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**Alameda County
Environmental Health**

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Re: Remedial Action Plan
Former BP Station #11132
3201 35th Avenue
Oakland, California
ACEH Case #RO0000014

ENVIRONMENTAL

"I declare that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Date:
05/28/2010

Sincerely,

ARCADIS U.S., Inc.

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GP09BPNA.C112

ARCADIS

Remedial Action Plan

Former BP Station #11132

ACEH CASE Number: RO0000014

3201 35th Avenue
Oakland, California
28 May 2010

Kristin Mancini

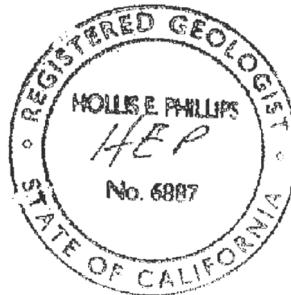
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Remedial Action Plan

Former BP Station #11132
3201 35th Avenue
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Prepared by:
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1. Introduction	1
2. Site History	1
3. Site Conditions	1
3.1 Geology	1
3.2 Hydrology and Hydrogeology	2
3.3 Groundwater and Soil	3
3.3.1 Soil	3
3.3.2 Groundwater	3
4. Proposed Remedial Activities	4
5. Aquifer Sparging and Soil Vapor Extraction Pre-Design Study	5
5.1 Objectives	5
5.2 Implementation	6
5.3 Well Design and Layout Details	6
5.4 Procedures and Performance Monitoring	8
5.5 Equipment	8
6. Schedule and Reporting	9
7. References	9

Tables

Table 1	Historical Soil Analytical Data – Petroleum Hydrocarbons
Table 2	Historical Groundwater Elevation and Analytical Data – Petroleum Hydrocarbons
Table 3	Summary of Free Product Removal

Figures

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	Cross-section A-A'
Figure 4	Cross-section B-B'

- Figure 5 Cross – section C-C'
- Figure 6 Groundwater Elevation Map – August 2009
- Figure 7 GRO Concentrations in Groundwater February 25, 2009
- Figure 8 Benzene Concentrations in Groundwater February 25, 2009
- Figure 9 MTBE Concentrations in Groundwater February 25, 2009
- Figure 10 Proposed Pre-Design Test Location
- Figure 11 Typical Air Sparge Well Construction Details
- Figure 12 Typical Vapor Extraction and Vapor Monitoring Well Details

Appendices

- Appendix A Soil Boring Logs
- Appendix B Charts- Concentration Trends Over Time

1. Introduction

ARCADIS U.S., Inc. (ARCADIS) has prepared this Remedial Action Plan (RAP) for former BP facility number 11132 located at 3201 35th Avenue, Oakland, California (the Site). The Site and surrounding area can be seen on Figure 1. This RAP summarizes the pre-design testing, remedial strategy and proposed activities for system installation, system optimization, maintenance, and performance monitoring. This RAP also includes procedures to perform a short-term air sparge/soil vapor extraction (AS/SVE) pre-design test that will be performed to confirm the design parameters summarized in this RAP. The re-design test is included in this RAP in an effort to expedite the remediation efforts for this Site.

2. Site History

The Site is an active 76-branded gas station located on the northeast corner of the intersection of 35th Avenue and Sutter Street, southwest of Interstate 580, in Oakland, California. Current facility operations consist of gasoline dispensing and retail sales by ConocoPhillips. The Site has operated as a gasoline service station since at least the early 1970's. It was acquired in 1989 from Mobil Oil Company by BP and operated under the BP brand. BP sold the station in 1994 to Tosco, which was acquired by Conoco Phillips who now operates the 76-branded station.

The leaking underground storage tanks (USTs) were removed and replaced in 1986. Product conveyance lines and fuel dispensing equipment was subsequently replaced in the 1990. Existing USTs consist of one 12,000-gallon and two 10,000-gallon double-wall fiberglass USTs. According to the station manager, these USTs contain regular unleaded, plus unleaded, and super unleaded gasoline and are equipped with an electronic leak detection system. In addition, the station personnel inventory the contents of the USTs by manually gauging the tanks. Existing and former Site features are shown on Figure 2.

3. Site Conditions

3.1 Geology

The site is situated in an alluvial plain generally underlain by Cretaceous and Jurassic metamorphic rocks of the Franciscan Complex. There is considerable spatial variation in the thickness of the Quaternary alluvial valley sediments. The alluvium has generally been derived from erosion and nearby fluvial re-deposition of the underlying

Former BP Station #11132
3201 35th Avenue
Oakland, California

Franciscan Complex. Alluvium was deposited as debris flows, mud flows, and by braided streams. The sediments are generally poorly sorted and poorly to moderately bedded (Department of Water Resources [DWR], 2003).

The Early Pleistocene Santa Clara Formation consists of alluvial fan deposits inter-fingered with lake, swamp, river channel, and flood plain deposits, ranging from 300 to 600 feet thick. The Late Pleistocene Alameda Formation was deposited primarily in an estuarine environment and consists of alluvial fan deposits bound by mud deposits on the top and bottom of the formation. The Alameda Formation ranges from 26 to 245 feet thick and is subdivided into the Yerba Buena Mud, San Antonio, Merritt, and Young Bay Mud Members. The Early Holocene Temescal Formation is an alluvial fan deposit consisting primarily of silts and clays with some gravel layers. The Temescal Formation ranges from 1 to 50 feet thick, thinning toward the bay. Below any sub-base and fill, shallow sand, silt, and clay at the site most likely are Temescal Formation.

Sediments encountered at the site consist of primarily of silty clays or clayey silts with varying amounts of sand and gravel, extending from the ground surface to the total depth investigated, approximately 45 ft below ground surface (bgs) (Broadbent and Associates, Inc. (BAI), 2008) Interbedded lenses of sandy gravelly silts and sandy gravelly clays have also been reported in subsurface soils. Boring logs are provided in Appendix A. Geologic cross-sections encompassing both on-site and off-site lithology are provided in Figures 3 through 5.

3.2 Hydrology and Hydrogeology

The site is located in the East Bay Plain Subbasin, Groundwater Basin No. 2-9.04 (DWR 2003). The East Bay Plain Subbasin is a northwest trending alluvial basin, bounded on the north by San Pablo Bay, on the east by the contact with Franciscan basement rock, and on the south by the Nile Cone Groundwater Basin. The East Bay Plain Subbasin extends beneath the San Francisco Bay to the west. The East Bay Plain Subbasin aquifer system consists of unconsolidated sediments of Quaternary age. These include the Santa Clara Formation, Alameda Formation, Temescal Formation, and artificial fill.

Groundwater is found principally within the alluvium, but also within the Franciscan bedrock. The largest and deepest wells in this sub-area historically pumped one to two million gallons per day at depths greater than 200 feet. Overall, sustainable yields are low due in part to low recharge potential. The Merritt sand in West Oakland was an

important part of the early water supply for the City of Oakland. It is shallow (up to 60 feet), but before the turn of the last century, septic systems contaminated the water supply wells (BAI, 2008).

Throughout most of the Alameda County portion of the East Bay Plain, from Hayward north to Albany, water level contours show that the general direction of ground-water flow is from east to west or from the Hayward Fault to the San Francisco Bay. Ground-water flow direction generally correlates to topography.

Groundwater depth historically varies across the site from approximately 11 to 24 ft bgs. Average seasonal fluctuations are approximately 10 feet. Historically the ground-water gradient has ranged from 0.003 ft/ft to 0.01 ft/ft. Based on ground-water elevation data, the ground-water flow direction has varied between southeast and southwest. Groundwater contour data from the most recent monitoring event conducted on August, 2009 is included on Figure 6.

3.3 Groundwater and Soil

A comprehensive summary of previous environmental investigations is presented in the report prepared by BAI titled *Site Conceptual Model with Feasibility Study Report, Former BP Station #11132*, dated July 21, 2008.

