



TEC Environmental

a division of **Technology, Engineering, & Construction, Inc.**

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September 28, 2012

Ms. Karel Detterman, P.G.
Alameda County Health Agency
Division of Environmental Protection
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

RECEIVED

By Alameda County Environmental Health at 5:38 pm, Dec 19, 2012

SUBJECT: PERJURY STATEMENT

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

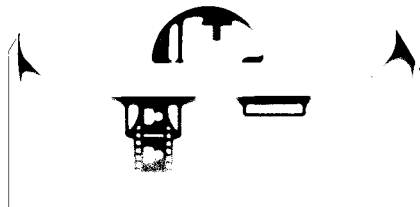
Dear Ms. Detterman:

I declare under penalty of perjury that the information and/or recommendations contained in the attached report is true and correct.

Thank you for your cooperation and assistance on this project. If you have any questions, feel free to contact me at (650) 596-8950.

Sincerely,

Fred Bertetta
Responsible Party





TEC Environmental

a division of **Technology, Engineering, & Construction, Inc.**

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September 28, 2012

Ms. Karel Detterman, P.G.
Alameda County Health Agency
Division of Environmental Protection
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

SUBJECT: THIRD QUARTER 2012 GROUNDWATER MONITORING REPORT

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

Dear Ms. Detterman:

On behalf of Olympian JV, Technology, Engineering & Construction, Inc. is pleased to submit this third quarter 2012 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) 616-1214.

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

A handwritten signature in cursive script that reads 'Elise Sbarbori'.

Elise Sbarbori
Project Manager

cc: Mr. Fred Bertetta c/o Ms. Janet Heikel, Olympian, 1300 Industrial Road, Suite 2, San Carlos, California 94070
Mr. Jeff Farrar, via email
Mr. Ed Firestone, via email
Mr. and Mrs. Charles A. & Ose M. Begley, 2592 Pine View Dr., Fortuna, California 95540

**THIRD QUARTER 2012
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-589**

SAMPLING DATE:

SEPTEMBER 5, 2012

REPORT DATE:

SEPTEMBER 28, 2012



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A	FIELD DATA SHEETS
B	LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION
C	GEOTRACKER SUBMISSION CONFIRMATIONS

1.0 INTRODUCTION

On behalf of Olympian JV, Technology, Engineering & Construction, Inc. (TEC) conducted the third quarter 2012 semi-annual 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 recent groundwater monitoring event. All site groundwater monitoring wells were gauged and sampled in compliance with California Regional Water Quality Control Board Resolution 2009-42 and Alameda County Health Agency (ACHA) 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 used as a parking lot, however the site owner wishes to redevelop the property as mixed commercial (ground floor) / residential.

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.

3.1 Site Timeline

- | | |
|-----------------------|--|
| October 1988 | Soil gas analysis performed onsite identified 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.
- February 2010** *Updated Site Conceptual Model, Health Risk Assessment, Feasibility Study and Corrective Action Plan* submitted to the Alameda County Health Agency. Hydrogen peroxide injection identified as the most effective remedial alternative.
- March 2011** *Corrective Action Plan Addendum* submitted to the Alameda County Health Agency.
- April 2011** Baseline sampling for chromium, hexavalent chromium and other metals completed onsite. Total chromium was detected in wells MW-3, MW-4, MW-6 and MW-7. Chromium was detected at low levels in the hexavalent (oxidized) state in wells MW-3 and MW-4.
- September –
December 2011** Injection Pilot Test completed. 1,078 gallons of 7% hydrogen peroxide solution injected at three target remediation areas onsite.



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). Locations of site monitoring wells are presented in Figure 2. 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 of the contamination 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.

4.0 GROUNDWATER MONITORING

TEC conducted the third quarter monitoring event on September 5, 2012. 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 each well with a dedicated disposable plastic bailer, with the exception of well MW-8, which went dry after purging 2.4 casing volumes. 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 compounds, 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 and to the Alameda County FTP site. 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 was toward the southwest at 0.003 feet/foot (ft/ft) during the September 2012 monitoring event. Groundwater elevations are presented in Table 2 and Figure 3.

4.3.2 Petroleum Hydrocarbons in Groundwater

The highest concentrations of petroleum hydrocarbons in groundwater were detected in the sample from well MW-8 (590 ug/L TPHg, 99 ug/L benzene, 1.1 ug/L ethylbenzene, 20 ug/L ethylbenzene, 4.9 ug/L xylenes, 510 ug/L MTBE, 3,800 ug/L TBA, and 11 ug/L DIPE).



In all other wells, site COCs were not detected above the laboratory reporting limits with the exception of the following:

- 20 ug/L MTBE in well MW-2;
- 79 ug/L TPHg and 140 ug/L MTBE in well MW-4;
- and 2.4 ug/L MTBE in well MW-7.

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

5.0 CONCLUSIONS AND RECOMMENDATIONS

- For this groundwater monitoring event, average groundwater flow was toward the south at approximately 0.003 ft/ft, within historical precedent for seasonal change in groundwater elevation and gradient.
 - During the September 2012 monitoring event, no chemicals of concern were detected above the calculated site-specific treatment levels.
 - Well MW-8 contained the highest concentration of petroleum hydrocarbons, and site contamination appears to be localized to that vicinity. The concentration of MTBE in well MW-8 has shown a general decreasing trend since its installation in 2007 (Chart 1). MTBE concentrations in downgradient well MW-4 have remained relatively stable prior to the pilot test, where they increased to levels which remain below site-specific treatment levels. During the current quarter TBA, MTBE's degradation product, was detected at well MW-8 at the highest concentration since 2007. It is TEC's conclusion that the decrease in MTBE in well MW-8 is influenced more by degradation to TBA than to down-gradient migration.
 - This fuel leak case meets the criteria for closure based on the State of California's Low Threat Underground Storage Tank Case Closure Policy, which became effective August 17, 2012:
 - The unauthorized release consisted only of petroleum. The source of the contamination (USTs) has been removed. Free product has not been observed at the site. Secondary sources of contamination (elevated concentrations of petroleum hydrocarbons in soil and groundwater) have been addressed in the following ways:
 - a) tank removal and over-excavation / bioremediation of affected soils (1991)
 - b) excavation and removal of 992 tons of soil and 15,000 gallons of groundwater; addition of Oxygen Releasing Compound™ to the excavation pit prior to backfill (2007)
 - c) injection of 1,078 gallons of 7% hydrogen peroxide solution at target remediation areas onsite (2011)
 - The site is located within the service area of a public water system
 - A conceptual site model has been developed that assesses the nature, extent and mobility of the release. The release has been defined offsite by multiple step-out soil borings.
 - Soil and groundwater have been tested for MTBE. Although background water quality objectives have not been achieved, the extent of contamination meets the groundwater-specific criteria described by the State.
- Moreover:
- Dissolved-phase contaminant concentrations appear stable or generally decreasing. Seasonal variation in contaminant concentrations appear to be linked to fluctuations in the groundwater table.



- Soil vapor samples have been collected and an evaluation of the vapor intrusion pathway has been conducted; vapor intrusion does not appear to be of concern at this site.
- Pending further site corrective action or closure, and in accordance with State Water Resources Control Board Resolution 2009-042, TEC recommends that all site monitoring wells be sampled semi-annually; the next monitoring event is scheduled to occur during the first quarter 2013.

6.0 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.

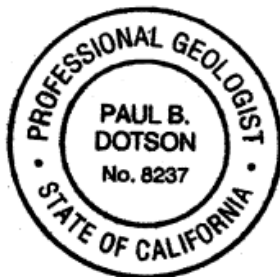
Thank you for your cooperation and assistance with this project. If you have any questions or concerns, please contact the undersigned at (650) 616-1200.

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



Elise Sbarbori
Project Manager

Reviewed by:



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) by EPA Method 8260TPH, and for benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl-tert-butyl ether (MTBE), di-isopropyl ether (DIPE), and tert-butyl alcohol (TBA).



