exposure pathways considered potentially complete for this site and to develop site-specific cleanup goals using the *RBCA Tool Kit for Chemical Releases*. TEC is considering the upcoming property transaction and potential site development in parameter selection. Goals will be proposed that are protective of human health to a 1.0E-6 cumulative risk level and a 1.0 cumulative hazard index. The feasibility study and corrective action workplan detail work designed for cost-effective contaminant mass removal and polishing.

7.0 LIMITATIONS

Our services consist of professional opinions, conclusions, and recommendations made today in accordance with generally accepted engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied. Technology, Engineering & Construction Inc.'s liability is limited to the dollar amount of the work performed.

Thank you for your cooperation and assistance with this project. If you have any questions or concerns, please contact the undersigned at (650) 616-1200.

Sincerely,
**Technology, Engineering
& Construction, Inc.**



Elise Sbarbori
Project Geologist

Reviewed by:



Morgan A. Reed
Project Manager



Paul B. Dotson, PG # 8237
Professional Geologist



TABLES

Table 1
Groundwater Monitoring Well Construction Details and Activity Schedule
Former Olympian Service Station
1435 Webster Street
Alameda, California

Monitoring Well Construction Details									Activity Schedule	
Well ID	Date Installed ¹	Total Depth	Diameter	Top of Screen	Bottom of Screen	Screen Length	Top of Casing ²	Monitoring Status	Gauging	Sampling ³
		(ft bsg)	(inches)	(ft bsg)	(ft bsg)	(feet)	(ft msl)		(semi-annually)	
MW-1	1/1/1993	24	2	6	24	18	19.53	Destroyed		
MW-2	1/1/1993	24	2	6	24	18	19.80	Active	√	√
MW-3	1/1/1993	24	2	6	24	18	19.79	Active	√	√
MW-4	12/1/1999	20	2	5	20	15	19.30	Active	√	√
MW-5	12/1/1999	20	2	5	20	15	18.99	Destroyed		
MW-6	12/1/1999	20	2	5	20	15	20.27	Active	√	√
MW-7	3/9/2007	20	4	10	20	10	18.93	Active	√	√
MW-8	3/9/2007	20	4	10	20	10	19.33	Active	√	√
MW-9	7/13/2009	20	4	5	20	15	18.83	Active	√	√

Notes

ft = feet
bsg = below surface grade
msl = mean sea level

¹ = Well installation date is given as first day of the installation month when exact well installation date is unknown
² = survey performed by Virgil Chavez Land Surveying (PLS #6323)
³ = groundwater samples are routinely analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl-tert-butyl ether (MTBE), di-isopropyl ether (DIPE), tert-butyl alcohol (TBA), and 1,2-dichloroethane (1,2-DCA) by EPA Method 8260B

Note: Monitoring well MW-9 and MW-4 to be sampled quarterly for one full year from the date of installation of well MW-9.



Table 2
Summary of Historical Groundwater Elevation Data
Former Olympian Service Station
1435 Webster Street
Alameda, California

Well ID	TOC Elevation (ft msl)	Sample Date	Depth to Water (ft)	Groundwater Elevation (ft msl)
MW-1	19.53	6/3/1993	(1)	---
		9/14/1994	11.46	8.07
		12/30/1994	9.22	10.31
		3/26/1995	6.76	12.77
		7/9/1995	8.92	10.61
		7/31/1998	8.30	11.23
		2/11/1999	7.91	11.62
		6/23/1999	9.03	10.50
		12/6/1999	10.86	8.67
		3/16/2000	6.93	12.60
		6/13/2000	8.73	10.80
		9/29/2000	10.18	9.35
		3/22/2001	8.24	11.29
		6/25/2001	9.73	9.80
		9/28/2001	11.06	8.47
		12/26/2001	8.11	11.42
		07/0705	8.69	10.84
		10/19/2005	10.25	9.28
		1/13/2006	7.09	12.44
		5/5/2006	6.40	13.13
		7/19/2006	8.28	11.25
		10/5/2006	9.67	9.86
		*****Abandoned 12/27/2006*****		
MW-2	19.80	6/3/1993	9.54	10.26
		9/14/1994	11.82	7.98
		12/30/1994	9.46	10.34
		3/26/1995	6.82	12.98
		7/9/1995	9.22	10.58
		7/31/1998	8.56	11.24
		2/11/1999	8.12	11.68
		6/23/1999	9.33	10.47
		12/6/1999	11.20	8.60
		3/16/2000	6.88	12.92
		6/13/2000	8.99	10.81
		9/29/2000	10.40	9.40
		3/22/2001	8.46	11.34
		6/25/2001	10.11	9.69
		9/28/2001	11.40	8.40
		12/26/2001	8.28	11.52
		7/7/2005	8.99	10.81
		10/19/2005	10.63	9.17
		1/13/2006	7.15	12.65
		5/5/2006	6.43	13.37
		7/19/2006	8.57	11.23
		10/5/2006	10.05	9.75
		3/29/2007	8.83	10.97
		6/27/2007	9.86	9.94
		9/19/2007	10.89	8.91
		12/19/2007	10.78	9.02
		3/6/2008	8.48	11.32
6/18/2008	10.23	9.57		
9/10/2008	11.36	8.44		
12/10/2008	11.89	7.91		
3/4/2009	8.68	11.12		
6/3/2009	9.91	9.89		
8/27/2009	11.16	8.64		
12/10/2009	11.32	8.48		



Table 2
Summary of Historical Groundwater Elevation Data
Former Olympian Service Station
1435 Webster Street
Alameda, California

Well ID	TOC Elevation (ft msl)	Sample Date	Depth to Water (ft)	Groundwater Elevation (ft msl)
MW-3	19.79	6/3/1993	9.80	9.99
		9/14/1994	12.19	7.60
		12/30/1994	9.72	10.07
		3/26/1995	6.88	12.91
		7/9/1995	9.52	10.27
		7/31/1998	8.40	11.39
		2/11/1999	7.77	12.02
		6/23/1999	9.21	10.58
		12/6/1999	11.12	8.67
		3/16/2000	6.48	13.31
		6/13/2000	8.76	11.03
		9/29/2000	10.20	9.59
		3/22/2001	8.24	11.55
		6/25/2001	10.04	9.75
		9/28/2001	11.34	8.45
		12/26/2001	8.01	11.78
		7/7/2005	8.84	10.95
		10/19/2005	10.58	9.21
		1/13/2006	6.85	12.94
		5/5/2006	6.11	13.68
		7/19/2006	8.41	11.38
		10/5/2006	10.02	9.77
		3/29/2007	9.71	10.08
		6/27/2007	9.82	9.97
		9/19/2007	10.88	8.91
		12/19/2007	10.68	9.11
		3/6/2008	8.30	11.49
		6/18/2008	10.18	9.61
		9/10/2008	11.33	8.46
		12/10/2008	11.89	7.90
3/4/2009	8.40	11.39		
6/3/2009	9.81	9.98		
8/27/2009	11.18	8.61		
12/10/2009	11.30	8.49		
MW-4	19.30	12/6/1999	10.79	8.51
		3/16/2000	6.86	12.44
		6/13/2000	8.18	11.12
		9/29/2000	10.11	9.19
		4/5/2001	8.26	11.04
		6/25/2001	9.68	9.62
		9/28/2001	10.98	8.32
		12/26/2001	8.18	11.12
		7/7/2005	8.77	10.53
		10/19/2005	10.24	9.06
		1/13/2006	(1)	(1)
		5/5/2006	(1)	(1)
		7/19/2006	8.38	10.92
		10/5/2006	9.65	9.65
		3/29/2007	8.55	10.75
		6/27/2007	9.40	9.90
		9/19/2007	10.45	8.85
		12/19/2007	10.35	8.95
		3/6/2008	8.25	11.05
		6/18/2008	9.80	9.50
		9/10/2008	10.89	8.41
		12/10/2008	11.43	7.87
		3/4/2009	8.47	10.83
		6/3/2009	9.53	9.77
		8/27/2009	10.72	8.58
12/10/2009	10.85	8.45		



Table 2
Summary of Historical Groundwater Elevation Data
Former Olympian Service Station
1435 Webster Street
Alameda, California

Well ID	TOC Elevation (ft msl)	Sample Date	Depth to Water (ft)	Groundwater Elevation (ft msl)
MW-5	18.99	12/6/1999	10.17	8.82
		3/16/2000	6.28	12.71
		6/13/2000	7.95	11.04
		9/29/2000	9.54	9.45
		3/22/2001	7.48	11.51
		6/25/2001	9.05	9.94
		9/28/2001	10.39	8.60
		12/26/2001	7.28	11.71
		8/24/2005	7.87	11.12
		10/19/2005	9.51	9.48
		1/13/2006	6.35	12.64
		5/5/2006	5.64	13.35
		7/19/2006	7.41	11.58
		10/5/2006	8.89	10.10
		*****Abandoned 12/27/2006*****		
MW-6	20.27	12/6/1999	11.46	8.81
		3/16/2000	8.32	11.95
		6/13/2000	9.14	11.13
		9/29/2000	10.81	9.46
		3/22/2001	8.64	11.63
		6/25/2001	10.39	9.88
		9/28/2001	11.70	8.57
		12/26/2001	8.40	11.87
		7/7/2005	9.10	11.17
		10/19/2005	10.88	9.39
		1/13/2006	7.33	12.94
		5/5/2006	6.53	13.74
		7/19/2006	8.64	11.63
		10/5/2006	10.29	9.98
		3/29/2007	9.01	11.26
		6/27/2007	10.14	10.13
		9/19/2007	11.17	9.10
		12/19/2007	10.99	9.28
		3/6/2008	8.65	11.62
		6/18/2008	10.46	9.81
		9/10/2008	11.64	8.63
12/10/2008	12.18	8.09		
3/4/2009	8.86	11.41		
6/3/2009	10.07	10.20		
8/27/2009	11.45	8.82		
12/10/2009	11.61	8.66		
MW-7	18.93	3/29/2007	7.90	11.03
		6/27/2007	8.87	10.06
		9/19/2007	9.88	9.05
		12/19/2007	9.72	9.21
		3/6/2008	7.52	11.41
		6/18/2008	9.13	9.80
		9/10/2008	10.29	8.64
		12/10/2008	10.81	8.12
		3/4/2009	7.89	11.04
		6/3/2009	8.70	10.23
		8/27/2009	10.05	8.88
12/10/2009	10.21	8.72		
MW-8	19.33	3/29/2007	8.40	10.93
		6/27/2007	9.33	10.00
		9/19/2007	10.31	9.02
		12/19/2007	10.23	9.10
		3/6/2008	9.14	10.19
		6/18/2008	9.74	9.59
		9/10/2008	10.76	8.57
		12/10/2008	11.31	8.02
		3/4/2009	8.59	10.74
		6/3/2009	9.51	9.82
		8/27/2009	10.57	8.76
12/10/2009	10.72	8.61		
MW-9	18.83	8/27/2009	10.01	8.82
		12/10/2009	10.16	8.67