3.3.1 Soil

Soil impacts originate from historical operations relating to the former USTs. Laboratory analysis of soil samples collected from soil borings confirmed the presence of petroleum hydrocarbons in soils beneath the site at concentrations exceeding San Francisco Bay Region- Regional Water Quality Control Board (SFR-RWQCB) Environmental Screening Levels (ESLs). Historical soil data are summarized in Table 1. Cross-sections from the 2004 investigation are shown on Figure 3 through Figure 5.

3.3.2 Groundwater

The site specific clean up limits used are based on SFR-RWQCB ESLs for TPHg (100 µg/L), benzene (1 µg/L), toluene (40 µg/L), ethylbenzene (30 µg/L), xylene (20 µg/L) and methyl tertiary butyl ether (MTBE) (5 µg/L). The specific screening levels to be used for comparisons are provided on Table C of the technical document titled,

Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, dated November 2007 (Revised May 2008).

Groundwater has been sampled on a quarterly or semi-annual basis since the 1986 site investigation following the originally reported UST release. No measurable Separate phase hydrocarbon (SPH) was reported in Site wells during the first quarter 2010 monitoring event; however, sheen was observed during purging in monitoring wells MW-1, MW-2, MW-4, MW-10, and RW-1. The first quarter 2009 groundwater contour map is shown on Figure 6 and groundwater isoconcentrations for gasoline range organics (GRO), benzene, and MTBE are shown on Figure 7 through Figure 9, respectively.

Groundwater concentrations plotted over time for GRO and benzene are shown along with groundwater elevation for all wells and are presented in Appendix B. Historical groundwater elevation and chemicals-of-concern (COC) concentration data are summarized in Table 2.

Historically, measurable quantities of SPH have been detected in wells MW-1, MW-2, MW-8, MW-9, MW-10, and RW-1. Observations of the free product encountered in the wells indicate a black, heavily-degraded, grease-like material, very aged and viscous. The maximum historical thickness of SPH at the site was observed in well MW-1 at a thickness of 1.80 feet, measured on April 20, 1994. Historical free product gauging and removal data is presented in Table 3.

4. Proposed Remedial Activities

ARCADIS performed a detailed review of well boring logs which indicated that aquifer soils are comprised mostly of discontinuous fine-grained strata with some permeable sand lens. The petroleum hydrocarbons present in Site groundwater are amendable to biological and chemical oxidation. As discussed in more detail below, an air-sparging remedial approach at the Site could be appropriately engineered to ensure active oxygen delivery over the entire target treatment footprint.

Aquifer sparging relies on the active delivery of air to promote volatilization of petroleum hydrocarbon mass from the saturated zone and to provide oxygen to the subsurface to promote aerobic biodegradation of mass present in both the saturated and unsaturated zones. Because significant petroleum hydrocarbon mass is volatilized through the sparging operation, soil vapor extraction (SVE) is typically employed along with air sparging to capture vapors in the unsaturated zone that are generated through

the sparging process. The application of a subsurface vacuum through the SVE process also promotes volatilization of mass contained within the unsaturated zone. Petroleum hydrocarbons removed through SVE undergo vapor treatment above ground surface typically through carbon adsorption or catalytic oxidation. The sparging process also provides oxygen to the saturated and unsaturated portions of the subsurface, thereby promoting aerobic biodegradation of petroleum hydrocarbons.

Air is injected through the sparging process at a rate required to achieve distribution over a target radial distance. An air sparging and SVE (AS/SVE) pre-design test is completed to define the appropriate well spacing for complete coverage and treatment of the target area. The pre-design study results are then interpolated to develop a comprehensive AS/SVE remedial strategy for the site that is capable of addressing both saturated and unsaturated zone impacts through direct volatilization and enhanced aerobic biodegradation. The lower molecular weight petroleum hydrocarbons that are volatile (e.g., BTEX) will undergo volatilization and aerobic biodegradation, while the higher molecular weight and less volatile compounds (e.g., TPHg) will likely be addressed predominantly through aerobic biodegradation.

The historic trends in groundwater BTEX concentrations presented in Appendix A suggest that a portion of the petroleum hydrocarbon mass present at the Site is intermittently in communication with Site groundwater (i.e., various episodes of increasing and decreasing BTEX concentrations that correspond with decreasing and increasing water levels over time). An AS/SVE remedial strategy will address both saturated and unsaturated zone impacts. Alternative in-situ chemical oxidation strategies were also reviewed; however, this technology would provide treatment in the saturated portion of the aquifer and not provide treatment of unsaturated soils so it is not viable.

5. Aquifer Sparging and Soil Vapor Extraction Pre-Design Study

Based on the considerations provided above and a review of Site historical data, AS and SVE appear to be the most technically-viable means to achieve petroleum hydrocarbon mass removal at the Site. The following AS and SVE pre-design study is proposed to obtain site-specific engineering data for use in the design of full-scale AS and SVE systems.

5.1 Objectives

The objectives of the AS and SVE pre-design study include the following:

- Obtain required pressure or vacuum at each remediation well to achieve an effective radius of influence;
- Determine the difference in effective radius of influence (if any) between the shallow and deep vadose zone soils;
- Estimated injection and extraction flow rates;
- Determine required remedial well spacing;
- Specific frequency for aquifer sparging pulsed system operations; and,
- Mass removal estimates to determine air discharge treatment and permitting

The following section discusses in detail the methods and procedures proposed to collect the necessary engineering data during the Site pre-design study.

5.2 Implementation

A pre-design test will involve injecting air into the saturated zone within the plume and extracting vapors from the surrounding soil matrix by means of a portable air compressor and vacuum extraction blower. The proposed study location is in the vicinity of RW-1 (Figure 10) where elevated levels of benzene and petroleum hydrocarbons have been detected in groundwater. This area was also selected for the pre-design test to be able to use some of the existing site wells, MW-2 and RW-1, for collection of pre-design test field data. Pre-design well installation, procedures, and permitting requirements are discussed below.

5.3 Well Design and Layout Details

AS-1 will be installed to a total depth of approximately 40 feet, which is approximately 5-feet below the vertical extent of groundwater impacts observed at during previous site monitoring well installations and soil boring completions. AS-1 will be constructed using 2-inch diameter, Schedule 40 PVC casing from ground surface to 38 feet bgs followed by 2 feet of 0.020-inch slotted well screen from 38 to 40 feet bgs. This depth is approximately five feet below the deepest observed impacts which ensures complete coverage of the sparging system.

Former BP Station #11132
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Oakland, California

In addition, one observation well (OW-1) will be installed to collect pre-design data. OW-1 will be installed via hollow stem auger (HSA) drilling to a total depth of 40 feet bgs. OW-1 will be constructed of 2-inch diameter PVC casing from ground surface to 20 feet bgs followed by 20 feet of 0.010-inch slotted well screen from 20 to 40 feet below ground. The OW-1 well screen is intended to be completely submerged within the shallow groundwater for use during the air sparging test. The length of the screen will allow a better understanding of the preferential pathways the air travels in during sparging. The well will be profiled with either a down well dissolved oxygen (DO) meter or a camera to assess oxygen distribution. Proposed air sparge well and observation well construction details are shown in Figure 11.

VE-1 will be constructed with the screen interval extending from approximately 10 to 20 feet bgs within the smear zone. VE-1 will be constructed of 2-inch diameter Schedule 40 polyvinyl chloride (PVC) casing with 0.020-inch slotted well screen. In addition, two vapor monitoring wells, VM-1 and VM-2, will be installed at 10 and 15 feet from VE-1 to collect pre-design data. The VM wells will be constructed identical to VE-1. The proposed vapor extraction and vapor monitoring well construction details are included in Figure 11.