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		
3/10/2010	7.99	11.81		
6/10/2010	9.13	10.67		
9/22/2010	10.95	8.85		
4/19/2011	7.43	12.37		
9/30/2011	10.54	9.26		
12/6/2011	10.79	9.01		
9/5/2012	10.75	9.05		



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		
3/10/2010	7.78	12.01		
6/10/2010	9.02	10.77		
9/22/2010	10.96	8.83		
4/19/2011	7.22	12.57		
9/30/2011	10.52	9.27		
12/6/2011	10.78	9.01		
9/5/2012	10.82	8.97		
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
		3/10/2010	7.87	11.43
		6/10/2010	8.87	10.43
		9/22/2010	10.52	8.78
		4/19/2011	7.43	11.87
9/30/2011	10.15	9.15		
12/6/2011	10.41	8.89		
9/5/2012	10.36	8.94		



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		
3/10/2010	8.19	12.08				
6/10/2010	9.30	10.97				
9/22/2010	11.28	8.99				
4/19/2011	7.59	12.68				
9/30/2011	10.81	9.46				
12/6/2011	11.13	9.14				
9/5/2012	11.10	9.17				
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		
		3/10/2010	7.16	11.77		
		6/10/2010	8.58	10.35		
		9/22/2010	9.89	9.04		
		4/19/2011	6.58	12.35		
		9/30/2011	9.48	9.45		
12/6/2011	9.68	9.25				
9/5/2012	9.68	9.25				



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-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		
		3/10/2010	7.77	11.56		
		6/10/2010	8.01	11.32		
		9/22/2010	10.39	8.94		
		4/19/2011	7.36	11.97		
9/30/2011	9.97	9.36				
12/6/2011	10.22	9.11				
		9/5/2012	10.18	9.15		
MW-9	18.83	8/27/2009	10.01	8.82		
		12/10/2009	10.16	8.67		
		3/10/2010	7.31	11.52		
		6/10/2010	8.14	10.69		
		9/22/2010	9.86	8.97		
		4/19/2011	6.86	11.97		
		9/30/2011	9.48	9.35		
		12/6/2011	9.65	9.18		
				9/5/2012	9.60	9.23
		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	
SSLs	---	---	940	4,300	760	7,100	1,300						
MW-1	6/3/1993	---	---	---	---	---	---	---	---	---	---	---	
	9/14/1994	<50	14,000	44	28	25	50	---	---	---	---	---	
	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	6,100	2,200	8,100	4,000	---	---	---	---	---
	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	---	200
	1/13/2006	---	5,400	680	37	83	41	3,900	---	<250	<500	---	180
	5/5/2006	---	<25	2	<0.5	<0.5	<0.5	2.2	---	<5.0	<10	---	<0.5
7/19/2006	---	5,000	836	22.3	107	81.8	1,130	---	<4.2	<84	---	54.1	
10/5/2006	---	23,000	3,740	112	395	161	6,020	---	13.5	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	0.95	
	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	16.6	---	<0.5	<10	1.24	
	10/5/2006	---	<50	<0.5	<0.5	<0.5	<1.5	11.9	---	<0.5	<10	0.750	
	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	<0.5	<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	<0.5	<0.5	<0.5	<1.5	24.6	---	<0.5	<10	0.810		
12/10/2008	---	84	<0.5	<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		
3/11/2010	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<30	<0.5		
9/22/2010	---	<50	<0.5	<0.5	<0.5	<1.5	44	---	<0.5	<5.0	1.3		
4/19/2011	---	<50	<0.5	<0.5	<0.5	<1.5	2.4	---	<0.5	<5.0	--		
9/30/2011	---	<50	<0.5	<0.5	<0.5	<1.5	12	---	<0.5	<5.0	0.80		
10/26/2011	---	<50	<0.5	<0.5	<0.5	<1.5	20	---	<0.5	<5.0	--		
12/6/2011	---	<50	<0.5	<0.5	<0.5	<1.5	15	---	<0.5	<5.0	--		
9/5/2012	---	<50	<0.5	<0.5	<0.5	<1.5	20	---	<0.5	<5.0	--		
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	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	
	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	
	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	---	<55	<0.55	<0.55	<0.55	<1.6	<0.55	---	<1.55	<11	<0.55		
3/11/2010	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<30	<0.5		
9/22/2010	---	<50	<0.5	<0.5	&								

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	
SSLs		---	---	940	4,300	760	7,100	1,300	---	---	---	---	
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	<1.0	---	<5.0	<10	<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	
	10/5/2006	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<10	<0.5	
	3/29/2007	---	<50	<0.5	<0.5	<0.5	<1.5	0.69	---	<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	1.38	---	<0.5	<10	<0.5	
	12/19/2007	---	63	<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	
	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	0.700	---	<0.5	<10	<0.5		
12/10/2008	---	<50	<0.5	<0.5	<0.5	<1.5	2.04	---	<0.5	<10	<0.5		
3/4/2009	---	<50	<0.5	<0.5	<0.5	<1.5	2.96	---	<0.5	<10	<0.5		
6/3/2009	---	<50	<0.5	<0.5	<0.5	<1.5	1.5	---	<0.5	<10	<0.5		
8/27/2009	---	<50	<0.5	<0.5	<0.5	<1.5	4.9	---	<0.5	11	1.3		
12/10/2009	---	<50	<0.5	<0.5	<0.5	<1.5	4.1	---	<0.5	<5	0.71		
3/11/2010	---	<50	<0.5	<0.5	<0.5	<1.5	9.8	---	<0.5	<30	<0.5		
6/10/2010	---	<50	<0.5	<0.5	<0.5	0.52	8.5	---	<0.5	6.1	1.8		
9/22/2010	---	<50	<0.5	<0.5	<0.5	<1.5	5.2	---	<0.5	5.1	1.1		
4/19/2011	---	<50	<0.5	<0.5	<0.5	<1.5	6.1	---	<0.5	<5.0	---		
9/30/2011	---	73	<0.5	<0.5	<0.5	<1.5	70	---	<0.5	<5.0	2.4		
10/26/2011	---	<50	<0.5	<0.5	<0.5	<1.5	80	---	<0.5	<5.0	---		
12/6/2011	---	110	<0.5	<0.5	<0.5	<1.5	140	---	<0.5	14	---		
9/5/2012	---	79	<0.5	<0.5	<0.5	<1.5	140	---	<0.5	<5.0	---		
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	2,200	360	360	730	480	---	---	---	---	
	9/29/2000	700	3,300	990	120	300	340	390	---	---	---	---	
	3/22/2001	360	4,300	780	240	250	530	190	---	---	---	---	
	6/25/2001	---	3,100	1,000	110	200	320	140	---	---	---	---	
	9/28/2001	---	3,000	1,200	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	
	10/19/2005	---	560	130	3.8	23	9.3	230	---	<25	<50	11	
	1/13/2006	---	2,300	570	18	120	140	220	---	<25	<50	14	
	5/5/2006	---	130	35	1.7	7.8	7.4	8	---	<5.0	<10	0.55	
	7/19/2006	---	210	102	1.54	15.8	3.85	27.6	---	<0.5	<10	2.06	
	10/5/2006	---	410	105	1.06	9.05	2.24	101	---	0.640	11.3	6.65	
	Well Abandoned 12/27/2006												
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	
	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		
3/11/2010	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<30	<0.5		
9/22/2010	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<5.0	<0.5		
4/19/2011	---	<50	<0.5	<0.5	<0.5	<1.5	0.63	---	<0.5	<5.0	---		
9/30/2011	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<5.0	<0.5		
10/26/2011	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<5.0	---		
12/6/2011	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<5.0	---		
9/5/2012	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<5.0	---		



