

TEC Environmental

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

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www.tecenvironmental.com Contractor's Lic. #762034

December 12, 2013

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

RECEIVED

By Alameda County Environmental Health at 9:12 am, Dec 27, 2013

SUBJECT:

PERJURY STATEMENT

SITE:

FORMER OLYMPIAN SERVICE STATION

1435 WEBSTER STREET ALAMEDA, CALIFORNIA 94501

FLC#R00000193

Dear Ms. Detterman:

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

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

Responsible Party

OLYMPIAN





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

262 Michelle Court Tel: (650) 616-1200 So. San Francisco, CA 94080-6201
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December 12, 2013

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

SUBJECT: DATA GAP INVESTIGATION WORKPLAN

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. has prepared this *Data Gap Investigation Workplan* 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) 222-0890.

Sincerely,

Technology, Engineering & Construction, Inc.

2013.12.

17:38:31 -08'00

Paul B. Dotson, PG 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

DATA GAP INVESTIGATION WORK PLAN

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-608

WORK PLAN DATE:

DECEMBER 12, 2013



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- 1 VICINITY MAP
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- A SITE CONCEPTUAL MODEL
- B DATA GAP IDENTIFICATION SUMMARY AND PROPOSED INVESTIGATION



1.0 INTRODUCTION

On behalf of Olympian JV, Technology, Engineering & Construction, Inc. (TEC) has prepared this Data Gap Investigation Workplan for 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 workplan has been completed in accordance with the Alameda County Environmental Health (ACEH) directive letter dated October 10, 2013.

This document has been prepared to identify data gaps that prevent the site from meeting the State Water Resources Control Board's Low Threat Underground Storage Tank Case Closure Policy. Data gaps were identified by evaluating the current Site Conceptual Model (SCM, Attachment A). A summary of the identified data gaps is included in Attachment B. 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 chemicals of concern (COCs), 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.

hydrocarbons detected in soil.

Three monitoring wells, installed onsite (MW-4 through MW-6); petroleum



December 1999

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 futher evaluation.

June 2001 Four soil borings advanced [B-1 through B-4 (second set of B-1 through B-4)]; no

petroleum hydrocarbons detected in soil; petroleum hydrocarbons detected in

groundwater.

February 2002 Site-specific risk assessment performed; compounds of concern identified as TPHg

and benzene.

May 2003 Eight soil vapor probes advanced onsite (SV-1 through SV-7); petroleum

hydrocarbons detected below their respective Environmental Screening Levels

(ESLs).

September 2005 SCM updated; uncertainties identified in onsite benzene vapor concentrations and

offsite groundwater conditions.

June 2006 Eight soil borings advanced (SP-1 through SP-8); petroleum hydrocarbons detected

in soil above constituent ESLs.

November 2006 Seventeen soil borings advanced (CB-1 through CB-17) to determine excavation

limits; petroleum hydrocarbons detected at concentrations below ESLs and/or

laboratory detection limits at depths shallower than 8 feet bsg.

December 2006 Five soil borings advanced (DB-1 through DB-5); onsite soils classified as Class II

waste; monitoring wells MW-1 and MW-5 abandoned by pressure grouting.

February 2007 Interim remedial action conducted; 992.54 tons of soil excavated from site; 15,000

gallons of groundwater pumped from open excavation pit, sediment removed and

carbon-filtered, and discharged to sewer under permit.

March 2007 Two monitoring wells installed onsite (MW-7 and MW-8).

July 2007 Thirteen off-site soil borings advanced (B-6 through B-18); off-site plume defined in

all directions except crossgradient to the northeast.

July 2007 Thirteen off-site soil borings advanced (B-6 through B-18); off-site plume defined in

all directions except crossgradient to the northeast.

July 2009 Six off-site soil borings advanced (B-19 through B-24); off-site plume fully defined.

One groundwater monitoring well (MW-9) installed in the public right-of-way on Webster Street. Five permanent nested vapor monitoring points installed onsite; no

petroleum hydrocarbons detected in onsite soil vapor.

February 2010 Updated Site Conceptual Model, Health Risk Assessment, Feasibility Study and

Corrective Action Plan submitted to the Alameda County Health Agency. Hydrogen

peroxide injection identified as the most effective remedial alternative.

March 2011 Corrective Action Plan Addendum submitted to the Alameda County Health Agency.

April 2011 Baseline sampling for chromium, hexavalent chromium and other metals completed

onsite. Total chromium was detected in wells MW-3, MW-4, MW-6 and MW-7. Chromium was detected at low levels in the hexavalent (oxidized) state in wells MW-

3 and MW-4.



September -

December 2011

Injection Pilot Test completed. 1,078 gallons of 7% hydrogen peroxide solution injected at three target remediation areas onsite.

3.2 Site Condition

The site currently has seven groundwater monitoring wells (MW-2 through MW-4 and MW-6 through MW-9) and five dual-completed vapor monitoring points (VMP-1 through VMP-5). Locations of site monitoring wells are presented in Figure 2. 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. With the exception of the first semester of 2013, all active groundwater monitoring wells associated with the site have been monitored on a semi-annual basis.

Historical soil analytical data, groundwater elevation data, groundwater monitoring analytical data, grab groundwater analytical data and soil vapor analytical data are summarized in Tables 1 through 5, respectively.

4.0 SCOPE OF WORK

In order to meet requirements of the LTCP, TEC proposes to complete the Data Gap Items described in Attachment B. Procedures for completing these tasks are described below.

4.1 PROCEDURES

TEC will advance seven soil borings (B-for collection of grab groundwater and/or soil samples. Proposed boring locations are shown on Figure 2.

4.1.1 Pre-Field Activities

TEC will complete the following tasks prior to field mobilization:

- As required by the Occupational Health and Safety Administration (OSHA), and by the California OSHA, TEC will prepare a site-specific Health and Safety Plan prior to the commencement of fieldwork. The plan will be reviewed and signed by field staff and contractors before beginning field operations, and will be in the possession of TEC personnel while conducting activities at the site.
- TEC will obtain a drilling permit from the Alameda County Public Works Agency (ACPWA) prior to commencing fieldwork (Attachment D).
- More than 48 hours prior to the initiation of fieldwork, TEC personnel will mark the soil boring locations with white paint and contacted Underground Service Alert of Northern California (USA).
 Additionally, a private subsurface utility locator will complete a survey of the proposed soil boring locations to identify any subsurface utilities and obstructions.

4.2.2 Soil Boring and Sampling

Prior to drilling, all borings will be cleared to 5 ft bsg using a hand auger. After clearing, each boring will be advanced to a total depth of at least 14 ft bsg using a direct push technology (DPT) drill rig equipped with Macrocore (or similar) rods lined with acetate sleeves. Soil cores will be collected from each boring



in the acetate sleeves. The lithology of each boring will be viewed continuously and logged in accordance with the Unified Soil Classification System. Soil samples will be collected from target depths by cutting an approximately 6-inch length of the acetate sleeve, capping each end, properly labeling the sample and placing it in an ice chest with ice. Splits of each soil sample will be screened for volatile organic compounds (VOCs) by sealing the soil within a plastic bag, placing the bag in a warm location allowing volatiles to accumulate in the bag headspace, and screening the headspace for VOCs using a calibrated PID. For borings advanced to collect soil samples, samples from each boring will submitted for laboratory analysis based on PID results and field observations. Observations (unusual odor or staining), sample IDs and PID readings will be recorded on the boring logs.

After reaching total boring depth, the drill rods will be extracted approximately 5 feet to allow groundwater to enter the boring and a temporary ¾-inch diameter PVC casing will be installed for grab groundwater collection. Grab groundwater samples will be collected from the temporary PVC casing using a properly decontamined steel bailer or new, disposable plastic bailers and transferred to laboratory prepared and supplied sample containers, which will be stored in an insulated container with ice pending shipment to a California State-certified laboratory for analysis.

All grab groundwater and selected soil samples will be submitted for laboratory analysis under chain-of-custody documentation and analyzed for TPHg, BTEX compounds, and fuel oxygenates by EPA Method 8260B. Soil samples collected from boring B-28, to be located at the former waste oil UST, will also be analyzed for TPH quantified as diesel and TPH quanified as motor oil by EPA method 8015M, semi-volatile organic compounds by EPA Method 8270 and RCRA 7 Metals, including arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver by EPA Methods 6020/200.7.

All non-disposable sampling materials, including drill rods and steel bailer, will be cleaned using a phosphate-free detergent and triple rinsed with potable water. Disposable sampling materials, including acetate liners and temporary casings, will be used for each boring. Borings will be backfilled following sample collection in accordance with California and County of Alameda regulations

4.2 Electronic Laboratory Data Submittal

All report documents and data, including boring logs, an updated site map, well data, and laboratory analytical reports, will be submitted in electronic format to GeoTracker, the California online geospatial database. This workplan will be converted to PDF format and submitted as a GEO_REPORT file.



5.0 **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.

SSIONAL GEOL

DOTSON No. 8237

Sincerely,

Technology, Engineering & Construction, Inc.

Reviewed by:

Paul B. Dotson, PG #8237 Professional Geologist

TABLES



Table 1
Summary of Historical Soil Analytical Data
Former Olympian Service Station
1435 Webster Avenue Alameda, California