HSA drilling methods will be used for the well installations. Each well screen will be surrounded by a silica sand pack overlain by either approximately two feet of bentonite (OW-1, VE-1, and VM-1/2) or two feet of transition sand (AS-1). One hundred percent neat cement grout will be used to seal the upper portion of the well annulus to ground surface. The construction of the pre-design test wells will be suitable for use in the full-scale remediation system. Final well locations will be field determined based on Site features. Proposed well locations are shown in Figure 13. The full scale number and layout SVE and AS wells will be determined based on the radius of influence observed during pre-design testing. A final well layout will be proposed to Alameda County Environmental Health Department (ACEH) in an addendum to the RAP.

In compliance with local requirements, ARCADIS will submit an application for well installation to the ACEH and the City of Oakland (if wells are in the public Right-of-Way). Prior to drilling, ARCADIS will subcontract a private subsurface utilities locating firm to clear the proposed well locations of detectable subsurface obstructions. In addition, ARCADIS will notify Underground Service Alert (USA) at least 48 hours in advance of the field activities to provide adequate time for clearance of public utilities.

5.4 Procedures and Performance Monitoring

This pre-design test will provide for adequate data collection for evaluating the effectiveness of air distribution in the subsurface from the pre-design study AS well and the zone of vacuum influence generated during SVE well operation. The two day pre-design study entails two phases: (1) vacuum extraction only in vadose zones, and (2) combined air sparging with vacuum extraction. The vacuum extraction phase will be conducted for up to eight hours while various vacuum levels are applied to the SVE wellhead. The second phase will be the combined AS and SVE portion of the test, which will be conducted for approximately eight hours at varied air injection flow rates and a vacuum rate dependant on results from phase one testing.

At each step, vacuum and flow rate will be allowed to stabilize prior to moving to the next step of the pre-design test. VM-1, VM-2, and RW-1 will be used to monitor pneumatic and flow rate response from VE-1 operations. OW-1 and MW-2 will be used to monitor pneumatic response, hydraulic response and dissolved oxygen changes during AS-1 operation.

Prior to vapor phase treatment, air samples will be collected from the SVE blower effluent. Samples will be analyzed for volatile organic compounds and total petroleum hydrocarbons as gasoline by Environmental Protection Agency (EPA) Method TO-15 analysis to determine mass removal estimates and full scale vapor phase treatment requirements.

Prior to initiation of the pre-design study, the Bay Area Air Quality Management District (BAAQMD) will be notified of the two day remedial testing event.

5.5 Equipment

A portable vapor extraction and air sparging system will be mobilized to the Site for the duration of the pre-design study. The vapor extraction system will include a blower, knockout tank, two vapor phase granular activated carbon vessels, flow control valves and flow measuring device. The air sparging system will include an air compressor, pressure control valving and a pressure gauge. Mobilized equipment will be power by a rented generator. Remedial and observation wells will be equipped with the following at the top of each wellhead:

- Vacuum gauge, sample port, true union ball valve, ball valve, and threaded cap at the VE well;

Former BP Station #11132
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- Pressure gauge, ball valve and threaded cap at the AS well; and,
- Threaded caps, sample ports, and sample tubing at each observation well.

In addition, the following equipment will be used for additional data collection at remedial and observation wells: portable field organic vapor analyzer, water level indicator, and dissolved oxygen meter.

6. Schedule and Reporting

Following ACEH approval of this RAP, pre-design testing will occur within 90 days. Based on pre-design testing results, a full scale AS/SVE system will be installed to meet site specific criteria. Prior to system installation, a pre-design summary and construction drawing package with electrical line drawings, system process and instrumentation diagrams, system component layout, and piping details will be submitted for review and acceptance to ACEH. A system installation report will be submitted to ACEH following system installation detailing pre-design test results, system start-up and optimization procedures and baseline sampling analysis.

7. References

Broadbent & Associates, Inc., 2008. *Site Conceptual Model and Feasibility Study Report, Former BP Station No. 11132*, July 2008.

Broadbent & Associates, Inc., 2009. *Vapor Intrusion Assessment and Dual-Phase Extraction Pilot Test Report, Former BP Station No. 11132*, August 2009.

Broadbent & Associates, Inc., 2009. *Third Quarter 2009 Ground-Water Monitoring Report, Former BP Station #11132*. October 2009.

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San Francisco Bay Water Board, 2008. *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables, Interim Final,* May 2008.

TABLE 1
HISTORICAL SOIL ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	Sample Depth (ft bgs)	Analytes							
			Total Petroleum Hydrocarbon			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)
			Total Hydrocarbon Response (gasoline) (mg/kg)	Total Fuel Hydrocarbons (mg/kg)	Total Petroleum Hydrocarbons as Gasoline (mg/kg)					
1	4/2/1986	NA	8.0	--	--	--	--	--	--	--
1A	4/2/1986	NA	16	--	--	--	--	--	--	--
2	4/2/1986	NA	3.1	--	--	--	--	--	--	--
3	4/2/1986	NA	210	--	--	--	--	--	--	--
4	4/2/1986	NA	<1	--	--	--	--	--	--	--
5	4/2/1986	NA	<5	--	--	--	--	--	--	--
6	4/2/1986	NA	5.7	--	--	--	--	--	--	--
MW-1	9/10/1986	26.0	--	12.0	--	--	--	--	--	--
MW-2	9/10/1986	16.0/26.0	--	5.7/2.0	--	--	--	--	--	--
MW-3	9/10/1986	16.0	--	<1.0	--	--	--	--	--	--
MW-4	June 1990-July 1990	5	--	--	ND	ND	ND	ND	ND	--
MW-4	June 1990-July 1990	10	--	--	ND	ND	ND	ND	ND	--
MW-4	June 1990-July 1990	15	--	--	ND	ND	ND	ND	ND	--
MW-4	June 1990-July 1990	20	--	--	ND	ND	ND	ND	ND	--
MW-4	June 1990-July 1990	25	--	--	ND	ND	ND	ND	ND	--
RW-1	June 1990-July 1990	5	--	--	ND	ND	ND	ND	ND	--
RW-1	June 1990-July 1990	10	--	--	ND	ND	ND	ND	ND	--
RW-1	June 1990-July 1990	15	--	--	22	0.72	1.6	0.58	2.2	--
RW-1	June 1990-July 1990	20	--	--	41	ND	18	8	40	--
RW-1	June 1990-July 1990	25	--	--	50	1.4	3.3	1	5.4	--
MW-5	June 1990-July 1990	5	--	--	ND	ND	ND	ND	ND	--
MW-5	June 1990-July 1990	10	--	--	9.3	ND	0.019	ND	0.11	--
MW-5	June 1990-July 1990	15	--	--	14	0.16	0.037	0.29	0.42	--
MW-5	June 1990-July 1990	20	--	--	190	1.8	11	2.5	17	--
MW-5	June 1990-July 1990	25	--	--	770	4.8	44	13	94	--
MW-6	June 1990-July 1990	15	--	--	ND	ND	ND	ND	ND	--
MW-6	June 1990-July 1990	20	--	--	ND	ND	ND	ND	ND	--
MW-7	June 1990-July 1990	15	--	--	ND	ND	ND	ND	ND	--
D1	8/21/1990 & 8/24/1990	4.5	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--
D2	8/21/1990 & 8/24/1990	3	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--
D3	8/21/1990 & 8/24/1990	7	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--