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

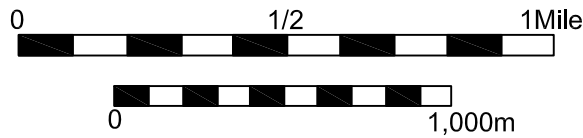
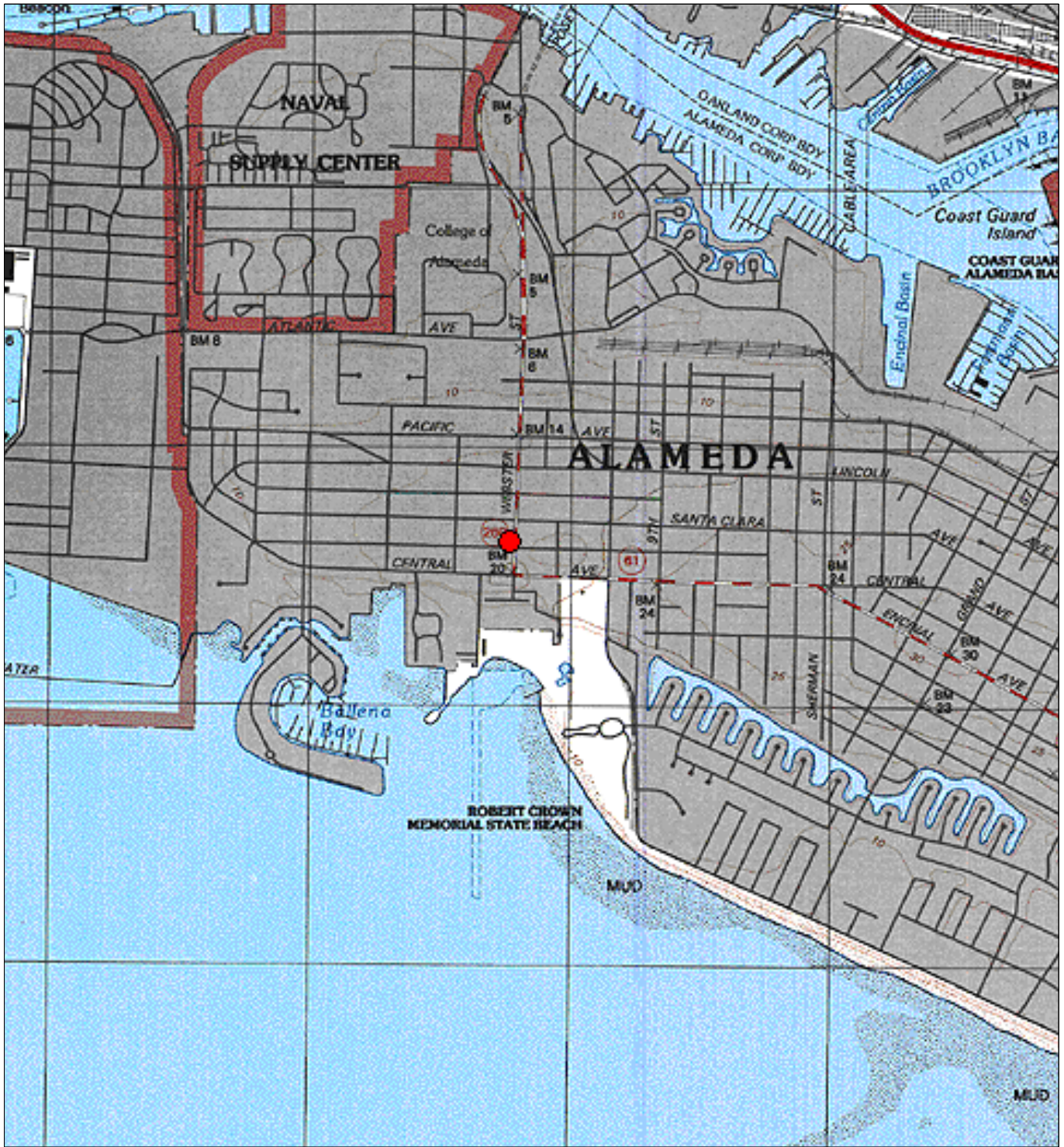
Well ID	Sample Date	TPHd	TPHg	Concentrations in micrograms per liter (µg/L)							TBA	1,2-DCA	
				B	T	E	X	MTBE	TRPH	DIPE			
ESL		100	100	1.0	40	30	20	5.0	---	---	12	0.5	
SSTLs		---	---	940	4,300	760	7,100	1,300	---	---	---	---	
MW-7	3/29/2007	---	840	50.8	9.33	2.54	162	39.9	---	<0.5	<10	2.26	
	6/27/2007	---	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	49.6	---	<0.5	28.5	4.37
	12/19/2007	---	54	4	<0.5	<0.5	<0.5	<1.5	11.4	---	<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	15.3	---	<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	
	3/11/2010	---	<50	<0.5	<0.5	<0.5	<1.5	0.73	---	<0.5	<30	<0.5	
	9/22/2010	---	<50	<0.5	<0.5	<0.5	<1.5	3.9	---	<0.5	<5.0	0.64	
	4/19/2011	---	<50	<0.5	<0.5	<0.5	<1.5	2.0	---	<0.6	<5.0	---	
	9/30/2011	---	<50	<0.5	<0.5	<0.5	<1.5	4.3	---	<0.5	<5.0	---	
	10/26/2011	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<5.0	---	
12/6/2011	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<5.0	---		
9/5/2012	---	<50	<0.5	<0.5	<0.5	<1.5	2.4	---	<0.5	<5.0	---		
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	4	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	4	299	11.1	73.0	13.6	11,600	---	27.1	1,670	240
	12/10/2008	---	6,900	4	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
	3/11/2010	---	7,900	5	660	3.7	100	28.3	5,800	---	18	1,100	150
	9/22/2010	---	4,700	4	1,100	<44	230	<132	5,700	---	<44	470	120
	4/19/2011	---	67	6	<0.5	<0.5	0.83	<1.5	20	---	<0.5	<5.0	---
	9/30/2011	---	2,500	5	140	2.0	38	5.3	5,600	---	8.2	<5.0	180
	10/26/2011	---	6,900	5	3.7	<0.5	0.59	<1.5	6,600	---	16	<440	---
12/6/2011	---	2,100	5	4.3	0.52	0.56	<1.5	10,000	---	21	590	---	
9/5/2012	---	590	4	99	1.1	20	4.9	510	---	11	3,800	---	
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	
	3/10/2010	---	<50	<0.5	<0.5	<0.5	<1.5	3.8	---	<0.5	<30	<0.5	
	6/10/2010	---	<50	<0.5	<0.5	<0.5	<1.5	7.4	---	<0.5	<5.0	0.6	
	9/22/2010	---	<50	<0.5	<0.5	<0.5	<1.5	1.6	---	<0.5	<5.0	<0.5	
	4/19/2011	---	<50	<0.5	<0.5	<0.5	<1.5	8.7	---	<0.5	<5.0	---	
	9/30/2011	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<5.0	<0.5	
	10/26/2011	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<5.0	---	
12/6/2011	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<5.0	---		
9/5/2012	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<5.0	---		

Notes:

TPHd = Total Petroleum Hydrocarbons as Diesel (EPA Method 8015)
TPHg = Total Petroleum Hydrocarbons as Gasoline by EPA Method 9015; after July 2005 by EPA 8260
BTX = 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 8260
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 due to individual peak(s) (MTBE and/or TBA) within gasoline quantitative range.
⁶ = Does not match pattern of reference gasoline standard; hydrocarbons in the range of C5-C12 quantified as gasoline.
ESLs = Environmental Screening Levels (Table F-1a), groundwater is a current or potential drinking water resource (CRWQCB, Interim Final, November 2007, revised May 2008).
SSTLs = site-specific treatment levels calculated in the Updated Site Conceptual Model, Health Risk Assessment, Feasibility Study, and Corrective Action Plan (TEC 2010).
bold = constituent exceeds SSTL
yellow row = most recent data



FIGURES



● Site Location

Map By: TOPO!

Date: 3/17/2009

Drafted By: AK

SITE
1435 Webster Street
Alameda, California



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




FIGURE

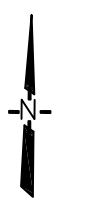
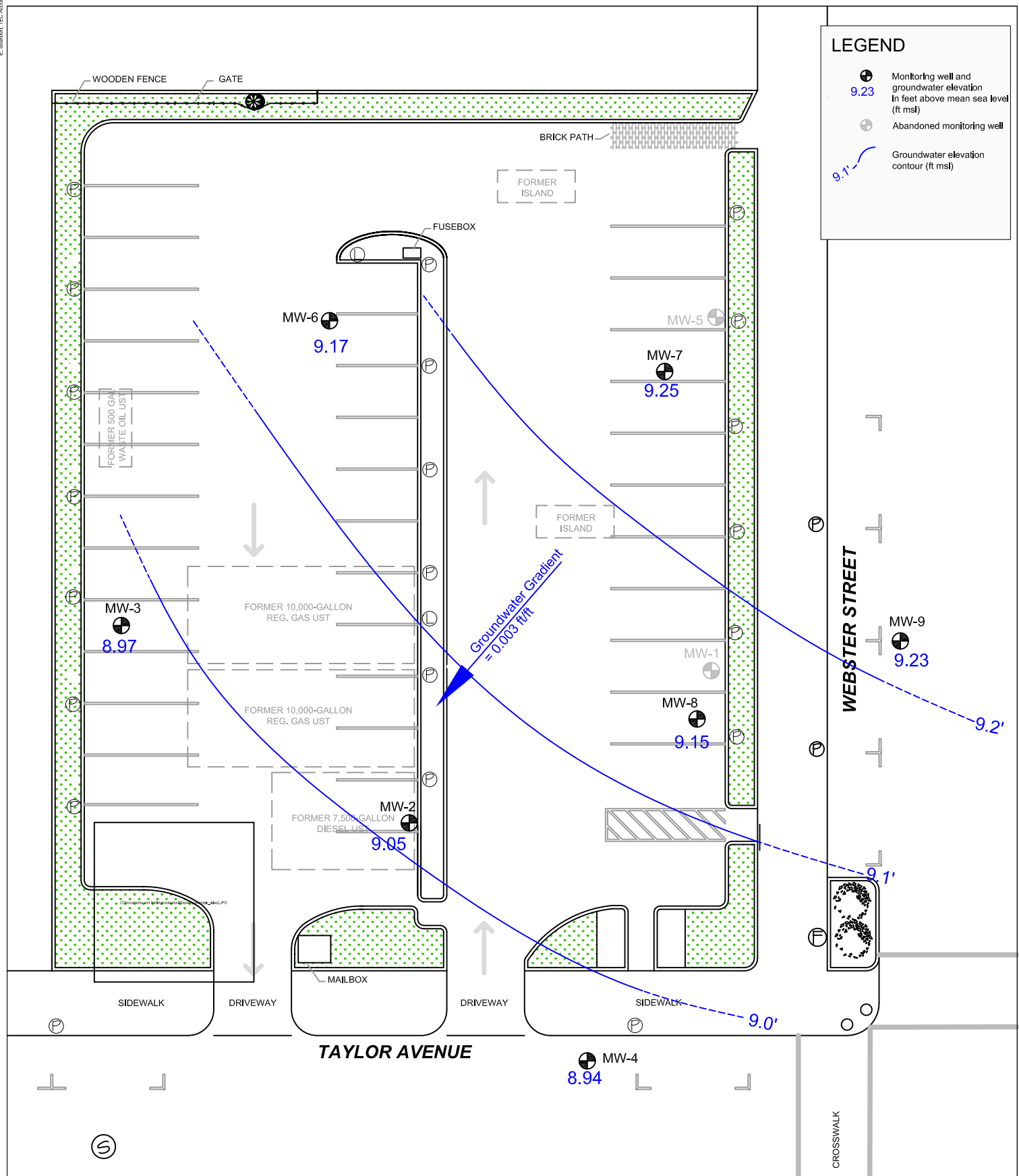
1