Field	D-4-	Depth	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Pb
Point ID	Date	(ft bsg)					milligrams per k			
				(Southwest C	orner				
					1993					
MW-2	6/12/1993	?	ND	ND	ND	ND	ND	ND	NA	NA
MW-3	6/12/1993	?	ND	ND	ND	ND	ND	ND	NA	NA
			>	1	ilanthuraat C					
					Northwest C 1999	orner				
MW-6	11/10/1999	9	<0.5	<1.0	<0.005	<0.005	<0.005	<0.010	<0.005	10003-001
IVIVV-O	11/10/1999	9	NU. 3	\1.0	2001	NO.003	\0.005	\0.010	<u> </u>	1200
B4	6/27/2001	9	<0.5		<0.005	<0.005	<0.005	<0.01	<0.005	
	0/2//2001	.		3234 200 9ki 5	100000000000000000000000000000000000000	50.000000000000000000000000000000000000		.0.01		526.17520
			- 1	Vestern B	oundary of	2007 Exca	vation			
			2		2006					
CB-14	11/15/2006	8	<0.5	<2.5	<0.01	<0.01	<0.01	<0.01	<0.05	7 50070 6
CB-14	11/15/2006	12	1.0	<2.5	<0.01	<0.01	<0.01	<0.01	<0.05	1244
CB-16	11/15/2006	8	<0.5	<2.5	<0.01	<0.01	<0.01	<0.01	<0.05	. 3
CB-17	11/15/2006	8	<0.5	<2.5	<0.01	<0.01	<0.01	<0.01	<0.05	: 55.7 8
CB-17	11/15/2006	12	10,000	<50	1 <20	170	120	640	<100	1 <u>-1-1-1</u>
	10///0011				2011	0.040	10.010	.0.045		
I-A3	10/4/2011	9	<0.1	(******	<0.010	<0.010	<0.010	< 0.015	<0.010	(222)
A-1	12/6/2011	9	<0.1	()	<0.010	<0.010	<0.010	<0.015	<0.010	
				Eastern Bo	oundary of 2	2007 Exca	vation			
			ı.		2006					
CB-10	11/15/2006	8	2.2	<2.5	¹ <0.01	<0.01	0.012	<0.01	<0.05	(****)
CB-10	11/15/2006	12	2,800	<12	1 <10	34	45	200	<50	1555
CB-11	11/15/2006	8	0.53	<2.5	<0.01	<0.01	<0.01	<0.01	<0.05	12020
CB-11	11/15/2006	12	300	<62	1 <2.0	3.8	4.8	25	<10	19
CB-12	11/15/2006	8	<0.5	<2.5	<0.01	<0.01	<0.01	<0.01	<0.05	7 50070 0
CB-12	11/15/2006	12	<0.50	<2.5	<0.01	<0.01	<0.01	<0.01	<0.05	
154	40/4/0044	•	470	5	2011		0.0	0.4		
I-B1	10/4/2011	9	170		<1	<1	2.3	3.1	<1	11
A-2	12/6/2011	9	49	5	<0.05	<0.05	<0.05	<0.075	< 0.05	
I-B6	10/4/2011	9	150	2,3	<1	<1 <0.05	2.3	7.4	<1 <0.05	1500
A-3	12/6/2011	9	12	1022 Y all i	<0.05	<0.05	0.13	0.43	<0.05	
					Southeast C	orner				
9937 76		de .	7 220 sa		2001					
B1	6/27/2001	9	<0.5	10.000000000000000000000000000000000000	<0.005	<0.005	<0.005	<0.01	<0.005	1 <u>722</u> 29
		1200	í sa s		2007		14/4/20	0200000		
MW-8	3/9/2007	10	<0.1	<2.5	<.005	<.005	<.005	<.010	<.005	/ <u>2012</u> /
1.01	40(4(2044	0	-04		2011	<0.0d	-0.01	<0.01E	<0.04	V TORONO IN
I-C1	10/4/2011	9 9	<0.1 <0.1	W===0	<0.01 <0.01	<0.01	<0.01	<0.015	<0.01	
A-4	12/6/2011	9	<u> </u>	(<0.01	<0.01	<0.01	<0.015	<0.01	1 1



Table 1
Summary of Historical Soil Analytical Data
Former Olympian Service Station
1435 Webster Avenue Alameda, California

Field	will act of the	Depth	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Pb
Point ID	Date	(ft bsg)	iring	IIIIu			milligrams per k		MIIDE	10
		(3)		Offsi	te - East and					
				576 5576 6576	1999		ode MI			
B1	2/11/1999	7.5	0.65	<1.0	<0.005	<0.005	< 0.005	<0.010	< 0.005	<1.0
B2	2/11/1999	7.5	<0.5	<1.0	<0.005	<0.005	<0.005	<0.010	<0.005	2.0
В3	2/11/1999	6	<0.5	<1.0	<0.005	<0.005	<0.005	<0.010	<0.005	1.2
В4	2/11/1999	7.5	<0.5	<1.0	<0.005	<0.005	< 0.005	<0.010	<0.005	1.2
MW-4	11/11/1999	9.5	<0.5	<1.0	<0.005	< 0.005	< 0.005	<0.010	< 0.005	-
			•		2001					
B2	6/27/2001	9	<0.5	()	< 0.005	<0.005	< 0.005	< 0.01	< 0.005	
the Park I have					2007					
B-6	7/11/2007	8	0.196	3	<0.05	<0.05	<0.05	<0.05	< 0.01	54 24 (S-40)
B-6	7/11/2007	11	11.2	5	<0.05	<0.05	<0.05	<0.05	<0.01	()
B-7	7/11/2007	6	<0.1		<0.05	<0.05	<0.05	<0.05	<0.01	
B-7	7/11/2007	8	<0.1		<0.05	<0.05	<0.05	<0.05	< 0.01	1200
B-8	7/11/2007	6	<0.1	() 	<0.05	<0.05	<0.05	<0.05	<0.01	
B-8	7/11/2007	8	<0.1		<0.05	<0.05	<0.05	<0.05	< 0.01	
B-9	7/11/2007	8	<0.1	** <u></u> *	<0.05	<0.05	<0.05	<0.05	<0.01	(<u></u>)
B-9	7/11/2007	11	<0.1	(1000)	<0.05	<0.05	<0.05	<0.05	<0.01	()
B-10	7/11/2007	8	<0.1		<0.05	<0.05	<0.05	<0.05	< 0.01	
B-10	7/11/2007	11	<0.1	7-2-2	<0.05	<0.05	<0.05	<0.05	<0.01	1222
B-11	7/11/2007	8	<0.1		<0.05	<0.05	<0.05	<0.05	<0.01	
B-11	7/11/2007	11	<0.1		<0.05	<0.05	<0.05	<0.05	<0.01	
B-12	7/11/2007	10	<0.1	(* <u>-2-2-</u>)	<0.05	<0.05	<0.05	<0.05	<0.01	\$ <u>=2000_</u> 80
B-12	7/11/2007	12	<0.1	S 	<0.05	<0.05	<0.05	<0.05	<0.01	()
B-13	7/10/2007	10	<0.1		<0.05	<0.05	<0.05	<0.05	<0.01	
B-13	7/10/2007	12	<0.1	(** <u>********</u> *)	<0.05	<0.05	<0.05	<0.05	<0.01	04.24 (9-40)
B-14	7/10/2007	8	<0.1	(1000)	<0.05	<0.05	<0.05	<0.05	<0.01	
B-14	7/10/2007	10	<0.1		<0.05	<0.05	<0.05	<0.05	<0.01	
B-17	7/10/2007	8	<0.1	W400	<0.05	<0.05	<0.05	<0.05	<0.01	(<u>********</u> **)
B-17	7/10/2007	10	<0.1	1.000	<0.05	<0.05	<0.05	<0.05	<0.01	
B-18	7/10/2007	10	<0.1	-	<0.05	<0.05	<0.05	<0.05	<0.01	-
B-18	7/10/2007	12	<0.1	(** <u>*******</u> **)	<0.05	<0.05	<0.05	<0.05	<0.01	3 244 9
2 12		<u>2</u> .	î¥		2009	2010	12 200	2 2 12		
B-19	7/7/2009	8	<1		<0.01	<0.01	<0.01	<0.015	<0.01	
B-19	7/7/2009	12	<1	(* <u>-20-2</u>)	<0.01	<0.01	<0.01	<0.015	<0.01	(<u>China</u> ()
B-20	7/7/2009	6	<1	(1 000)	<0.01	<0.01	<0.01	<0.015	<0.01	(*****)
B-21	7/7/2009	6	<1		<0.01	<0.01	<0.01	<0.015	<0.01	
B-21	7/7/2009	11	<1	(* <u>-9-11-1</u>)	<0.01	<0.01	<0.01	<0.015	<0.01	12221
B-22	7/7/2009	8	<1	2. 000 3	<0.01	<0.01	<0.01	<0.015	<0.01	
B-22	7/7/2009	14	<1		<0.01	<0.01	<0.01	<0.015	<0.01	
B-23	7/7/2009	8	<1	(Y <u>-2-2-1)</u>	<0.01	<0.01	<0.01	<0.015	< 0.01	(<u></u>
B-23	7/7/2009	14	<1	() (<0.01	<0.01	<0.01	<0.015	< 0.01	1
B-24	7/7/2009	8	<1	-	<0.01	<0.01	<0.01	<0.015	< 0.01	
B-24	7/7/2009	14	<1		<0.01	<0.01	<0.01	<0.015	<0.01	1 <u>222</u> 1
MW-9 MW-9	7/13/2009 7/13/2009	8 20*	<0.1 <0.1	0 3	<0.01 <0.011	<0.01 <0.011	<0.01 <0.011	<0.015 <0.017	<0.01 <0.011	1 1
IVIVV-9	111312008	20	>0.1	200	>0.011	~ 0.011	~ 0.011	<u></u> ~0.017	> 0.011	5000



Table 1 Summary of Historical Soil Analytical Data

Former Olympian Service Station 1435 Webster Avenue Alameda, California

Field	Date	Depth	TPHg		TPHd		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Pb
Point ID	Date	(ft bsg)					Concent	rations in I	milligrams per ki	ilogram		
			16.5		Remo	ove	d During I	Excavatio	n			
MW-1	6/12/1993	?	ND		ND		ND	ND	ND	ND	NA	NA
MW-5	11/10/1999	9.5	1,100		200		3.4	21	14	70	<0.005	
В3	6/27/2001	9	<0.5				<0.005	<0.005	< 0.005	< 0.01	<0.005	
SP-1	6/12/2006	7.5	1,600	2	9.5	4	0.44	5	38	190	<4	8 200 8
SP-1	6/12/2006	10	1,530		12	4	3.5 ^J	23	28	150	<4	
SP-2	6/12/2006	7	586	3	8.8	4	0.033	<1	3.1	13	<2	-
SP-2	6/12/2006	10	360	3	8.8	4	0.4	0.58 ^J	4.9	23	<2	1
SP-3	6/12/2006	8	114	3	2.4	4	<1	2.2	1.7 ^J	9.4	<2	
SP-3	6/12/2006	10	96.3	3	5.5	4	0.46	1.4 ^J	1.2 ^J	7	<2	
SP-4	6/12/2006	4	0.0308		<2		<0.01	0.01	0.01	0.051	<0.01	1202
SP-4	6/12/2006	7.5	1,240		29	4	0.72	2	12	61	<4	()
SP-4	6/12/2006	10	1,410		150	4	6.30	45	18	93	<4	
SP-5	6/12/2006	7	758	2	42	4	0.24	1.7 ^J	4	35	<4	1 <u>240</u> 1
SP-5	6/12/2006	10	1,100	2	68	4	0.39	16	23	140	<4	
SP-6	6/12/2006	7	5.83	3	64	4	0.019 ^J	0.037	0.48	0.71	<0.025	
SP-6	6/12/2006	10	2.78	3	3.8	4	< 0.02	0.0066	0.027	0.053	<0.02	\$1 <u>0.000</u> 5;
SP-7	6/12/2006	7.5	1,100	3	200	4	0.032	0.027	0.066	0.29	<0.02	
SP-7	6/12/2006	10	328	3	8.5	4	0.019 ^J	2.1 ^J	3.3 ^J	18	<4	
SP-8	6/12/2006	7	3,430		270	4	0.21	4.8 ^J	40	160	<20	1 <u>220</u> 1
SP-8	6/12/2006	10	1,350		160	4	<10	20	31	160	<20	
CB-2	11/15/2006	6	<0.5		<2.5	1	< 0.01	<0.01	<0.01	< 0.01	< 0.05	
CB-2	11/15/2006	10	8,800		<120	1	<20	190	92	490	<100	\$1 <u>0.000</u> 50
CB-4	11/15/2006	8	<0.5		<2.5		<0.01	<0.01	<0.01	<0.01	<0.05	
CB-4	11/15/2006	12	2,100		<120	1	<5.0	14	21	52	<25	
CB-5	11/15/2006	8	<0.5		<2.5		<0.01	<0.01	<0.01	<0.01	<0.05	1222
CB-5	11/15/2006	12	0.7		<2.5	1	<0.01	<0.01	0.013	0.067	<0.05	
CB-6	11/15/2006	8	<0.5		<2.5		<0.01	<0.01	<0.01	< 0.01	<0.05	
CB-6	11/15/2006	12	8,000		<12	1	57	190	94	500	<50	1222
CB-7	11/15/2006	12			3. 3		((()(()	11
CB-8	11/15/2006	8	<0.5		<2.5		<0.01	<0.01	<0.01	< 0.01	<0.05	
CB-8	11/15/2006	10	1,800		<5.0	1	<5.0	<5.0	26	150	<25	4.8
CB-9	11/15/2006	8	<0.5		<2.5		<0.01	<0.01	<0.01	< 0.01	<0.05	
CB-9	11/15/2006	10	<0.5		<2.5		<0.01	<0.01	<0.01	< 0.01	<0.05	

