



TEC Environmental

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

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September 6, 2013

RECEIVED

By Alameda County Environmental Health at 4:34 pm, Sep 09, 2013

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

SUBJECT: PERJURY STATEMENT

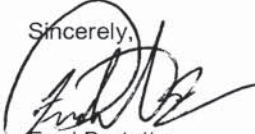
SITE: FORMER OLYMPIAN SERVICE STATION
1435 WEBSTER STREET
ALAMEDA, CALIFORNIA 94501
FLC # RO0000193

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 6, 2013

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 2013 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 2013 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.**

Paul Dotson
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 2013
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:

JULY 11, 2013

REPORT DATE:

SEPTEMBER 6, 2013



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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 2013 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]); petroleum hydrocarbons were not 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 July 11, 2013; wells were resampled on August 20, 2013 for dissolved metals analysis. Field data sheets from this groundwater sampling event are presented as Attachment A.

4.1 Monitoring and Sampling Procedures

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 on July 11, 2013, a minimum of three casing-water volumes of groundwater were purged from wells MW-2, MW-3, MW-6, MW-7 and MW-9 with new dedicated disposable plastic bailers; wells MW-4 and MW-8 went dry after purging 1.5 and 2.3 casing-water volumes, respectively. After water levels in each well recovered to a minimum of 80% of the pre-purge level, groundwater samples were collected with the dedicated bailers and transferred into laboratory-supplied, HCl-preserved volatile organic analysis vials (VOAs) and preserved 250-mL poly bottles. The samples were labeled, stored in an insulated container with ice, and delivered to *Torrent Laboratory, Inc.* (Torrent), a California Department of Health Services certified laboratory, under chain-of-custody documentation for analysis.

Groundwater samples collected on July 11 were analyzed for TPHg, BTEX compounds, and fuel oxygenates by EPA Method 8260B. Samples collected on August 20 were analyzed for dissolved metals, including As, Cr, Fe and Se by EPA Method 6020, hexavalent Cr (Cr[VI]) by SW7199 and ferrous Fe (Fe[II]) by method H8146. Samples collected on July 11 were inadvertently analyzed for total metals, including As, Cr, Fe and Se by EPA Method 6010B. The laboratory analytical reports 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 0.005 feet/foot (ft/ft) during the July 2013 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 (1,300 micrograms per liter [$\mu\text{g}/\text{l}$] TPHg, 260 $\mu\text{g}/\text{L}$ benzene, 6.4 $\mu\text{g}/\text{L}$ toluene, 89 $\mu\text{g}/\text{L}$ ethylbenzene, 33 $\mu\text{g}/\text{L}$ xylenes, 80 $\mu\text{g}/\text{L}$ MTBE, 3,200 $\mu\text{g}/\text{L}$ TBA, and 10 $\mu\text{g}/\text{L}$ DIPE). In all other samples, site chemicals of concern were not detected above the laboratory reporting limits with the following exceptions:

- MW-2: 25 $\mu\text{g}/\text{L}$ MTBE;
- MW-4: 90 $\mu\text{g}/\text{L}$ TPHg and 59 $\mu\text{g}/\text{L}$ MTBE; and
- MW-7: 2.1 $\mu\text{g}/\text{L}$ MTBE.

Dissolved metals, including Fe, Fe(II), Cr, Cr(VI) and/or As, were detected at relatively low concentrations (below respective Environmental Screening Levels) in all wells. The highest concentrations of CrVI were detected in wells MW-3 (1.7 $\mu\text{g}/\text{l}$) and MW-4 (1.4 $\mu\text{g}/\text{l}$). Dissolved Fe in well MW-2 was anomalously high (2,000 $\mu\text{g}/\text{l}$).

Groundwater analytical results are summarized in Tables 3 (petroleum hydrocarbons) and 4 (dissolved metals) and Figure 4.

5.0 CONCLUSIONS AND RECOMMENDATIONS

- For this groundwater monitoring event, average groundwater flow was toward the southwest at approximately 0.005 ft/ft, within historical precedent for seasonal change in groundwater elevation and gradient. Based on a review of historical groundwater gradient direction, flow has primarily been toward the southwest (50%) and southeast (33%). Groundwater flow has also been towards the east (13%) and west (one event).
- 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 elevated in the sample from well MW-8 and near the historical high detected in the sample collected in September 2012. The decrease in MTBE in well MW-8 is influenced more by degradation to TBA than to down-gradient migration.
- Dissolved metals were detected at concentrations similar to pre-hydrogen peroxide injection levels and all detected concentrations were below the most conservative ESLs. The hydrogen peroxide injection did not have a lasting effect on dissolved metals. Dissolved Fe in well MW-2 was anomalously high (approximately 40x concentrations previously detected); Fe (II) was detected at levels similar to historical data in the same sample. An ESL for dissolved Fe is not available.
- Dissolved chromium in the hexavalent (oxidized) state was detected in wells MW-3 and MW-4 at concentrations of 1.7 $\mu\text{g}/\text{L}$ and 1.4 $\mu\text{g}/\text{L}$, respectively, below the most stringent environmental screening level (11 $\mu\text{g}/\text{L}$). Wells MW-3 and MW-4 are not located in the area targeted during the October 2011 injection event.
- 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 2014.



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.**



Brian Doherty
Staff Geologist

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

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 = Pending closure, groundwater samples will be analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8260TPH, and 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		
7/11/2013	10.60	9.20		



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		
7/11/2013	10.60	9.19		
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		
7/11/2013	10.19	9.11		



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		
7/11/2013	10.83	9.44		
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		
7/11/2013	9.32	9.61		



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				
		7/11/2013	9.97	9.36		
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		
				7/11/2013	9.35	9.48
		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 - Petroleum Hydrocarbons
 Former Olympian Service Station
 1435 Webster Street
 Alameda, California

Well ID	Sample Date	TPHd	TPHg	Concentrations in micrograms per liter ($\mu\text{g/L}$)					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	0.5	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	<0.5	---	<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	0.69	---	<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	---		
7/11/2013	---	90	<0.5	<0.5	<0.5	<1.5	59	---	<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	3,900	990	120	300	340	390	2	---	---	---	
	3/22/2001	380	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	5	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		
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	---		
7/11/2013	---	<50	<0.5	<0.5	<0.5	<1.5	<0.5	---	<0.5	<5.0	---		



Table 3
Summary of Groundwater Monitoring Analytical Results - Petroleum Hydrocarbons
 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	
SSTLs														
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	<1.5	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	---	---		
7/11/2013	---	<50	<0.5	<0.5	<0.5	<1.5	2.1	---	<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	5	426	10.6	115	22.4	12,700	---	25.0	864	289	
	3/6/2008	---	19,000	639	19.5	268	152	11,200	---	<4.4	<88	227	---	
	6/18/2008	---	5,800	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	
	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	---		
7/11/2013	---	1,300	4	260	10	89	33	80	---	10	3,200	---		
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	---	---	
7/11/2013	---	<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 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 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
 highlighted row = most recent data



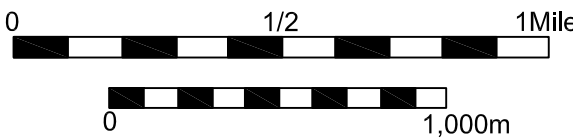
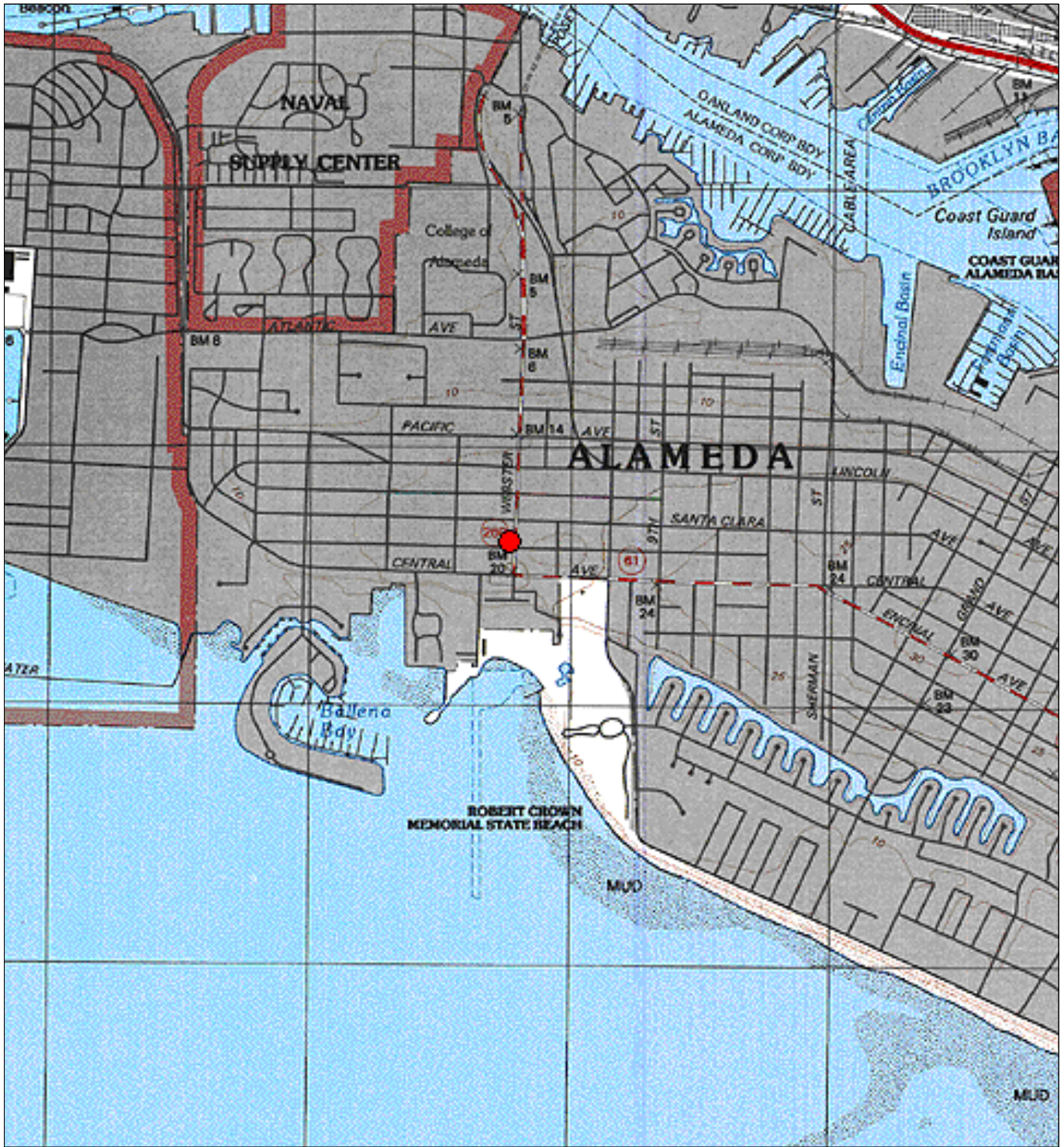
Table 4
Summary of Groundwater Analytical Results - Dissolved Metals
 1435 Webster Street
 Alameda, California