TITLE

Vicinity Map

LEGEND

-  Monitoring well and groundwater elevation in feet above mean sea level (ft msl)
-  Abandoned monitoring well
-  Groundwater elevation contour (ft msl)



Revision:
Date: 9/17/2012
Drafted By: ES



262 Michelle Court
So. San Francisco, CA 94080
Main: (650) 616-1200
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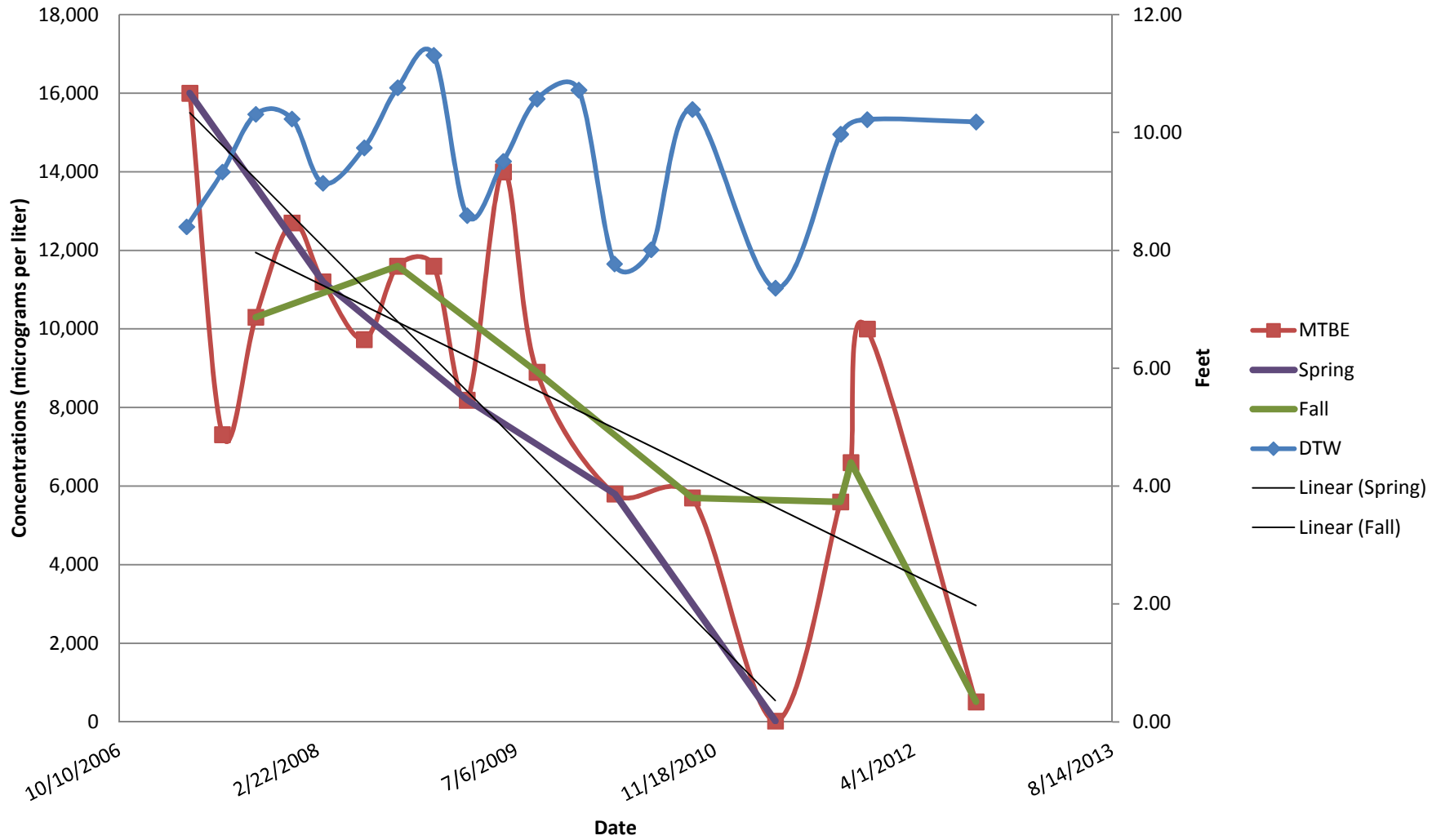
SITE
1435 Webster Street
Alameda, California

FIGURE 3

Groundwater Gradient Map
September 5, 2012

CHART

Chart 1
 MTBE Concentration Trends and Depth to Water
 1425 Webster Avenue, Alameda, California



ATTACHMENT A

FIELD DATA SHEETS

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-589 Purged By: BD Well ID: MW-2
 Client Name: Olympian Sampled By: BD Sample ID: MW-2
 Location: 1435 Webster QA Samples: ---

Purge Information

Date: 9/5/12 Start (2400hr): 1101 End (2400hr): 1106
 Depth to Bottom: 19.42 Depth to Water: 10.75 Casing Diameter: 2"
 DTB - DTW: 8.67 Purge (gal): 1.47 x 3 volumes: 4.42

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	^{Color} D.O. (mg/l)	Depth (ft)
<u>1103</u>	<u>1.5</u>	<u>20.7</u>	<u>953</u>	<u>6.32</u>	<u>low</u>	<u>brown</u>	
<u>1104</u>	<u>3.0</u>	<u>20.5</u>	<u>953</u>	<u>6.44</u>	<u>"</u>	<u>"</u>	
<u>1106</u>	<u>4.5</u>	<u>20.3</u>	<u>947</u>	<u>6.56</u>	<u>"</u>	<u>"</u>	

Sample Information

Date: 9/5/12 Time: 1110 DTW: 11.08 Turbidity: low
 Odor: none Analysis: 8260 Sample Vessels: 3 VOAs
 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: fair 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

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-589 Purged By: BD Well ID: MW-3
 Client Name: Olympian Sampled By: BD Sample ID: MW-3
 Location: 1435 Webster QA Samples: ---

Purge Information

Date: 9/5/12 Start (2400hr): 1119 End (2400hr): 1127
 Depth to Bottom: 21.85 Depth to Water: 10.82 Casing Diameter: 2"
 DTB - DTW: 11.03 Purge (gal): 1.88 x 3 volumes: 5.63

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
<u>1122</u>	<u>2.0</u>	<u>21.1</u>	<u>577</u>	<u>6.71</u>	<u>low</u>	<u>brown</u>	
<u>1125</u>	<u>4.0</u>	<u>21.0</u>	<u>562</u>	<u>6.55</u>	<u>"</u>	<u>"</u>	
<u>1127</u>	<u>5.5</u>	<u>20.9</u>	<u>559</u>	<u>6.44</u>	<u>"</u>	<u>"</u>	

Sample Information

Date: 9/5/12 Time: 1129 DTW: 11.35 Turbidity: low
 Odor: none Analysis: 8260 Sample Vessels: 3 VOAs
 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: hd

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

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-589 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: 9/5/12 Start (2400hr): 1029 End (2400hr): 1034
 Depth to Bottom: 19.76 Depth to Water: 10.36 Casing Diameter: 2"
 DTB - DTW: 9.40 Purge (gal): 1.60 x 3 volumes: 4.79