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ACEH No.: R0000014

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			Total Petroleum Hydrocarbon			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)
			Total Hydrocarbon Response (gasoline) (mg/kg)	Total Fuel Hydrocarbons (mg/kg)	Total Petroleum Hydrocarbons as Gasoline (mg/kg)					
PT-1	8/21/1990 & 8/24/1990	3	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--
PT-2	8/21/1990 & 8/24/1990	3	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--
PT-3	8/21/1990 & 8/24/1990	4	--	--	21	0.0099	0.062	0.06	0.038	--
PT-4	8/21/1990 & 8/24/1990	3	--	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--
Comp-A	8/21/1990 & 8/31/1990	NA	--	--	8	<0.0050	0.019	0.014	0.14	--
Comp-B	8/21/1990 & 8/31/1990	NA	--	--	240	0.06	0.7	0.68	9.5	--
Comp-C	8/21/1990 & 8/31/1990	NA	--	--	6.1	<0.0050	<0.0050	0.006	0.019	--
SB-8	March 1991	10.5-11.0	--	--	<1.0	<0.003	0.004	<0.003	<0.003	--
SB-8	March 1991	20.5-21.0	--	--	390	1.8	16	6.7	37	--
SB-8	March 1991	25.5-26.0	--	--	<1.0	0.013	0.028	0.009	0.05	--
SB-9	March 1991	10.5-11.0	--	--	<1.0	<0.003	0.004	<0.003	0.006	--
SB-9	March 1991	20.5-21.0	--	--	120	1.7	7.1	1.7	11	--
SB-9	March 1991	25.5-26.0	--	--	130	0.47	3.9	1.6	12	--
SB-10	March 1991	10.5-11.0	--	--	<1.0	<0.003	0.007	<0.003	0.017	--
SB-10	March 1991	20.5-21.0	--	--	73	0.49	3.3	1.3	6.9	--
SB-10	March 1991	25.5-26.0	--	--	1	0.41	0.009	0.007	0.019	--
TPH1-S-4-4.	11/22/1994	4-4.5	--	--	ND	ND	ND	ND	ND	--
UB-1-32	7/22/2004	30	--	--	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
UB-1-32.5	7/22/2004	30.5	--	--	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
UB-3-30	7/22/2004	30	--	--	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
UB-3-30.5	7/22/2004	30.5	--	--	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
UB-4-30	7/21/2004	30	--	--	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	0.0056
UB-4-30.5	7/21/2004	30.5	--	--	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	0.018
UB-6-30	7/21/2004	30	--	--	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
UB-6-30.5	7/21/2004	30.5	--	--	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
UB-7-5	4/19/2004	5	--	--	<0.10	<0.0050	<0.0050	<0.0050	0.0055	0.0075
UB-7-15	4/19/2004	15	--	--	6.9	<0.025	<0.025	0.067	0.62	<0.025
UB-7-25	4/19/2004	25	--	--	19	<2.0	<2.0	<2.0	4.2	<2.0
UB-7-35	4/19/2004	35	--	--	<1.0	<0.025	<0.025	<0.025	<0.025	0.036
UB-7-41	4/19/2004	41	--	--	<1.0	0.0093	<0.0050	<0.0050	0.013	0.2
UB-9-5	4/19/2004	5	--	--	<1.0	0<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
UB-9-15	4/19/2004	15	--	--	<1.0	0<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
UB-9-25	4/19/2004	25	--	--	22	0<5.0	<5.0	<5.0	20	<5.0

TABLE 1
HISTORICAL SOIL ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	Sample Depth (ft bgs)	Analytes							
			Total Petroleum Hydrocarbon			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)
			Total Hydrocarbon Response (gasoline) (mg/kg)	Total Fuel Hydrocarbons (mg/kg)	Total Petroleum Hydrocarbons as Gasoline (mg/kg)					
UB-9-35	4/19/2004	35	--	--	<1.0	0.17	0.014	0.031	0.02	0.061
UB-9-42	4/19/2004	42	--	--	<1.0	0<0.0050	<0.0050	<0.0050	0.011	<0.0050
UB-10-5	4/20/2004	5	--	--	<1.0	0<0.0050	<0.0050	<0.0050	<0.0050	0.0058
UB-10-15	4/20/2004	15	--	--	72	<2.0	<2.0	<2.0	3	<2.0
UB-10-25	4/20/2004	25	--	--	820	<5.0	<5.0	5.7	37	<5.0
UB-10-35	4/20/2004	35	--	--	<1.0	0<0.0050	<0.0050	<0.0050	0.0061	0.016
UB-10-37	4/20/2004	37	--	--	<1.0	0<0.0050	<0.0050	<0.0050	0.0099	0.0062
UB-11-5	4/20/2004	5	--	--	<1.0	0<0.0050	<0.0050	<0.0050	<0.0050	0.0083
UB-11-15	4/20/2004	15	--	--	64	<2.0	<2.0	2.6	13	<2.0
UB-11-25	4/20/2004	25	--	--	<1.0	0<0.0050	<0.0050	<0.0050	<0.0050	0.0093
UB-11-35	4/20/2004	35	--	--	<1.0	0<0.0050	<0.0050	<0.0050	<0.0050	0.054
UB-11-37	4/20/2004	37	--	--	<1.0	0<0.0050	<0.0050	<0.0050	<0.0050	0.034
UB-12-5	4/19/2004	5	--	--	<1.0	0<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
UB-12-10	4/19/2004	10	--	--	<1.0	0<0.0050	<0.0050	<0.0050	0.0072	<0.0050
UB-12-15	4/19/2004	15	--	--	<1.0	0<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
UB-12-24.5	4/19/2004	24.5	--	--	<1.0	0<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Notes:

Bolded results are detections.

ft bgs = Feet below ground surface.

NA = Not available.

ND = Not detected at method detection limit; detection limit is not available.

"--" = Not analyzed.

"<" = Result was not detected above method detection limit; value presented is detection limit.

mg/kg = milligrams per kilogram.

MTBE = Methyl tert butyl ether

1) The data within this table collected prior to September 2009 was provided to ARCADIS by BAI and their previous consultants. ARCADIS has not verified the accuracy of this information.

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-1	3/7/1991	169.75	20.59	0	149.16	--	--	--	--	--	--
MW-1	4/1/1991	169.75	16.51	0.15	153.09	--	--	--	--	--	--
MW-1	7/3/1992	169.75	22.3	0.27	147.18	--	--	--	--	--	--
MW-1	10/5/1992	169.75	23.98	0.24	145.53	--	--	--	--	--	--
MW-1	1/13/1993	169.75	17.03	0.24	152.48	--	--	--	--	--	--
MW-1	4/23/1993	169.75	18.1	0.42	151.23	--	--	--	--	--	--
MW-1	7/12/1993	169.75	22.02	0.49	147.24	--	--	--	--	--	--
MW-1	10/21/1993	169.75	25.12	1.09	143.54	--	--	--	--	--	--
MW-1	1/21/1994	169.75	23.02	0.76	145.97	--	--	--	--	--	--
MW-1	4/20/1994	169.75	24.54	1.8	143.41	--	--	--	--	--	--
MW-1	8/1/1994	169.75	24.11	0.35	145.29	--	--	--	--	--	--
MW-1	12/23/1994	169.75	18.19		151.56	--	--	--	--	--	--
MW-1	1/26/1995	169.75	16.25	1.1	152.4	--	--	--	--	--	--
MW-1	6/8/1995	169.75	22.92		146.83	--	--	--	--	--	--
MW-1	8/22/1995	169.75	24.45	0.85	144.45	--	--	--	--	--	--
MW-1	10/27/1995	169.75	25.41		143.65	--	--	--	--	--	--
MW-1	1/25/1996	169.75	18.2		151.55	--	--	--	--	--	--
MW-1	4/19/1996	169.75	19.06	1.22	149.47	--	--	--	--	--	--
MW-1	7/23/1996	169.75	22.98	0.89	145.88	--	--	--	--	--	--
MW-1	11/11/1996	169.75	23.99	0.89	144.78	--	--	--	--	--	--
MW-1	1/21/1997	169.75	16.8	0.9	152.05	--	--	--	--	--	--
MW-1	4/29/1997	169.75	21.9	0.85	147	--	--	--	--	--	--
MW-1	4/30/1997				---	100000	3600	8000	4000	21300	7700
MW-1	4/30/1997				---	92000	3500	8100	4400	23800	6900
MW-1	8/21/1997	169.75	23.4		146.35	140000	3000	8500	3900	22100	5700
MW-1	8/21/1997	169.75	23.4		146.35	120000	3200	8100	3800	19600	5200
MW-1	11/5/1997	169.75	23.7		145.51	68000	6200	4400	3300	14300	8000
MW-1	11/5/1997	169.75	23.7		145.51	88000	7300	4800	3600	16900	8200
MW-1	2/3/1998	169.75	13.63	0.32	155.8	--	--	--	--	--	--
MW-1	2/4/1998				---	190000	2200	10000	5600	32000	<10,000
MW-1	2/4/1998				---	160000	2300	8400	5000	29400	<10,000
MW-1	5/28/1998	169.75	18.03	0.17	151.55	87000	980	3900	3600	19000	2900
MW-1	12/30/1998	169.75	19.5	0.08	150.17	70000	530	3200	2900	16000	3600
MW-1	2/2/1999	169.75	18.93	0.03	150.79	79000	480	3100	3500	21000	3500
MW-1	5/10/1999	169.75	18.28	0.03	151.44	110000	160	1900	3700	24000	3000
MW-1	8/24/1999	169.75	20.13	0.06	149.56	110000	850	1300	1900	19000	<50
MW-1	11/3/1999	169.75	22.27	0.36	147.12	65000	6300	1100	3300	9500	8900
MW-1	3/1/2000	169.75	14.79	0.23	154.73	--	--	--	--	--	--
MW-1	4/21/2000	169.75	18.1	0.33	151.32	61000	330	780	2700	17000	1300