Notes:

--- = Not Analyzed ? = Depth unknown

ND = No Detection at or above laboratory reporting limits

TPHg = Total petroleum hydrocarbons as gasoline, EPA Method 8015; 2009 samples by EPA Method 8260.

TPHd = Total petroleum hydrocarbons as diesel, EPA Method 8015.

Benzene, Ethylbenzene, Toluene, Xylenes, EPA Method 8020; 2009 and later samples by EPA Method 8260.

MTBE = Methyl tert-butyl ether, EPA Method 8020; 2009 samples by EPA Method 8260.

Pb = Lead, Method 7420

- * = dry weight analysis.
- ¹ No diesel pattern present.
- ² Hydrocarbons responded in gasoline range, but pattem does not match typical gasoline (possibly aged gasoline).
- Hydrocarbons responded in gasoline range, but pattern does not match typical gasoline (heavy end).
- ⁴ Sample chromatogram does not resemble typical diesel pattem. Unidentified lighter end hydrocarbons within the diesel range quantitated as diesel.
- ⁵ Hydrocarbons responded in gasoline range, but pattem does not match typical gasoline (includes non-target compounds).
- Value should be considered estimated.



(ft) (ft) (ft) (ft) (ft) (ft) (ft) (ft)	ation
MW.1 19.53 6/3/1993 (1)	
9/14/1994 11.46 8.1 12/30/1994 9.22 10 3/26/1995 6.76 12 7/9/1995 8.92 10 7/31/1998 8.30 11 2/11/1999 7.91 11	
12/30/1994 9.22 10 3/26/1995 6.76 12 7/9/1995 8.92 10 7/31/1998 8.30 11 2/11/1999 7.91 11	
3/26/1995 6.76 12 7/9/1995 8.92 10 7/31/1998 8.30 11 2/11/1999 7.91 11	.31
7/31/1998 8.30 11 2/11/1999 7.91 11	.77
2/11/1999 7.91 11	
	.23
	.62
6/23/1999 9.03 10	.50
25 25 25 25 25 25 25 25 25 25 25 25 25 2	67
	.60
\$50 DECEMBER 100 PER	.80
	35
	.29
	80
	47
	.42
	.84
	28
	.44
	.13
	.25 86
Abandoned 12/27/2006	
MW-2 19.80 6/3/1993 9.54 10	.26
	.26 98
	.34
	.98
	.58
1 33 34 34 34 35 35 35 37 37 37 37 37 37 37 37 37 37 37 37 37	.24
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.68
	.47
12/6/1999 11.20 8.0	60
3/16/2000 6.88 12	.92
6/13/2000 8.99 10	.81
9/29/2000 10.40 9.4	40
3/22/2001 8.46 11	.34
	69
	40
	.52
7/7/2005 8.99 10	.81
10/19/2005 10.63 9.	
1/13/2006 7.15 12	
1/13/2006 7.15 12 5/5/2006 6.43 13	
1/13/2006 7.15 12 5/5/2006 6.43 13 7/19/2006 8.57 11	
1/13/2006 7.15 12 5/5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9.1	75
1/13/2006 7.15 12 5.5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10	75 .97
1/13/2006 7.15 12 5.6/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9.3 3/29/2007 8.83 10 6/27/2007 9.86 9.3	75 .97 94
1/13/2006 7.15 12 5.5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9.1 3/29/2007 8.83 10 6/27/2007 9.86 9.1 9/19/2007 10.89 8.3	75 .97 94 91
1/13/2006 7.15 12 5/5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10 6/27/2007 9.86 9. 9/19/2007 10.89 8. 12/19/2007 10.78 9.1	75 .97 94 91 02
1/13/2006 7.15 12 5.5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10 6/27/2007 9.86 9. 9/19/2007 10.89 8. 12/19/2007 10.78 3. 3.6/2008 8.48 11	75 .97 94 91 02 .32
1/13/2006 7.15 12 5.5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10 6/27/2007 9.86 9. 9/19/2007 10.89 8. 12/19/2007 10.78 9.1 3/6/2008 8.48 11 6/18/2008 10.23 9.3	75 .97 94 91 02 .32
1/13/2006 7.15 12 5.6/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9.3 3/29/2007 8.83 10 6/27/2007 9.86 9.1 9/19/2007 10.89 8.1 12/19/2007 10.78 9.1 3.6/2008 8.48 11 6/18/2008 10.23 9.9 9/10/2008 11.36 8.	75 .97 94 91 02 .32 57
1/13/2006 7.15 12 5/5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10 6/27/2007 9.86 9. 9/19/2007 10.89 9. 12/19/2007 10.78 9.1 3/6/2008 8.48 11 6/18/2008 10.23 9. 9/10/2008 11.36 8. 12/10/2008 11.36 8.	75 .97 94 91 02 .32 57 44
1/13/2006 7.15 12 5.5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10 6/27/2007 9.86 9. 9/19/2007 10.89 8.3 12/19/2007 10.78 9. 3.6/2008 8.48 11 6/18/2008 10.23 9. 9/10/2008 11.36 8. 12/10/2008 11.36 7. 3.44/2009 8.68 11	75 97 94 91 02 32 57 44 91
1/13/2006 7.15 12 5.5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10 6/27/2007 9.86 9. 9/19/2007 10.89 8. 12/19/2007 10.78 9.1 12/19/2008 8.48 11 6/18/2008 10.23 9. 9/10/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2008 11.89 7.3 3/4/2009 8.68 11 6/3/2009 9.91 9.3	75 94 91 02 32 57 44 91 .12
1/13/2006 7.15 12 5.5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9.3 3/29/2007 8.83 10 6/27/2007 9.86 9.3 9/19/2007 10.89 8.3 12/19/2007 10.78 9.1 3.6/2008 8.48 11 6/18/2008 10.23 9.3 9/10/2008 11.36 8.4 12/10/2008 11.36 8.4 12/10/2008 11.36 9.3 3/4/2009 8.68 11 6/3/2009 9.91 9.3 8/27/2009 11.16 8.1	75 97 94 91 02 32 57 44 91 .12 89 64
1/13/2006 7.15 12 5:5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10 6/27/2007 9.86 9. 9/19/2007 10.89 8. 12/19/2007 10.78 9. 3/6/2008 8.48 11 6/18/2008 10.23 9. 9/10/2008 11.36 12/10/2008 11.36 12/10/2008 11.89 7. 3/4/2009 8.68 11 6/3/2009 9.91 9.1 8/27/2009 11.16 8.1 12/10/2009 11.32 8.	75 97 94 91 02 .32 57 44 91 .12 89 64
1/13/2006 7.15 12 5.5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10 6/27/2007 9.86 9. 9/19/2007 10.89 8. 12/19/2007 10.78 9. 3.6/2008 8.48 11 6/18/2008 10.23 9. 9/10/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2008 11.16 8. 12/10/2008 11.16 8. 12/10/2009 11.16 9. 8/27/2009 11.16 8. 12/10/2009 11.16 8. 12/10/2009 11.16 8. 12/10/2009 11.32 8. 3/10/2010 7.99 11	75 97 94 91 02 32 57 44 91 .12 89 64 48 .81
1/13/2006 7.15 12 5.5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10 6/27/2007 9.86 9.9 9/19/2007 10.89 8.1 12/19/2007 10.78 9.1 3/6/2008 8.48 11 6/18/2008 10.23 9.9 9/10/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2009 11.36 8. 12/10/2009 11.30 8. 3/10/2010 7.99 11 6/10/2010 9.13 10	75 97 94 91 02 .32 57 44 91 .12 89 64 48 .81
1/13/2006 7.15 12 5.5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 3/29/2007 8.83 10 6/27/2007 9.86 9.1 9/19/2007 10.89 8.1 12/19/2007 10.78 9.1 3/6/2008 8.48 11 6/18/2008 10.23 9.3 9/10/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2009 11.16 8. 12/10/2009 11.16 8. 12/10/2009 11.16 8. 12/10/2009 11.32 8. 3/10/2010 7.99 11 6/10/2010 7.99 11 6/10/2010 9.13 10 9/22/2010 10.95 8.1	75 .97 .94 .91 .02 .32 .57 .44 .91 .12 .89 .64 .81 .67
1/13/2006 7.15 12 5:5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10 6/27/2007 9.86 9. 9/19/2007 10.89 8. 12/19/2007 10.78 9. 3/6/2008 10.23 9. 9/10/2008 10.23 9. 9/10/2008 11.36 8. 12/10/2008 11.36 7. 3/4/2009 8.68 11 6/3/2009 9.91 9.1 8/27/2009 11.16 12/10/2009 11.32 8. 3/10/2010 7.99 11 6/10/2010 9.13 10 9/22/2010 10.95 8.1 4/19/2011 7.43 12	75 .97 .94 .91 .02 .32 .57 .44 .91 .12 .89 .64 .81 .67 .85
1/13/2006 7.15 12 5.5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10 6/27/2007 9.86 9.9 9/19/2007 10.89 8.1 12/19/2007 10.78 9.1 12/19/2007 10.78 9.9 3.6/2008 8.48 11 6/18/2008 10.23 9.9 9/10/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2008 11.16 8. 12/10/2009 11.16 8. 12/10/2009 9.91 9.1 6/10/2010 7.99 11 6/10/2010 9.13 10 9/22/2010 10.95 8. 4/19/2011 7.43 12 9/30/2011 7.43 12	75 .97 94 91 02 .32 57 44 91 .12 89 64 48 .67 85 .37
1/13/2006 7.15 12 5.5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10 6/27/2007 9.86 9.9 9/19/2007 10.89 8.1 12/19/2007 10.78 9.1 3.6/2008 10.23 9.9 3.6/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2009 11.32 8.3 3/10/2010 9.91 9.1 6/10/2010 9.13 10 9/22/2010 10.95 8.3 4/19/2011 7.43 12 9/30/2011 10.54 9.3 12/6/2011 10.79 9.1	75 .97 .94 .91 .02 .32 .57 .44 .91 .12 .89 .64 .81 .67 .85
1/13/2006 7.15 12 5/5/2006 6.43 13 7/19/2006 8.57 11 10/5/2006 10.05 9. 3/29/2007 8.83 10 6/27/2007 9.86 9. 9/19/2007 10.89 9. 12/19/2007 10.78 9.1 12/19/2007 10.78 9.1 3/6/2008 8.48 11 6/18/2008 10.23 9. 9/10/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2008 11.36 8. 12/10/2008 11.39 7.3 3/4/2009 9.91 9.1 8/27/2009 11.16 8.1 12/10/2009 11.32 8. 3/10/2010 7.99 11 6/10/2010 9.13 10 9/22/2010 10.95 8.3 4/19/2011 7.43 12 9/30/2011 10.54 9.3 12/6/2011 10.79 9.1 9/5/2012 10.75 9.1	75 .97 .97 .94 .91 .02 .32 .32 .57 .44 .91 .12 .89 .64 .81 .87 .85 .87 .85