Sample ID	Date Sampled	Fe	Fe(II)	Cr	Cr(VI)	As	Se
		concentrations in micrograms per liter (ug/L)					
ESL		NA	NA	50	11	36	5
MW-2	4/19/2011	25	<100	<0.5	<0.5	1.1	<1.0
	10/26/2011	24	200	<0.5	<10	1.9	<1.0
	12/6/2011	57	120	<0.5	<10	1.7	<1.0
	8/20/2013	2,000	190	5.5	<0.5	2.3	<1.0
MW-3	4/19/2011	200	<100	3.9	5.0	0.46	<1.0
	10/26/2011	91	<100	2.9	18.0	0.81	<1.0
	12/6/2011	510	<100	3.4	<10	<0.3	<1.0
	8/20/2013	150	140	2.2	1.7	<0.3	<1.0
MW-4	4/19/2011	9.3	<100	5.2	6.7	0.69	<1.0
	10/26/2011	40	<100	2.7	17.0	1.0	<1.0
	12/6/2011	110	<100	1.6	<10	0.31	<1.0
	8/20/2013	140	<100	1.6	1.4	<0.3	<1.0
MW-6	4/19/2011	9.9	<100	<0.5	<0.5	1.1	<1.0
	10/26/2011	7	<100	0.5	<10	1.0	<1.0
	12/6/2011	39	<100	0.5	<10	<0.3	<1.0
	8/20/2013	34	<100	0.62	<0.5	<0.3	<1.0
MW-7	4/19/2011	1.5	<100	<0.5	<0.5	1.4	<1.0
	10/26/2011	12	220	1.7	<10	2.0	<1.0
	12/6/2011	37	<100	1.5	<10	1.1	<1.0
	8/20/2013	29	<100	0.70	0.56	1.8	<1.0
MW-8	4/19/2011	2,100	1,200	<0.5	<0.5	4.4	<1.0
	10/26/2011	2,000	2,800	<0.5	<10	5.6	<1.0
	12/6/2011	5,600	<100	<0.5	<10	7.2	<1.0
	8/20/2013	2,800	2,200	<0.5	<0.5	6.3	<1.0
MW-9	4/19/2011	4.8	<100	<0.5	<0.5	1.7	<1.0
	10/26/2011	3	<100	<0.5	<10	1.3	<1.0
	12/6/2011	34	<100	<0.5	<10	0.38	<1.0
	8/20/2013	38	<100	<0.5	<0.5	0.34	<1.0

Notes:
 Fe, Cr, As, Se = total dissolved iron, chromium, arsenic and selenium by EPA Method 6020.
 Cr(VI) = hexavalent chromium by method SW7199.
 Fe(II) = ferrous iron by method H8146
 ESL = Environmental Screening Levels. San Francisco Bay Regional Water Quality Control Board, Interim Final, February 2013, 2013 Tier 1 ESLs (screening levels resulting from default settings).
 NA = not applicable
BOLD = detected concentration exceeds ESL.



FIGURES



● Site Location

Map By: TOPO!

Date: 3/17/2009

Drafted By: AK

SITE

1435 Webster Street
Alameda, California

TEC
ACCUTITE

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

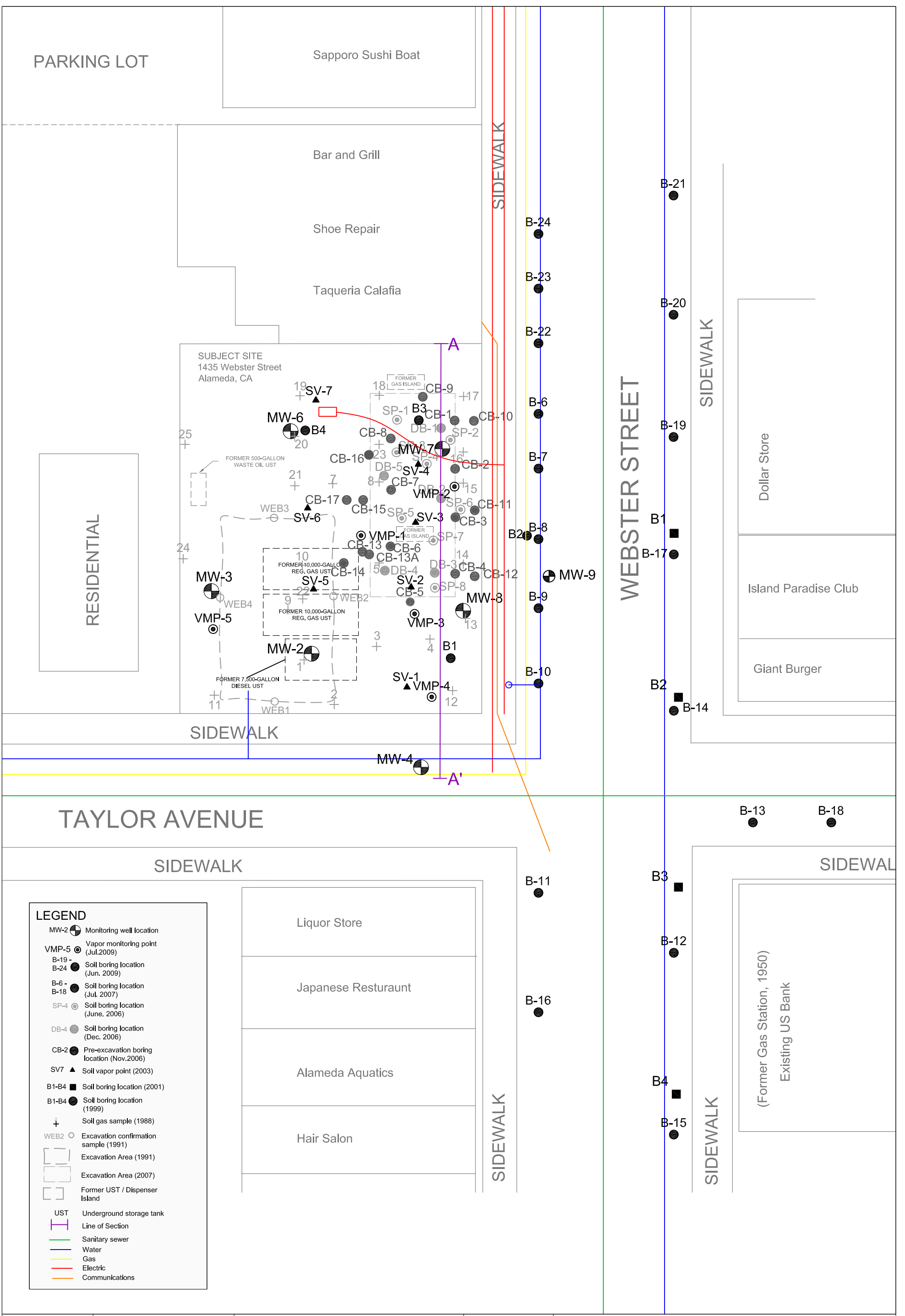
FIGURE

1

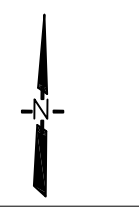
TITLE

Vicinity Map

S:\1 Environmental_Development\Shelby\1435 Webster, Alameda\1435 Webster - 4-16-11.dwg, 2/28/2011 2:52:07 PM, E:\shelby_tec\acurite



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)
SV-7	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)
[Dashed Box]	Excavation Area (2007)
[Dashed Box]	Former UST / Dispenser Island
UST	Underground storage tank
Line	Line of Section
Green Line	Sanitary sewer
Blue Line	Water
Yellow Line	Gas
Red Line	Electric
Orange Line	Communications