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-1	7/31/2000	169.75	21.6	0.53	147.62	1500000	340	2100	24000	120000	2700
MW-1	11/20/2000	169.75	21.69	0.37	147.69	1700000	1800	2300	19000	93000	3900
MW-1	2/18/2001	169.75	16.7	0.13	152.92	--	--	--	--	--	--
MW-1	2/26/2001	169.75	14.38	0.15	155.22	100000	658	466	4210	15000	1890
MW-1	6/7/2001	169.75	20.78	0	148.97	70000	705	440	3870	12200	2720
MW-1	9/5/2001	169.75	23.36	0.35	146.04	--	--	--	--	--	--
MW-1	11/30/2001	169.75	20.85	0.41	148.49	--	--	--	--	--	--
MW-1	12/6/2001	169.75	18.72	0.27	150.76	39000	3500	237	2150	4500	5400
MW-1	2/20/2002	169.75	17.43	0.15	152.17	52000	465	271	1600	11400	106
MW-1	6/20/2002	169.75	21.18	0.34	148.23	--	--	--	--	--	--
MW-1	9/11/2002	169.75	22.86	0.4	146.49	--	--	--	--	--	--
MW-1	11/12/2002	169.75	22.65	0.37	146.73	--	--	--	--	--	--
MW-1	1/29/2003	169.75	18.15	0.3	151.3	--	--	--	--	--	--
MW-1	5/22/2003	169.75	18.49	0.2	151.06	--	--	--	--	--	--
MW-1	6/24/2003	169.75	21.44	0.35	147.96	--	--	--	--	--	--
MW-1	7/28/2003	169.75	22.72	0.35	146.68	--	--	--	--	--	--
MW-1	8/12/2003	169.75	22.64	0.23	146.88	--	--	--	--	--	--
MW-1	9/12/2003	169.75	20.7	0.24	148.81	--	--	--	--	--	--
MW-1	11/18/2003	169.75	21.7	0.25	148.25	--	--	--	--	--	--
MW-1	2/23/2004	169.75	16.34	0.09	153.48	--	--	--	--	--	--
MW-1	5/4/2004	169.75	21.28	0.16	148.6	--	--	--	--	--	--
MW-1	8/4/2004	169.75	22.54	0.1	147.29	--	--	--	--	--	--
MW-1	9/22/2004	169.75	22.76	0.2	147.15	--	--	--	--	--	--
MW-1	11/10/2004	169.75	20.19	0.14	149.67	--	--	--	--	--	--
MW-1	1/13/2005	169.75	14.58	0.03	155.19	--	--	--	--	--	--
MW-1	2/15/2005	169.75	16.13	0.04	153.65	--	--	--	--	--	--
MW-1	3/7/2005	169.75	13.31	0.01	156.45	--	--	--	--	--	--
MW-1	5/16/2005	169.75	15.74	0.02	154.03	--	--	--	--	--	--
MW-1	8/17/2005	169.75	21.15	0.08	148.66	--	--	--	--	--	--
MW-1	11/18/2005	169.75	20.15		149.6	--	--	--	--	--	--
MW-1	2/7/2006	169.75	15.19	0.01	154.57	--	--	--	--	--	--
MW-1	5/19/2006	169.75	17.42		152.33	44000	73	510	3300	5300	86
MW-1	8/23/2006	169.75	22.01	0.14	147.74	--	--	--	--	--	--
MW-1	11/15/2006	169.75	21.98	0.18	147.77	--	--	--	--	--	--
MW-1	2/14/2007	169.75	17.12	0.17	152.63	--	--	--	--	--	--
MW-1	5/22/2007	169.75	19.49	0.01	150.26	--	--	--	--	--	--
MW-1	8/15/2007	169.75	22.24	0.01	147.51	--	--	--	--	--	--
MW-1	11/8/2007	169.75	21.84	0.01	147.91	--	--	--	--	--	--

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-1	2/20/2008	169.75	16.52	0.02	153.23	--	--	--	--	--	--
MW-1	5/7/2008	169.75	20.91	0.02	148.84	--	--	--	--	--	--
MW-1	8/20/2008	169.75	22.77	0.02	146.98	--	--	--	--	--	--
MW-1	11/17/2008	169.75	22.05		147.7	27000	780	30	1800	1400	590
MW-1	2/25/2009	169.75	15.28	0.02	154.47	--	--	--	--	--	--
MW-1	4/8/2009	169.75	18.18		151.57	--	--	--	--	--	--
MW-1	5/28/2009	169.75	19.62	0.01	150.13	--	--	--	--	--	--
MW-1	6/16/2009	169.75	20.94	0.01	148.81	--	--	--	--	--	--
MW-1	8/6/2009	169.75	22.31	0.01	147.44	--	--	--	--	--	--
MW-2	3/7/1991	168.14	19.18		148.96	--	--	--	--	--	--
MW-2	4/1/1991	168.14	15.21		152.93	--	--	--	--	--	--
MW-2	7/3/1992	168.14	20.93		147.21	--	--	--	--	--	--
MW-2	10/5/1992	168.14	22.74		145.4	--	--	--	--	--	--
MW-2	1/13/1993	168.14	15.55		152.59	--	--	--	--	--	--
MW-2	4/23/1993	168.14	16.54		151.6	--	--	--	--	--	--
MW-2	7/12/1993	168.14	20.46		147.68	--	--	--	--	--	--
MW-2	10/21/1993	168.14	24.91		143.23	--	--	--	--	--	--
MW-2	1/21/1994	168.14	21.2		146.94	--	--	--	--	--	--
MW-2	4/20/1994	168.14	22.44		145.7	1800	140	370	54	290	24
MW-2	8/1/1994	168.14	22.24		145.9	--	--	--	--	--	--
MW-2	12/23/1994	168.14	16.25		151.89	--	--	--	--	--	--
MW-2	1/26/1995	168.14	14.55		153.59	--	--	--	--	--	--
MW-2	6/8/1995	168.14	21.18		146.96	--	--	--	--	--	--
MW-2	8/22/1995	168.14	22.76		145.38	--	--	--	--	--	--
MW-2	10/27/1995	168.14	23.61		144.53	--	--	--	--	--	--
MW-2	1/25/1996	168.14	15.95		152.19	--	--	--	--	--	--
MW-2	4/19/1996	168.14	17.33		150.81	--	--	--	--	--	--
MW-2	7/23/1996	168.14	21.25		146.89	--	--	--	--	--	--
MW-2	11/11/1996	168.14	22.27		145.87	--	--	--	--	--	--
MW-2	1/21/1997	168.14	15.19		152.95	--	--	--	--	--	--
MW-2	4/29/1997	168.14	20.22		147.92	--	--	--	--	--	--
MW-2	4/30/1997				---	130000	4600	15000	6000	37000	<5,000
MW-2	8/21/1997	168.14	21.74		146.4	110000	6000	16000	4700	28000	<500
MW-2	11/5/1997	168.14	21.61		146.53	120000	7800	18000	4900	28100	<2,500
MW-2	2/3/1998	168.14	11.51		156.63	75000	590	1500	1800	12800	<2,500
MW-2	5/28/1998	168.14	16.51		151.63	79000	3900	3100	3100	18000	900
MW-2	12/30/1998	168.14	17.7		150.44	95000	4700	3500	3700	21000	<250
MW-2	2/2/1999	168.14	15.46		152.68	170000	3500	1500	5200	34000	<500
MW-2	5/10/1999	168.14	16.52		151.62	84000	3200	3200	3700	20000	75