Notes:
TOC = Top of Casing
ft msl = Feet referenced to mean sea level
--- = Not Available
(1) = Well not accessible due to obstruction by a parked car
yellow row = most recent data



Table 3
Summary of Groundwater Monitoring Analytical Results
Former Olympian Service Station
1435 Webster Street
Alameda, California

Well ID	Sample Date	TPHd	TPHg	Concentrations in micrograms per liter (µg/L)						MTBE	TRPH	DIPE	TBA	1,2-DCA
				B	T	E	X							
ESL		100	100	1.0	40	30	20	5.0	---	---	---	12	0.5	
MW-1	6/3/1993	---	---	---	---	---	---	---	---	---	---	---	---	
	9/14/1994	<50	14,000	44	28	25	50	---	---	800	---	---	---	
	12/30/1994	<50	4,000	12	9	6.8	30	---	---	<500	---	---	---	
	3/26/1995	<50	1,000	21	10	7.1	25	---	---	2,100	---	---	---	
	7/9/1995	<50	16,000	57	28	25	53	---	---	---	---	---	---	
	7/31/1998	1,700	4,700	1,300	48	140	150	6,600	<5000	---	---	---	---	
	2/11/1999	2000	25,000	18,000	1,600	1,400	500	28,000	---	---	---	---	---	
	6/23/1999	4,900	42,000	11,000	1,100	1,500	2,300	15,000	---	---	---	---	---	
	12/6/1999	4,000	44,000	8,900	3,400	1,900	5,100	11,000	---	---	---	---	---	
	3/16/2000	700	5,100	2,400	100	280	460	2,700	2	---	---	---	---	
	6/13/2000	2,800	17,000	5,300	260	720	790	7,000	2	---	---	---	---	
	9/29/2000	5,200	50,000	11,000	2,900	1,900	4,600	7,200	2	---	---	---	---	
	3/22/2001	1,500	8,600	2,600	750	250	950	3,200	2	---	---	---	---	
	6/25/2001	---	18,000	1,200	1,800	970	3,200	1,500	2	---	---	---	---	
	9/28/2001	---	48,000	5,200	6100	2200	8100	4000	---	---	---	---	---	
	12/26/2001	---	524	216	1.2	8.6	7.4	721	---	---	---	---	---	
	7/7/2005	---	1,500	190	15	36	29	1,100	---	<20	---	---	50	
	10/19/2005	---	11,000	2,100	45	370	82	4,600	---	<250	<500	<500	200	
	1/13/2006	---	5,400	680	37	83	41	3,900	---	<250	<500	<500	180	
	5/5/2006	---	<25	2	<0.5	<0.5	<0.5	2.2	---	<5.0	<10	<10	<0.5	
7/19/2006	---	5,000	836	22.3	107	81.8	1,130	---	<4.2	<84	<84	54.1		
10/5/2006	---	23,000	3,740	112	395	161	6,020	---	13.5	546	546	219		
*****Well Abandoned 12/27/2006*****														
MW-2	6/3/1993	<50	<50	5.8	<0.5	<0.5	<0.5	---	<500	---	---	---	---	
	9/14/1994	<50	<50	<0.5	<0.5	<0.5	<0.5	---	<500	---	---	---	---	
	12/30/1994	<50	160	1.4	1.4	0.8	5	---	<500	---	---	---	---	
	3/26/1995	<50	<50	<0.5	<0.5	<0.5	<0.5	---	<500	---	---	---	---	
	7/9/1995	---	---	---	---	---	---	---	---	---	---	---	---	
	7/31/1998	220	<50	<0.5	<0.5	<0.5	<0.5	73	<500	---	---	---	---	
	2/11/1999	<50	<50	<0.5	<0.5	<0.5	<0.5	75	---	---	---	---	---	
	6/23/1999	420	<50	<0.5	<0.5	<0.5	<0.5	96	---	---	---	---	---	
	12/6/1999	<110	300	28	45	6	37	210	---	---	---	---	---	
	3/16/2000	<50	<50	1	<0.5	0.5	1	3	---	---	---	---	---	
	6/13/2000	<50	68	0.8	<0.5	<0.5	<0.5	38	---	---	---	---	---	
	9/29/2000	<50	67	0.8	0.5	<0.5	1	86	2	---	---	---	---	
	3/22/2001	<50	<50	1	0.5	<0.5	1	14	---	---	---	---	---	
	6/25/2001	---	<50	<0.5	<0.5	<0.5	<1.0	13	---	---	---	---	---	
	9/28/2001	---	300	4	6	3	10	130	---	---	---	---	---	
	12/26/2001	---	<50	<0.5	<0.5	<0.5	<1.0	<0.5	---	---	---	---	---	
	7/7/2005	---	<50	<0.5	<0.5	<0.5	<1.0	20	---	<1.0	---	---	1.1	
	10/19/2005	---	29	1.4	<0.5 ³	<0.5	<0.5	19	---	<5.0	<10	<10	0.95	
	1/13/2006	---	<25	<0.5	<0.5	<0.5	<0.5	<1.0	---	<5.0	<10	<10	<0.5	
	5/5/2006	---	<25	<0.5	<0.5	<0.5	<0.5	<1.0	---	<5.0	<10	<10	<0.5	
	7/19/2006	---	<50	<0.5	<0.5	<0.5	<1.5	16.6	---	<0.5	<10	<10	1.24	
	10/5/2006	---	<50	<0.5	<0.5	<0.5	<1.5	11.9	---	<0.5	<10	<10	0.750	
	Post excavation	3/29/2007	---	<50	<0.5	<0.5	<0.5	<1.5	3.36	---	<0.5	<10	<0.5	
		6/27/2007	---	<50	<0.5	<0.5	<0.5	<1.5	10.5	---	<0.5	<10	0.820	
		9/19/2007	---	52	4	<0.5	<0.5	<1.5	18.1	---	<0.5	<10	0.710	
		12/19/2007	---	<50	<0.5	<0.5	<0.5	<1.5	22.9	---	<0.5	<10	0.840	
	3/6/2008	---	<50	<0.5	<0.5	<0.5	<1.5	1.02	---	<0.5	<10	<0.5		
	6/18/2008	---	<50	<0.5	<0.5	<0.5	<1.5	36.9	---	<0.5	<10	0.880		
	9/10/2008	---	69	4	<0.5	<0.5	<1.5	24.6	---	<0.5	<10	0.810		
	12/10/2008	---	84	4	<0.5	<0.5	<1.5	30.2	---	<0.5	<10	0.650		
	3/4/2009	---	<50	<0.5	<0.5	<0.5	<1.5	3.15	---	<0.5	<10	<0.5		
	6/3/2009	---	<55	<0.55	<0.55	<0.55	<1.6	35	---	<0.55	<11	0.55		
	8/27/2009	---	<50	<0.5	<0.5	<0.5	<1.5	73	---	<0.5	23	1.1		



Table 3
Summary of Groundwater Monitoring Analytical Results
Former Olympian Service Station
1435 Webster Street
Alameda, California