Well ID	TOC Elevation	Sample Date	Depth to Water	Groundwater Elevation
MW.3	(ft) 19.79	6/3/1993	(ft) 9.80	(ft) 9.99
NIMIAA-2	15.75	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 3/16/2000	11.12 6.48	8.67 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 7/7/2005	8.01 8.84	11.78 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 9/19/2007	9.82 10.88	9.97 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 8/27/2009	9.81 11.18	9.98 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 9/5/2012	10.78 10.82	9.01 8.97
		7/11/2013	10.60	9.19
MW4	19.30	12/6/1999	10.79	8.51
		3/16/2000	6.86	12.44
		6/13/2000 9/29/2000	8.18 10.11	11.12 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 5/5/2006	(1)	(1)
		5/5/2006 7/19/2006	(1) 8.38	(1) 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 9/10/2008	9.80 10.89	9.50 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 4/19/2011	10.52 7.43	8.78 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



Well ID	TOC Elevation (ft)	Sample Date	Depth to Water (ft)	Groundwater Elevation (ft)
MW-5	18.99	12/6/1999 3/16/2000 6/13/2000 9/29/2000 3/22/2001 6/25/2001 9/28/2001 12/26/2001 8/24/2005 10/19/2005 1/13/2006 5/5/2006 10/5/2006	10.17 6 28 7.95 9.54 7.48 9.05 10.39 7.28 7.87 9.51 6.35 5.64 7.41 8.89	8.82 12.71 11.04 9.45 11.51 9.94 8.60 11.71 11.12 9.48 12.64 13.35 11.58 10.10
		Aba	ndoned 12/27.	/2006
MW-6	20.27	12/6/1999 3/16/2000 6/13/2000 6/13/2000 9/29/2000 3/22/2001 6/25/2001 12/26/2001 12/26/2001 12/26/2006 10/5/2006 10/5/2006 10/5/2006 10/5/2006 10/5/2007 6/27/2007 9/19/2007 12/19/2007 12/19/2007 13/10/2008 12/10/2008 12/10/2008 12/10/2009 12/10/2009 12/10/2009 12/10/2009 12/10/2009 12/10/2009 12/10/2010 6/10/2010 9/22/2010 4/19/2011 9/30/2011 12/6/2011 9/5/2012 7/11/2013	11.46 8.32 9.14 10.81 8.64 10.39 11.70 8.40 9.10 10.88 7.33 6.53 8.64 10.29 9.01 10.14 11.17 10.99 8.65 10.46 11.64 12.18 8.86 10.07 11.45 11.61 8.19 9.30 11.28 7.59 10.81 11.13 11.10 10.83	8.81 11.95 11.13 9.46 11.63 9.88 8.57 11.87 11.17 9.39 12.94 13.74 11.63 9.98 11.26 10.13 9.10 9.28 11.62 9.81 8.63 8.09 11.41 10.20 8.82 8.66 12.08 10.97 8.99 12.68 9.94 9.94 9.14 9.17 9.44
MW-7	18.93	3/29/2007 6/27/2007 9/19/2007 12/19/2007 3/6/2008 6/18/2008 12/10/2008 3/4/2009 6/3/2009 12/10/2009 12/10/2009 3/10/2010 6/10/2010 9/22/2010 4/19/2011 9/30/2011 12/6/2011 9/5/2012 7/11/2013	7.90 887 9.88 9.72 7.52 9.13 10.29 10.81 7.89 8.70 10.05 10.21 7.16 8.58 9.89 6.58 9.48 9.68 9.68	11.03 10.06 9.05 9.21 11.41 9.80 8.64 8.12 11.04 10.23 8.88 8.72 11.77 10.35 9.04 12.35 9.25 9.25 9.61



Columbia	Elevation (ft) 10.93 10.00 9.02 9.10 10.19 9.59 8.57 8.02 10.74 9.82
MW-8 19.33 3/29/2007 8.40 6/27/2007 9.33 9/19/2007 10.31 12/19/2007 10.23 3.6/2008 9.14 6/18/2008 9.74 9/10/2008 10.76	10.00 9.02 9.10 10.19 9.59 8.57 8.02 10.74 9.82
9/19/2007 10.31 12/19/2007 10.23 3/6/2008 9.14 6/18/2008 9.74 9/10/2008 10.76	9.02 9.10 10.19 9.59 8.57 8.02 10.74 9.82
12/19/2007 10.23 3.6/2008 9.14 6/18/2008 9.74 9/10/2008 10.76	9.10 10.19 9.59 8.57 8.02 10.74 9.82
3,6/2008 9.14 6/18/2008 9.74 9/10/2008 10.76	10.19 9.59 8.57 8.02 10.74 9.82
6/18/2008 9.74 9/10/2008 10.76	9.59 8.57 8.02 10.74 9.82
9/10/2008 10.76	8.57 8.02 10.74 9.82
	8.02 10.74 9.82
12407000 1121	10.74 9.82
	9.82
3/4/2009 8.59	100000000
6/3/2009 9.51	
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 <i>/</i> 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 <i>/</i> 5/2012 9.60	9.23
7/11/2013 9.35	9.48

Notes:

TOC = Top of Casing

= Feet
--- = N of Available
(1) = Well not accessible due to obstruction by a parked oar