0 15 30 SCALE (ft)
Revision: 0
Date: 2/28/2011
Drafted By: ES

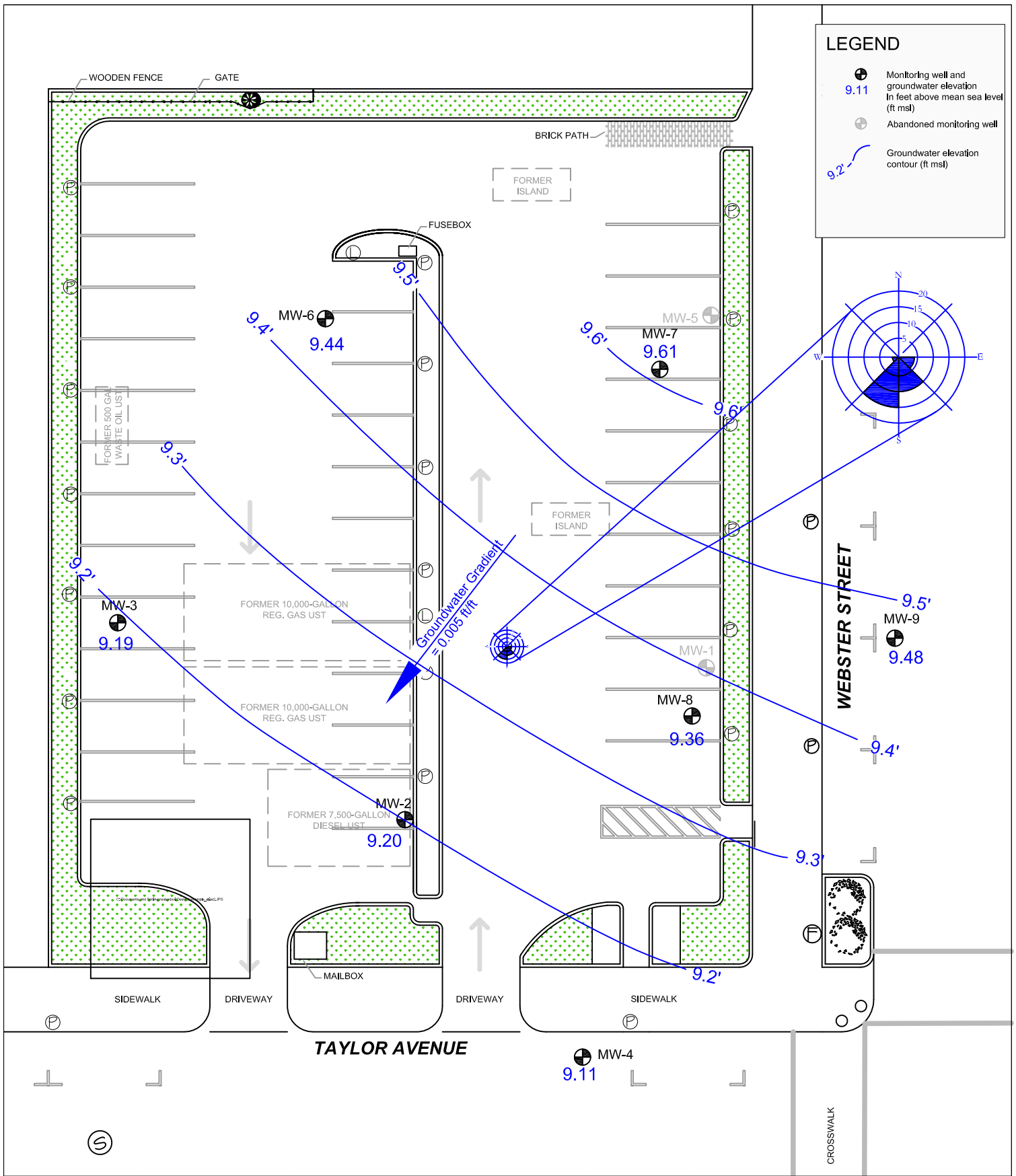
TEC
ACCURITE

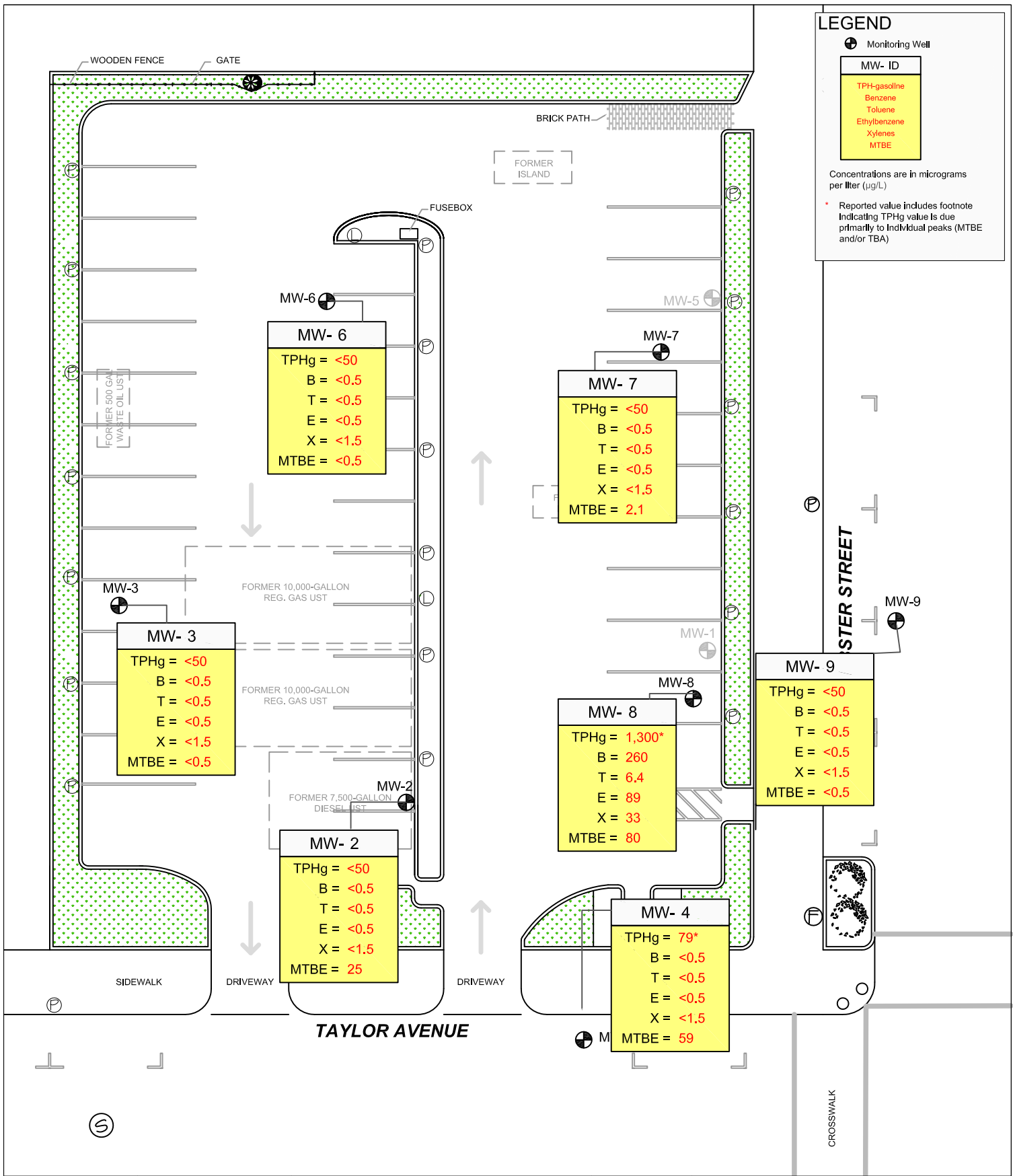
262 Michelle Court
So. San Francisco, CA 94080
Main: (650) 616-1200
Fax: (650) 616-1244

SITE
1435 Webster
Alameda, California

FIGURE 2

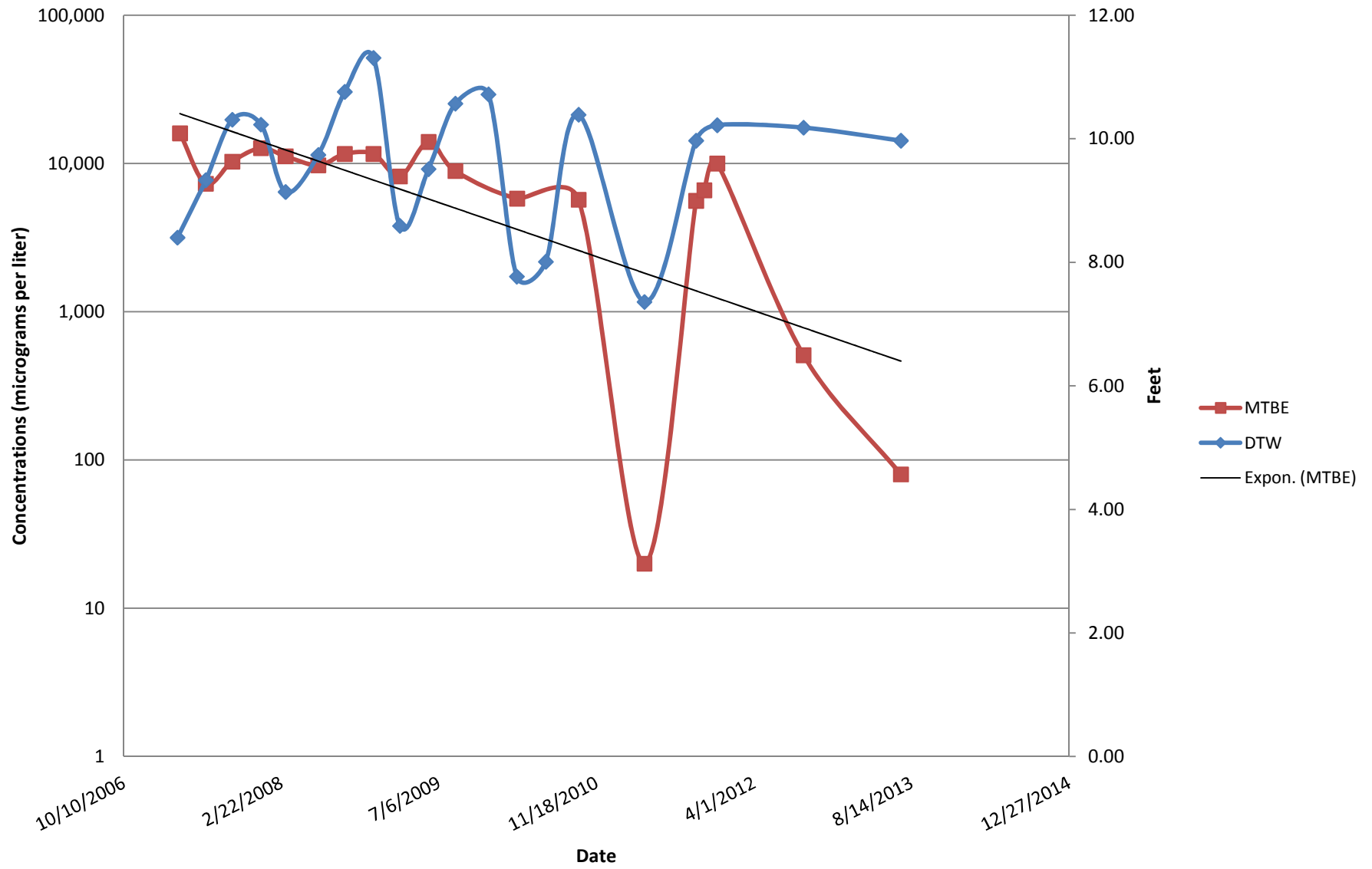
Site Map





CHART

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



ATTACHMENT A

FIELD DATA SHEETS



TEC ACCUTITE Well Data Sheet

Date: 7/11/13	Site Name: 1435 Webster	Project #: E-608-1-13	Sampler: BD
Event: SAMP/Q3	Site Address: Alameda	Client: Olympian	