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	color D.O. (mg/l)	Depth (ft)
<u>1031</u>	<u>1.5</u>	<u>20.2</u>	<u>465</u>	<u>6.16</u>	<u>low</u>	<u>brown</u>	
<u>1034</u>	<u>3.0</u>	<u>20.0</u>	<u>466</u>	<u>6.00</u>	<u>"</u>	<u>"</u>	<u>dry</u>

Sample Information

Date: 9/5/12 Time: 1045 DTW: 11.84 Turbidity: low
 Odor: none Analysis: 8260 Sample Vessels: 3 VOAs
 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 Dolan

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-589 Purged By: BD Well ID: MW-6
 Client Name: Olympian Sampled By: BD Sample ID: MW-6
 Location: 1435 Webster QA Samples: ---

Purge Information

Date: 9/5/12 Start (2400hr): 1136 End (2400hr): 1142
 Depth to Bottom: 19.34 Depth to Water: 11.10 Casing Diameter: 2"
 DTB - DTW: 8.24 Purge (gal): 1.40 x 3 volumes: 4.20

Field Measurements							
Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	colour D.O. (mg/l)	Depth (ft)
<u>1139</u>	<u>1.5</u>	<u>20.9</u>	<u>480</u>	<u>6.51</u>	<u>low</u>	<u>brown</u>	
<u>1141</u>	<u>3.0</u>	<u>21.0</u>	<u>465</u>	<u>6.37</u>	<u>"</u>	<u>"</u>	
<u>1142</u>	<u>4.0</u>	<u>21.0</u>	<u>457</u>	<u>6.28</u>	<u>"</u>	<u>"</u>	

Sample Information

Date: 9/5/12 Time: 1145 DTW: 12.35 Turbidity: low
 Odor: None Analysis: 8260 Sample Vessels: 3 VOAs
 Preservative: HCl

Purging Equipment		Sampling Equipment	
<input type="checkbox"/> submersible pump	<input type="checkbox"/> peristaltic pump	<input type="checkbox"/> submersible pump	<input type="checkbox"/> peristaltic pump
<input checked="" type="checkbox"/> bailer (disposable)	<input type="checkbox"/> bailer (st. steel)	<input checked="" type="checkbox"/> bailer (disposable)	<input type="checkbox"/> bailer (st. steel)
<input type="checkbox"/> dedicated	<input type="checkbox"/> bladder pump	<input type="checkbox"/> dedicated	<input type="checkbox"/> bladder pump
other: _____		other: _____	

Well Integrity: fair 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: Kevin Johns

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-589 Purged By: BD Well ID: MW-8
 Client Name: Olympian Sampled By: BD Sample ID: MW-8
 Location: 1435 Webster QA Samples: ---

Purge Information

Date: 9/5/12 Start (2400hr): 1156 End (2400hr): 1206
 Depth to Bottom: 20.03 Depth to Water: 10.18 Casing Diameter: 4"
 DTB - DTW: 9.85 Purge (gal): 6.40 x 3 volumes: 19.21

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	color D.O. (mg/l)	Depth (ft)
1200	6.5	21.5	1327	6.02	low	clear	15.05
1204	13.0	20.8	1503	6.02	"	"	18.55
1206	WELL	WENT	DRY	@	~15.5	GALLONS	

Sample Information

Date: 9/5/12 Time: 1328 DTW: 12.13 Turbidity: low
 Odor: slight Analysis: 8260 Sample Vessels: 3 VOAs
 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 Dolan

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-589 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: 9/5/12 Start (2400hr): 1008 End (2400hr): 1017
 Depth to Bottom: 19.94 Depth to Water: 9.60 Casing Diameter: 4"
 DTB - DTW: 10.34 Purge (gal): 6.72 x 3 volumes: 20.16

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
<u>1009</u>	<u>6.5</u>	<u>20.7</u>	<u>581</u>	<u>6.51</u>	<u>low</u>	<u>clear</u>	
<u>1013</u>	<u>13.0</u>	<u>20.1</u>	<u>593</u>	<u>6.39</u>	<u>"</u>	<u>"</u>	
<u>1017</u>	<u>20.0</u>	<u>19.8</u>	<u>614</u>	<u>6.32</u>	<u>"</u>	<u>"</u>	

Sample Information

Date: 9/5/12 Time: 1021 DTW: 9.74 Turbidity: low
 Odor: none Analysis: 8260 Sample Vessels: 3 VOAs
 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: 10

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 Dolan

ATTACHMENT B

LABORATORY REPORT AND
CHAIN-OF-CUSTODY DOCUMENTATION





Tec Accutite
262 Michelle Ct
South San Francisco, California 94080
Tel: (650) 616-1200
Fax: (650) 616-1244
Email: tecaccutite@gmail.com
RE: 1435 Webster St.

Work Order No.: 1209025

Dear Brian Doherty:

Torrent Laboratory, Inc. received 7 sample(s) on September 05, 2012 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.

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

Patti Sandrock
QA Officer

September 12, 2012

Date



Date: 9/12/2012

Client: Tec Accutite

Project: 1435 Webster St.

Work Order: 1209025

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.



Sample Result Summary

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 09/05/12

Date Reported: 09/12/12

MW-2

1209025-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
MTBE	SW8260B	1	0.17	0.50	20	ug/L

MW-3

1209025-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

MW-4

1209025-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH(Gasoline)	8260TPH	1	31	50	79	ug/L
MTBE	SW8260B	4.4	0.76	2.2	140	ug/L

MW-6

1209025-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

MW-7

1209025-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
MTBE	SW8260B	1	0.17	0.50	2.4	ug/L



Sample Result Summary

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 09/05/12
Date Reported: 09/12/12
1209025-006

MW-8

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Diisopropyl ether (DIPE)	SW8260B	1	0.15	0.50	11	ug/L
Benzene	SW8260B	1	0.088	0.50	99	ug/L
Toluene	SW8260B	1	0.059	0.50	1.1	ug/L
Ethyl Benzene	SW8260B	1	0.074	0.50	20	ug/L
m,p-Xylene	SW8260B	1	0.13	1.0	4.9	ug/L
TPH(Gasoline)	8260TPH	1	31	50	590	ug/L
MTBE	SW8260B	44	7.6	22	510	ug/L
tert-Butanol	SW8260B	44	68	220	3800	ug/L

MW-9

1209025-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 09/05/12
Date Reported: 09/12/12

Client Sample ID:	MW-2	Lab Sample ID:	1209025-001A
Project Name/Location:	1435 Webster St.	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	09/05/12 / 11:10		
Tag Number:	1435 Webster St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	09/10/12	1	0.17	0.50	20		ug/L	411408	NA
tert-Butanol	SW8260B	NA	09/10/12	1	1.5	5.0	ND		ug/L	411408	NA
Diisopropyl ether (DIPE)	SW8260B	NA	09/10/12	1	0.15	0.50	ND		ug/L	411408	NA
ETBE	SW8260B	NA	09/10/12	1	0.13	0.50	ND		ug/L	411408	NA
Benzene	SW8260B	NA	09/10/12	1	0.088	0.50	ND		ug/L	411408	NA
TAME	SW8260B	NA	09/10/12	1	0.095	0.50	ND		ug/L	411408	NA
Toluene	SW8260B	NA	09/10/12	1	0.059	0.50	ND		ug/L	411408	NA
Ethyl Benzene	SW8260B	NA	09/10/12	1	0.074	0.50	ND		ug/L	411408	NA
m,p-Xylene	SW8260B	NA	09/10/12	1	0.13	1.0	ND		ug/L	411408	NA
o-Xylene	SW8260B	NA	09/10/12	1	0.076	0.50	ND		ug/L	411408	NA
(S) Dibromofluoromethane	SW8260B	NA	09/10/12	1	61.2	131	94.4		%	411408	NA
(S) Toluene-d8	SW8260B	NA	09/10/12	1	75.1	127	99.8		%	411408	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	09/10/12	1	64.1	120	100		%	411408	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	9/10/12	09/10/12	1	31	50	ND		ug/L	411408	6480
(S) 4-Bromofluorobenzene	8260TPH	9/10/12	09/10/12	1	41.5	125	79.4		%	411408	6480



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 09/05/12
Date Reported: 09/12/12