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

Well ID	Sample	TPHd	TP Hg	B Concentratio	T	E DOE	X Dec (ug/L)	MTBE	TRPH	DIPE	TBA	1,2-DCA
ES MW-1	Date 22 8/3/1993	100	100	1.0	40	ograms per 30	20 20	5.0	360	***	12	0.5
M VV-1	9/14/1994	<50	14,000	44	28	25	50		800	770	-	
	12/30/1994 3/26/1995	<50 <50	4,000 1,000	12 21	9 10	6.8 7.1	30 25	(40)	<500 2,100	2228		2000
	7/9/1995 7/31/1998	<50 1,700	16,000 4,700	57 1,300	28 48	25 140	53 150	6,600	 <5000			
	2/11/1999	2000	25,000	18,000	1,600	1,400	500	28,000				
	6/23/1999 12/6/1999	4,900 4,000	42,000 44,000	11,000 8,900	1,100 3,400	1,500 1,900	2,300 5,100	15,000 11,000	. 8			
	3/16/2000 6/13/2000	700 2,800	5,100 17,000	2,400 5,300	100 260	280 720	460 790	7,000				
	9/29/2000	5,200 1,500	50,000 8,600	11,000 2,600	2,900 750	1,900 250	4,600 950	7,200 ² 3,200 ²		222		
	6/25/2001 9/28/2001	1000	18,000 48,000	1200 5200	1,800 6,100	970 2,200	3 200 8 100	1,500 ² 4,000				5227
	12/26/2001		524	216	1.2	8.6	7.4	721	2			
	7/7/2005 10/19/2005		1,500 11,000	190 2,100	15 45	36 370	29 82	1,100 4,600	=	<20 <250	<500	50 200
	1/13/2006 5/5/2006		5,400 <25	680 2	37 <0.5	83 <0.5	41 <0.5	3,900 2.2	<u> </u>	<250 <5.0	<500 <10	180 <0.5
	7/19/2006 10/5/2006	100	5,000 23,000	836 3,740	223 112	107 395	81.8 161	1,130 6,020		<4.2 13.5	<84 546	54.1 219
			8	*****		3.3790.0000	are of the court	757257	*******			5
M VV-2	6/3/1993 9/14/1994 12/30/1994	<50 <50 <50	<50 <50 160	5.8 <0.5 1.4	<0.5 <0.5 1.4	<0.5 <0.5 0.8	<0.5 <0.5 5		<500 <500 <500		_	
	3/26/1995	<50	<50	<0.5	<0.5	<0.5	<0.5	(400)	<500	2220	-	3755
	7/9/1995 7/31/1998	220	<50	<0.5	<0.5	<0.5	<0.5	73	<500	120	220	275
	2/11/1999 6/23/1999	<50 420	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	75 96				
	12.671999 3/16/2000	<110 <50	300 <50	28	45 <0.5	6 0.5	37 1	210 3	2			
	6/13/2000	<50	68	8.0	< 0.5	< 0.5	< 0.5	38			=	
	9/29/2000 3/22/2001	<50 <50	67 <50	0.8	0.5 0.5	<0.5 <0.5	1.	14			***	(***)
	6/25/2001 9/28/2001	100	<50 300	<0.5 4	<0.5 6	<0.5 3	<1.0 10	13 130				200
	12/26/2001 7/7/2005		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1 D <1 D	<0.5 20		<1 D		1.1
	10/19/2005 1/13/2006		29 <2.5	1.4	<0.5 ° <0.5	<0.5 <0.5	<0.5 <0.5	19 <1.0	2	<5 D <5 D	<10 <10	0.95 <0.5
	5/5/2006 7/19/2006	=	<25	< 0.5	< 0.5	< 0.5	<0.5	<1.D	<u> </u>	<5 D	<10 <10	< 0.5
Dwarf Colors	10.5./2006	1099	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	16.6 11.9		<0.5 <0.5	<10	1.24 0.750
Postexcausion	3/29/2007 6/27/2007		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	3.36 10.5		<0.5 <0.5	<10 <10	<0.5 0.820
	9/19/2007 12/19/2007		52 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	18.1 22.9		<0.5 <0.5	<10 <10	0.710 0.840
	3/6/2008 6/18/2008	122	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	1.02 36.9		<0.5 <0.5	<10 <10	<0.5 0.880
	9/10/2008 12/10/2008		69 84	< 0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	24.6 30.2		<0.5 <0.5	<10 <10	0.810 0.650
	3/4/2009	=	<50 <55	<0.5 <0.55	<0.5 <0.55	<0.5 <0.55	<1.5 <1.6	3.15	18 12	<0.5 <0.55	<10 <11	< 0.5
	6/3/2009 8/27/2009	1000	<5D	< 0.5	<0.5	<0.5	<1.5	35 73	**	<0.5	23	0.55 1.1
	3/11/2010 9/22/2010		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	<0.5 44	**	<0.5 <0.5	<30 <5.0	<0.5 1.3
	4/19/2011 9/30/2011		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	2.4 12		<0.5 <0.5	<5.0 <5.0	0.80
	10/26/2011		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	20 15		<0.5 <0.5	<5.0 <5.0	-
	9/5/2012 7/11/2013		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	20 25		<0.5 <0.5	<5.0 <5.0	-
MW-3	6/3/1993	<50 <50	<50 <50	<0.5	<0.5	<0.5 <0.5	<0.5		<500 <500		22.	
	9/14/1994	<50	<50	<0.5 <0.5	<0.5 <0.5	< 0.5	<0.5 <0.5		<500	200		22
	3/26/1995 7/9/1995	<50 	<50 	< 0.5	<0.5 	<0.5 	<0.5 	#	<500 			
	7/31/1998 2/11/1999	<50 <50	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<5000 	13	-	
	6/23/1999 12/6/1999	<50 <110	<50 <50	<0.5 3	<0.5 1	<0.5 <0.5	<0.5	3 0.6	22			
	3/16/2000 6/13/2000	<50	<50	<0.5	< 0.5	< 0.5	<1 D	1	2	123		
	9/29/2000	<50 <50	490 57	0.8 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0	<10 ³		50%	576	575
	3/22/2001 6/25/2001	<50 	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1 D <1 D	2 0.8		:::		
	9/28/2001 12/26/2001	72	91 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	2 <1.0	2 <0.5	2			
	7/7/2005 10/19/2005	122	<50 <25	<0.5 <0.5	<0.5 °	<0.5 <0.5	<1.0 <0.5	<0.5 <1.0		<1.0 <5.0	 <10	<0.5 <0.5
	1/13/2006	9.55	<25	< 0.5	< 0.5	< 0.5	< 0.5	<1 D	777	<5 D	<10	< 0.5
	5/5/2006 7/19/2006		<25 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <1.5	<1.0 <0.5		<5.0 <0.5	<10 <10	<0.5 <0.5
Postexcausion	10.5/2006 3/29/2007		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	<0.5 <0.5		<0.5 <0.5	<10 <10	<0.5 <0.5
A THORNES AND THE SECOND SECON	6/27/2007 9/19/2007	=	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	<0.5 <0.5	2	<0.5 <0.5	<10 <10	<0.5 <0.5
l	12/19/2007	=	<50 <50	<0.5 <0.5	< 0.5	<0.5 <0.5	<1.5	< 0.5	<u></u>	<0.5 <0.5	<10 <10	<0.5 <0.5
l	3/6/2008 6/18/2008	S	<50	< 0.5	<0.5 <0.5	<0.5	<1.5	<0.5 <0.5	***	<0.5	<10	< 0.5
	9/10/2008 12/10/2008	-	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	<0.5 <0.5		<0.5 <0.5	<10 <10	<0.5 <0.5
	3/4/2009 6/3/2009		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	<0.5 <0.5		<0.5 <0.5	<10 <10	<0.5 <0.5
l	8/27/2009 3/11/2010		<55 <50	<0.55 <0.5	<0.55 <0.5	<0.55 <0.5	<1.6 <1.5	<0.55 <0.5		<1.55 <0.5	<11 <30	<0.55 <0.5
l	9/22/2010	=	<50	< 0.5	< 0.5	< 0.5	<1.5	< 0.5		<0.5	< 5.0	<0.5
l	4/19/2011 9/30/2011	0.69	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	2.9 <0.5	**	<0.5 <0.5	<5.0 <5.0	<0.5
l	10/26/2011 12/6/2011		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	<0.5 <0.5	22	<0.5 <0.5	<5.0 <5.0	-
	9/5/2012 7/11/2013		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	<0.5 <0.5		<0.5 <0.5	<5.0 <5.0	-
		2000	1001	.0.5/52		.45657.			~		-0.00 M	~200



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

ESL MW-4	Sample	TPHd	TPHg	В	Ţ	Ē	Х	MTBE	TRPH	DIPE	TBA	1,2-DCA
MW-4	Date	100	100	Concentrati	ons in micro	ograms per 30	liter (µg/L) 20	5.0	27000	2000	12	0.5
	12/6/1999	160	<50	3	2	0.6	4	140	200		12	ν.5
	3/16/2000	90	<50	0.5	0.5	< 0.5	2	34	***	****	6503	
	6/13/2000	<50	56	< 0.5	< 0.5	< 0.5	<1 D	1	2		222	
	9/29/2000	<50	92	0.7	< 0.5	<0.5	3	<1 D 2	***	7.77	575	255
	4/5/2001	<50	51	< 0.5	0.5	< 0.5	1.					
	6/25/2001 9/28/2001		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 2	<0.5 2	<u></u>	127		
	12/26/2001	0.000	<50	1.6	1.7	1.6	44	2.7		****	2000	
	7/7/2005		<50	<0.5	< 0.5	<0.5	<1.0	<0.5	8	<1.0		< 0.5
	10/19/2005	522	<25	< 0.5	<0.5 2	< 0.5	<0.5	<1 D	22	<5.D	<10	< 0.5
	7/19/2006	055	<50	< 0.5	< 0.5	< 0.5	<1.5	<0.5		<0.5	<10	< 0.5
	10.672006	57225	<50	< 0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<10	< 0.5
Postexcausion	3/29/2007 6/27/2007	122	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	0.69 <0.5	11	<0.5 <0.5	<10 <10	<0.5 <0.5
	9/19/2007	N	<50	<0.5	<0.5	KD 5	<1.5	1.38		<0.5	<10	<0.5
	12/19/2007	2.2	63	a <0.5	< 0.5	< 0.5	<1.5	2.20	2	< 0.5	<10	0.590
	3/6/2008	2.000	<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	25%	<50	< 0.5	< 0.5	<0.5	<1.5	0.700	77	<0.5	<10	< 0.5
	12/10/2008		<50	< 0.5	< 0.5	< 0.5	<1.5	2.04		< 0.5	<10 <10	< 0.5
	3/4/2009 6/3/2009	0.00	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	2.96 1.5		<0.5 <0.5	<10	<0.5 <0.5
	8/27/2009		<50	<0.5	<0.5	<0.5	<1.5	49	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	1.2	<50	< 0.5	< 0.5	< 0.5	<1.5	9.8	22	<0.5	<30	< 0.5
	6/10/2010	1077	<50	< 0.5	< 0.5	<0.5	0.52	8.5	**	<0.5	6.1	1.8
	9/22/2010	7.2	<50	< 0.5	< 0.5	< 0.5	<1.5	52		< 0.5	5.1	1.1
	4/19/2011	23	<50	<0.5	< 0.5	< 0.5	<1.5	6.1	2	<0.5	<5.0	
	9/30/2011 10/26/2011		73 <50	* <0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	70 80		<0.5 <0.5	<5.0 <5.0	2.4
	12,6,2011		110	s <0.5	<0.5	<0.5	<1.5	140	30	<0.5	14	
	9/5/2012	3.57	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	
WOOF	10.0.4000	0.000	20.000	0.000	0.000	040	7000	0.70			1.815-1	
M W-5	12.6/1999 3/16/2000	2,800 1,100	30,000 3,500	2,200 1,100	3,300 260	910 210	7000 6300	670 260	5	12	-	
	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	<u> </u>		2.0	
	3/22/2001	380	4,300	780	2 40	250	530	190	222	2228	277.0	2000
	6/25/2001	102	3,100	1,000	110	200	320	1 40				
	9/28/2001	8555	3,000	1,200	77	120	170	770	- 17	575	5355	570
	12/26/2001 8/24/2005	022	3,240 150	738 57	262 3	218 8	626 3.9	66.4 67		<1 D	18	3.0
	10/19/2005		560	130	3.8	23	9.3	230		<25	<50	11
	1/13/2006	100	2,300	570	18	120	140	220	2.	<25	<50	14
	5/5/2006	1000	130	35	1.7	7.8	7.4	8		<5.D	<10	0.55
	7/19/2006	1.2	210	102	1.54	15.8	3.85	27.6		<0.5	<10	2.06
	10.572006	\$5 55	410	105	1 06	9.05	2.24 ndoned 12.27	101		0.640	113	6.65
M VV-6	12.6/1999 3/16/2000	110 <50	<50 <50	2 8	2 8	0.8 5	8 18	1 <0.5				900
	6/13/2000	<50 <50	≺ou 75	0.7	1	0.9	18	0.0		12/		
	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 D	3	2.			
	6/25/2001	5225	<50	< 0.5	< 0.5	<0.5	<1 D	4	111	2228	233	222
	9/28/2001	977	63	2	ND	ND	1	3			-	
	12/26/2001 7/7/2005	52.2	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	1.4 <1.0	<0.5 <0.5		 <1.Ω	227	<0.5
	10/19/2005	122	<25	<0.5	<0.5°	<0.5	<0.5	<1.D	2	<5 D	<10	<0.5
	1/13/2006		<25	<0.5	<0.5	<0.5	<0.5	<1.D		<5 D	<10	<0.5
	5/5/2006	5.2	<25	< 0.5	< 0.5	< 0.5	< 0.5	<1.D		<5 D	<10	< 0.5
	7/19/2006	1555	<50	< 0.5	< 0.5	< 0.5	<1.5	<0.5		< 0.5	<10	< 0.5
	10.5./2006	-	<50	<05	< 0.5	<0.5	<1.5	<0.5		<0.5	<10	< 0.5
Postexcausion	3/29/2007	397	<50	< 0.5	<0.5	< 0.5	<1.5	<0.5	8	< 0.5	<10	< 0.5
ADDITION OF THE PARTY OF THE PA	6/27/2007 9/19/2007		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	<0.5 <0.5		<0.5 <0.5	<10 <10	<0.5 <0.5
A	12/19/2007	0.00	<5D	<0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<10	<0.5
	3/6/2008		<5D	<0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<10	<0.5
			<50	< 0.5	< 0.5	< 0.5	<1.5	<0.5		< 0.5	<10	< 0.5
	6/18/2008	0.000			< 0.5	< 0.5	<1.5	< 0.5	22	< 0.5	<10	< 0.5
	6/18/2008 9/10/2008	10	<50	< 0.5								
	6/18/2008 9/10/2008 12/10/2008		<50 <50	< 0.5	< 0.5	<0.5	<1.5	<0.5	77	<0.5	<10	< 0.5
	6/18/2008 9/10/2008 12/10/2008 3/4/2009	=======================================	<50 <50 <50	<0.5 <0.5	<0.5 <0.5	< 0.5	<1.5	<0.5	<u>X</u>	<0.5	<10	<0.5 <0.5
	6/18/2008 9/10/2008 12/10/2008 3/4/2009 6/3/2009	E	<50 <50 <50 <50	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5	<1.5 <1.5	<0.5 <0.5		<0.5 <0.5	<10 <10	<0.5 <0.5 <0.5
	6/18/2008 9/10/2008 12/10/2008 3/4/2009 6/3/2009 8/27/2009	=======================================	<50 <50 <50	<0.5 <0.5	<0.5 <0.5	< 0.5	<1.5	<0.5		<0.5	<10	<0.5 <0.5
	6/18/2008 9/10/2008 12/10/2008 3/4/2009 6/3/2009		<50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<1.5 <1.5 <1.5	<0.5 <0.5 <0.5	II.	<0.5 <0.5 <0.5	<10 <10 <10	<0.5 <0.5 <0.5 <0.5
	6/18/2008 9/10/2008 12/10/2008 3/4/2009 6/3/2009 8/27/2009 3/11/2010 9/22/2010 4/19/2011		50 50 50 50 50 50 50 50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<1.5 <1.5 <1.5 <1.5 <1.5 <1.5	<0.5 <0.5 <0.5 <0.5 <0.5 0.63	<u> </u>	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <30 <5.0 <5.0	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5
	6/18/2008 9/10/2008 12/10/2008 3/4/2009 6/3/2009 8/27/2009 3/11/2010 9/22/2010 4/19/2011 9/30/2011		50 50 50 50 50 50 50 50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	05 05 05 05 05 05	<15 <15 <15 <15 <15 <15 <15	<0.5 <0.5 <0.5 <0.5 <0.5 0.63 <0.5	<u> </u>	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <30 <5.0 <5.0 <5.0	<0.5 <0.5 <0.5 <0.5 <0.5
	6/18/2008 9/10/2008 12/10/2008 12/10/2008 3/4/2009 6/3/2009 8/27/2009 3/11/2010 9/22/2010 4/19/2011 9/30/2011 10/26/2011		50 50 50 50 50 50 50 50 50 50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	05 05 05 05 05 05 05	<1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5	<0.5 <0.5 <0.5 <0.5 <0.5 0.63 <0.5 <0.5		<pre></pre>	<10 <10 <10 <30 <5.0 <5.0 <5.0 <5.0	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
	6/18/2008 9/10/2008 12/10/2008 3/4/2009 6/3/2009 8/27/2009 3/11/2010 9/22/2010 4/19/2011 10/26/2011 12/6/2011		450 450 450 450 450 450 450 450 450	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<05 <05 <05 <05 <05 <05 <05 <05 <05	0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 &	15 15 15 15 15 15 15 15 15	<0.5 <0.5 <0.5 <0.5 <0.5 0.63 <0.5 <0.5 <0.5		<pre></pre>	<10 <10 <10 <30 <5.0 <5.0 <5.0 <5.0 <5.0	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
	6/18/2008 9/10/2008 12/10/2008 12/10/2008 3/4/2009 6/3/2009 8/27/2009 3/11/2010 9/22/2010 4/19/2011 9/30/2011 10/26/2011		50 50 50 50 50 50 50 50 50 50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	05 05 05 05 05 05 05	<1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5	<0.5 <0.5 <0.5 <0.5 <0.5 0.63 <0.5 <0.5		<pre></pre>	<10 <10 <10 <30 <5.0 <5.0 <5.0 <5.0	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5