WELL ID	TIME	MEASUREMENT					WELL DIAMETER	COMMENTS (i.e. pressurized or maintenance req.)
		DTP	PT	DTW	Historic DTB <small>date: 6/3/09</small>	Today's DTB		
MW-2	0845			10.60	19.42		2"	
MW-3	0844			10.60	21.85		2"	
MW-4	0849			9.51 @ 9.31019	19.76		2"	
MW-6	0843			10.83	19.34		2"	
MW-7	0847			9.32	19.81		4"	
MW-8	0846			9.97	20.03		4"	
MW-9	0904			9.35	19.94		4"	

Abbreviations:

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-608-1-13 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: 7/11/13 Start (2400hr): 1049 End (2400hr): 1056

Depth to Bottom: 19.42 Depth to Water: 10.60 Casing Diameter: 2"

DTB - DTW: 8.82 Purge (gal): 1.50 x 3 volumes: 4.50

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	<i>color</i> D.O. (mg/l)	Depth (ft)
<u>—</u>	<u>initial</u>	<u>19.9</u>	<u>795</u>	<u>6.29</u>	<u>low</u>	<u>clear</u>	<u>—</u>
<u>1051</u>	<u>1.5</u>	<u>20.0</u>	<u>798</u>	<u>6.44</u>	<u>"</u>	<u>cloudy</u>	<u>11.55</u>
<u>1054</u>	<u>3.0</u>	<u>19.8</u>	<u>797</u>	<u>6.62</u>	<u>"</u>	<u>"</u>	<u>12.00</u>
<u>1056</u>	<u>4.5</u>	<u>19.6</u>	<u>798</u>	<u>6.72</u>	<u>"</u>	<u>"</u>	<u>11.90</u>

Sample Information

Date: 7/11/13 Time: 1100 DTW: 10.85 Turbidity: low

Odor: None Analysis: metals & 8260 Sample Vessels: 3 VOAs & 1 poly
 Preservative: HCl & HNO₃

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

TEC Accutite
Water Sample Field Data Sheet

Project #: E-608-1-13 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: 7/11/13 Start (2400hr): 1029 End (2400hr): 1037
 Depth to Bottom: 21.85 Depth to Water: 10.60 Casing Diameter: 2"
 DTB - DTW: 11.25 Purge (gal): 1.91 x 3 volumes: 5.74

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	color P.O. (mg/l)	Depth (ft)
—	initial	20.3	482	6.16	low	clear	
1031	2.0	20.4	502	6.05	"	cloudy	11.25
1034	4.0	20.4	511	6.05	"	"	11.40
1037	6.0	20.4	517	6.09	"	"	11.45

Sample Information

Date: 7/11/13 Time: 1039 DTW: 11.00 Turbidity: low
 Odor: None Analysis: metals & 8260 Sample Vessels: 3 VOAs & 1 poly
 Preservative: HCl & HNO₃

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

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-608-1-13 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: 7/11/13 Start (2400hr): 1114 End (2400hr): 1120
 Depth to Bottom: 19.76 Depth to Water: 10.19 Casing Diameter: 2"
 DTB - DTW: 9.57 Purge (gal): 1.63 x 3 volumes: 4.88

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	color D.O. (mg/l)	Depth (ft)
<u>---</u>	<u>initial</u>	<u>19.3</u>	<u>366</u>	<u>7.23</u>	<u>low</u>	<u>clear</u>	<u>---</u>
<u>1117</u>	<u>1.5</u>	<u>19.2</u>	<u>401</u>	<u>6.74</u>	<u>"</u>	<u>clear</u>	<u>16.90</u>
<u>1120</u>	<u>WELL WENT DRY @ ~</u>			<u>2.5 GALLONS</u>	<u>PURGED</u>		

Sample Information

Date: 7/11/13 Time: 1218 DTW: 10.22 Turbidity: low
 Odor: none Analysis: metals & 8260 Sample Vessels: 3 VOAs & 1 poly
 Preservative: HCl & HNO3

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

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-608-1-13 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: 7/11/13 Start (2400hr): 1002 End (2400hr): 1009
 Depth to Bottom: 19.34 Depth to Water: 10.83 Casing Diameter: 2"
 DTB - DTW: 8.51 Purge (gal): 1.45 x 3 volumes: 4.34

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	^{color} D.O. (mg/l)	Depth (ft)
—	initial	20.3	426	6.34	low	clear	
1005	1.5	20.4	422	5.99	"	cloudy	11.85
1007	3.0	20.4	419	5.94	"	"	12.10
1009	4.5	20.4	425	5.99	"	"	12.50

Sample Information

Date: 7/11/13 Time: 1005 DTW: 11.20 Turbidity: low
 Odor: none Analysis: metals & 8260 Sample Vessels: 3 VOAs & 1 poly
 Preservative: HCl & HNO3

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 Johns

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-608-1-13 Purged By: BD Well ID: MW-7
 Client Name: Olympian Sampled By: BD Sample ID: MW-7
 Location: 1435 Webster QA Samples: ---

Purge Information

Date: 7/11/13 Start (2400hr): 1153 End (2400hr): 1208
 Depth to Bottom: 19.81 Depth to Water: 9.32 Casing Diameter: 4"
 DTB - DTW: 10.49 Purge (gal): 6.82 x 3 volumes: 20.46

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	^{color} P.O. (mg/l)	Depth (ft)
—	initial	20.1	3.35 mS	6.54	10W	clear	—
1158	7.0	20.9	3.28 mS	6.93	"	"	14.20
1203	13.5	20.5	3.13 mS	7.03	"	"	15.50
1208	20.5	20.2	2.79 mS	7.08	"	"	16.50

Sample Information

Date: 7/11/13 Time: 1253 DTW: 9.60 Turbidity: 10W
 Odor: none Analysis: metals & 8260 Sample Vessels: 3 VOAs & 1 poly
 Preservative: HCl & HNO₃

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

TEC Accutite
Water Sample Field Data Sheet

Project #: E-608-1-13 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: 7/11/13 Start (2400hr): 1131 End (2400hr): 1142
 Depth to Bottom: 20.03 Depth to Water: 9.97 Casing Diameter: 4"
 DTB - DTW: 10.06 Purge (gal): 6.54 x 3 volumes: 19.62

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	Color D.O. (mg/l)	Depth (ft)
<u>—</u>	<u>initial</u>	<u>20.0</u>	<u>861</u>	<u>6.28</u>	<u>low</u>	<u>clear</u>	<u>—</u>
<u>1135</u>	<u>6.5</u>	<u>21.0</u>	<u>794</u>	<u>6.20</u>	<u>"</u>	<u>"</u>	<u>14.60</u>
<u>1140</u>	<u>13.0</u>	<u>20.2</u>	<u>821</u>	<u>6.20</u>	<u>"</u>	<u>"</u>	<u>18.40</u>
<u>1142</u>	<u>WELL WENT DRY @ ~15 GALLONS PURGED</u>						

Sample Information

Date: 7/11/13 Time: 1237 DTW: 11.70 Turbidity: low
 Odor: slight Analysis: metals & 8260 Sample Vessels: 3 VOAs & 1 poly
 Preservative: HCl & HNO₃

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

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-608-1-13 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: 7/11/13 Start (2400hr): 0917 End (2400hr): 0932
 Depth to Bottom: 19.94 Depth to Water: 9.35 Casing Diameter: 4"
 DTB - DTW: 10.59 Purge (gal): 6.88 x 3 volumes: 20.65

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	color p.O. (mg/l)	Depth (ft)
<u>initial</u>		<u>19.7</u>	<u>399</u>	<u>6.23</u>	<u>low</u>	<u>clear</u>	<u>11.90</u>
<u>0922</u>	<u>7.0</u>	<u>20.8</u>	<u>382</u>	<u>5.86</u>	<u>"</u>	<u>"</u>	<u>↓</u>
<u>0927</u>	<u>14.0</u>	<u>20.5</u>	<u>390</u>	<u>5.90</u>	<u>"</u>	<u>"</u>	<u>13.68</u>
<u>0932</u>	<u>21.0</u>	<u>20.3</u>	<u>394</u>	<u>5.91</u>	<u>"</u>	<u>"</u>	<u>14.71</u>

Sample Information

Date: 7/11/13 Time: 0938 DTW: 10.51 Turbidity: low
 Odor: None Analysis: metals & 8260 Sample Vessels: 3 VOAs & 1 poly
 Preservative: HCl & HNO₃

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 DeHasty

TEC ACCUTITE Well Data Sheet

Date: 8/20/13	Site Name: 1435 Webster	Project #: E-608-1-13	Sampler: BD
Event: Metals sampling	Site Address: Alameda	Client: Olympian	

WELL ID	TIME	MEASUREMENT					WELL DIAMETER	COMMENTS <small>(i.e. pressurized or maintenance req.)</small>
		DTP	PT	DTW	Historic DTB <small>date: 6/3/09</small>	Today's DTB		
MW-2				11.09	19.42		2"	
MW-3				11.10	21.85		2"	
MW-4				10.71	19.76		2"	
MW-6				11.35	19.34		2"	
MW-7				9.88	19.81		4"	
MW-8				10.46	20.03		4"	
MW-9				9.81	19.94		4"	

Abbreviations:

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-608-1-13 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: 8/20/13 Start (2400hr): 1035 End (2400hr): 1042
 Depth to Bottom: 19.42 Depth to Water: 11.09 Casing Diameter: 2"
 DTB - DTW: 8.33 Purge (gal): 1.42 x 3 volumes: 4.25

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
1038	1.5	20.8	1430	7.43	low brown	3.03	
1040	3.0	20.6	1433	7.41	1	3.21	
1042	4.5	20.5	1435	7.41	1	3.43	

Sample Information

Date: 8/20/13 Time: 1054 DTW: 11.11 Turbidity: low
 Odor: None Analysis: Dissolved metals, hex chrom, Fe, Mn, 8200 Iron Sample Vessels: 3 VOA's Amber w/ septa & 1 poly
 Preservative: Her preserved

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 D. [Signature]

TEC Accutite
Water Sample Field Data Sheet

Project #: E-608-1-13 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: 8/20/13 Start (2400hr): 1007 End (2400hr): 1014
Depth to Bottom: 21.85 Depth to Water: 11.10 Casing Diameter: 2"
DTB - DTW: 10.75 Purge (gal): 1.83 x 3 volumes: 5.48

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
1009	2.0	21.5	790	6.90	blky	3.24	
1011	3.5	21.4	792	6.89	"	3.25	
1014	5.5	21.1	794	6.91	"	3.28	