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-2	8/24/1999	168.14	20.73		147.41	130000	9100	9200	4700	27000	<250
MW-2	11/3/1999	168.14	20.93		147.21	120000	10000	21000	4700	30200	2200
MW-2	3/1/2000	168.14	13.37		154.77	39000	1400	1500	1700	8100	44
MW-2	4/21/2000	168.14	16.59		151.55	68000	3300	2500	3100	20000	260
MW-2	7/31/2000	168.14	16.37		151.77	99000	5600	1400	4300	22000	490
MW-2	11/20/2000	168.14	19.71		148.43	37000	5100	1500	1300	4800	2800
MW-2	2/18/2001	168.14	15.29		152.85	54000	5020	3880	2850	15400	1010
MW-2	6/7/2001	168.14	19.43		148.71	110000	7240	4380	4160	22100	567
MW-2	9/5/2001	168.14	22.44		145.7	69000	5750	5790	2770	14200	1510
MW-2	11/30/2001	168.14	19.58		148.56	120000	7270	6540	4590	23000	794
MW-2	2/20/2002	168.14	16.39		151.75	56000	2410	2270	2910	14300	160
MW-2	6/20/2002	168.14	19.77		148.37	86000	7310	6490	3080	14600	659
MW-2	9/11/2002	168.14	21.6		146.54	130000	7600	13000	5400	30000	<5,000
MW-2	11/12/2002	168.14	21.34		146.8	46000	4100	4300	1900	10000	1900
MW-2	1/29/2003	168.14	16.8		151.34	77000	4700	2600	2800	13000	820
MW-2	5/22/2003	168.14	17.15		150.99	52000	6400	2600	1800	7400	1000
MW-2	7/28/2003	168.14	21.47		146.67	31000	6900	5500	2200	12000	1700
MW-2	11/18/2003	168.14	20.5		147.64	23000	3300	800	500	2000	500
MW-2	2/23/2004	168.14	14.77		153.37	84000	14000	6200	3100	14000	790
MW-2	5/4/2004	168.14	20.09		148.05	120000	15000	17000	4900	24000	780
MW-2	8/4/2004	168.14	21.39		146.75	38000	9100	3300	1900	5800	430
MW-2	11/10/2004	168.14	18.98		149.16	22000	4400	2000	940	3600	310
MW-2	2/15/2005	168.14	15.62		152.52	67000	11000	4200	3000	11000	690
MW-2	5/16/2005	168.14	14.71		153.43	94000	11000	7600	4100	17000	560
MW-2	8/17/2005	168.14	20		148.14	110000	13000	8000	4300	18000	480
MW-2	11/18/2005	168.14	20.89		147.25	37000	11000	2400	1500	4600	340
MW-2	2/7/2006	168.14	13.31		154.83	74000	8900	5800	3600	14000	440
MW-2	5/19/2006	168.14	16.3		151.84	78000	11000	3700	4500	14000	430
MW-2	8/23/2006	168.14	20.83		147.31	100000	12000	9100	5800	25000	480
MW-2	11/15/2006	168.14	20.8		147.34	46000	8800	3600	2300	8500	400
MW-2	2/14/2007	168.14	15.96	SHEEN	152.18	100000	13000	3600	6200	26000	810
MW-2	5/22/2007	168.14	18.2		149.94	91000	15000	8700	4700	20000	1000
MW-2	8/15/2007	168.14	21.23	SHEEN	146.91	14000	7300	130	280	600	260
MW-2	11/8/2007	168.14	20.32		147.82	22000	7400	420	640	1700	240
MW-2	2/20/2008	168.14	15.2	0.06	152.94	--	--	--	--	--	--
MW-2	5/7/2008	168.14	19.8	0.04	148.34	--	--	--	--	--	--
MW-2	8/20/2008	168.14	21.7	0.01	146.44	--	--	--	--	--	--
MW-2	11/17/2008	168.14	20.73		147.41	45000	8400	700	1500	5600	320
MW-2	2/25/2009	168.14	14.15		153.99	18000	5200	<250	380	1400	<250

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-2	4/8/2009	168.14	17		151.14	--	--	--	--	--	--
MW-2	5/28/2009	168.14	18.43	SHEEN	149.71	37000	5300	1600	1400	5600	510
MW-2	6/16/2009	168.14	19.8	0.01	148.34	--	--	--	--	--	--
MW-2	8/6/2009	168.14	21.17	0.01	146.97	--	--	--	--	--	--
MW-3	7/9/1990				---	140	5.3	4.6	2	3.8	--
MW-3	12/21/1990				---	0.19	100	6	0.9	27	--
MW-3	3/7/1991	167.17	17.4		149.77	0.4	69	22	6.1	57	--
MW-3	4/1/1991	167.17	13.69		153.48	--	--	--	--	--	--
MW-3	6/27/1991				---	380	28	26	13	46	--
MW-3	9/27/1991				---	0.07	7.9	--	0.4	1.1	--
MW-3	12/18/1991				---	0.26	34	24	0.8	28	--
MW-3	7/3/1992	167.17	19.59		147.58	71	9.4	0.9	5	13	--
MW-3	10/5/1992	167.17	21.22		145.95	67	5.1	1.1	6.1	8.1	--
MW-3	10/5/1992	167.17	21.22		145.95	<50	2.2	<0.5	1.5	2.8	--
MW-3	1/13/1993	167.17	13.63		153.54	830	50	34	42	89	--
MW-3	4/23/1993	167.17	15.02		152.15	<50	<0.5	<0.5	<0.5	<0.5	--
MW-3	4/23/1993	167.17	15.02		152.15	<50	<0.5	<0.5	<0.5	<0.5	--
MW-3	7/12/1993	167.17	19.16		148.01	250	12	4.2	12	16	<5.0
MW-3	10/21/1993	167.17	21.81		145.36	52	4.4	1.4	4.7	3.3	<5.0
MW-3	10/21/1993	167.17	21.81		145.36	65	7.4	1	6.9	4.2	--
MW-3	1/21/1994	167.17	19.94		147.23	57	3	3.4	3.6	9	<5.0
MW-3	4/20/1994	167.17	20.24		146.93	600	26	23	33	88	28.7
MW-3	8/1/1994	167.17	20.74		146.43	99	6.2	1.1	4.5	5.2	<5.0
MW-3	8/1/1994	167.17	20.74		146.43	120	7.7	1.6	5.9	6.7	5.43
MW-3	12/23/1994	167.17	14.7		152.47	<50	<0.5	0.78	<0.5	<0.5	9.8
MW-3	12/23/1994	167.17	14.7		152.47	<50	<0.5	<0.5	<0.5	<0.5	--
MW-3	1/26/1995	167.17	12.89		154.28	190	16	0.5	35	24	--
MW-3	6/8/1995	167.17	19.95		147.22	330	21	4	34	32	--
MW-3	8/22/1995	167.17	21.41		145.76	150	14	<0.50	<0.50	1.6	<5.0
MW-3	10/27/1995	167.17	22.43		144.74	--	--	--	--	--	--
MW-3	10/30/1995				---	51	2.4	<0.50	<0.50	<1.0	<5.0
MW-3	1/25/1996	167.17	14.03		153.14	<50	<0.50	<0.50	<0.50	<1.0	5.1
MW-3	4/19/1996	167.17	15.26		151.91	460	55	4	33	63	<10
MW-3	7/23/1996	167.17	19.19		147.98	<50	<0.5	<0.5	<0.5	<0.5	<10
MW-3	11/11/1996	167.17	20.24		146.93	<250	<2.5	<5.0	<5.0	<5.0	<50
MW-3	1/21/1997	167.17	13.09		154.08	<50	<0.5	<1.0	<1.0	<1.0	<10
MW-3	4/29/1997	167.17	18.14		149.03	<50	<0.5	<1.0	<1.0	<1.0	<10
MW-3	8/21/1997	167.17	19.64		147.53	<50	<0.5	<1.0	<1.0	<1.0	<10
MW-3	11/5/1997	167.17	19.95		147.22	<250	<2.5	<5.0	<5.0	<5.0	<50