Well ID	Sample Date	TPHd	TPHg	Concentrations in micrograms per liter (µg/L)						MTBE	TRPH	DIPE	TBA	1,2-DCA
				B	T	E	X							
	ESL	100	100	1.0	40	30	20	5.0				12	0.5	
MW-3	6/3/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	---	<500	---	---	---	---	
	9/14/1994	<50	<50	<0.5	<0.5	<0.5	<0.5	---	<500	---	---	---	---	
	12/30/1994	<50	<50	<0.5	<0.5	<0.5	<0.5	---	<500	---	---	---	---	
	3/26/1995	<50	<50	<0.5	<0.5	<0.5	<0.5	---	<500	---	---	---	---	
	7/9/1995	---	---	---	---	---	---	---	---	---	---	---	---	
	7/31/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5000	---	---	---	---	
	2/11/1999	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	6/23/1999	<50	<50	<0.5	<0.5	<0.5	<0.5	3	---	---	---	---	---	
	12/6/1999	<110	<50	3	1	<0.5	1	0.6	---	---	---	---	---	
	3/16/2000	<50	<50	<0.5	<0.5	<0.5	<1.0	1	---	---	---	---	---	
	6/13/2000	<50	490	0.8	<0.5	<0.5	9	2	---	---	---	---	---	
	9/29/2000	<50	57	<0.5	<0.5	<0.5	<1.0	<1.0	2	---	---	---	---	
	3/22/2001	<50	<50	<0.5	<0.5	<0.5	<1.0	2	---	---	---	---	---	
	6/25/2001	---	<50	<0.5	<0.5	<0.5	<1.0	0.8	---	---	---	---	---	
	9/28/2001	---	91	<0.5	<0.5	<0.5	2	2	---	---	---	---	---	
	12/26/2001	---	<50	<0.5	<0.5	<0.5	<1.0	<0.5	---	---	---	---	---	
	7/7/2005	---	<50	<0.5	<0.5	<0.5	<1.0	<0.5	---	<1.0	---	---	<0.5	
	10/19/2005	---	<25	<0.5	<0.5 ³	<0.5	<0.5	<1.0	---	<5.0	<10	<0.5	<0.5	
	1/13/2006	---	<25	<0.5	<0.5	<0.5	<0.5	<1.0	---	<5.0	<10	<0.5	<0.5	
	5/5/2006	---	<25	<0.5	<0.5	<0.5	<0.5	<1.0	---	<5.0	<10	<0.5	<0.5	
	7/19/2006	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5	
	10/5/2006	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5	
	Post excavation	3/29/2007	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5
		6/27/2007	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5
		9/19/2007	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5
		12/19/2007	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5
	3/6/2008	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5	
	6/18/2008	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5	
	9/10/2008	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5	
	12/10/2008	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5	
	3/4/2009	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5	
	6/3/2009	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5	
	8/27/2009	---	<55	<0.55	<0.55	<0.55	<1.6	<0.55	---	<1.55	<11	<0.55	<0.55	
MW-4	12/6/1999	160	<50	3	2	0.6	4	140	---	---	---	---	---	
	3/16/2000	90	<50	0.5	0.5	<0.5	2	34	---	---	---	---	---	
	6/13/2000	<50	56	<0.5	<0.5	<0.5	<1.0	1	---	---	---	---	---	
	9/29/2000	<50	92	0.7	<0.5	<0.5	3	<1.0	2	---	---	---	---	
	4/5/2001	<50	51	<0.5	0.5	<0.5	1	6	2	---	---	---	---	
	6/25/2001	---	<50	<0.5	<0.5	<0.5	<1.0	<0.5	---	---	---	---	---	
	9/28/2001	---	<50	<0.5	<0.5	<0.5	2	2	---	---	---	---	---	
	12/26/2001	---	<50	1.6	1.7	1.6	4.4	2.7	---	---	---	---	---	
	7/7/2005	---	<50	<0.5	<0.5	<0.5	<1.0	<0.5	---	<1.0	---	---	<0.5	
	10/19/2005	---	<25	<0.5	<0.5 ³	<0.5	<0.5	<1.0	---	<5.0	<10	<0.5	<0.5	
	1/13/2006	*****Not sampled*****												
	5/5/2006	*****Not sampled*****												
	7/19/2006	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5	
	10/5/2006	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5	
	Post excavation	3/29/2007	---	<50	<0.5	<0.5	<0.5	<1.5	0.69	---	<0.5	<10	<0.5	<0.5
		6/27/2007	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5
		9/19/2007	---	<50	<0.5	<0.5	<0.5	<1.5	1.38	---	<0.5	<10	<0.5	<0.5
		12/19/2007	---	63	5	<0.5	<0.5	<0.5	<1.5	2.20	---	<0.5	<10	0.590
		3/6/2008	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5
		6/18/2008	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	<0.5
	9/10/2008	---	<50	<0.5	<0.5	<0.5	<1.5	0.700	---	<0.5	<10	<0.5	<0.5	
	12/10/2008	---	<50	<0.5	<0.5	<0.5	<1.5	2.04	---	<0.5	<10	<0.5	<0.5	
	3/4/2009	---	<50	<0.5	<0.5	<0.5	<1.5	2.96	---	<0.5	<10	<0.5	<0.5	
	6/3/2009	---	<50	<0.5	<0.5	<0.5	<1.5	1.5	---	<0.5	<10	<0.5	<0.5	
	8/27/2009	---	<50	<0.5	<0.5	<0.5	<1.5	4.9	---	<0.5	11	1.3	1.3	
	12/10/2009	---	<50	<0.5	<0.5	<0.5	<1.5	4.1	---	<0.5	<5	0.71	0.71	
MW-5	12/6/1999	2,800	30,000	2,200	3,300	910	7000	670	---	---	---	---	---	
	3/16/2000	1,100	3,500	1,100	260	210	6300	260	---	---	---	---	---	
	6/13/2000	1,100	6,500	2200	360	360	730	480	---	---	---	---	---	
	9/29/2000	700	3,900	990	120	300	340	390	2	---	---	---	---	
	3/22/2001	380	4,300	780	240	250	530	190	---	---	---	---	---	
	6/25/2001	---	3,100	1000	110	200	320	140	---	---	---	---	---	
	9/28/2001	---	3,000	1200	77	120	170	770	---	---	---	---	---	
	12/26/2001	---	3,240	738	262	218	626	66.4	---	---	---	---	---	
	8/24/2005	---	150	57	3	8	3.9	67	---	<1.0	18	3.0	3.0	
	10/19/2005	---	560	130	3.8	23	9.3	230	---	<25	<50	11	11	
	1/13/2006	---	2,300	570	18	120	140	220	---	<25	<50	14	14	
	5/5/2006	---	130	35	1.7	7.8	7.4	8	---	<5.0	<10	0.55	0.55	
	7/19/2006	---	210	102	1.54	15.8	3.85	27.6	---	<0.5	<10	2.06	2.06	
	10/5/2006	---	410	105	1.06	9.05	2.24	101	---	0.640	11.3	6.65	6.65	
*****Well Abandoned 12/27/2006*****														



Table 3
Summary of Groundwater Monitoring Analytical Results
Former Olympian Service Station
1435 Webster Street
Alameda, California

Well ID	Sample Date	TPHd	TPHg	Concentrations in micrograms per liter (µg/L)					MTBE	TRPH	DIPE	TBA	1,2-DCA
				B	T	E	X						
ESL		100	100	1.0	40	30	20	5.0	---	---	12	0.5	
MW-6	12/6/1999	110	<50	2	2	0.8	8	1	---	---	---	---	
	3/16/2000	<50	<50	8	8	5	18	<0.5	---	---	---	---	
	6/13/2000	<50	75	0.7	1	0.9	2	0.6	---	---	---	---	
	9/29/2000	<50	<50	<0.5	<0.5	<0.5	<1.0	<0.5	---	---	---	---	
	3/22/2001	<50	66	0.5	<0.5	<0.5	<1.0	3	---	---	---	---	
	6/25/2001	---	<50	<0.5	<0.5	<0.5	<1.0	4	---	---	---	---	
	9/28/2001	---	63	2	ND	ND	1	3	---	---	---	---	
	12/26/2001	---	<50	<0.5	<0.5	<0.5	1.4	<0.5	---	---	---	---	
	7/7/2005	---	<50	<0.5	<0.5	<0.5	<1.0	<0.5	---	<1.0	---	<0.5	
	10/19/2005	---	<25	<0.5	<0.5 ³	<0.5	<0.5	<1.0	---	<5.0	<10	<0.5	
	1/13/2006	---	<25	<0.5	<0.5	<0.5	<0.5	<1.0	---	<5.0	<10	<0.5	
	5/5/2006	---	<25	<0.5	<0.5	<0.5	<0.5	<1.0	---	<5.0	<10	<0.5	
	7/19/2006	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	
	10/5/2006	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	
	Post excavation	3/29/2007	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5
	6/27/2007	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	
	9/19/2007	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	
	12/19/2007	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	
	3/6/2008	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	
	6/18/2008	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	
9/10/2008	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5		
12/10/2008	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5		
3/4/2009	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5		
6/3/2009	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5		
8/27/2009	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5		
MW-7	3/29/2007	---	840	50.8	9.33	2.54	162	39.9	---	<0.5	<10	2.26	
	6/27/2007	---	270	126	<0.5	7.11	<1.5	94.4	---	0.550	58.4	6.21	
	9/19/2007	---	191	4	0.5	<0.5	5.38	<1.5	---	<0.5	28.5	4.37	
	12/19/2007	---	54	4	<0.5	<0.5	<0.5	<1.5	---	<0.5	<10	1.09	
	3/6/2008	---	<50	<0.5	<0.5	<0.5	<1.5	4.83	---	<0.5	<10	0.59	
	6/18/2008	---	<50	0.840	<0.5	0.500	<1.5	52.5	---	<0.5	15.3	5.70	
	9/10/2008	---	55	4	<0.5	<0.5	<0.5	<1.5	---	<0.5	<10	1.98	
	12/10/2008	---	<50	<0.5	<0.5	<0.5	<1.5	2.43	---	<0.5	<10	<0.5	
	3/4/2009	---	<50	<0.5	<0.5	<0.5	<1.5	0.530	---	<0.5	<10	<0.5	
	6/3/2009	---	<50	0.62	<0.5	<0.5	<1.5	5.2	---	<0.5	<10	<0.5	
8/27/2009	---	<50	<0.5	<0.5	<0.5	<1.5	4.8	---	<0.5	<10	0.55		
MW-8	4/6/2007	---	27,000	2,460	1,520	210	1,810	16,000	---	24.3	1,050	459	
	6/27/2007	---	20,000	2,460	382	611	1,040	7,310	---	11.1	3,400	319	
	9/19/2007	---	20,400	4	814	16.2	219	21.6	10,300	---	<4.40	7,080	194
	12/19/2007	---	14,100	4	426	10.6	115	22.4	12,700	---	25.0	864	289
	3/6/2008	---	19,000	5	639	19.5	268	152	11,200	---	<4.4	<88	227
	6/18/2008	---	5,800	4	496	11.7	258	24.4	9,730	---	15.7	468	209
	9/10/2008	---	9,900	299	11.1	73.0	13.6	11,600	---	27.1	1,670	240	
	12/10/2008	---	6,900	477	3.98	57.9	22.6	11,600	---	23.1	634	287	
	3/4/2009	---	8,500	4	168	1.35	17.3	8.59	8,190	---	7.00	2,050	238
	6/3/2009	---	11,000	5	490	3.90	57	16	14,000	---	<0.5	<10	310
8/27/2009	---	5,400	5	340	8.3	67	37	8,900	---	21	2,900	300	
MW-9	8/27/2009	---	<50	<0.5	<0.5	<0.5	<1.5	12	---	<0.5	<10	0.76	
	12/10/2009	---	<50	<0.5	0.50	<0.5	<1.5	4.8	---	<0.5	<5.0	<0.5	