Sample Information

Date: 8/20/13 Time: 1016 DTW: 11.65 Turbidity: low
Odor: none Analysis: ^{Dissolved metals, hex. Chrome, Ferrous iron} 8280 Sample Vessels: 3-VOAS (amber d poly)
Preservative: HCl in preservative

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 DeLong

TEC Accutite
Water Sample Field Data Sheet

Project #: E-608-1-13 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: 8/20/13 Start (2400hr): 1209 End (2400hr): 1213
Depth to Bottom: 19.76 Depth to Water: 10.71 Casing Diameter: 2"
DTB - DTW: 9.05 Purge (gal): 1.54 x 3 volumes: 4.62

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
1211	1.5	20.4	580	7.25	low-brown	3.15	
1213	WELL WENT DRY @ 2.5 GALLONS PURGED						

Sample Information

Date: 8/20/13 Time: 1228 DTW: 11.90 Turbidity: low
Odor: none Analysis: dissolved metals, hex-chrome, ferrous ~~8200~~ Sample Vessels: 3-VOAs 1 poly & 1 amber
Preservative: HCl in preserved

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: Bruce Johnson

TEC Accutite
Water Sample Field Data Sheet

Project #: E-608-1-13 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: 8/20/13 Start (2400hr): 0945 End (2400hr): 0952
 Depth to Bottom: 19.34 Depth to Water: 11.35 Casing Diameter: 2"
 DTB - DTW: 7.99 Purge (gal): 1.36 x 3 volumes: 4.07

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
<u>0948</u>	<u>1.5</u>	<u>21.3</u>	<u>573</u>	<u>7.15</u>	<u>low</u>	<u>3.09</u>	
<u>0950</u>	<u>3.0</u>	<u>21.3</u>	<u>567</u>	<u>6.99</u>	<u>"</u>	<u>3.24</u>	
<u>0952</u>	<u>4.0</u>	<u>21.3</u>	<u>571</u>	<u>6.94</u>	<u>"</u>	<u>3.45</u>	

Sample Information

Date: 8/20/13 Time: 12:40 DTW: 12.40 Turbidity: low
 Odor: none Analysis: hex. chrome, dissolved metals, ferric iron Sample Vessels: 3-VOAs Amber & 1 poly
 Preservative: HCl unpreserved

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 Johnson

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-608-1-13 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: 8/20/13 Start (2400hr): 1138 End (2400hr): 1148
 Depth to Bottom: 20.03 Depth to Water: 10.46 Casing Diameter: 4"
 DTB - DTW: 9.57 Purge (gal): 6.22 x 3 volumes: 18.66

Field Measurements

Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
1142	6.0	21.8	1107	6.96	low-clear	0.21	
1146	12.5	20.9	1117	6.85	"	0.14	
1148	WELL WENT DRY @ ~ 15 GALLONS						PURGED

Sample Information

Date: 8/20/13 Time: 1241 DTW: 12.25 Turbidity: low
 Odor: slight Analysis: hex. chrome, dissolved metals, permanganate, iron Sample Vessels: 3-VIAS 1 poly & 1 amber
 Preservative: HCL unpreserved

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

**TEC Accutite
Water Sample Field Data Sheet**

Project #: E-608-1-13 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: 8/20/13 Start (2400hr): 0910 End (2400hr): 0928
 Depth to Bottom: 19.94 Depth to Water: 9.81 Casing Diameter: 4"
 DTB - DTW: 9.13 Purge (gal): 5.93 x 3 volumes: 17.80

Field Measurements							
Time (2400hr)	Volume (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
0921	6.0	20.5	407	5.99	low	4.13	12.03
0925	12.0	20.3	400	5.93	"	3.60	13.48
0929	18.0	20.2	389	5.91	"	2.52	14.96

Sample Information

Date: 8/20/13 Time: 0932 DTW: 11.03 Turbidity: low
 Odor: none Analysis: Dissolved metals, hex-chrome, ferrous iron Sample Vessels: 3-VOAs / amber d. / poly
 Preservative: HGT / preserved

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

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

Work Order No.: 1307049

Dear Paul Dotson:

Torrent Laboratory, Inc. received 7 sample(s) on July 12, 2013 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

July 23, 2013

Date



Date: 7/23/2013

Client: Tec Accutite

Project: 1435 Webster

Work Order: 1307049

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.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

Analytical Comment for 6010B, Note: The spikes in the MS/MSD for Iron are not recoverable. The sample concentration is greater than 4X the spike concentration. No corrective action is required.



Sample Result Summary

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13

Date Reported: 07/23/13

MW-2

1307049-001

<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	25	ug/L
Iron	SW6010B	1	0.002	0.30	77	mg/L
Arsenic	SW6010B	1	0.005	0.010	0.027	mg/L
Chromium	SW6010B	1	0.002	0.005	0.17	mg/L

MW-3

1307049-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Iron	SW6010B	1	0.002	0.30	70	mg/L
Chromium	SW6010B	1	0.002	0.005	0.17	mg/L

MW-4

1307049-003

<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	59	ug/L
TPH as Gasoline	8260TPH	1	31	50	90	ug/L
Iron	SW6010B	1	0.002	0.30	4.0	mg/L
Chromium	SW6010B	1	0.002	0.005	0.013	mg/L

MW-6

1307049-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Iron	SW6010B	1	0.002	0.30	6.6	mg/L
Chromium	SW6010B	1	0.002	0.005	0.017	mg/L



Sample Result Summary

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13

Date Reported: 07/23/13

MW-7

1307049-005

<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	2.1	ug/L
Iron	SW6010B	1	0.002	0.30	0.68	mg/L

MW-8

1307049-006

<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	80	ug/L
Diisopropyl ether (DIPE)	SW8260B	1	0.15	0.50	10	ug/L
Toluene	SW8260B	1	0.059	0.50	6.4	ug/L
Ethyl Benzene	SW8260B	1	0.074	0.50	89	ug/L
m,p-Xylene	SW8260B	1	0.13	1.0	33	ug/L
TPH as Gasoline	8260TPH	1	31	50	1300	ug/L
tert-Butanol	SW8260B	44	68	220	3200	ug/L
Benzene	SW8260B	44	3.9	22	260	ug/L
Iron	SW6010B	1	0.002	0.30	5.3	mg/L
Arsenic	SW6010B	1	0.005	0.010	0.011	mg/L

MW-9

1307049-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Iron	SW6010B	1	0.002	0.30	3.8	mg/L
Chromium	SW6010B	1	0.002	0.005	0.0098	mg/L



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-2	Lab Sample ID:	1307049-001A
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 11:00		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	25		ug/L	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	1	1.5	5.0	ND		ug/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	ND		ug/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND		ug/L	416542	NA
Benzene	SW8260B	NA	07/18/13	1	0.088	0.50	ND		ug/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND		ug/L	416542	NA
Toluene	SW8260B	NA	07/18/13	1	0.059	0.50	ND		ug/L	416542	NA
Ethyl Benzene	SW8260B	NA	07/18/13	1	0.074	0.50	ND		ug/L	416542	NA
m,p-Xylene	SW8260B	NA	07/18/13	1	0.13	1.0	ND		ug/L	416542	NA
o-Xylene	SW8260B	NA	07/18/13	1	0.076	0.50	ND		ug/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	1	61.2	131	93.2		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	1	75.1	127	90.7		%	416542	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	07/18/13	1	64.1	120	96.0		%	416542	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	7/18/13	07/18/13	1	31	50	ND		ug/L	416542	9223
(S) 4-Bromofluorobenzene	8260TPH	7/18/13	07/18/13	1	41.5	125	101		%	416542	9223



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-2	Lab Sample ID:	1307049-001B
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 11:00		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron	SW6010B	7/16/13	07/17/13	1	0.002	0.30	77		mg/L	416477	9185
Arsenic	SW6010B	7/16/13	07/17/13	1	0.005	0.010	0.027		mg/L	416477	9185
Chromium	SW6010B	7/16/13	07/17/13	1	0.002	0.005	0.17		mg/L	416477	9185
Selenium	SW6010B	7/16/13	07/17/13	1	0.004	0.020	ND		mg/L	416477	9185



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-3	Lab Sample ID:	1307049-002A
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 10:39		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	ND		ug/L	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	1	1.5	5.0	ND		ug/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	ND		ug/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND		ug/L	416542	NA
Benzene	SW8260B	NA	07/18/13	1	0.088	0.50	ND		ug/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND		ug/L	416542	NA
Toluene	SW8260B	NA	07/18/13	1	0.059	0.50	ND		ug/L	416542	NA
Ethyl Benzene	SW8260B	NA	07/18/13	1	0.074	0.50	ND		ug/L	416542	NA
m,p-Xylene	SW8260B	NA	07/18/13	1	0.13	1.0	ND		ug/L	416542	NA
o-Xylene	SW8260B	NA	07/18/13	1	0.076	0.50	ND		ug/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	1	61.2	131	90.0		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	1	75.1	127	91.8		%	416542	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	07/18/13	1	64.1	120	97.0		%	416542	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	7/18/13	07/18/13	1	31	50	ND		ug/L	416542	9223
(S) 4-Bromofluorobenzene	8260TPH	7/18/13	07/18/13	1	41.5	125	112		%	416542	9223



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-3	Lab Sample ID:	1307049-002B
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 10:39		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron	SW6010B	7/16/13	07/17/13	1	0.002	0.30	70		mg/L	416477	9185
Arsenic	SW6010B	7/16/13	07/17/13	1	0.005	0.010	ND		mg/L	416477	9185
Chromium	SW6010B	7/16/13	07/17/13	1	0.002	0.005	0.17		mg/L	416477	9185
Selenium	SW6010B	7/16/13	07/17/13	1	0.004	0.020	ND		mg/L	416477	9185



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-4	Lab Sample ID:	1307049-003A
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 12:18		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	59		ug/L	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	1	1.5	5.0	ND		ug/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	ND		ug/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND		ug/L	416542	NA
Benzene	SW8260B	NA	07/18/13	1	0.088	0.50	ND		ug/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND		ug/L	416542	NA
Toluene	SW8260B	NA	07/18/13	1	0.059	0.50	ND		ug/L	416542	NA
Ethyl Benzene	SW8260B	NA	07/18/13	1	0.074	0.50	ND		ug/L	416542	NA
m,p-Xylene	SW8260B	NA	07/18/13	1	0.13	1.0	ND		ug/L	416542	NA
o-Xylene	SW8260B	NA	07/18/13	1	0.076	0.50	ND		ug/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	1	61.2	131	99.9		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	1	75.1	127	91.1		%	416542	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	07/18/13	1	64.1	120	98.3		%	416542	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	7/18/13	07/18/13	1	31	50	90	x	ug/L	416542	9223
(S) 4-Bromofluorobenzene	8260TPH	7/18/13	07/18/13	1	41.5	125	112		%	416542	9223