Table 3 Summary of Historical Groundwater Monitoring Analytical Data Former Olympian Service Station 1435 Webster Street

Alameda, California

Well ID	Sample	TPHd	TP Hg		В	Ţ	E	Х	MTBE	TRPH	DIPE	TBA	1,2-DC
	Date			C		ons in micro			-			- 22	-
	SL	100	100 840		50.8	40	30 2.54	20 162	5.0 39.9		<0.5	12 <10	0.5
MW-7	3/29/2007					9.33					0.55D	58.4	2.26 6.21
	6/27/2007	100	270	16	126 0.5	< 0.5	7.11	<1.5 <1.5	94.4	***			
	9/19/2007	9.442	191	12	U.5 <0.5	<0.5 <0.5	5.38 <0.5	<1.5	49.6 11.4		<0.5 <0.5	28.5	4.37 1.09
	12/19/2007 3/6/2008	255	54		<0.5	<0.5	<0.5			77			0.59
		-	<50					<1.5 <1.5	4.83		<0.5	<10	
	6/18/2008 9/10/2008		<50 55		0.840	<0.5 <0.5	0.500 <0.5	<1.5	52.5 15.3	0	<0.5 <0.5	15.3	5.70 1.98
									2.43				
	12/10/2008 3/4/2009	100	<50 <50		<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	0.530	18	<0.5 <0.5	<10 <10	<0.5 <0.5
	6/3/2009		<50 <50		0.62	<0.5	< 0.5	<1.5	5.2	1	<0.5	<10	<0.5
			<5D		<0.5		<0.5	<1.5	4.8			<10	
	8/27/2009 3/11/2010		<50 <50		<0.5	<0.5 <0.5	<0.5	<1.5	0.73	10	<0.5 <0.5	<30	0.55
	9/22/2010		<50 <50		<0.5	<0.5	<0.5	<1.5	3.9		<0.5	<5.0	0.64
	4/19/2011		<5D		<0.5	<0.5	<0.5	<1.5	20		<0.6	<5.D	0.64
	9/30/2011		<5D		<0.5	<0.5	<0.5	<1.5	4.3		<0.5	<5.D	
	10/26/2011		<5D		<0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<5.D	
	12,6,2011		<5D		<0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<5.D	
	9/5/2012		<50		<0.5	<0.5	<0.5	<1.5	2.4		<0.5	<5.D	
	7/11/2013		<5D		<0.5	<0.5	<0.5	<1.5	2.1		<0.5	<5.D	
	771172013	200	400		CUD	\U.S	CU D	31.5	2.1	75	CU D	45.0	2523
MW-8	4/6/2007		27,000		2,460	1.520	210	1,810	16,000		24.3	1,050	459
	6/27/2007	1766	20,000		2,460	382	611	1,040	7,310		11.1	3,400	319
	9/19/2007	3.2	20,400	35	814	162	219	21.6	10.300	202	<4.40	7.080	194
	12/19/2007	0.000	14,100	2	426	10.6	115	22.4	12,700	444	25.0	864	289
	3/6/2008	200	19,000	•	639	19.5	268	152	11,200	222	<4.4	<88	227
	6/18/2008	1000	5,800	4	496	11.7	258	24.4	9,730		15.7	468	209
	9/10/2008	200	9,900		299	11.1	73.0	13.6	11,600		27.1	1,670	240
	12/10/2008	None.	6,900		477	3.98	57.9	22.6	11,600	***	23.1	634	287
	3/4/2009	3.2	8,500		168	1.35	17.3	8.59	8,190	22	7.00	2,050	238
	6/3/2009		11,000	•	490	3.90	57	16	14,000		< 0.5	<10	310
	8/27/2009		5,400	•	340	8.3	67	37	8,900	22	21	2,900	300
	3/11/2010		7,900		660	3.7	100	28.3	5,800		18	1.100	150
	9/22/2010	12.2	4,700	4	1,100	<44	230	<132	5,700		<44	470	120
	4/19/2011	0.000	67		<0.5	<0.5	0.83	<1.5	20		<0.5	<5.0	
	9/30/2011	5355	2,500		140	2.0	38	5.3	5,600		8.2	< 5.0	180
	10/26/2011		6,900	,	3.7	< 0.5	0.59	<1.5	6,600		16	<440	
	12.6./2011	100	2,100		4.3	0.52	0.56	<1.5	10,000	100	21	590	3.55
	9/5/2012	2.52	590	3.5	99	1.1	20	4.9	510		11	3,800	
	7/11/2013	1000	1,300		260	10	89	33	80	***	10	3,200	-
MW-9	8/27/2009	1794	<50		<0.5	<0.5	<0.5	<1.5	12		<0.5	<10	0.76
m 99-3	12/10/2009		<50 <50		<0.5	0.50	<0.5	<1.5	4.8	<u>::</u>	<0.5	<5.0	< 0.5
	3/10/2010	1000	<50		<0.5	< 0.5	<0.5	<1.5	3.8		<0.5	<30	<0.5
	6/10/2010	100	<5D		<0.5	< 0.5	<0.5	<1.5	7.4	22	<0.5	<5.0	0.6
	9/22/2010		<50 <50		< 0.5	<0.5	< 0.5	<1.5	1.6		<0.5	<5.D	√0.5
	4/19/2011	122	<50 <50		<0.5	<0.5	<0.5	<1.5	8.7	2	< 0.5	<5.0	
	9/30/2011		<50 <50		<0.5	<0.5	<0.5	<1.5	8.7 <0.5		<0.5	<5.0	<0.5
	10/26/2011		<50 <50		<0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<5.D	ζυ
	12,6,2011		<50 <50		<0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<5.D	
	9/5/2012	1975	<5D		<0.5	<0.5	<0.5	<1.5	<0.5	10	<0.5	<5.D	88
		-	<50 <50		<0.5	<0.5					<0.5		-
	7/11/2013		45 D		700	(U.S	< 0.5	<1.5	<0.5		'U.D	<5.D	

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--- Continued by EPA Method 2020