Notes:

TPHd = Total Petroleum Hydrocarbons as Diesel (EPA Method 8015)
TPHg = Total Petroleum Hydrocarbons as Gasoline by EPA Method 8015; after July 2005 by EPA 8260
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes by EPA Method 8020; after July 2005 by EPA 8260
Fuel Additives = Methyl-tert-butyl ether (MTBE), Di-isopropyl ether (DIPE), tert-Butyl alcohol (TBA), 1,2-Dichloroethane (1,2-DCA) by EPA Method 8260B
TRPH = Total Recoverable Petroleum Hydrocarbons
<X = Concentration less than laboratory reporting limit
--- = Not Analyzed
¹ = Does not match diesel chromatogram pattern
² = Confirmed by EPA Method 8260
³ = Toluene was detected at concentrations of 1 ppb in sample from well MW-2, 0.74 ppb in sample from well MW-3, 0.9 ppb in sample from well MW-4, and 0.66 ppb in sample from well MW-6. Data were adjusted to non-detect because of the presence of toluene (0.81 ppb) in method blank and the sample results were less than 5 times in the blank (EPA, Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1994).
⁴ = TPH Gasoline value is primarily due to individual peaks / non-target compounds within gasoline quantitative range.
⁵ = TPH value partially due to individual peak (MTBE) within gasoline quantitative range.
ESLs = Environmental Screening Levels (Table F-1a), groundwater is a current or potential drinking water resource (CRWQCB, Interim Final, November 2007, revised May 2008).
yellow row = most recent data

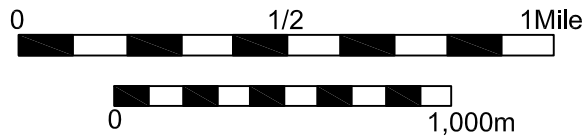
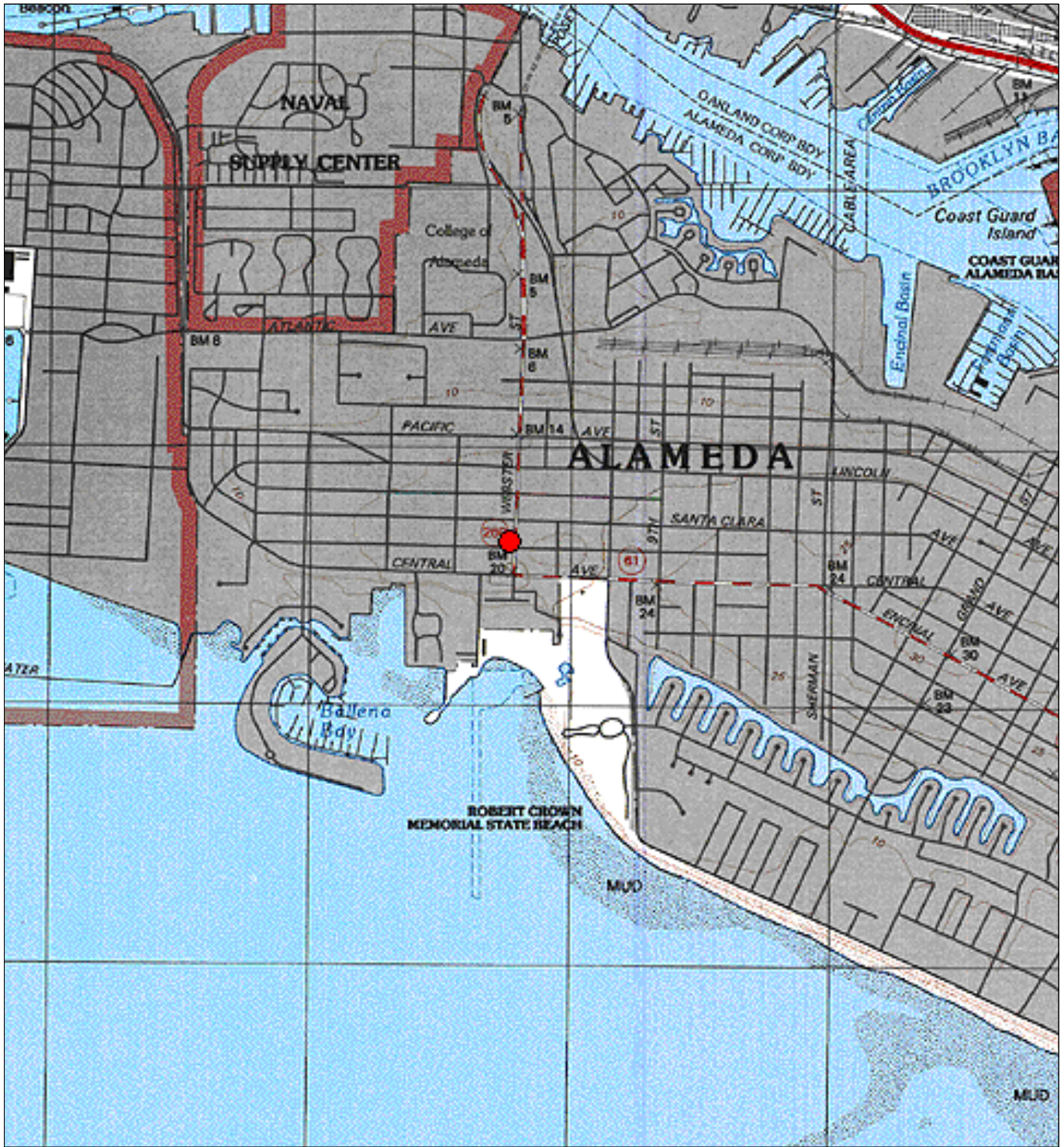


Table 4
Summary of Soil Vapor Sampling Analytical Results
Former Olympian Service Station
1435 Webster Street
Alameda, California