NOTE: x - Does not match pattern of reference Gasoline standard. Hydrocarbons in the range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-4	Lab Sample ID:	1307049-003B
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 12:18		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron	SW6010B	7/16/13	07/17/13	1	0.002	0.30	4.0		mg/L	416477	9185
Arsenic	SW6010B	7/16/13	07/17/13	1	0.005	0.010	ND		mg/L	416477	9185
Chromium	SW6010B	7/16/13	07/17/13	1	0.002	0.005	0.013		mg/L	416477	9185
Selenium	SW6010B	7/16/13	07/17/13	1	0.004	0.020	ND		mg/L	416477	9185



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-6	Lab Sample ID:	1307049-004A
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 10:13		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	ND		ug/L	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	1	1.5	5.0	ND		ug/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	ND		ug/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND		ug/L	416542	NA
Benzene	SW8260B	NA	07/18/13	1	0.088	0.50	ND		ug/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND		ug/L	416542	NA
Toluene	SW8260B	NA	07/18/13	1	0.059	0.50	ND		ug/L	416542	NA
Ethyl Benzene	SW8260B	NA	07/18/13	1	0.074	0.50	ND		ug/L	416542	NA
m,p-Xylene	SW8260B	NA	07/18/13	1	0.13	1.0	ND		ug/L	416542	NA
o-Xylene	SW8260B	NA	07/18/13	1	0.076	0.50	ND		ug/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	1	61.2	131	105		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	1	75.1	127	94.1		%	416542	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	07/18/13	1	64.1	120	94.8		%	416542	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	7/18/13	07/18/13	1	31	50	ND		ug/L	416542	9223
(S) 4-Bromofluorobenzene	8260TPH	7/18/13	07/18/13	1	41.5	125	97.3		%	416542	9223



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-6	Lab Sample ID:	1307049-004B
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 10:13		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron	SW6010B	7/16/13	07/17/13	1	0.002	0.30	6.6		mg/L	416477	9185
Arsenic	SW6010B	7/16/13	07/17/13	1	0.005	0.010	ND		mg/L	416477	9185
Chromium	SW6010B	7/16/13	07/17/13	1	0.002	0.005	0.017		mg/L	416477	9185
Selenium	SW6010B	7/16/13	07/17/13	1	0.004	0.020	ND		mg/L	416477	9185



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-7	Lab Sample ID:	1307049-005A
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 12:53		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	2.1		ug/L	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	1	1.5	5.0	ND		ug/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	ND		ug/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND		ug/L	416542	NA
Benzene	SW8260B	NA	07/18/13	1	0.088	0.50	ND		ug/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND		ug/L	416542	NA
Toluene	SW8260B	NA	07/18/13	1	0.059	0.50	ND		ug/L	416542	NA
Ethyl Benzene	SW8260B	NA	07/18/13	1	0.074	0.50	ND		ug/L	416542	NA
m,p-Xylene	SW8260B	NA	07/18/13	1	0.13	1.0	ND		ug/L	416542	NA
o-Xylene	SW8260B	NA	07/18/13	1	0.076	0.50	ND		ug/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	1	61.2	131	111		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	1	75.1	127	93.3		%	416542	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	07/18/13	1	64.1	120	98.7		%	416542	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	7/18/13	07/18/13	1	31	50	ND		ug/L	416542	9223
(S) 4-Bromofluorobenzene	8260TPH	7/18/13	07/18/13	1	41.5	125	94.6		%	416542	9223



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-7	Lab Sample ID:	1307049-005B
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 12:53		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron	SW6010B	7/16/13	07/17/13	1	0.002	0.30	0.68		mg/L	416477	9185
Arsenic	SW6010B	7/16/13	07/17/13	1	0.005	0.010	ND		mg/L	416477	9185
Chromium	SW6010B	7/16/13	07/17/13	1	0.002	0.005	ND		mg/L	416477	9185
Selenium	SW6010B	7/16/13	07/17/13	1	0.004	0.020	ND		mg/L	416477	9185



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-8	Lab Sample ID:	1307049-006A
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 12:37		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	80		ug/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	10		ug/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND		ug/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND		ug/L	416542	NA
Toluene	SW8260B	NA	07/18/13	1	0.059	0.50	6.4		ug/L	416542	NA
Ethyl Benzene	SW8260B	NA	07/18/13	1	0.074	0.50	89		ug/L	416542	NA
m,p-Xylene	SW8260B	NA	07/18/13	1	0.13	1.0	33		ug/L	416542	NA
o-Xylene	SW8260B	NA	07/18/13	1	0.076	0.50	ND		ug/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	1	61.2	131	101		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	1	75.1	127	93.8		%	416542	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	07/18/13	1	64.1	120	99.8		%	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	44	68	220	3200		ug/L	416542	NA
Benzene	SW8260B	NA	07/18/13	44	3.9	22	260		ug/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	44	61.2	131	109		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	44	75.1	127	94.1		%	416542	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	07/18/13	44	64.1	120	101		%	416542	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	7/18/13	07/18/13	1	31	50	1300	x	ug/L	416542	9223
(S) 4-Bromofluorobenzene	8260TPH	7/18/13	07/18/13	1	41.5	125	103		%	416542	9223

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



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-8	Lab Sample ID:	1307049-006B
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 12:37		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron	SW6010B	7/16/13	07/17/13	1	0.002	0.30	5.3		mg/L	416477	9185
Arsenic	SW6010B	7/16/13	07/17/13	1	0.005	0.010	0.011		mg/L	416477	9185
Chromium	SW6010B	7/16/13	07/17/13	1	0.002	0.005	ND		mg/L	416477	9185
Selenium	SW6010B	7/16/13	07/17/13	1	0.004	0.020	ND		mg/L	416477	9185



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-9	Lab Sample ID:	1307049-007A
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 9:38		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	ND		ug/L	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	1	1.5	5.0	ND		ug/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	ND		ug/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND		ug/L	416542	NA
Benzene	SW8260B	NA	07/18/13	1	0.088	0.50	ND		ug/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND		ug/L	416542	NA
Toluene	SW8260B	NA	07/18/13	1	0.059	0.50	ND		ug/L	416542	NA
Ethyl Benzene	SW8260B	NA	07/18/13	1	0.074	0.50	ND		ug/L	416542	NA
m,p-Xylene	SW8260B	NA	07/18/13	1	0.13	1.0	ND		ug/L	416542	NA
o-Xylene	SW8260B	NA	07/18/13	1	0.076	0.50	ND		ug/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	1	61.2	131	112		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	1	75.1	127	94.7		%	416542	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	07/18/13	1	64.1	120	101		%	416542	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	7/18/13	07/18/13	1	31	50	ND		ug/L	416542	9223
(S) 4-Bromofluorobenzene	8260TPH	7/18/13	07/18/13	1	41.5	125	97.2		%	416542	9223



SAMPLE RESULTS

Report prepared for: Paul Dotson
Tec Accutite

Date Received: 07/12/13
Date Reported: 07/23/13

Client Sample ID:	MW-9	Lab Sample ID:	1307049-007B
Project Name/Location:	1435 Webster	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	07/11/13 / 9:38		
Tag Number:	1435 Webster		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron	SW6010B	7/16/13	07/17/13	1	0.002	0.30	3.8		mg/L	416477	9185
Arsenic	SW6010B	7/16/13	07/17/13	1	0.005	0.010	ND		mg/L	416477	9185
Chromium	SW6010B	7/16/13	07/17/13	1	0.002	0.005	0.0098		mg/L	416477	9185
Selenium	SW6010B	7/16/13	07/17/13	1	0.004	0.020	ND		mg/L	416477	9185



MB Summary Report

Work Order:	1307049	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	07/18/13	Analytical Batch:	416542
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:	1307049	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	07/18/13	Analytical Batch:	416542
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			107		
(S) Toluene-d8			95.0		
(S) 4-Bromofluorobenzene			108		
Ethanol	0.21	0.50	ND	TIC	

Work Order:	1307049	Prep Method:	3010B	Prep Date:	07/16/13	Prep Batch:	9185
Matrix:	Water	Analytical Method:	SW6010B	Analyzed Date:	07/17/13	Analytical Batch:	416477
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Iron	0.002	0.30	0.010		
Arsenic	0.005	0.010	ND		
Chromium	0.002	0.005	ND		
Selenium	0.004	0.020	ND		



MB Summary Report

Work Order:	1307049	Prep Method:	5030	Prep Date:	07/18/13	Prep Batch:	9223
Matrix:	Water	Analytical Method:	8260TPH	Analyzed Date:	07/18/13	Analytical Batch:	416542
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	31	50	ND	
(S) 4-Bromofluorobenzene			97.6	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1307049	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	07/18/13	Analytical Batch:	416542
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	114	90.2	23.2	61.4 - 129	30	
Benzene	0.087	0.50	ND	17.04	116	93.2	21.9	66.9 - 140	30	
Trichloroethylene	0.057	0.50	ND	17.04	105	85.4	20.1	69.3 - 144	30	
Toluene	0.059	0.50	ND	17.04	115	89.5	24.9	76.6 - 123	30	
Chlorobenzene	0.068	0.50	ND	17.04	112	87.3	24.3	73.9 - 137	30	
(S) Dibromofluoromethane			ND	11.36	96.3	96.2		61.2 - 131		
(S) Toluene-d8			ND	11.36	94.6	94.4		75.1 - 127		
(S) 4-Bromofluorobenzene			ND	11.36	96.6	95.5		64.1 - 120		

Work Order:	1307049	Prep Method:	3010B	Prep Date:	07/16/13	Prep Batch:	9185
Matrix:	Water	Analytical Method:	SW6010B	Analyzed Date:	07/17/13	Analytical Batch:	416477
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Iron	0.002	0.3	0.010	10	94.83	102	7.09	80 - 120	30	
Arsenic	0.005	0.01	ND	1	94.62	96.8	2.26	80 - 120	30	
Chromium	0.002	0.005	ND	1	92.98	96.6	3.83	80 - 120	30	
Selenium	0.004	0.02	ND	1	94.76	96.8	2.12	80 - 120	30	

Work Order:	1307049	Prep Method:	5030	Prep Date:	07/18/13	Prep Batch:	9223
Matrix:	Water	Analytical Method:	8260TPH	Analyzed Date:	07/18/13	Analytical Batch:	416542
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 as Gasoline	31	50	ND	227.27	91.7	88.9	3.12	52.4 - 127	30	
(S) 4-Bromofluorobenzene			97.6	11.36	121	110		41.5 - 125		



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1307049	Prep Method:	3010B	Prep Date:	07/16/13	Prep Batch:	9185
Matrix:	Water	Analytical Method:	SW6010B	Analyzed Date:	07/17/13	Analytical Batch:	416477
Spiked Sample:	1307049-001B						
Units:	mg/L						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Iron	0.002	0.30	76.94	10	0.000	0.000	6.05	75 - 125	20	NR
Arsenic	0.005	0.010	0.0266	1	89.8	91.1	1.39	75 - 125	20	
Chromium	0.002	0.005	0.1723	1	87.8	87.6	0.191	75 - 125	20	
Selenium	0.004	0.020	0	1	87.2	86.7	0.540	75 - 125	20	



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 100cm2 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: 7/12/2013 13:07

Project Name: 1435 Webster

Received By: pp

Work Order No.: 1307049

Physically Logged By: ng

Checklist Completed By: ng

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: °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

Samples received in a cooler with ice at 6 deg C.