Client Sample ID:	MW-3	Lab Sample ID:	1209025-002A
Project Name/Location:	1435 Webster St.	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	09/05/12 / 11:29		
Tag Number:	1435 Webster St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	09/10/12	1	0.17	0.50	ND		ug/L	411408	NA
tert-Butanol	SW8260B	NA	09/10/12	1	1.5	5.0	ND		ug/L	411408	NA
Diisopropyl ether (DIPE)	SW8260B	NA	09/10/12	1	0.15	0.50	ND		ug/L	411408	NA
ETBE	SW8260B	NA	09/10/12	1	0.13	0.50	ND		ug/L	411408	NA
Benzene	SW8260B	NA	09/10/12	1	0.088	0.50	ND		ug/L	411408	NA
TAME	SW8260B	NA	09/10/12	1	0.095	0.50	ND		ug/L	411408	NA
Toluene	SW8260B	NA	09/10/12	1	0.059	0.50	ND		ug/L	411408	NA
Ethyl Benzene	SW8260B	NA	09/10/12	1	0.074	0.50	ND		ug/L	411408	NA
m,p-Xylene	SW8260B	NA	09/10/12	1	0.13	1.0	ND		ug/L	411408	NA
o-Xylene	SW8260B	NA	09/10/12	1	0.076	0.50	ND		ug/L	411408	NA
(S) Dibromofluoromethane	SW8260B	NA	09/10/12	1	61.2	131	106		%	411408	NA
(S) Toluene-d8	SW8260B	NA	09/10/12	1	75.1	127	99.5		%	411408	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	09/10/12	1	64.1	120	102		%	411408	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	9/10/12	09/10/12	1	31	50	ND		ug/L	411408	6480
(S) 4-Bromofluorobenzene	8260TPH	9/10/12	09/10/12	1	41.5	125	79.8		%	411408	6480



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 09/05/12
Date Reported: 09/12/12

Client Sample ID:	MW-4	Lab Sample ID:	1209025-003A
Project Name/Location:	1435 Webster St.	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	09/05/12 / 10:45		
Tag Number:	1435 Webster St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
tert-Butanol	SW8260B	NA	09/10/12	1	1.5	5.0	ND		ug/L	411408	NA
Diisopropyl ether (DIPE)	SW8260B	NA	09/10/12	1	0.15	0.50	ND		ug/L	411408	NA
ETBE	SW8260B	NA	09/10/12	1	0.13	0.50	ND		ug/L	411408	NA
Benzene	SW8260B	NA	09/10/12	1	0.088	0.50	ND		ug/L	411408	NA
TAME	SW8260B	NA	09/10/12	1	0.095	0.50	ND		ug/L	411408	NA
Toluene	SW8260B	NA	09/10/12	1	0.059	0.50	ND		ug/L	411408	NA
Ethyl Benzene	SW8260B	NA	09/10/12	1	0.074	0.50	ND		ug/L	411408	NA
m,p-Xylene	SW8260B	NA	09/10/12	1	0.13	1.0	ND		ug/L	411408	NA
o-Xylene	SW8260B	NA	09/10/12	1	0.076	0.50	ND		ug/L	411408	NA
(S) Dibromofluoromethane	SW8260B	NA	09/10/12	1	61.2	131	104		%	411408	NA
(S) Toluene-d8	SW8260B	NA	09/10/12	1	75.1	127	101		%	411408	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	09/10/12	1	64.1	120	102		%	411408	NA
MTBE	SW8260B	NA	09/11/12	4.4	0.76	2.2	140		ug/L	411440	NA
(S) Dibromofluoromethane	SW8260B	NA	09/11/12	4.4	61.2	131	94.2		%	411440	NA
(S) Toluene-d8	SW8260B	NA	09/11/12	4.4	75.1	127	104		%	411440	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	09/11/12	4.4	64.1	120	103		%	411440	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	9/10/12	09/10/12	1	31	50	79	x	ug/L	411408	6480
(S) 4-Bromofluorobenzene	8260TPH	9/10/12	09/10/12	1	41.5	125	79.2		%	411408	6480

NOTE: x-Not typical of Gasoline standard pattern. Result due to discrete peak (MTBE).



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 09/05/12
Date Reported: 09/12/12

Client Sample ID:	MW-6	Lab Sample ID:	1209025-004A
Project Name/Location:	1435 Webster St.	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	09/05/12 / 11:45		
Tag Number:	1435 Webster St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	09/10/12	1	0.17	0.50	ND		ug/L	411408	NA
tert-Butanol	SW8260B	NA	09/10/12	1	1.5	5.0	ND		ug/L	411408	NA
Diisopropyl ether (DIPE)	SW8260B	NA	09/10/12	1	0.15	0.50	ND		ug/L	411408	NA
ETBE	SW8260B	NA	09/10/12	1	0.13	0.50	ND		ug/L	411408	NA
Benzene	SW8260B	NA	09/10/12	1	0.088	0.50	ND		ug/L	411408	NA
TAME	SW8260B	NA	09/10/12	1	0.095	0.50	ND		ug/L	411408	NA
Toluene	SW8260B	NA	09/10/12	1	0.059	0.50	ND		ug/L	411408	NA
Ethyl Benzene	SW8260B	NA	09/10/12	1	0.074	0.50	ND		ug/L	411408	NA
m,p-Xylene	SW8260B	NA	09/10/12	1	0.13	1.0	ND		ug/L	411408	NA
o-Xylene	SW8260B	NA	09/10/12	1	0.076	0.50	ND		ug/L	411408	NA
(S) Dibromofluoromethane	SW8260B	NA	09/10/12	1	61.2	131	97.7		%	411408	NA
(S) Toluene-d8	SW8260B	NA	09/10/12	1	75.1	127	101		%	411408	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	09/10/12	1	64.1	120	101		%	411408	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	9/10/12	09/10/12	1	31	50	ND		ug/L	411408	6480
(S) 4-Bromofluorobenzene	8260TPH	9/10/12	09/10/12	1	41.5	125	89.5		%	411408	6480



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 09/05/12
Date Reported: 09/12/12

Client Sample ID:	MW-7	Lab Sample ID:	1209025-005A
Project Name/Location:	1435 Webster St.	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	09/05/12 / 13:01		
Tag Number:	1435 Webster St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	09/10/12	1	0.17	0.50	2.4		ug/L	411408	NA
tert-Butanol	SW8260B	NA	09/10/12	1	1.5	5.0	ND		ug/L	411408	NA
Diisopropyl ether (DIPE)	SW8260B	NA	09/10/12	1	0.15	0.50	ND		ug/L	411408	NA
ETBE	SW8260B	NA	09/10/12	1	0.13	0.50	ND		ug/L	411408	NA
Benzene	SW8260B	NA	09/10/12	1	0.088	0.50	ND		ug/L	411408	NA
TAME	SW8260B	NA	09/10/12	1	0.095	0.50	ND		ug/L	411408	NA
Toluene	SW8260B	NA	09/10/12	1	0.059	0.50	ND		ug/L	411408	NA
Ethyl Benzene	SW8260B	NA	09/10/12	1	0.074	0.50	ND		ug/L	411408	NA
m,p-Xylene	SW8260B	NA	09/10/12	1	0.13	1.0	ND		ug/L	411408	NA
o-Xylene	SW8260B	NA	09/10/12	1	0.076	0.50	ND		ug/L	411408	NA
(S) Dibromofluoromethane	SW8260B	NA	09/10/12	1	61.2	131	101		%	411408	NA
(S) Toluene-d8	SW8260B	NA	09/10/12	1	75.1	127	101		%	411408	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	09/10/12	1	64.1	120	102		%	411408	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	9/10/12	09/10/12	1	31	50	ND		ug/L	411408	6480
(S) 4-Bromofluorobenzene	8260TPH	9/10/12	09/10/12	1	41.5	125	81.9		%	411408	6480



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 09/05/12
Date Reported: 09/12/12

Client Sample ID:	MW-8	Lab Sample ID:	1209025-006A
Project Name/Location:	1435 Webster St.	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	09/05/12 / 13:28		
Tag Number:	1435 Webster St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Diisopropyl ether (DIPE)	SW8260B	NA	09/10/12	1	0.15	0.50	11		ug/L	411408	NA
ETBE	SW8260B	NA	09/10/12	1	0.13	0.50	ND		ug/L	411408	NA
Benzene	SW8260B	NA	09/10/12	1	0.088	0.50	99		ug/L	411408	NA
TAME	SW8260B	NA	09/10/12	1	0.095	0.50	ND		ug/L	411408	NA
Toluene	SW8260B	NA	09/10/12	1	0.059	0.50	1.1		ug/L	411408	NA
Ethyl Benzene	SW8260B	NA	09/10/12	1	0.074	0.50	20		ug/L	411408	NA
m,p-Xylene	SW8260B	NA	09/10/12	1	0.13	1.0	4.9		ug/L	411408	NA
o-Xylene	SW8260B	NA	09/10/12	1	0.076	0.50	ND		ug/L	411408	NA
(S) Dibromofluoromethane	SW8260B	NA	09/10/12	1	61.2	131	98.8		%	411408	NA
(S) Toluene-d8	SW8260B	NA	09/10/12	1	75.1	127	99.7		%	411408	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	09/10/12	1	64.1	120	101		%	411408	NA
MTBE	SW8260B	NA	09/10/12	44	7.6	22	510		ug/L	411408	NA
tert-Butanol	SW8260B	NA	09/10/12	44	68	220	3800		ug/L	411408	NA
(S) Dibromofluoromethane	SW8260B	NA	09/10/12	44	61.2	131	96.6		%	411408	NA
(S) Toluene-d8	SW8260B	NA	09/10/12	44	75.1	127	101		%	411408	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	09/10/12	44	64.1	120	104		%	411408	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	9/10/12	09/10/12	1	31	50	590	x	ug/L	411408	6480
(S) 4-Bromofluorobenzene	8260TPH	9/10/12	09/10/12	1	41.5	125	99.9		%	411408	6480

NOTE: x - Although TPH as Gasoline constituents are present, sample chromatogram does not resemble pattern of reference Gasoline standard.