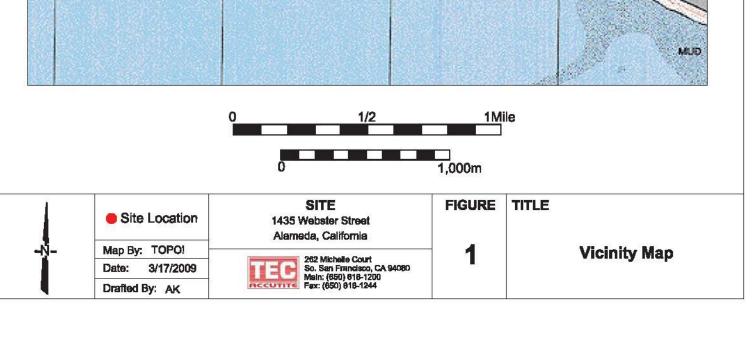
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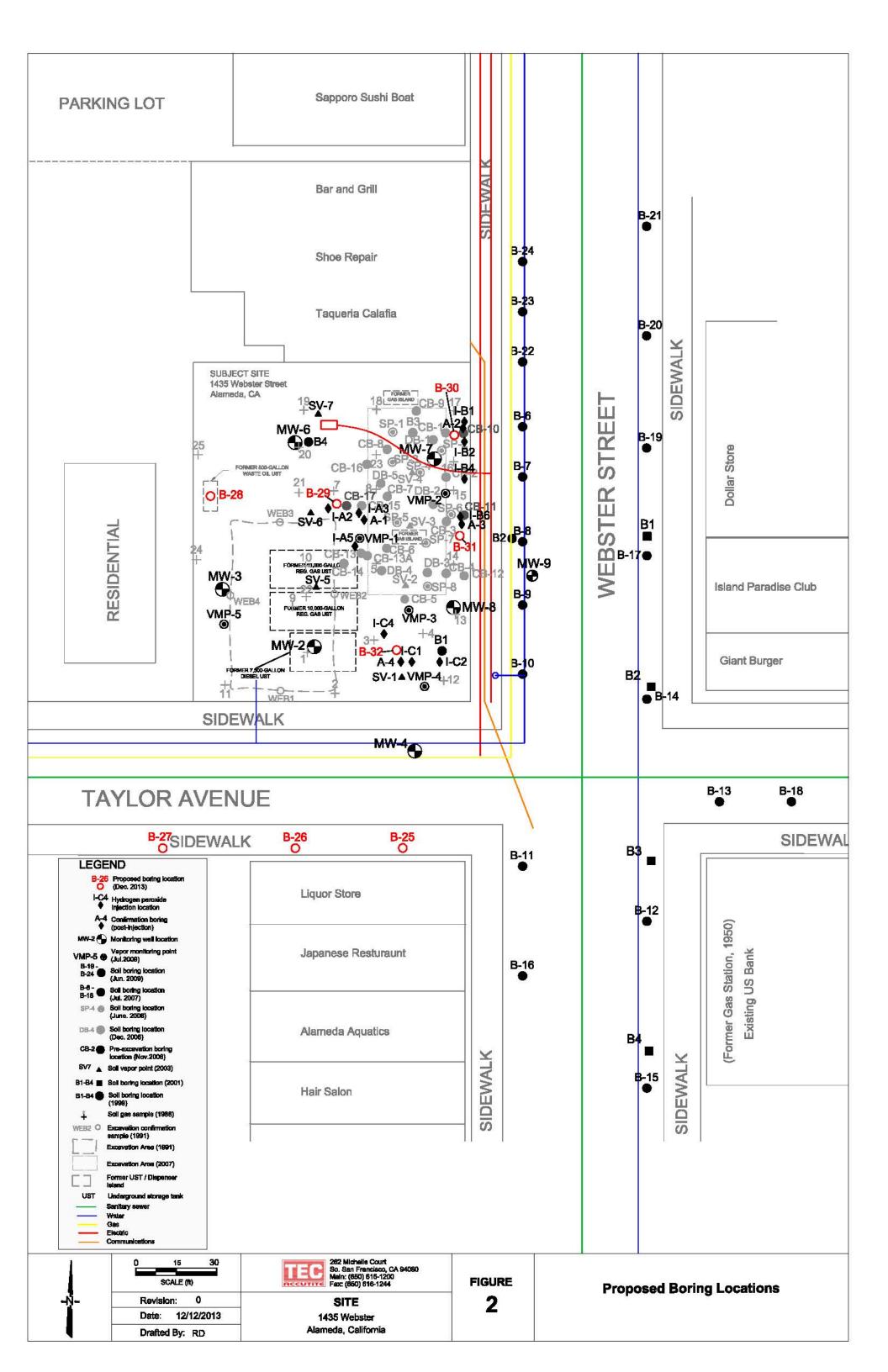
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FIGURES







ATTACHMENT A

SITE CONCEPTUAL MODEL



CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
Geology and Hydrogeology	Regional	The subject site is located on an island in the eastern portion of the San Francisco Bay and is underlain by interbedded Holocene age marine beach and near shore deposits. These deposits are composed of unconsolidated sands and semi-consolidated deposits of well-graded to poorly-graded sand, silty sand/sandy silt, silt, and clayey sand. Groundwater beneath the site has been designated as potentially suitable for municipal and industrial use (San Francisco Bay Water Quality Control Plan, 1995).	None	NA
Geology and Hydrogeology	Site	The site is located on the bay plain deposits of the San Francisco Bay consisting of shallow marine and continental deposits known as the "Bay Mud". Sediments beneath the site consist mainly of fine grained brown sand to a maximum explored depth of 20 ft below surface grade (ft bsg). Depth to groundwater at the site varies from 8 to 11 ft bsg. Groundwater flow direction has consistently been toward the south ranging from southwest to southeast at an average gradient of 0.005 ft/ft. Groundwater beneath the site has been designated as potentially suitable for municipal and industrial use (San Francisco Bay Water Quality Control Plan, 1995).	None	NA
Surface Water Bodies		The closest surface water body is the San Francisco Bay, which is 1,500 feet south of the site.		
Nearby Wells		Numerous monitoring and remediation wells are located at 1629 Webster and 1601 Webster, located approximately 1,200 ft and 1,000 ft, respectively, north and up-gradient of the site.	None	NA

CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
		As of 2005, California Department of Water Resources records indicated that no domestic, industrial, or municipal wells existed within a 1,000 ft radius of the site.		
Release Source and Volume		Two 10,000-gallon gasoline underground storage tanks (USTs), one 7,500-gallon diesel UST, one 500-gallon waste oil UST and two dispenser islands are considered the main source of the release of fuel hydrocarbons that have been detected in soil and groundwater beneath the Site. These tanks were removed in September 1989. The volume of the release is not known.	None	NA
LNAPL		LNAPL has not been observed at the site.	None	NA
Source Removal Activities		In January 1991, approximately 550 cubic yards of soil were removed from the former location of the USTs. This soil was bioremediated onsite. In September 1991 (following the bioremediation of the previously excavated soil), additional 300 cubic yards of contaminated soil were removed. The majority of the excavated soil had been biologically detoxified and returned to the former excavation under the approval of the Alameda County Health Care Services Agency. In February 2007, approximately 1,000 tons of soil was removed from the site and 15,000 gallons of groundwater was extracted, treated and discharged to the sanitary sewer. Soil was removed to a total depth of 14 ft bsg. A hydrogen peroxide injection pilot test was completed at the site in October 2011. Approximately 1,100 gallons of 7% hydrogen	See Petroleum Hydrocarbons in Groundwater below.	See Petroleum Hydrocarbons in Groundwater below.

CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
		peroxide were injected at areas with elevated adsorbed and dissolved-phase concentrations of chemicals of concern (COCs, as described in the following section). The treatment locations targeted soil near historical borings CB-10, CB-11 and CB-17 and groundwater and soil down-gradient of monitoring well MW-8. The treatment appears to have reduced adsorbed concentrations of COCs in unsaturated soil near CB-10 and CB-11 to acceptable levels; unsaturated soil samples from the area near CB-17 and MW-8 were below laboratory reporting limits before and after treatment. Grab groundwater samples from these same areas (collected approximately two months after the injection event) contained significantly elevated concentrations of COCs as a result of injection-related desorption. Dissolved-phase concentrations in samples collected from monitoring wells located down-gradient of the injection areas (MW-2, MW-4, MW-8) exhibited a similar spike in MTBE; however, MTBE has decreased significantly in well MW-8 since December 2011.		
Contaminants 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).	None	NA
Petroleum Hydrocarbons in Soil		Soil impacted by COCs above Low Threat Closure Policy (LTCP) levels occurs in two known areas at the site: 1) center of the site in the undisturbed zone between the 1991 and 2007 excavation areas in the vicinity of boring CB-17/A-1, and 2) east side of site along the eastern boundary of the 2007 excavation, specifically near borings CB-10/B-6 and CB-11. Evidence of petroleum hydrocarbon impact to soil, when encountered, is generally not observed above 10 ft bsg or below 15 ft bsg. This depth range represents the smear zone, and is within	1. & 2.	Additional soil borings to be advanced, as described in the Data Gap Identification Summary and Proposed Investigation included in Attachment B of this document.

CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
		the historic range of groundwater table fluctuations.		
		Soil samples have been collected from 62 soil borings during site		
		assessment activities; 25 soil boring locations were removed during		
		over-excavation activities. Only 5 samples from the 37 borings		
		advanced in undisturbed soil (soil not removed during excavation)		
		contained concentrations of COCs above the most conservative		
		ESL. Specifically, these samples were collected from undisturbed		
		soil:		
		 east of MW-7 (samples collected at 12 ft bsg from borings 		
		CB-10 and CB-11 and samples collected at 9 ft bsg from		
		pre-injection borings I-B1 and IB-6); and		
		 in the center of the site between the two excavated areas 		
		(sample collected at 12 ft bsg from boring CB-17).		
		Samples from I-B1 and IB-6 were collected from areas		
		subsequently treated during the October 2011 hydrogen peroxide		
		injection pilot study; collocated confirmation samples from these		
		same areas did not contain COCs above ESLs. Therefore, soil		
		potentially containing concentrations of COCs above screening		
		levels are limited to saturated soil in the areas near borings CB-10,		
		CB-11, and CB-17. As the analytical data for samples from "CB"		
		borings are now more than 7 years old (November 2006), they do		
		not represent current conditions. Additionally, saturated "smear		
		zone" soil (greater than 9 ft bsg) located south of MW-8 may		
		contain elevated concentrations of COCs. The lack of <u>current</u>		
		analytical data for these areas represents a data gap.		
		Three areas of potential contamination in shallow soil have been		
		identified by Alameda County Environmental Health (ACEH).		
		These areas include the former waste oil UST, the northern		

CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
COM LIGHTON	Liement	gasoline dispenser island and the area south of MW-8. Based on a review of available data, shallow soil samples from boring CB-9, located immediately adjacent to the northern dispenser area (south side), did not contain concentrations of COCs above laboratory reporting limits at 8 and 10 ft bsg; this area appears to be adequately assessed. Shallow soil data does not exist for the former waste oil UST and the area south of MW-8 and represents a data gap.	Buta Gup Rein #	resolution
Petroleum Hydrocarbons in Groundwater		The dissolved phase plume is located primarily on the southern half of the site. Elevated concentrations of dissolved-phase TPHg, benzene and MTBE exist to the south of the 2007 excavation boundary and to the east of the 1991 excavation boundary (well MW-8 and vapor points VMP-3 and VMP-4). Elevated concentrations of petroleum hydrocarbons were also detected in grab groundwater samples collected during the installation of vapor points VMP-1, located west of the 2007 excavation boundary, and VMP-2, located within the footprint of the 2007 excavation boundary. The site is currently monitored by a network of 7 groundwater wells. Prior to December 2011, these wells were monitored on a semi-annual basis. The most recent depth to water and analytical data for the site was collected in July 2013 with only one additional set of data between December 2011 and July 2013. Long-term, post-injection groundwater concentration stability has not been confirmed and represents a data gap. Grab groundwater samples collected approximately two months	3., 4. & 5.	Complete one additional round of groundwater monitoring from site wells, and collection of grab groundwater samples as described in the Data Gap Identification Summary and Proposed Investigation included in Attachment B of this document.

CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
		concentrations of COCs as a result of desorption caused by injection. Dissolved-phase concentrations in samples collected from monitoring wells located down-gradient of the injection areas (MW-2, MW-4, MW-8) exhibited a similar spike in MTBE; however, MTBE has decreased significantly in well MW-8 since December 2011. Long-term persistence of elevated dissolved-phase concentrations (above LTCP, Groundwater Class 2 criteria) caused by desorption is considered a current data gap. The lateral distributions of dissolved-phase TPHg and benzene above water quality objectives are defined in all directions. The lateral distribution of MTBE in groundwater is constrained except to the southwest. The distal end of the dissolved-phase MTBE plume that exceeds water quality objectives has not been established; this has been identified as a data gap.		
Petroleum Hydrocarbons in Soil Vapor		Data from soil vapor samples collected in August and December 2009 and post-injection samples collected in October 2011 indicate that petroleum hydrocarbons are not significant in soil vapor; samples collected from the unsaturated zone (4-5 ft bsg) and from just above the smear zone (7.5-8.5 ft bsg) did not contain petroleum hydrocarbons at concentrations above laboratory reporting limits. These results are consistent with historical soil vapor samples SV-1 through SV-7, collected from 3.5 ft bsg in 2003. Although grab groundwater samples collected from the exploratory borings for soil vapor monitoring points VMP-1 through VMP-4 contained elevated concentrations of petroleum hydrocarbons, the soil vapor samples from these same points indicate that contaminants are not readily migrating from groundwater to subsurface vapor.	None	NA

CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
Risk Evaluation		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.	1., 2., 4, & 5.	
		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 unused, has no structures and is covered with asphalt with the exception of landscaped areas in the center and perimeter of the property. Tentative plans for the property include redevelopment for mixed commercial (ground floor) / residential use that could include subgrade parking.		
		Direct contact with soil (ingestion and/or absorption) is a potentially significant exposure pathway if shallow soil contamination is encountered in proposed soil boring near the former waste oril UST or the area south of MW-8; however, the current data set for shallow soil does not indicate this expose pathway is complete because impacted soils are present at or below 10 ft bsg. Residential site users would be extremely unlikely to directly contact soils below 10 ft bsg. Similarly, impacted deep soils are extremely unlikely to generate soil particulates which pose an inhalation exposure risk, primarily because they are located below the groundwater table. Construction workers may have direct contact with soils below 10 ft bsg during excavation activities assuming sub-grade construction were to be completed.		
		Groundwater beneath the site vicinity is considered a potentially significant resource for municipal or industrial use. However, no extant wells have been identified within 1,000 ft of the site, and the area is expected to access municipal water supplies for the foreseeable future. Because the groundwater table is found between 6 and 12 ft bsg, site users are most likely to directly contact groundwater extracted from a well for domestic use.		

	CSM Sub-			
CSM Element	Element	Description	Data Gap Item #	Resolution
	Liement	Under current use or future on-grade redevelopment, the site satisfies scenarios 1 through 3 presented in Appendices 1 through 4 of the LTCP and therefore can be considered low-threat for vapor intrusion to indoor air. Although shallow soil data is not available for the southeast corner of the property, multiple soil vapor sampling events have been completed at soil vapor sampling points VMP-3 and VMP-4 and results indicate significant levels of COCs do not exist in soil vapor at 4 and 8 ft bsg. However, Media-Specific Criteria for Direct Contact and Outdoor Air Exposure has not been met and will require collection of shallow soil samples from this area. Under a redevelopment scenario in which sub-grade parking would be included in future construction, the site would not satisfy any of the four scenarios presented in the Media Specific Criteria for Vapor Intrusion due to the relatively shallow depth to groundwater. Since 1993, the historical maximum depth to groundwater was 12.2 ft bsg and the minimum depth to groundwater was 5.6 ft bsg. A typical sub-grade parking structure would be constructed with the foundation set between 10 and 15 ft bsg. In this scenario, the foundation would be set at or below the groundwater table and would require dewatering. Therefore, a bioattenuation zone as described in the LTCP (at least 5 ft of unsaturated soil) would not exist under this redevelopment scenario. Volatilization of COCs from groundwater to the sub-grade structure is potentially complete and would need to be addressed through engineering controls (ventilation and/or sub-slab impermeable membrane).	Data Gap Reili #	Resolution

ATTACHMENT B

DATA GAP IDENTIFICATION SUMMARY AND PROPOSED INVESTIGATION



Attachment B Data Gap Identification Summary and Proposed Investigation

Item	Data Gap Item #	Proposed Investigation	Rationale	Analyses
1	Media Specific Criteria for Vapor Intrusion to Indoor Air Current analytical data is not available for deep soil (12 ft bsg) following hydrogen peroxide injection pilot study. Historical data showing TPHg concentrations exceed the most conservative 100 mg/kg threshold for a bioattenuation zone are from samples collected more than 7 years ago.	Advance soil borings B-30, B-31 and B-29 adjacent to historical borings CB-10, CB-11 and CB-17, respectively, to collect confirmation soil samples at 12 ft bsg.	Assuming hydrogen peroxide injection and/or natural attenuation has decreased TPHg concentrations below the 100 mg/kg threshold for a bioattenuation zone, unrestricted future redevelopment can be completed at the site, including sub-grade construction. Currently, the site appears to meet criteria for potential exposure scenarios 1 through 3 presented in the Petroleum Vapor Intrusion to Indoor Air section of the LTCP (See SCM – Risk Evaluation section); however, the site would not meet any of the 4 scenarios under a sub-grade redevelopment scenario as little to no bioattenuation zone would exist due to the shallow groundwater table. If analytical data from proposed soil sampling does meet LTCP criteria, engineering controls will likely be required to meet vapor intrusion requirements.	TPHg, BTEX and fuel oxygenates

Item	Data Gap Item #	Proposed Investigation	Rationale	Analyses
2	Media Specific Criteria for Direct Contact and Outdoor Air Exposure: Shallow soil data is not available for the former waste oil UST and the southeast corner of the property.	Advance one soil boring within the former waste oil UST pit (B-28) and one soil boring in the southeast corner of the site (B-32) for collection of shallow soil samples. Soil samples will be collected to at least 15 ft bsg to delineate the vertical extent of potential residual contamination. Step out borings will be completed should concentrations of COCs exceed the concentrations of petroleum constituents listed in Table 1 of the Direct Contact and Outdoor Air Exposure Criteria.	Collection of analytical data will determine if shallow soil satisfies the media-specific criteria for direct contact and outdoor air exposure.	TPHg, BTEX and fuel oxygenates. Soil samples collected from the former waste oil UST area will also be analyzed for TPHmo, TPHd, PAHs, RCRA 7 Metals.
3	Media Specific Criteria for Groundwater: Concentrations of dissolved-phase benzene and MTBE have not shown a stable or decreasing pattern in well MW-8.	Semi-annual monitoring will continue until a stable or decreasing trend has been established for at least one hydrologic year. The most recent sampling data from September 2012 and July 2013 indicate that MTBE appears to be stable or decreasing although benzene has been increasing.	In order to meet Class 2 of the LTCP for Groundwater, maximum groundwater concentrations must not exceed 3,000 µg/l for benzene and 1,000 µg/l for MTBE. Samples collected from MW-8 in September 2012 and July 2013 Monitoring well MW-8 contained concentrations below these levels; however, samples have not been collected during the wet season and benzene has shown an increasing trend.	TPHg, BTEX and fuel oxygenates by EPA 8260.

Attachment B Data Gaps Summary and Proposed Investigation (Continued)

Item	Data Gap Item #	Proposed Investigation	Rationale	Analyses
4	Media Specific Criteria for Groundwater: Maximum COC concentrations in groundwater exceed Criteria 2 of the LTCP for groundwater. Specifically, grab samples collected following the hydrogen peroxide injection pilot study from borings A-1, A-3 and A-4 exceed the benzene limit of 3,000 µg/l; the sample from boring A-3 exceeded the MTBE limit of 1,000 µg/l.	Advance soil borings adjacent to historical borings A-1 (proposed boring B-29), A-3 (proposed boring B-31) and A-4 (proposed boring B-32) to collect confirmation grab groundwater samples.	See Item 2; groundwater data will be used to determine if maximum concentrations exceed LTCP limits for Class 2.	TPHg, BTEX and fuel oxygenates.
5	Media Specific Criteria for Groundwater: Distal end of the dissolved-phase MTBE plume exceeding water quality objectives has not been determined. This data is required to meet LTCP for Groundwater, Class 2 Criteria.	Advance three soil borings (B-25, B-26 and B-27) south and southwest of the site for collection of grab groundwater samples. Borings will be advanced to first encountered groundwater (approximately 12 ft bsg). Additional step-out borings will be completed in the event samples from any of the initial borings contain concentrations of COCs above the most conservative ESLs.	Analytical data from the proposed borings will be used to determine the length of the dissolved-phase MTBE plume that exceeds the water quality objective of 5 micrograms per liter (µg/l). Currently, the plume is greater than 100 feet. If it can be shown that the plume is less than 250 feet in length, Class 2 of the LTCP for Groundwater appears to be most appropriate for the site, assuming MTBE concentrations in well MW-8 remain below 1,000 µg/l.	TPHg, BTEX and fuel oxygenates