Login Summary Report

Client ID:	TL5132	Tec Accutite	QC Level:
Project Name:	1435 Webster		TAT Requested: 5+ day:0
Project # :			Date Received: 7/12/2013
Report Due Date:	7/23/2013		Time Received: 13:07
Comments:	5day TAT. EDF requested. Seven groundwaters for GRO, VOCs (BTEX/oxy) and Metals (Fe, Cr, As, Se). Send report to Paul Dotson.		
	Per phone covnversation with Paul Dotson on 7/16/13: Do not analyze samples for Hexavalent Chromium or Ferrous iron. They will resample. Analyze for everything else (GRO, BTEX, fuel oxy, and Fe/Cr/As/Se). --KB 07/16/13		
Work Order # :	1307049		

<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>
1307049-001A	MW-2	07/11/13 11:00	Water	08/26/13			W_8260Pet EDF W_GCMS-GRO	
Sample Note:	GRO, BTEX/fuel oxy. Run all samples to ESLs.							
1307049-001B	MW-2	07/11/13 11:00	Water	08/26/13			W_6010B_ALL	
Sample Note:	Metals (Fe, Cr, As, Se). Run all samples to ESLs.							
1307049-002A	MW-3	07/11/13 10:39	Water	08/26/13			W_8260Pet W_GCMS-GRO	
1307049-002B	MW-3	07/11/13 10:39	Water	08/26/13			W_6010B_ALL	
1307049-003A	MW-4	07/11/13 12:18	Water	08/26/13			W_8260Pet W_GCMS-GRO	
1307049-003B	MW-4	07/11/13 12:18	Water	08/26/13			W_6010B_ALL	
1307049-004A	MW-6	07/11/13 10:13	Water	08/26/13			W_8260Pet W_GCMS-GRO	
1307049-004B	MW-6	07/11/13 10:13	Water	08/26/13			W_6010B_ALL	
1307049-005A	MW-7	07/11/13 12:53	Water	08/26/13			W_8260Pet W_GCMS-GRO	
1307049-005B	MW-7	07/11/13 12:53	Water	08/26/13			W_6010B_ALL	
1307049-006A	MW-8	07/11/13 12:37	Water	08/26/13			W_8260Pet W_GCMS-GRO	
1307049-006B	MW-8	07/11/13 12:37	Water	08/26/13				



Login Summary Report

Client ID:	TL5132	Tec Accutite	QC Level:	
Project Name:	1435 Webster		TAT Requested:	5+ day:0
Project # :			Date Received:	7/12/2013
Report Due Date:	7/23/2013		Time Received:	13:07
Comments:	<p>5day TAT. EDF requested. Seven groundwaters for GRO, VOCs (BTEX/oxy) and Metals (Fe, Cr, As, Se). Send report to Paul Dotson.</p> <p>Per phone conversation with Paul Dotson on 7/16/13: Do not analyze samples for Hexavalent Chromium or Ferrous iron. They will resample. Analyze for everything else (GRO, BTEX, fuel oxy, and Fe/Cr/As/Se). --KB 07/16/13</p>			
Work Order # :	1307049			

<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>
1307049-007A	MW-9	07/11/13 9:38	Water	08/26/13			W_6010B_ALL	
1307049-007B	MW-9	07/11/13 9:38	Water	08/26/13			W_8260Pet W_GCMS-GRO W_6010B_ALL	



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

CHAIN OF CUSTODY

Lab Work Order #: 1307049

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								ASAP	1 Day	2 Days	3 Days	5 Days	10 Days
Global ID: T0600100766				PO #: <u>21882</u>		8260 TPHg BTEX oxygenates Metals (Fe, Fe(II), Cr, Cr(VI), As, Se)						ground water					
Sampler: BD Date: <u>7/11/13</u>				Sample Date								Report Format				EDF	
Field Point ID	Sample ID	Sample Matrix	# of Containers	Container Type	Sample Date & Time							Remarks					
MW-2	MW-2	W	4	VOAs w/ HCl and poly	<u>7/11/13 1100</u>	✓	✓	<u>-001A/B</u>						Run to ESLs			
MW-3	MW-3	W	4	VOAs w/ HCl and poly	<u>7/11/13 1039</u>	✓	✓	<u>-002A/B</u>									
MW-4	MW-4	W	4	VOAs w/ HCl and poly	<u>7/11/13 1218</u>	✓	✓	<u>-003A/B</u>									
MW-6	MW-6	W	4	VOAs w/ HCl and poly	<u>7/11/13 1013</u>	✓	✓	<u>-004A/B</u>									
MW-7	MW-7	W	4	VOAs w/ HCl and poly	<u>7/11/13 1253</u>	✓	✓	<u>-005A/B</u>									
MW-8	MW-8	W	4	VOAs w/ HCl and poly	<u>7/11/13 1237</u>	✓	✓	<u>-006A/B</u>									
MW-9	MW-9	W	4	VOAs w/ HCl and poly	<u>7/11/13 0938</u>	✓	✓	<u>-007A/B</u>									
												<u>Temp. 6°C</u>					
Relinquished by: <u>Brian Doherty</u>				Date: <u>7/12/13</u>	Time: <u>12:12</u>	Received by: <u>First Courier</u>				Date: <u>07/12/13</u>	Time: <u>12:12</u>						
Relinquished by: <u>Joyce Bronson</u>				Date: <u>07/12/13</u>	Time: <u>13:07</u>	Received by: <u>PAPA PAPOKAS</u>				Date: <u>07/12/13</u>	Time: <u>13:07</u>						

FCS

Log-in 07/12/13



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

Work Order No.: 1308133

Dear Brian Doherty:

Torrent Laboratory, Inc. received 7 sample(s) on August 20, 2013 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

August 27, 2013

Date



Date: 8/27/2013

Client: Tec Accutite

Project: 1435 Webster

Work Order: 1308133

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.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.



Sample Result Summary

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 08/20/13

Date Reported: 08/27/13

1308133-001

MW-2

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Chromium (Dissolved)	SW6020	1	0.12	0.50	5.5	ug/L
Arsenic (Dissolved)	SW6020	1	0.11	0.30	2.3	ug/L
Iron (Dissolved)	SW6020	10	10	10	2000	ug/L
Ferrous Iron (Total)	H8146	1	0.1	0.1	0.19	mg/L

MW-3

1308133-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Iron (Dissolved)	SW6020	1	1.0	1.0	150	ug/L
Chromium (Dissolved)	SW6020	1	0.12	0.50	2.2	ug/L
Ferrous Iron (Total)	H8146	1	0.1	0.1	0.14	mg/L
Hexavalent Chromium	SW7199	1	0.42	0.50	1.7	ug/L

MW-4

1308133-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Iron (Dissolved)	SW6020	1	1.0	1.0	140	ug/L
Chromium (Dissolved)	SW6020	1	0.12	0.50	1.6	ug/L
Arsenic (Dissolved)	SW6020	1	0.11	0.30	0.34	ug/L
Hexavalent Chromium	SW7199	1	0.42	0.50	1.4	ug/L

MW-6

1308133-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Iron (Dissolved)	SW6020	1	1.0	1.0	34	ug/L
Chromium (Dissolved)	SW6020	1	0.12	0.50	0.62	ug/L



Sample Result Summary

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 08/20/13

Date Reported: 08/27/13

MW-7

1308133-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Iron (Dissolved)	SW6020	1	1.0	1.0	29	ug/L
Chromium (Dissolved)	SW6020	1	0.12	0.50	0.70	ug/L
Arsenic (Dissolved)	SW6020	1	0.11	0.30	1.8	ug/L
Hexavalent Chromium	SW7199	1	0.42	0.50	0.56	ug/L

MW-8

1308133-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic (Dissolved)	SW6020	1	0.11	0.30	6.3	ug/L
Iron (Dissolved)	SW6020	10	10	10	2800	ug/L
Ferrous Iron (Total)	H8146	1	0.1	0.1	2.2	mg/L

MW-9

1308133-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Iron (Dissolved)	SW6020	1	1.0	1.0	38	ug/L
Arsenic (Dissolved)	SW6020	1	0.11	0.30	0.34	ug/L



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 08/20/13
Date Reported: 08/27/13

Client Sample ID:	MW-2	Lab Sample ID:	1308133-001A
Project Name/Location:	1435 Webster	Sample Matrix:	Water
Project Number:	T0600100766		
Date/Time Sampled:	08/20/13 / 10:54		
Tag Number:	T0600100766		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	5.5		ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	2.3		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA
Iron (Dissolved)	SW6020	NA	08/23/13	10	10	10	2000		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	ND		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	0.19		mg/L	417062	NA



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 08/20/13
Date Reported: 08/27/13