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 09/05/12
Date Reported: 09/12/12

Client Sample ID:	MW-9	Lab Sample ID:	1209025-007A
Project Name/Location:	1435 Webster St.	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	09/05/12 / 10:21		
Tag Number:	1435 Webster St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	09/10/12	1	0.17	0.50	ND		ug/L	411408	NA
tert-Butanol	SW8260B	NA	09/10/12	1	1.5	5.0	ND		ug/L	411408	NA
Diisopropyl ether (DIPE)	SW8260B	NA	09/10/12	1	0.15	0.50	ND		ug/L	411408	NA
ETBE	SW8260B	NA	09/10/12	1	0.13	0.50	ND		ug/L	411408	NA
Benzene	SW8260B	NA	09/10/12	1	0.088	0.50	ND		ug/L	411408	NA
TAME	SW8260B	NA	09/10/12	1	0.095	0.50	ND		ug/L	411408	NA
Toluene	SW8260B	NA	09/10/12	1	0.059	0.50	ND		ug/L	411408	NA
Ethyl Benzene	SW8260B	NA	09/10/12	1	0.074	0.50	ND		ug/L	411408	NA
m,p-Xylene	SW8260B	NA	09/10/12	1	0.13	1.0	ND		ug/L	411408	NA
o-Xylene	SW8260B	NA	09/10/12	1	0.076	0.50	ND		ug/L	411408	NA
(S) Dibromofluoromethane	SW8260B	NA	09/10/12	1	61.2	131	114		%	411408	NA
(S) Toluene-d8	SW8260B	NA	09/10/12	1	75.1	127	103		%	411408	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	09/10/12	1	64.1	120	104		%	411408	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	9/10/12	09/10/12	1	31	50	ND		ug/L	411408	6480
(S) 4-Bromofluorobenzene	8260TPH	9/10/12	09/10/12	1	41.5	125	81.0		%	411408	6480



MB Summary Report

Work Order:	1209025	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	09/10/12	Analytical Batch:	411408
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.18	0.50	ND		
Chloromethane	0.16	0.50	ND		
Vinyl Chloride	0.16	0.50	ND		
Bromomethane	0.18	0.50	ND		
Trichlorofluoromethane	0.18	0.50	ND		
1,1-Dichloroethene	0.15	0.50	ND		
Freon 113	0.19	0.50	ND		
Methylene Chloride	0.23	5.0	ND		
trans-1,2-Dichloroethene	0.19	0.50	ND		
MTBE	0.17	0.50	ND		
tert-Butanol	1.5	5.0	ND		
Diisopropyl ether (DIPE)	0.13	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.17	0.50	ND		
cis-1,2-Dichloroethene	0.19	0.50	ND		
2,2-Dichloropropane	0.15	0.50	ND		
Bromochloromethane	0.20	0.50	ND		
Chloroform	0.13	0.50	ND		
Carbon Tetrachloride	0.15	0.50	ND		
1,1,1-Trichloroethane	0.097	0.50	ND		
1,1-Dichloropropene	0.15	0.50	ND		
Benzene	0.13	0.50	ND		
TAME	0.17	0.50	ND		
1,2-Dichloroethane	0.14	0.50	ND		
Trichloroethylene	0.13	0.50	ND		
Dibromomethane	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.13	0.50	ND		
cis-1,3-Dichloropropene	0.096	0.50	ND		
Toluene	0.14	0.50	ND		
Tetrachloroethylene	0.14	0.50	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
1,1,2-Trichloroethane	0.14	0.50	ND		
Dibromochloromethane	0.096	0.50	ND		
1,3-Dichloropropane	0.10	0.50	ND		
1,2-Dibromoethane	0.19	0.50	ND		
Chlorobenzene	0.14	0.50	ND		
Ethyl Benzene	0.15	0.50	ND		
1,1,1,2-Tetrachloroethane	0.096	0.50	ND		
m,p-Xylene	0.13	1.0	ND		



MB Summary Report

Work Order:	1209025	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	09/10/12	Analytical Batch:	411408
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
o-Xylene	0.15	0.50	ND		
Styrene	0.21	0.50	ND		
Bromoform	0.21	1.0	ND		
Isopropyl Benzene	0.097	0.50	ND		
Bromobenzene	0.15	0.50	ND		
1,1,2,2-Tetrachloroethane	0.11	0.50	ND		
n-Propylbenzene	0.078	0.50	ND		
2-Chlorotoluene	0.076	0.50	ND		
1,3,5-Trimethylbenzene	0.074	0.50	ND		
4-Chlorotoluene	0.088	0.50	ND		
tert-Butylbenzene	0.081	0.50	ND		
1,2,3-Trichloropropane	0.14	0.50	ND		
1,2,4-Trimethylbenzene	0.083	0.50	ND		
sec-Butyl Benzene	0.092	0.50	ND		
p-Isopropyltoluene	0.093	0.50	ND		
1,3-Dichlorobenzene	0.10	0.50	ND		
1,4-Dichlorobenzene	0.069	0.50	ND		
n-Butylbenzene	0.081	0.50	ND		
1,2-Dichlorobenzene	0.057	0.50	ND		
1,2-Dibromo-3-Chloropropane	0.15	0.50	ND		
Hexachlorobutadiene	0.19	0.50	ND		
1,2,4-Trichlorobenzene	0.12	0.50	ND		
Naphthalene	0.14	1.0	ND		
1,2,3-Trichlorobenzene	0.23	0.50	ND		
(S) Dibromofluoromethane			110		
(S) Toluene-d8			103		
(S) 4-Bromofluorobenzene			106		
Ethanol	0.21	0.50	ND	TIC	



MB Summary Report

Work Order:	1209025	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	09/11/12	Analytical Batch:	411440
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.18	0.50	ND		
Chloromethane	0.16	0.50	ND		
Vinyl Chloride	0.16	0.50	ND		
Bromomethane	0.18	0.50	ND		
Trichlorofluoromethane	0.18	0.50	ND		
1,1-Dichloroethene	0.15	0.50	ND		
Freon 113	0.19	0.50	ND		
Methylene Chloride	0.23	5.0	ND		
trans-1,2-Dichloroethene	0.19	0.50	ND		
MTBE	0.17	0.50	ND		
tert-Butanol	1.5	5.0	ND		
Diisopropyl ether (DIPE)	0.13	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.17	0.50	ND		
cis-1,2-Dichloroethene	0.19	0.50	ND		
2,2-Dichloropropane	0.15	0.50	ND		
Bromochloromethane	0.20	0.50	ND		
Chloroform	0.13	0.50	ND		
Carbon Tetrachloride	0.15	0.50	ND		
1,1,1-Trichloroethane	0.097	0.50	ND		
1,1-Dichloropropene	0.15	0.50	ND		
Benzene	0.13	0.50	ND		
TAME	0.17	0.50	ND		
1,2-Dichloroethane	0.14	0.50	ND		
Trichloroethylene	0.13	0.50	ND		
Dibromomethane	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.13	0.50	ND		
cis-1,3-Dichloropropene	0.096	0.50	ND		
Toluene	0.14	0.50	ND		
Tetrachloroethylene	0.14	0.50	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
1,1,2-Trichloroethane	0.14	0.50	ND		
Dibromochloromethane	0.096	0.50	ND		
1,3-Dichloropropane	0.10	0.50	ND		
1,2-Dibromoethane	0.19	0.50	ND		
Chlorobenzene	0.14	0.50	ND		
Ethyl Benzene	0.15	0.50	ND		
1,1,1,2-Tetrachloroethane	0.096	0.50	ND		
m,p-Xylene	0.13	1.0	ND		
o-Xylene	0.15	0.50	ND		