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-3	2/3/1998	167.17	10.57		156.6	<50	<0.50	<1.0	<1.0	<1.0	<10
MW-3	5/28/1998	167.17	14.65		152.52	330	<2.5	<5.0	<5.0	<5.0	<50
MW-3	12/30/1998	167.17	16.63		150.54	--	--	--	--	--	--
MW-3	2/2/1999	167.17	13.12		154.05	<250	<5.0	<5.0	<5.0	<5.0	<5.0
MW-3	5/10/1999	167.17	14.21		152.96	--	--	--	--	--	--
MW-3	8/24/1999	167.17	14.36		152.81	--	--	--	--	--	--
MW-3	11/3/1999	167.17	19.21		147.96	--	--	--	--	--	--
MW-3	3/1/2000	167.17	15.17		152	<50	<0.5	0.57	<0.5	0.62	<0.5
MW-3	4/21/2000	167.17	14.88		152.29	--	--	--	--	--	--
MW-3	7/31/2000	167.17	15.29		151.88	--	--	--	--	--	--
MW-3	11/20/2000	167.17	17.31		149.86	--	--	--	--	--	--
MW-3	2/18/2001	167.17	12.85		154.32	160	1.95	1.31	10.2	9.09	1
MW-3	6/7/2001	167.17	18		149.17	--	--	--	--	--	--
MW-3	9/5/2001	167.17	20.32		146.85	--	--	--	--	--	--
MW-3	11/30/2001	167.17	16.94		150.23	--	--	--	--	--	--
MW-3	2/20/2002	167.17	14.84		152.33	86	<0.5	0.845	6.58	5.75	<0.5
MW-3	6/20/2002	167.17	18.4		148.77	--	--	--	--	--	--
MW-3	9/11/2002	167.17	20.06		147.11	--	--	--	--	--	--
MW-3	11/12/2002	167.17	19.84		147.33	--	--	--	--	--	--
MW-3	1/27/2003	167.17	14.83		152.34	850	20	9.7	24	45	0.76
MW-3	1/29/2003				---	--	--	--	--	--	0.76
MW-3	5/22/2003	167.17	15.6		151.57	--	--	--	--	--	--
MW-3	7/28/2003	167.17	20.12		147.05	--	--	--	--	--	--
MW-3	11/18/2003	167.17	19.15		148.02	--	--	--	--	--	--
MW-3	2/23/2004	167.17	13.53		153.64	160	<0.50	1.1	9.6	12	<0.50
MW-3	5/4/2004	167.17	18.61		148.56	--	--	--	--	--	--
MW-3	8/4/2004	167.17	19.21		147.96	--	--	--	--	--	--
MW-3	11/10/2004	167.17	17.48		149.69	--	--	--	--	--	--
MW-3	2/15/2005	167.17	14.31		152.86	500	7.8	1.8	9.2	9.6	1.7
MW-3	5/16/2005	167.17	13.11		154.06	--	--	--	--	--	--
MW-3	8/17/2005	167.17	18.53		148.64	--	--	--	--	--	--
MW-3	11/18/2005	167.17	19.34		147.83	--	--	--	--	--	--
MW-3	2/7/2006	167.17	11.64		155.53	65	<0.50	<0.50	1.4	2.3	<0.50
MW-3	5/19/2006	167.17	14.88		152.29	--	--	--	--	--	--
MW-3	8/23/2006	167.17	19.43		147.74	--	--	--	--	--	--
MW-3	11/15/2006	167.17	19.22		147.95	--	--	--	--	--	--
MW-3	2/14/2007	167.17	13.8		153.37	200	1.1	<0.50	5.9	3.2	3.8
MW-3	5/22/2007	167.17	16.8		150.37	--	--	--	--	--	--

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-3	8/15/2007	167.17	19.87		147.3	--	--	--	--	--	--
MW-3	11/8/2007	167.17	19.27		147.9	--	--	--	--	--	--
MW-3	2/20/2008	167.17	13.58		153.59	240	1.1	<0.50	0.99	0.79	2.3
MW-3	5/7/2008	167.17	18.32		148.85	--	--	--	--	--	--
MW-3	8/20/2008	167.17	20.29		146.88	--	--	--	--	--	--
MW-3	11/17/2008	167.17	19.35		147.82	--	--	--	--	--	--
MW-3	2/25/2009	167.17	11.77		155.4	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-3	5/28/2009	167.17	17.02		150.15	--	--	--	--	--	--
MW-3	8/6/2009	167.17	19.87		147.3	--	--	--	--	--	--
MW-4	12/21/1990				---	--	--	--	--	0.8	--
MW-4	3/7/1991	170.36	20.72		149.64	--	2.2	3.8	1.5	2.8	--
MW-4	4/1/1991	170.36	17.49		152.87	--	--	--	--	--	--
MW-4	6/27/1991				---	--	6.3	1.8	0.4	1	--
MW-4	7/3/1992	170.36	22.16		148.2	<50	<0.5	<0.5	<0.5	<0.5	--
MW-4	10/5/1992	170.36	23.38		146.98	<50	<0.5	<0.5	<0.5	<0.5	--
MW-4	1/13/1993	170.36	17.58		152.78	<50	<0.5	<0.5	<0.5	<0.5	--
MW-4	4/23/1993	170.36	15.72		154.64	<50	<0.5	<0.5	<0.5	<0.5	--
MW-4	7/12/1993	170.36	21.74		148.62	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-4	10/21/1993	170.36	23.84		146.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-4	1/21/1994	170.36	22.42		147.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-4	4/20/1994	170.36	22.66		147.7	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-4	8/1/1994	170.36	23.01		147.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-4	12/23/1994	170.36	17.03		153.33	--	--	--	--	--	--
MW-4	1/26/1995	170.36	17.42		152.94	<50	<0.5	<0.5	<0.5	<1	--
MW-4	6/8/1995	170.36	21.55		148.81	--	--	--	--	--	--
MW-4	8/22/1995	170.36	23.47		146.89	<50	<0.50	<0.50	<0.50	<1.0	<5.0
MW-4	10/27/1995	170.36	24.5		145.86	--	--	--	--	--	--
MW-4	1/25/1996	170.36	18.74		151.62	<50	<0.50	<0.50	<0.50	<1.0	58
MW-4	4/19/1996	170.36	18.63		151.73	--	--	--	--	--	--
MW-4	7/23/1996	170.36	22.56		147.8	--	--	--	--	--	--
MW-4	11/11/1996	170.36	23.63		146.73	<50	<1.0	<1.0	<1.0	<1.0	34
MW-4	1/21/1997	170.36	16.59		153.77	--	--	--	--	--	--
MW-4	4/29/1997	170.36	21.43		148.93	<50	<0.5	<1.0	<1.0	<1.0	<10
MW-4	8/21/1997	170.36	22.91		147.45	--	--	--	--	--	--
MW-4	11/5/1997	170.36	22.34		148.02	60	<0.5	<1.0	<1.0	<1.0	76
MW-4	2/3/1998	170.36	12.26		158.1	--	--	--	--	--	--
MW-4	5/28/1998	170.36	18.5		151.86	70	<0.5	<1.0	<1.0	<1.0	160
MW-4	12/30/1998	170.36	19.69		150.67	--	--	--	--	--	--
MW-4	2/2/1999	170.36	18.26		152.1	70	<1.0	<1.0	<1.0	<1.0	130
MW-4	5/10/1999	170.36	17.86		152.5	--	--	--	--	--	--