Sample Point	Date	Sampling Duration	Sampling Depth	TPHg ug/m ³	B ug/m ³	T ug/m ³	E ug/m ³	X (m,p) ug/m ³	X (o) ug/m ³	MTBE ug/m ³	DIPE ug/m ³	ETBE ug/m ³	TAME ug/m ³	tBA ug/m ³	PCE ug/m ³	Isopropanol ug/m ³	Acetone ug/m ³	O ₂	CH ₄	CO ₂
		min	ft															%	%	%
SV-1	5/14/2003	--	3.5	5,400	<1,000	1,900	<1,000	<1,000	--	<1,000	<1,000	<1,000	<1,000	<5,000	--	--	--	--	--	--
SV-2	5/14/2003	--	3.5	<1,000	<1,000	<1,000	<1,000	<1,000	--	<1,000	<1,000	<1,000	<1,000	<5,000	--	--	--	--	--	--
SV-3	5/14/2003	--	3.5	5,800	<1,000	3,700	<1,000	<1,000	--	<1,000	<1,000	<1,000	<1,000	<5,000	--	--	--	--	--	--
SV-4	5/14/2003	--	3.5	<1,000	<1,000	<1,000	<1,000	<1,000	--	<1,000	<1,000	<1,000	<1,000	<5,000	--	--	--	--	--	--
SV-5	5/14/2003	--	3.5	<1,000	<1,000	<1,000	<1,000	<1,000	--	<1,000	<1,000	<1,000	<1,000	<5,000	--	--	--	--	--	--
SV-6	5/14/2003	--	3.5	<1,000	<1,000	<1,000	<1,000	<1,000	--	<1,000	<1,000	<1,000	<1,000	<5,000	--	--	--	--	--	--
SV-7	5/14/2003	--	3.5	<1,000	<1,000	<1,000	<1,000	<1,000	--	<1,000	<1,000	<1,000	<1,000	<5,000	--	--	--	--	--	--
SV-7 dupl.	5/14/2003	--	3.5	<1,000	<1,000	<1,000	<1,000	<1,000	--	<1,000	<1,000	<1,000	<1,000	<5,000	--	--	--	--	--	--
VMP-1 (4)	8/11/2009	6	4	<2,800	<3.2	<3.8	<4.3	<4.1	<4.3	<3.6	<4.2	<4.2	<4.2	<12	10	<33	22	15	<0.0023	4.8
	12/22/2009	9	4	<2,800	<3.2	<3.8	<4.3	<4.1	<5.4	<3.6	--	--	--	--	--	<33	--	16	<0.0012	3.4
VMP-1 (8)	8/11/2009	6	8	<2,800	<3.2	<3.8	<4.3	<4.1	<4.3	<3.6	<4.2	<4.2	<4.2	<12	9	97	46	21	<0.0022	4.6
dupl.	8/11/2009	10	8	<2,800	<3.2	<3.8	<4.3	<4.1	<4.3	<3.6	<4.2	<4.2	<4.2	<12	8	110	51	25	<0.0024	3.6
	12/22/2009	6	8	<2,800	<3.2	<3.8	<4.3	<4.1	<5.4	<3.6	--	--	--	--	--	<33	--	16	<0.0012	5.4
VMP-2 (4)	8/11/2009	15	4	<2,800	<3.2	<3.8	<4.3	<4.1	<4.3	<3.6	<4.2	<4.2	<4.2	<12	32	<33	19	26	<0.0019	2.5
	12/22/2009	8	4	<2,800	<3.2	<3.8	<4.3	<4.1	<5.4	<3.6	--	--	--	--	--	<33	--	15	<0.0012	3.7
VMP-2 (8)	8/11/2009	11	8	<2,800	<3.2	<3.8	<4.3	<4.1	<4.3	<3.6	<4.2	<4.2	<4.2	<12	15	170	<19	33	<0.0014	1.5
	12/22/2009	10	8	<2,800	<3.2	<3.8	<4.3	<4.1	11	<3.6	--	--	--	--	--	<33	--	13	<0.0011	4.3
VMP-3 (4)	8/11/2009	6	4	<2,800	<3.2	<3.8	<4.3	<4.1	<4.3	<3.6	<4.2	<4.2	<4.2	<12	24	38	30	29	<0.0018	3.3
	12/22/2009	9	4	<2,800	<3.2	<3.8	<4.3	<4.1	<5.4	<3.6	--	--	--	--	--	<33	--	22	<0.0011	4.5
VMP-3 (8)	8/11/2009	5	8	<2,800	<3.2	<3.8	<4.3	<4.1	<4.3	<3.6	<4.2	<4.2	<4.2	<12	21	<33	23	23	<0.0019	6.4
	12/22/2009	7	8	<2,800	<3.2	<3.8	<4.3	<4.1	<5.4	<3.6	--	--	--	--	--	<33	--	7.4	<0.0011	9.5
VMP-4 (4)	8/11/2009	6	4	<2,800	<3.2	<3.8	<4.3	<4.1	<4.3	<3.6	<4.2	<4.2	<4.2	<12	7.7	39	45	34	<0.0016	1.4
	12/22/2009	12	4	<2,800	<3.2	<3.8	<4.3	<4.1	<5.4	<3.6	--	--	--	--	--	38	--	16	<0.0013	4.5
VMP-4 (8)	8/11/2009	7	8	<2,800	<3.2	<3.8	<4.3	<4.1	<4.3	<3.6	<4.2	<4.2	<4.2	<12	13	<33	38	16	<0.0015	5.0
	12/22/2009	8	8	<2,800	<3.2	<3.8	<4.3	<4.1	<5.4	<3.6	--	--	--	--	--	<33	--	17	<0.0015	4.1
VMP-5 (4)	8/11/2009	12	4	<3,000	<3.4	<4.1	<4.7	<4.4	<4.7	<3.9	<4.5	<4.5	<4.5	<13	30	<35	46	22	<0.0027	4.5
	12/22/2009	9	4	<2,800	<3.2	<3.8	<4.3	<4.1	<5.4	<3.6	--	--	--	--	--	<33	--	33	<0.0011	1.5
VMP-5 (8)	8/11/2009	8	8	<2,800	<3.2	6.7	<4.3	<4.1	<4.3	<3.6	<4.2	<4.2	<4.2	<12	14	<33	40	36	<0.0024	1.9
	12/22/2009	7	8	<2,800	<3.2	<3.8	<4.3	<4.1	<5.4	<3.6	--	--	--	--	--	<33	--	22	<0.0016	3.5
Atmosphere #1 (ATM-01)	8/11/2009	---	--	---	---	---	---	---	---	---	---	---	---	---	---	1,700,000E	---	---	---	---
Standard for Comparison:				ESLs:	29,000	140	180,000	3,300	58,000	31,000	---	---	---	---	1,400	DTSC Limit:	10,000	Atmospheric Conc.:		
Notes and Abbreviations:																		21.9	0.00018	0.039
-- = not analyzed or data not available																				
min = minutes																				
ug/m ³ = micrograms per cubic meter																				
B, T, E, X = benzene, toluene, ethyl benzene, xylenes																				
MTBE = methyl tert-butyl ether																				
DIPE = Diisopropyl ether																				
ETBE = Ethyl tert-butyl ether																				
TAME = tert-Amyl methyl ether																				
tBA = tert-Butyl alcohol																				
PCE = tetrachloroethene																				
O ₂ = oxygen, CH ₄ = methane, and CO ₂ = carbon dioxide, by Method ASTM D-1946																				
dupl. = laboratory split and duplicate																				
2003 samples were collected in a calibrated syringe and analyzed by EPA Method 8260B.																				
2009 samples were collected in Summa canisters and analyzed by EPA Method TO-15, Torrent Laboratory.																				
E = estimated value; the amount exceeds the calibration range but is within linear working range of the instrument.																				
ESLs = Environmental Screening Levels, Table E-2 (Soil Gas in Shallow Soils, commercial/industrial land use scenario, lowest levels), California Regional Water Quality Control Board, Interim Final, November 2007, revised May 2008.																				
Concentrations above ESLs for soil gas are shown in bold																				
DTSC Limit = a standard, issued by the Department of Toxic Substances Control (2003), representing significant Isopropanol contamination																				
Atmospheric Conc. = average atmospheric concentration of each gas																				



FIGURES



● Site Location

Map By: TOPO!

Date: 9/15/2009

Drafted By: LC

SITE
1435 Webster Street
Alameda, California



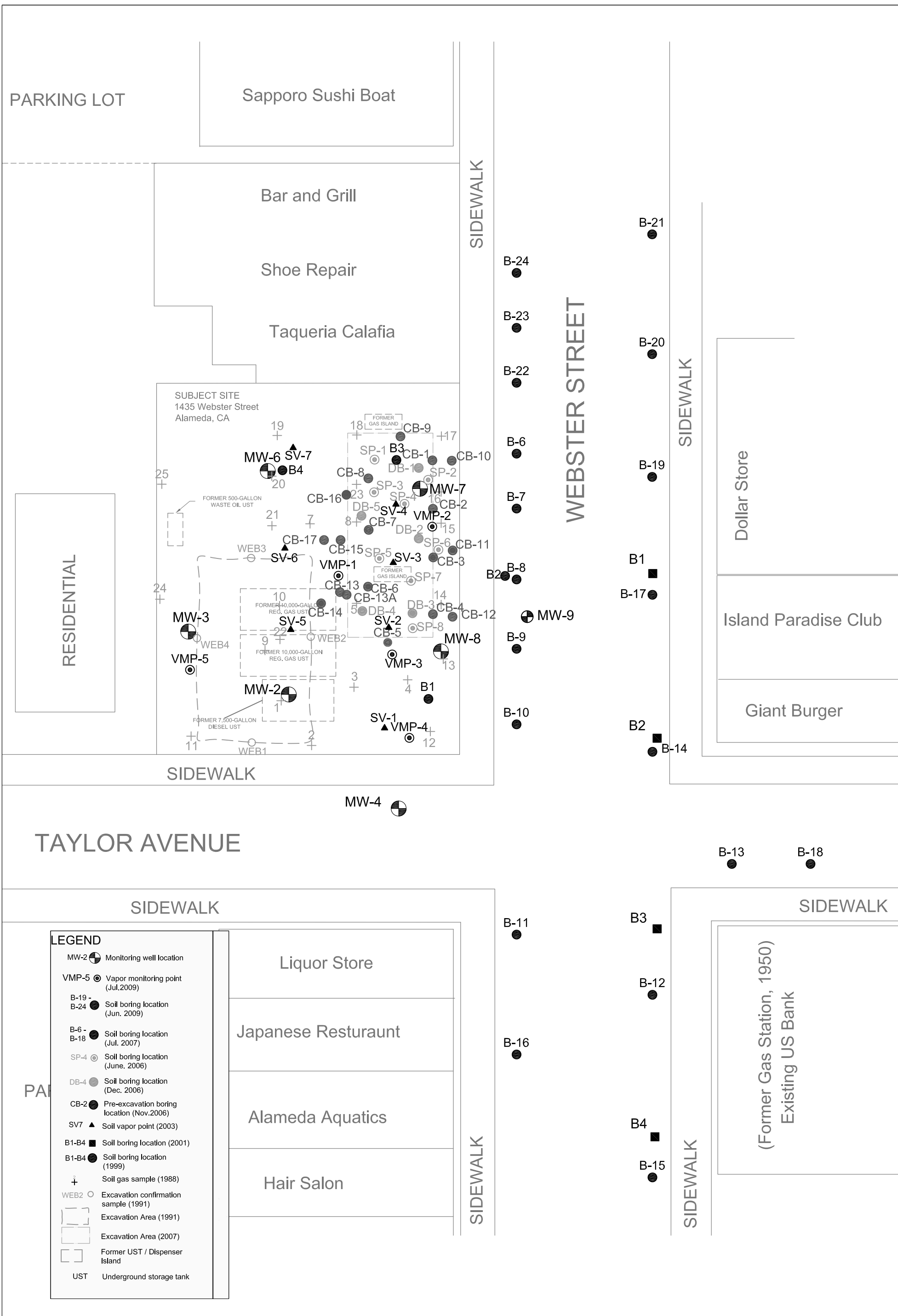
262 Michelle Court
So. San Francisco, CA 94080
Main: (650) 616-1200
Fax: (650) 616-1244

FIGURE

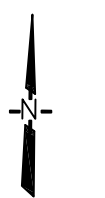
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TITLE

Vicinity Map



LEGEND	
MW-2	Monitoring well location
VMP-5	Vapor monitoring point (Jul. 2009)
B-19 - B-24	Soil boring location (Jun. 2009)
B-6 - B-18	Soil boring location (Jul. 2007)
SP-4	Soil boring location (June, 2006)
DB-4	Soil boring location (Dec. 2006)
CB-2	Pre-excavation boring location (Nov. 2006)
SV7	Soil vapor point (2003)
B1-B4	Soil boring location (2001)
B1-B4	Soil boring location (1999)
+	Soil gas sample (1988)
WEB2	Excavation confirmation sample (1991)
[Dashed Box]	Excavation Area (1991)
[Solid Box]	Excavation Area (2007)
[Dotted Box]	Former UST / Dispenser Island
UST	Underground storage tank