MB Summary Report

Work Order:	1209025	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	09/11/12	Analytical Batch:	411440
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.21	0.50	ND		
Bromoform	0.21	1.0	ND		
Isopropyl Benzene	0.097	0.50	ND		
Bromobenzene	0.15	0.50	ND		
1,1,2,2-Tetrachloroethane	0.11	0.50	ND		
n-Propylbenzene	0.078	0.50	ND		
2-Chlorotoluene	0.076	0.50	ND		
1,3,5,-Trimethylbenzene	0.074	0.50	ND		
4-Chlorotoluene	0.088	0.50	ND		
tert-Butylbenzene	0.081	0.50	ND		
1,2,3-Trichloropropane	0.14	0.50	ND		
1,2,4-Trimethylbenzene	0.083	0.50	ND		
sec-Butyl Benzene	0.092	0.50	ND		
p-Isopropyltoluene	0.093	0.50	ND		
1,3-Dichlorobenzene	0.10	0.50	ND		
1,4-Dichlorobenzene	0.069	0.50	ND		
n-Butylbenzene	0.081	0.50	ND		
1,2-Dichlorobenzene	0.057	0.50	ND		
1,2-Dibromo-3-Chloropropane	0.15	0.50	ND		
Hexachlorobutadiene	0.19	0.50	ND		
1,2,4-Trichlorobenzene	0.12	0.50	ND		
Naphthalene	0.14	1.0	ND		
1,2,3-Trichlorobenzene	0.23	0.50	ND		
(S) Dibromofluoromethane			94.3		
(S) Toluene-d8			102		
(S) 4-Bromofluorobenzene			101		
Ethanol	0.21	0.50	ND	TIC	

Work Order:	1209025	Prep Method:	5030	Prep Date:	09/10/12	Prep Batch:	6480
Matrix:	Water	Analytical Method:	8260TPH	Analyzed Date:	09/10/12	Analytical Batch:	411408
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH(Gasoline)	31	50	ND		
(S) 4-Bromofluorobenzene			70.7		



MB Summary Report

Work Order:	1209025	Prep Method:	5030	Prep Date:	09/11/12	Prep Batch:	6492
Matrix:	Water	Analytical Method:	8260TPH	Analyzed Date:	09/11/12	Analytical Batch:	411440
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH(Gasoline)	31	50	ND	
(S) 4-Bromofluorobenzene			96.4	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1209025	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	09/10/12	Analytical Batch:	411408
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.14	0.50	ND	17.04	117	112	4.92	61.4 - 129	30	
Benzene	0.087	0.50	ND	17.04	109	102	6.32	66.9 - 140	30	
Trichloroethylene	0.057	0.50	ND	17.04	97.4	95.4	2.08	69.3 - 144	30	
Toluene	0.059	0.50	ND	17.04	110	107	3.28	76.6 - 123	30	
Chlorobenzene	0.068	0.50	ND	17.04	96.1	93.4	3.01	73.9 - 137	30	
(S) Dibromofluoromethane			ND	11.36	96.9	94.3		61.2 - 131		
(S) Toluene-d8			ND	11.36	99.3	99.0		75.1 - 127		
(S) 4-Bromofluorobenzene			ND	11.36	95.7	95.5		64.1 - 120		

Work Order:	1209025	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	09/11/12	Analytical Batch:	411440
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.14	0.50	ND	17.04	119	109	9.17	61.4 - 129	30	
Benzene	0.087	0.50	ND	17.04	113	103	8.88	66.9 - 140	30	
Trichloroethylene	0.057	0.50	ND	17.04	99.2	90.9	8.66	69.3 - 144	30	
Toluene	0.059	0.50	ND	17.04	115	107	7.36	76.6 - 123	30	
Chlorobenzene	0.068	0.50	ND	17.04	109	93.1	15.4	73.9 - 137	30	
(S) Dibromofluoromethane			ND	11.36	96.7	95.3		61.2 - 131		
(S) Toluene-d8			ND	11.36	100	101		75.1 - 127		
(S) 4-Bromofluorobenzene			ND	11.36	96.9	97.1		64.1 - 120		

Work Order:	1209025	Prep Method:	5030	Prep Date:	09/10/12	Prep Batch:	6480
Matrix:	Water	Analytical Method:	8260TPH	Analyzed Date:	09/10/12	Analytical Batch:	411408
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	31	50	ND	227.27	105	103	1.79	52.4 - 127	30	
(S) 4-Bromofluorobenzene			70.7	11.36	98.4	92.8		41.5 - 125		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1209025	Prep Method:	5030	Prep Date:	09/11/12	Prep Batch:	6492
Matrix:	Water	Analytical Method:	8260TPH	Analyzed Date:	09/11/12	Analytical Batch:	411440
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	31	50	ND	227.27	111	100	9.54	52.4 - 127	30	
(S) 4-Bromofluorobenzene			96.4	11.36	98.8	96.5		41.5 - 125		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m³ , mg.m³ , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Tec Accutite

Date and Time Received: 9/5/2012 18:30

Project Name: 1435 Webster St.

Received By: NAVIN

Work Order No.: 1209025

Physically Logged By: LORNA

Checklist Completed By: LORNA

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? Yes Temperature: 5 °C
Water-VOA vials have zero headspace? Yes
Water-pH acceptable upon receipt? N/A
pH Checked by: N/A pH Adjusted by: N/A



Login Summary Report

Client ID:	TL5132 Tec Accutite	QC Level:	
Project Name:	1435 Webster St.	TAT Requested:	5+ day:0
Project # :		Date Received:	9/5/2012
Report Due Date:	9/12/2012	Time Received:	18:30
Comments:	5 day TAT!!! Recv'd 7 samples for TPHg ; MTBE BTEX and Oxygenates.Pls. email an EDF result to tecaccutite@gmail.com.		
Work Order # :	1209025		

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1209025-001A	MW-2	09/05/12 11:10	Water	10/20/12			W_8260Pet EDF W_GCMS-GRO	
1209025-002A	MW-3	09/05/12 11:29	Water	10/20/12			W_8260Pet W_GCMS-GRO	
1209025-003A	MW-4	09/05/12 10:45	Water	10/20/12			W_8260Pet W_GCMS-GRO	
1209025-004A	MW-6	09/05/12 11:45	Water	10/20/12			W_8260Pet W_GCMS-GRO	
1209025-005A	MW-7	09/05/12 13:01	Water	10/20/12			W_8260Pet W_GCMS-GRO	
1209025-006A	MW-8	09/05/12 13:28	Water	10/20/12			W_8260Pet W_GCMS-GRO	
1209025-007A	MW-9	09/05/12 10:21	Water	10/20/12			W_8260Pet W_GCMS-GRO	



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

CHAIN OF CUSTODY

1209025

Lab Work Order #: _____

Project Name: 1435 Webster		Report to: Brian 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							ASAP	1 Day	2 Days	3 Days	
Global ID: T0600100766		PO #: 20851										5 Days	10 Days	Other:	
Sampler: BD Date: 9/5/12												Sample Type			
Field Point ID	Sample ID	Sample Matrix	# of Containers		Container Type	Sample Date & Time						ground water			
												Report Format			
												EDF			
												Remarks			
MW-2	MW-2	W	3		VOAs w/ HCl	9/5/12 1110	✓	-001A				Run to ESLs			
MW-3	MW-3	W	3		VOAs w/ HCl	9/5/12 1129	✓	-002A							
MW-4	MW-4	W	3	VOAs w/ HCl	9/5/12 1045	✓	-003A								
MW-6	MW-6	W	3	VOAs w/ HCl	9/5/12 1145	✓	-004A								
MW-7	MW-7	W	3	VOAs w/ HCl	9/5/12 1301	✓	-005A								
MW-8	MW-8	W	3	VOAs w/ HCl	9/5/12 1328	✓	-006A				Temp: 5°C				
MW-9	MW-9	W	3	VOAs w/ HCl	9/5/12 1021	✓	-007A								
Relinquished by: Brian Doherty		Date: 9/5/12	Time: 3:34	Received by: [Signature]		Date: 9/5/12	Time: 3:34								
Relinquished by: [Signature]		Date: 9/5/12	Time: 6:30	Received by: NAYIN @ P. G. Chodasara		Date: 9/5/12	Time: 18:30								

Jin 9/5/12

FC.

ATTACHMENT C

GEOTRACKER SUBMISSION CONFIRMATIONS



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>Report Title:</u>	2012 Q3 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>	9/17/2012 4:28:48 PM
<u>Confirmation Number:</u>	3243926942

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STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	2012 Q3 Groundwater Monitoring Report
<u>Report Type:</u>	Monitoring Report - Semi-Annually
<u>Facility Global ID:</u>	T0600100766
<u>Facility Name:</u>	OLYMPIAN #112
<u>File Name:</u>	TEC Accutite 1209025 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>	9/17/2012 4:30:29 PM
<u>Confirmation Number:</u>	3487548768

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