Client Sample ID:	MW-3	Lab Sample ID:	1308133-002A
Project Name/Location:	1435 Webster	Sample Matrix:	Water
Project Number:	T0600100766		
Date/Time Sampled:	08/20/13 / 10:16		
Tag Number:	T0600100766		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron (Dissolved)	SW6020	NA	08/23/13	1	1.0	1.0	150		ug/L	417028	NA
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	2.2		ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	ND		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	1.7		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	0.14		mg/L	417062	NA



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 08/20/13
Date Reported: 08/27/13

Client Sample ID:	MW-4	Lab Sample ID:	1308133-003A
Project Name/Location:	1435 Webster	Sample Matrix:	Water
Project Number:	T0600100766		
Date/Time Sampled:	08/20/13 / 12:28		
Tag Number:	T0600100766		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron (Dissolved)	SW6020	NA	08/23/13	1	1.0	1.0	140		ug/L	417028	NA
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	1.6		ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	0.34		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	1.4		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	ND		mg/L	417062	NA



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 08/20/13
Date Reported: 08/27/13

Client Sample ID:	MW-6	Lab Sample ID:	1308133-004A
Project Name/Location:	1435 Webster	Sample Matrix:	Water
Project Number:	T0600100766		
Date/Time Sampled:	08/20/13 / 9:54		
Tag Number:	T0600100766		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron (Dissolved)	SW6020	NA	08/23/13	1	1.0	1.0	34		ug/L	417028	NA
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	0.62		ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	ND		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	ND		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	ND		mg/L	417062	NA



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 08/20/13
Date Reported: 08/27/13

Client Sample ID:	MW-7	Lab Sample ID:	1308133-005A
Project Name/Location:	1435 Webster	Sample Matrix:	Water
Project Number:	T0600100766		
Date/Time Sampled:	08/20/13 / 11:54		
Tag Number:	T0600100766		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron (Dissolved)	SW6020	NA	08/23/13	1	1.0	1.0	29		ug/L	417028	NA
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	0.70		ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	1.8		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	0.56		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	ND		mg/L	417062	NA



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 08/20/13
Date Reported: 08/27/13

Client Sample ID:	MW-8	Lab Sample ID:	1308133-006A
Project Name/Location:	1435 Webster	Sample Matrix:	Water
Project Number:	T0600100766		
Date/Time Sampled:	08/20/13 / 12:41		
Tag Number:	T0600100766		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	ND		ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	6.3		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA
Iron (Dissolved)	SW6020	NA	08/23/13	10	10	10	2800		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	ND		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	2.2		mg/L	417062	NA



SAMPLE RESULTS

Report prepared for: Brian Doherty
Tec Accutite

Date Received: 08/20/13
Date Reported: 08/27/13

Client Sample ID:	MW-9	Lab Sample ID:	1308133-007A
Project Name/Location:	1435 Webster	Sample Matrix:	Water
Project Number:	T0600100766		
Date/Time Sampled:	08/20/13 / 9:32		
Tag Number:	T0600100766		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron (Dissolved)	SW6020	NA	08/23/13	1	1.0	1.0	38		ug/L	417028	NA
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	ND		ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	0.34		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	ND		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	ND		mg/L	417062	NA



MB Summary Report

Work Order:	1308133	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW7199	Analyzed Date:	08/20/13	Analytical Batch:	417020
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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Hexavalent Chromium	0.42	0.50	ND	
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Work Order:	1308133	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW6020	Analyzed Date:	08/23/13	Analytical Batch:	417028
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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Iron (Dissolved)	1.0	1.0	ND	
Chromium (Dissolved)	0.12	0.50	ND	
Arsenic (Dissolved)	0.11	0.30	0.16	
Selenium (Dissolved)	0.083	1.0	ND	

Work Order:	1308133	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	H8146	Analyzed Date:	08/20/13	Analytical Batch:	417062
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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Ferrous Iron (Total)	0.1	0.1	0.1	
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LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1308133	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW7199	Analyzed Date:	08/20/13	Analytical Batch:	417020
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Hexavalent Chromium	0.42	0.50	ND	10	104	102	1.80	90 - 110	15	

Work Order:	1308133	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW6020	Analyzed Date:	08/23/13	Analytical Batch:	417028
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Iron (Dissolved)	1.0	1.0	ND	50	89.7	95.0	5.44	80 - 120	20	
Chromium (Dissolved)	0.12	0.50	ND	50	84.9	84.9	1.05	80 - 120	20	
Arsenic (Dissolved)	0.11	0.30	0.16	50	87.3	90.3	2.58	80 - 120	20	
Selenium (Dissolved)	0.083	1.0	ND	50	115	103	9.96	80 - 120	20	



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1308133	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW7199	Analyzed Date:	08/20/13	Analytical Batch:	417020
Spiked Sample:	1308133-002A						
Units:	ug/L						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Hexavalent Chromium	0.42	0.50	1.692	10	112	113	0.686	85 - 115	20	

Work Order:	1308133	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW6020	Analyzed Date:	08/23/13	Analytical Batch:	417028
Spiked Sample:	1308133-001A						
Units:	ug/L						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Iron (Dissolved)	1.0	1.0	1900	50	0.000	0.000	5.04	75 - 125	20	NR,S
Chromium (Dissolved)	0.12	0.50	5.5	50	92.3	93.9	0.824	75 - 125	20	
Arsenic (Dissolved)	0.11	0.30	2.3	50	78.8	79.9	0.634	75 - 125	20	
Selenium (Dissolved)	0.083	1.0	0.00	50	81.2	84.6	3.12	75 - 125	20	



Duplicate QC Summary Report

Work Order:	1308133	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	H8146	Analyzed Date:	08/20/13	Analytical Batch:	417062
Units:						Lab Sample ID:	1308133-001A-Dup

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>
Ferrous Iron (Total)	0.1	0.1	0.19	0.20	5.13

Raw values are used in quality control assessment.



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 100cm2 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
Project Name: 1435 Webster
Work Order No.: 1308133

Date and Time Received: 8/20/2013 14:30
Received By: ke
Physically Logged By: ng
Checklist Completed By: ng
Carrier Name: Client Drop Off

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: 7 °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: n/a pH Adjusted by: n/a

Samples received in a cooler with ice at 7 deg C.



Login Summary Report

Client ID: TL5132 Tec Accutite
Project Name: 1435 Webster
Project # : T0600100766
Report Due Date: 8/27/2013
Comments: Dissolved metals by ICP-MS
Work Order # : **1308133**

QC Level: II
TAT Requested: 5+ day:0
Date Received: 8/20/2013
Time Received: 14:30

<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>
1308133-001A	MW-2	08/20/13 10:54	Water	10/04/13			W_6020_D EDF W_Ferrous Iron W_7199CrVI	
Sample Note:		Dissolved metals-Fe, Cr, Se, As. Hex-Chrome, Ferrous Iron. EDF, PDF. Run to ESLs						
1308133-002A	MW-3	08/20/13 10:16	Water	10/04/13			W_6020_D W_Ferrous Iron W_7199CrVI	
1308133-003A	MW-4	08/20/13 12:28	Water	10/04/13			W_6020_D W_7199CrVI W_Ferrous Iron	
1308133-004A	MW-6	08/20/13 9:54	Water	10/04/13			W_6020_D W_Ferrous Iron W_7199CrVI	
1308133-005A	MW-7	08/20/13 11:54	Water	10/04/13			W_6020_D W_7199CrVI W_Ferrous Iron	
1308133-006A	MW-8	08/20/13 12:41	Water	10/04/13			W_6020_D W_7199CrVI W_Ferrous Iron	
1308133-007A	MW-9	08/20/13 9:32	Water	10/04/13			W_6020_D W_Ferrous Iron W_7199CrVI	

Sample Note:




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

CHAIN OF CUSTODY

Lab Work Order #: 1308133

Project Name:		Report to:		Analysis Required						Turn-around Time (work days)													
1435 Webster		Brian		6020B Dissolved Metals (including Fe, Cr, Se, As)	7196 Hex Chromium	SM3500D Ferrous Iron						ASAP	1 Day	2 Days	3 Days								
Project Address:		Bill to:										Sample Type				5 Days	10 Days	Other:					
1435 Webster St. Alameda, CA		TEC Accutite (650) 616-1200										ground water											
Global ID:		PO #:										Report Format											
T0600100766		21998										EDF, PDF											
Sampler:		Date:										Remarks											
BD		8/20/13																					
Field Point ID	Sample ID	Sample Matrix	# of Containers									Container Type	Sample Date & Time										
MW-2	MW-2	W	2									Poly and amber w/septa	8/20/13 1054	✓	✓	✓							Run to ESLs
MW-3	MW-3	W	2	Poly and amber w/septa	8/20/13 1016	✓	✓	✓															
MW-4	MW-4	W	2	Poly and amber w/septa	8/20/13 1228	✓	✓	✓															
MW-6	MW-6	W	2	Poly and amber w/septa	8/20/13 0954	✓	✓	✓															
MW-7	MW-7	W	2	Poly and amber w/septa	8/20/13 1154	✓	✓	✓															
MW-8	MW-8	W	2	Poly and amber w/septa	8/20/13 1241	✓	✓	✓															
MW-9	MW-9	W	2	Poly and amber w/septa	8/20/13 0932	✓	✓	✓							7a								
Relinquished by: Brian Doherty		Date: 8/20/13		Time: 14:30		Received by: Kathie B...		Date: 8-20-2013		Time: 1430													
Relinquished by:		Date:		Time:		Received by:		Date:		Time:													

Log in by: MF

ATTACHMENT C

GEOTRACKER SUBMISSION CONFIRMATIONS



STATE WATER RESOURCES CONTROL BOARD
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UPLOADING A EDF FILE

SUCCESS

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	THIRD QUARTER 2013 GROUNDWATER MONITORING REPORT
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600100766
<u>Facility Name:</u>	OLYMPIAN #112
<u>File Name:</u>	TEC Accutite 1307049 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>	9/5/2013 4:51:12 PM
<u>Confirmation Number:</u>	2593631803

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	THIRD QUARTER 2013 GROUNDWATER MONITORING REPORT
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600100766
<u>Facility Name:</u>	OLYMPIAN #112
<u>File Name:</u>	TEC Accutite 1308133 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>	9/5/2013 4:52:40 PM
<u>Confirmation Number:</u>	2706790983

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UPLOADING A GEO_WELL FILE

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<u>Submittal Type:</u>	GEO_WELL
<u>Report Title:</u>	THIRD QUARTER 2013 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>	9/5/2013 4:50:09 PM
<u>Confirmation Number:</u>	1446535229