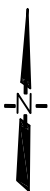
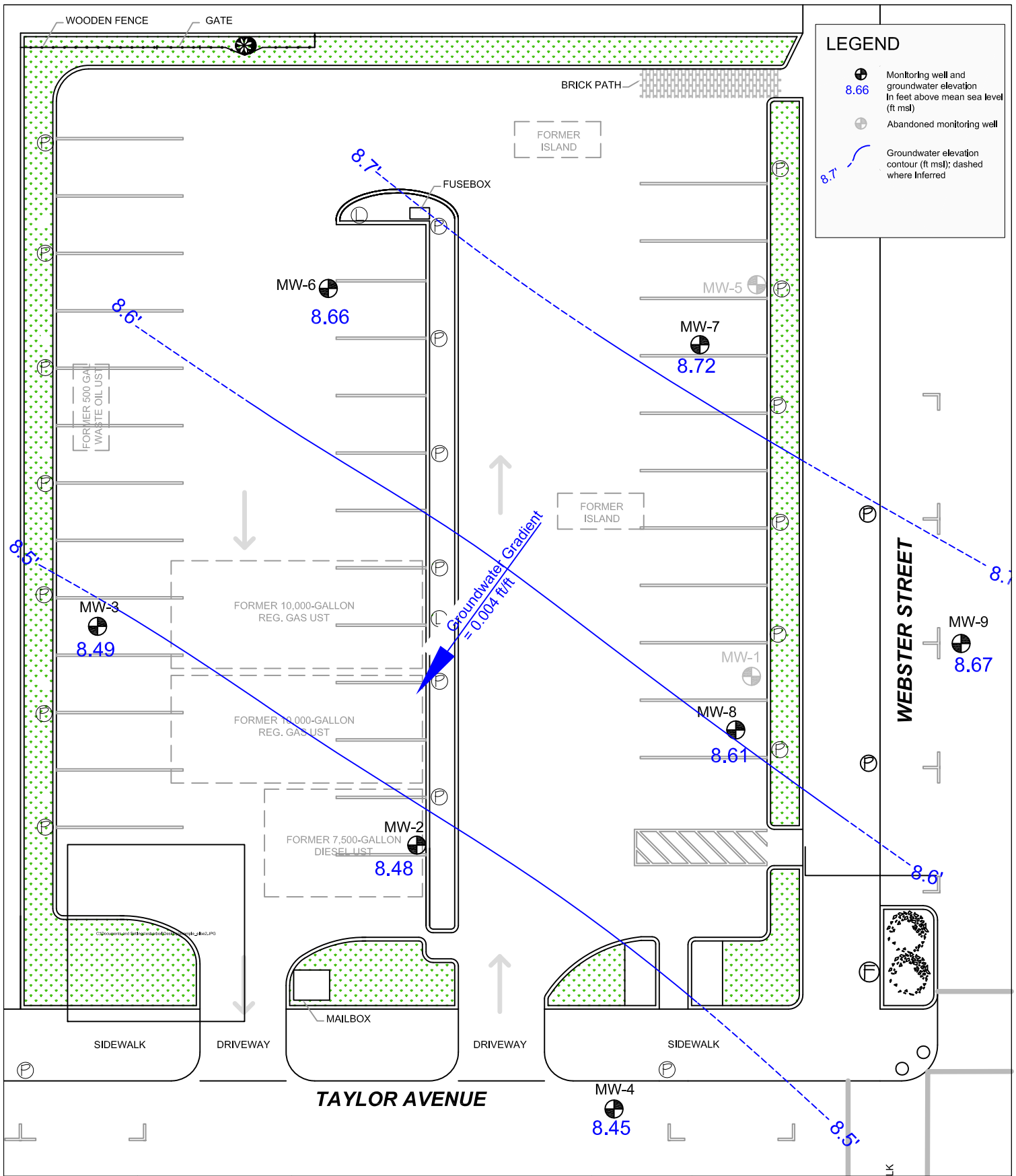
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SCALE (ft)		
Revision:	0	
Date:	9/28/2009	
Drafted By:	LC	

TEC ACCUTITE 262 Michelle Court
 So. San Francisco, CA 94080
 Main: (650) 616-1200
 Fax: (650) 616-1244

SITE
 1435 Webster
 Alameda, California

FIGURE 2

Site Map



Revision:
Date: 12/21/2009
Drafted By: ES

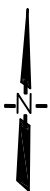
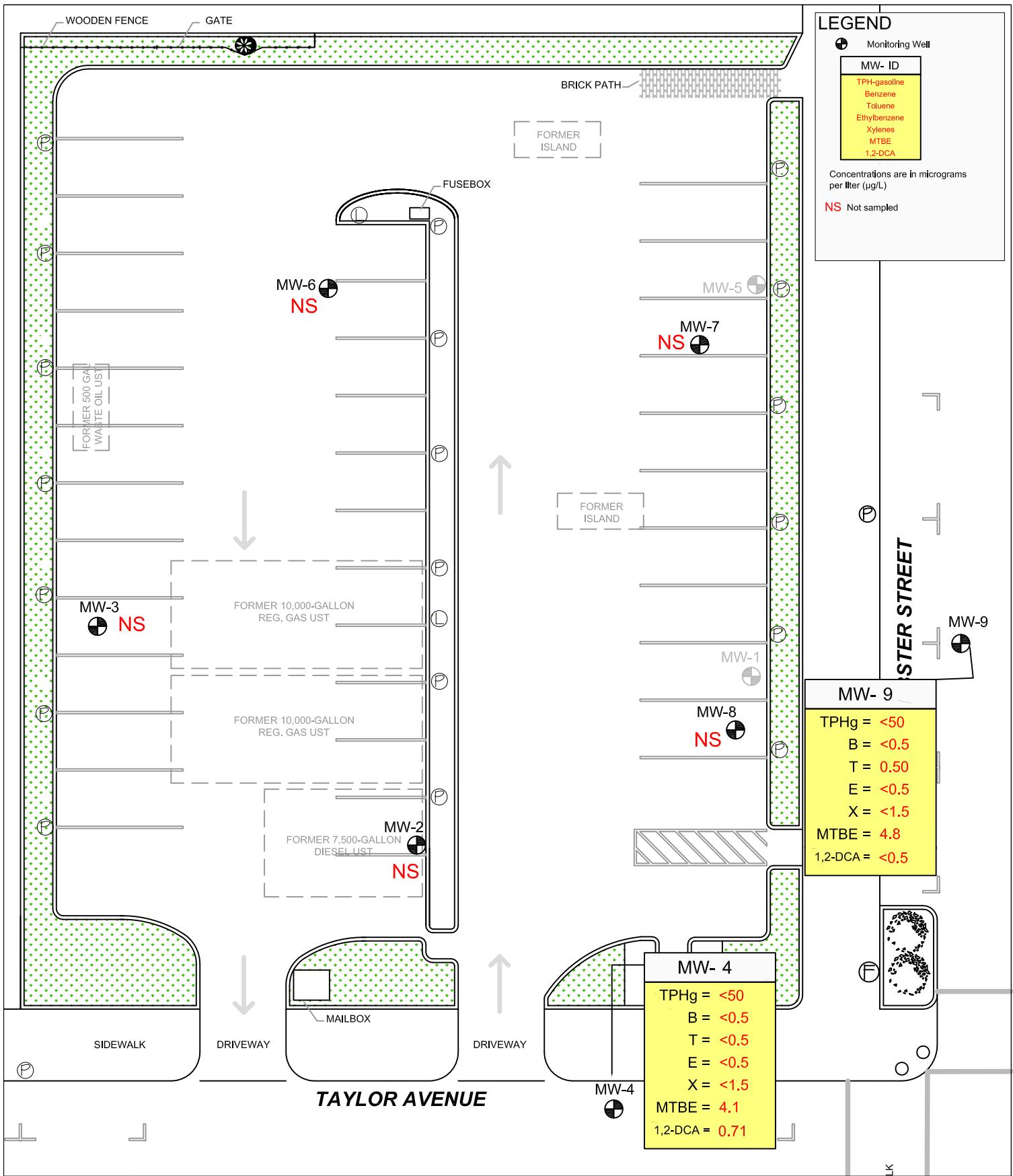


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SITE
1435 Webster Street
Alameda, California

FIGURE 3

Groundwater Gradient Map
December 10, 2009



Revision:
 Date: 12/21/2009
 Drafted By: ES



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 So. San Francisco, CA 94080
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SITE
 1435 Webster Street
 Alameda, California

FIGURE 4

Petroleum Hydrocarbons in Groundwater
December 2009

ATTACHMENT A

FIELD DATA SHEETS

TEC ACCUTITE Well Data Sheet

Date: 12/10/09	Site Name: 1435 Webster	Project #: E-322-4-09	Sampler: BD
Event: Q4 QMR	Site Address: Alameda	Client: Olympian	

WELL ID	TIME	MEASUREMENT					WELL DIAMETER	COMMENTS (i.e. pressurized or maintenance req.)
		DTP	PT	DTW	Historic DTB date: 6/3/09	Today's DTB		
MW-2	946			11.32	19.42		2"	
MW-3	941			11.30	21.85		2"	
MW-4	948			10.85	19.76		2"	
MW-6	944			11.61	19.34		2"	
MW-7	950			10.21	19.81		4"	
MW-8	951			10.72	20.03		4"	
MW-9	953			10.16	19.94		4"	

Abbreviations:

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-322-4-09 Purged By: BD Well ID: MW-4
 Client Name: Olympian Sampled By: BD Sample ID: MW-4
 Location: 1435 Webster QA Samples: ---

Purge Information

Date: 12/10/09 Start (2400hr): 1040 End (2400hr): 1044
 Depth to Bottom: 19.76 Depth to Water: 10.85 Casing Diameter: 2"
 DTB - DTW: 8.91 Purge (gal): 1.51 x 3 volumes: 4.54

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
<u>1040</u>	<u>1.51</u>	<u>19.8</u>	<u>385</u>	<u>7.03</u>	<u>mod.</u>	<u>brown</u>	<u>18.31</u>
<u>1044</u>	<u>DRY</u>	<u>@ ~ 2.5 GALLONS</u>					

Sample Information

Date: 12/10/09 Time: 1058 DTW: 12.51 Turbidity: low
 Odor: slight Analysis: 8260 Sample Vessels: 3 VOA's
 Preservative: HCl

Purging Equipment

submersible pump peristaltic pump
 bailer (disposable) bailer (st. steel)
 dedicated bladder pump
 other: _____

Sampling Equipment

submersible pump peristaltic pump
 bailer (disposable) bailer (st. steel)
 dedicated bladder pump
 other: _____

Well Integrity: good Lock: no

Note: To convert water column height to total amount of gallons in one well volume, multiply the water column height by: .17 for 2" well diameter, .65 for 4", 1.47 for 6", or 2.62 for 8".

Signature: Brian Deberity

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-322-4-09 Purged By: BD Well ID: MW-9

Client Name: Olympian Sampled By: BD Sample ID: MW-9

Location: 1435 Webster QA Samples: ---

Purge Information

Date: 12/10/09 Start (2400hr): 1005 End (2400hr): 1015

Depth to Bottom: 19.94 Depth to Water: 10.16 Casing Diameter: 4"

DTB - DTW: 9.78 Purge (gal): 6.36 x 3 volumes: 19.07

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
<u>1008</u>	<u>6.36</u>	<u>19.8</u>	<u>669</u>	<u>6.66</u>	<u>10W</u>	<u>clear</u>	<u>14.08</u>
<u>1011</u>	<u>12.72</u>	<u>19.9</u>	<u>667</u>	<u>6.50</u>	<u>"</u>	<u>"</u>	<u>16.55</u>
<u>1015</u>	<u>19.07</u>	<u>20.0</u>	<u>679</u>	<u>6.46</u>	<u>"</u>	<u>"</u>	<u>16.62</u>

Sample Information

Date: 12/10/09 Time: 1025 DTW: 11.63 Turbidity: 10W

Odor: slight Analysis: E260 Sample Vessels: 3 100ml
Preservative: HCl

Purging Equipment

submersible pump ___ peristaltic pump
 ___ bailer (disposable) ___ bailer (st. steel)
 ___ dedicated ___ bladder pump
 other: _____

Sampling Equipment

submersible pump ___ peristaltic pump
 ___ bailer (disposable) ___ bailer (st. steel)
 ___ dedicated ___ bladder pump
 other: _____

Well Integrity: good Lock: NO

Note: To convert water column height to total amount of gallons in one well volume, multiply the water column height by: .17 for 2" well diameter, .65 for 4", 1.47 for 6", or 2.62 for 8".

Signature: Brian Doherty

Summa/manifold

1435 Webster Street, Alameda, California

Soil Vapor Sampling

Initials: **BD**

Date: **12/22/09**

Summa No.	VMP No. and depth		Start Time	Initial Pressure (mg Hg)	Finish Time	Final Pressure (mg Hg)	PID reading	Notes
6121	VMP-1 @4'	vacuum test	932	29/30	937	29/30	9.5	
		purge	937	29/30	939	28/30		
		sample	942	30	951	4		
6119 6108	VMP-1 @8'	vacuum test	1004	27/29	1009	27/29	8.7	
		purge	1009	27/29	1011	25/24		
		sample	1018	25/29	1024	3		
6314	VMP-2 @4'	vacuum test	1038	25/23	1043	25/23	7.3	
		purge	1043	25/23	1045	24/23		
		sample	1047	24	1055	2		
6113	VMP-2 @8'	vacuum test	1059	23/22	1101	23/22	5.0	
		purge	1105	23/22	1107	21/21		
		sample	1108	28	1118	1		
5431	VMP-3 @4'	vacuum test	1124	20/22	1129	20/22	7.9	
		purge	1129	20/22	1131	20/21		
		sample	1136	29	1145	1		
6125	VMP-3 @8'	vacuum test	1152	19/21	1157	19/21	5.3	
		purge	1157	19/21	1159	18/20		
		sample	1200	26	1207	2		
6123	VMP-4 @4'	vacuum test	1244	18/18	1249	18/18	3.7	
		purge	1249	18/18	1251	15/17		
		sample	1252	25	1304	2		
6128	VMP-4 @8'	vacuum test	1319	28/22	1324	28/22	4.2	manifold giving much different reading than purge canister.
		purge	1324	28/22	1326	26/18		
		sample	1329	24	1337	2		
6336	VMP-5 @4'	vacuum test	1358	28/22	1403	28/22	3.9	
		purge	1403	28/22	1405	25/21		
		sample	1406	27	1414	0.5		
6109	VMP-5 @8'	vacuum test	1419	24/22	1424	24/22	3.5	
		purge	1424	24/22	1426	21/20		
		sample	1431	26	1438	3		
		vacuum test						
		purge						
		sample						

ATTACHMENT B

LABORATORY REPORT AND
CHAIN-OF-CUSTODY DOCUMENTATION





December 17, 2009

Brian Doherty
TEC Accutite
262 Michelle Ct
South San Francisco, CA 94080

TEL: (650) 616-1200

FAX (650) 616-1244

RE: 16998/1435 Webster St. Alameda

Order No.: 0912098

Dear Brian Doherty:

Torrent Laboratory, Inc. received 2 samples on 12/10/2009 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Reported data is applicable for only the samples received as part of the order number referenced above.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,


Laboratory Director

12/17/09
Date

Patti Sandrock
QA Officer 



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Brian Doherty
TEC Accutite

Date Received: 12/10/2009
Date Reported: 12/17/2009

Client Sample ID: MW-4
Sample Location: 16998/1435 Webster St. Alameda
Sample Matrix: GROUNDWATER
Date/Time Sampled 12/10/2009 10:58:00 AM

Lab Sample ID: 0912098-001
Date Prepared: 12/14/2009

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
Toluene	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
Ethylbenzene	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
Methyl tert-butyl ether (MTBE)	SW8260B	12/14/2009	0.5	1	0.50	4.1	µg/L	R22133
Diisopropyl ether (DIPE)	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
Ethyl tert-butyl ether (ETBE)	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
tert-Amyl methyl ether (TAME)	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
t-Butyl alcohol (t-Butanol)	SW8260B	12/14/2009	5	1	5.0	ND	µg/L	R22133
1,2-Dibromoethane (EDB)	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
1,2-Dichloroethane (EDC)	SW8260B	12/14/2009	0.5	1	0.50	0.71	µg/L	R22133
Xylenes, Total	SW8260B	12/14/2009	1.5	1	1.5	ND	µg/L	R22133
Surr: Dibromofluoromethane	SW8260B	12/14/2009	0	1	61.2-131	115	%REC	R22133
Surr: 4-Bromofluorobenzene	SW8260B	12/14/2009	0	1	64.1-120	91.7	%REC	R22133
Surr: Toluene-d8	SW8260B	12/14/2009	0	1	75.1-127	110	%REC	R22133
TPH (Gasoline)	SW8260B(TPH)	12/14/2009	50	1	50	ND	µg/L	G22133
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	12/14/2009	0	1	53-118	98.3	%REC	G22133

Report prepared for: Brian Doherty
TEC Accutite

Date Received: 12/10/2009
Date Reported: 12/17/2009

Client Sample ID: MW-9
Sample Location: 16998/1435 Webster St. Alameda
Sample Matrix: GROUNDWATER
Date/Time Sampled 12/10/2009 10:25:00 AM

Lab Sample ID: 0912098-002
Date Prepared: 12/14/2009

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Benzene	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
Toluene	SW8260B	12/14/2009	0.5	1	0.50	0.50	µg/L	R22133
Ethylbenzene	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
Methyl tert-butyl ether (MTBE)	SW8260B	12/14/2009	0.5	1	0.50	4.8	µg/L	R22133
Diisopropyl ether (DIPE)	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
Ethyl tert-butyl ether (ETBE)	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
tert-Amyl methyl ether (TAME)	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
t-Butyl alcohol (t-Butanol)	SW8260B	12/14/2009	5	1	5.0	ND	µg/L	R22133
1,2-Dibromoethane (EDB)	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
1,2-Dichloroethane (EDC)	SW8260B	12/14/2009	0.5	1	0.50	ND	µg/L	R22133
Xylenes, Total	SW8260B	12/14/2009	1.5	1	1.5	ND	µg/L	R22133
Surr: Dibromofluoromethane	SW8260B	12/14/2009	0	1	61.2-131	123	%REC	R22133
Surr: 4-Bromofluorobenzene	SW8260B	12/14/2009	0	1	64.1-120	89.3	%REC	R22133
Surr: Toluene-d8	SW8260B	12/14/2009	0	1	75.1-127	111	%REC	R22133
TPH (Gasoline)	SW8260B(TPH)	12/14/2009	50	1	50	ND	µg/L	G22133
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	12/14/2009	0	1	53-118	104	%REC	G22133

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

CLIENT: TEC Accutite
Work Order: 0912098
Project: 16998/1435 Webster St.Alameda

ANALYTICAL QC SUMMARY REPORT

BatchID: G22133

Sample ID: MB-G22133	SampType: MBLK	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 12/14/2009	RunNo: 22133						
Client ID: ZZZZZ	Batch ID: G22133	TestNo: SW8260B(TP)	Analysis Date: 12/14/2009	SeqNo: 316645							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	ND	50									
Surr: 4-Bromofllurobenzene	9.600	0	11.36	0	84.5	53	118				

Sample ID: LCS-G22133	SampType: LCS	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 12/14/2009	RunNo: 22133						
Client ID: ZZZZZ	Batch ID: G22133	TestNo: SW8260B(TP)	Analysis Date: 12/14/2009	SeqNo: 316646							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	252.0	50	227	0	111	52.4	127				
Surr: 4-Bromofllurobenzene	10.60	0	11.36	0	93.3	53	118				

Sample ID: LCSD-G22133	SampType: LCSD	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 12/14/2009	RunNo: 22133						
Client ID: ZZZZZ	Batch ID: G22133	TestNo: SW8260B(TP)	Analysis Date: 12/14/2009	SeqNo: 316647							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	264.0	50	227	0	116	52.4	127	252	4.65	20	
Surr: 4-Bromofllurobenzene	10.20	0	11.36	0	89.8	53	118	0	0	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: TEC Accutite
Work Order: 0912098
Project: 16998/1435 Webster St.Alameda

ANALYTICAL QC SUMMARY REPORT

BatchID: R22133

Sample ID: MB-R22133		SampType: MBLK		TestCode: 8260B_W_PE Units: µg/L		Prep Date: 12/14/2009		RunNo: 22133			
Client ID: ZZZZZ		Batch ID: R22133		TestNo: SW8260B		Analysis Date: 12/14/2009		SeqNo: 316638			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
Methyl tert-butyl ether (MTBE)	ND	0.50									
Diisopropyl ether (DIPE)	ND	0.50									
Ethyl tert-butyl ether (ETBE)	ND	0.50									
tert-Amyl methyl ether (TAME)	ND	0.50									
t-Butyl alcohol (t-Butanol)	ND	5.0									
1,2-Dibromoethane (EDB)	ND	0.50									
1,2-Dichloroethane (EDC)	ND	0.50									
Xylenes, Total	ND	1.5									
Surr: Dibromofluoromethane	13.27	0	11.36	0	117	61.2	131				
Surr: 4-Bromofluorobenzene	9.740	0	11.36	0	85.7	64.1	120				
Surr: Toluene-d8	12.00	0	11.36	0	106	75.1	127				

Sample ID: LCS-R22133		SampType: LCS		TestCode: 8260B_W_PE Units: µg/L		Prep Date: 12/14/2009		RunNo: 22133			
Client ID: ZZZZZ		Batch ID: R22133		TestNo: SW8260B		Analysis Date: 12/14/2009		SeqNo: 316639			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.66	0.50	17.04	0	110	66.9	140				
Toluene	15.53	0.50	17.04	0	91.1	76.6	123				
Surr: Dibromofluoromethane	12.32	0	11.36	0	108	61.2	131				
Surr: 4-Bromofluorobenzene	10.51	0	11.36	0	92.5	64.1	120				
Surr: Toluene-d8	12.95	0	11.36	0	114	75.1	127				

Sample ID: LCSD-R22133		SampType: LCSD		TestCode: 8260B_W_PE Units: µg/L		Prep Date: 12/14/2009		RunNo: 22133			
Client ID: ZZZZZ		Batch ID: R22133		TestNo: SW8260B		Analysis Date: 12/14/2009		SeqNo: 316640			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	16.21	0.50	17.04	0	95.1	66.9	140	18.66	14.1	20	
Toluene	14.13	0.50	17.04	0	82.9	76.6	123	15.53	9.44	20	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: TEC Accutite
Work Order: 0912098
Project: 16998/1435 Webster St.Alameda

ANALYTICAL QC SUMMARY REPORT

BatchID: R22133

Sample ID: LCSD-R22133	SampType: LCSD	TestCode: 8260B_W_PE Units: µg/L	Prep Date: 12/14/2009	RunNo: 22133							
Client ID: ZZZZZ	Batch ID: R22133	TestNo: SW8260B	Analysis Date: 12/14/2009	SeqNo: 316640							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	12.18	0	11.36	0	107	61.2	131	0	0	0	
Surr: 4-Bromofluorobenzene	9.670	0	11.36	0	85.1	64.1	120	0	0	0	
Surr: Toluene-d8	12.65	0	11.36	0	111	75.1	127	0	0	0	

Qualifiers:	E Value above quantitation range	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits

Torrent Laboratory, Inc.

WORK ORDER Summary

11-Dec-09

Work Order 0912098

Client ID: TEC ACCUTITE

Project: 16998/1435 Webster St.Alameda

QC Level:

Comments: 5 day TAT!!!Recv'd 2 water samples for TPHg;BTEX and Fuel Oxygenates;Run to ESLs.Pls. Email an EDF result to tecacutite@gmail.com.

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0912098-001A	MW-4	12/10/2009 10:58:00 AM	12/10/2009	12/16/2009	Groundwater	8260B_W_PETRO LELIM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ORG
				12/16/2009		EDF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ORG
0912098-002A	MW-9	12/10/2009 10:25:00 AM		12/16/2009		TPH_GAS_W_GC MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ORG
				12/16/2009		8260B_W_PETRO LELIM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ORG
				12/16/2009		TPH_GAS_W_GC MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ORG



262 Michelle Court
 South San Francisco, CA 94080
 Ph No.: (650)616 1200, Fax No.: (650)616 1244

0912 098

CHAIN OF CUSTODY

Lab Work Order #: _____

Project Name: 1435 Webster				Report to: <u>Brian</u> tecaccutite@gmail.com		Analysis Required								Turn-around Time (work days)						
Project Address: 1435 Webster St. Alameda, CA				Bill to: TEC Accutite (650) 616-1200		8260 TPHg BTEX oxygenates, lead scavengers											ASAP	1 Day	2 Days	3 Days
Global ID: T0600100766				PO #: <u>16998</u>													<u>5 Days</u>	10 Days	Other:	
Sampler: BD Date: <u>12/10/09</u>																	Sample Type			
																	ground water			
																Report Format				
																EDF				
																Remarks				
Field Point ID	Sample ID	Sample Matrix	# of Containers	Container Type	Sample Date & Time											Run to ESLs				
MW-4	MW-4	W	3	VOAs w/ HCl	<u>12/10/09</u> <u>1058</u>	✓														
MW-9	MW-9	W	3	VOAs w/ HCl	<u>12/10/09</u> <u>1025</u>	✓														
Relinquished by: <u>Brian Doherty</u>				Date: <u>12/10/09</u>		Time: <u>3:06</u>		Received by: <u>[Signature]</u>				Date: <u>12/10/09</u>		Time: <u>3:30</u>						
Relinquished by: <u>[Signature]</u>				Date: <u>12/10/09</u>		Time: <u>6:00</u>		Received by: <u>[Signature]</u>				Date: <u>12-10-09</u>		Time: <u>6:00</u>						

Temp 6°C

ATTACHMENT C

GEOTRACKER SUBMISSION CONFIRMATIONS



STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

<u>Submittal Type:</u>	EDF - Monitoring Report - Quarterly
<u>Submittal Title:</u>	2009 Q4 Groundwater Monitoring Report
<u>Facility Global ID:</u>	T0600100766
<u>Facility Name:</u>	OLYMPIAN #112
<u>File Name:</u>	Tec Accutite 0912098 1435 Webster EDF.zip
<u>Organization Name:</u>	TEC Accutite
<u>Username:</u>	TEC-OLYMPIAN
<u>IP Address:</u>	67.126.45.211
<u>Submittal Date/Time:</u>	12/21/2009 4:48:15 PM
<u>Confirmation Number:</u>	6402321934

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)

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STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

<u>Submittal Type:</u>	GEO_WELL
<u>Submittal Title:</u>	2009 Q4 Groundwater Monitoring Report
<u>Facility Global ID:</u>	T0600100766
<u>Facility Name:</u>	OLYMPIAN #112
<u>File Name:</u>	GEO_WELL.zip
<u>Organization Name:</u>	TEC Accutite
<u>Username:</u>	TEC-OLYMPIAN
<u>IP Address:</u>	67.126.45.211
<u>Submittal Date/Time:</u>	12/21/2009 4:53:09 PM
<u>Confirmation Number:</u>	7956824064

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STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

<u>Submittal Type:</u>	EDF - Monitoring Report - Quarterly
<u>Submittal Title:</u>	2009 Q4 Groundwater Monitoring Report - vapor results
<u>Facility Global ID:</u>	T0600100766
<u>Facility Name:</u>	OLYMPIAN #112
<u>File Name:</u>	revised EDF 0912198.zip
<u>Organization Name:</u>	TEC Accutite
<u>Username:</u>	TEC-OLYMPIAN
<u>IP Address:</u>	67.126.45.211
<u>Submittal Date/Time:</u>	1/8/2010 3:36:29 PM
<u>Confirmation Number:</u>	9994180142

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)

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STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A GEO_REPORT FILE

SUCCESS

Your GEO_REPORT file has been successfully submitted!

<u>Submittal Type:</u>	GEO_REPORT
<u>Report Title:</u>	Fourth Quarter 2009 Groundwater Monitoring Report
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Report Date:</u>	1/20/2010
<u>Facility Global ID:</u>	T0600100766
<u>Facility Name:</u>	OLYMPIAN #112
<u>File Name:</u>	2009_12_10_Q4 QMR_1435 Webster_322-4-09 FINAL.pdf
<u>Username:</u>	TEC Accutite
<u>Username:</u>	TEC-OLYMPIAN
<u>IP Address:</u>	67.126.45.211
<u>Submittal Date/Time:</u>	1/20/2010 11:37:57 AM
<u>Confirmation Number:</u>	7851767301

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