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-4	8/24/1999	170.36	17.93		152.43	--	--	--	--	--	--
MW-4	11/3/1999	170.36	22.78		147.58	--	--	--	--	--	--
MW-4	3/1/2000	170.36	18.04		152.32	<50	<0.5	0.67	<0.5	0.7	110
MW-4	4/21/2000	170.36	17.36		153	--	--	--	--	--	--
MW-4	7/31/2000	170.36	17.83		152.53	--	--	--	--	--	--
MW-4	11/20/2000	170.36	18.91		151.45	--	--	--	--	--	--
MW-4	2/18/2001	170.36	17.72		152.64	88	<0.5	<0.5	<0.5	<0.5	97.3
MW-4	6/7/2001	170.36	20.23		150.13	--	--	--	--	--	--
MW-4	9/5/2001	170.36	22.76		147.6	--	--	--	--	--	--
MW-4	11/30/2001	170.36	21.3		149.06	--	--	--	--	--	--
MW-4	2/20/2002	170.36	19.32		151.04	76	<0.5	<0.5	<0.5	<1.0	81
MW-4	6/20/2002	170.36	20.71		149.65	--	--	--	--	--	--
MW-4	9/11/2002	170.36	22.22		148.14	--	--	--	--	--	--
MW-4	11/12/2002	170.36	22.22		148.14	--	--	--	--	--	--
MW-4	1/29/2003	170.36	19.8		150.56	100	<0.5	<0.5	<0.5	<0.5	66
MW-4	5/22/2003	170.36	19.35		151.01	--	--	--	--	--	--
MW-4	7/28/2003	170.36	22.18		148.18	--	--	--	--	--	--
MW-4	11/18/2003	170.36	21.65		148.71	--	--	--	--	--	--
MW-4	2/23/2004	170.36	17.53		152.83	75	<0.50	<0.50	<0.50	<0.50	65
MW-4	5/4/2004	170.36	20.62		149.74	--	--	--	--	--	--
MW-4	8/4/2004	170.36	21.3		149.06	--	--	--	--	--	--
MW-4	11/10/2004	170.36	20.65		149.71	--	--	--	--	--	--
MW-4	2/15/2005	170.36	18.91		151.45	<50	<0.50	<0.50	<0.50	<0.50	62
MW-4	5/16/2005	170.36	17.34		153.02	--	--	--	--	--	--
MW-4	8/17/2005	170.36	21.31		149.05	--	--	--	--	--	--
MW-4	11/18/2005	170.36	21.67		148.69	--	--	--	--	--	--
MW-4	2/7/2006	170.36	16.74		153.62	100	<0.50	<0.50	1	3	29
MW-4	5/19/2006	170.36	18.22		152.14	--	--	--	--	--	--
MW-4	8/23/2006	170.36	20.95		149.41	--	--	--	--	--	--
MW-4	11/15/2006	170.36	22.21		148.15	--	--	--	--	--	--
MW-4	2/14/2007	170.36	18.25		152.11	<50	<0.50	<0.50	<0.50	<0.50	61
MW-4	5/22/2007	170.36	20.16		150.2	--	--	--	--	--	--
MW-4	8/15/2007	170.36	22.34		148.02	--	--	--	--	--	--
MW-4	11/8/2007	170.36	21.86		148.5	--	--	--	--	--	--
MW-4	2/20/2008	170.36	17.74		152.62	<50	<0.50	<0.50	<0.50	<0.50	36
MW-4	5/7/2008	170.36	21.38		148.98	--	--	--	--	--	--
MW-4	8/20/2008	170.36	22.44		147.92	--	--	--	--	--	--
MW-4	11/17/2008	170.36	22.2		148.16	--	--	--	--	--	--
MW-4	2/25/2009	170.36	16.81		153.55	<50	<0.50	<0.50	<0.50	<0.50	26
MW-4	5/28/2009	170.36	20.37		149.99	--	--	--	--	--	--
MW-4	8/6/2009	170.36	22.46		147.9	--	--	--	--	--	--

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-5	7/9/1990				---	280	200	210	46	290	--
MW-5	12/21/1990				---	0.69	300	34	8.4	39	--
MW-5	3/7/1991	165.14	16.6		148.54	--	17	0.9	0.7	1.6	--
MW-5	4/1/1991	165.14	11.99		153.15	800	250	54	11	60	--
MW-5	6/27/1991				---	330	120	10	12	8	--
MW-5	9/27/1991				---	0.73	230	16	20	22	--
MW-5	7/3/1992	165.14	18.65		146.49	150	36	<0.5	<0.5	1.1	--
MW-5	10/5/1992	165.14	20.32		144.82	270	79	4	1.7	2.9	--
MW-5	1/13/1993	165.14	13.03		152.11	180	59	6	1.8	7.6	--
MW-5	4/23/1993	165.14	13.51		151.63	8700	440	96	35	136	--
MW-5	7/12/1993	165.14	18.06		147.08	250	57	2.9	2.1	6	<5.0
MW-5	10/21/1993	165.14	20.41		144.73	210	82	1.5	<0.5	1.4	--
MW-5	1/21/1994	165.14	18.86		146.28	110	36	1.2	<0.5	0.7	<5.0
MW-5	4/20/1994	165.14	17.3		147.84	690	230	4.5	1.6	11	21.2
MW-5	8/1/1994	165.14	17.53		147.61	170	44	1.6	0.9	2.7	<5.0
MW-5	12/23/1994	165.14	11.63		153.51	630	180	1.9	0.66	1.9	7.81
MW-5	1/26/1995	165.14	11.25		153.89	160	68	<0.5	<0.5	22	--
MW-5	6/8/1995	165.14	16.8		148.34	2000	630	58	61	180	--
MW-5	6/8/1995	165.14	16.8		148.34	1700	560	51	55	170	--
MW-5	8/22/1995	165.14	19.02		146.12	3700	1100	18	27	59	<130
MW-5	10/27/1995	165.14	20.94		144.2	--	--	--	--	--	--
MW-5	10/30/1995				---	6500	2200	55	180	270	<250
MW-5	1/25/1996	165.14	13.3		151.84	590	37	0.7	<0.50	<1.0	<5.0
MW-5	1/25/1996	165.14	13.3		151.84	540	37	0.66	<0.50	<1.0	<5.0
MW-5	4/19/1996	165.14	13.63		151.51	1500	470	38	49	210	<50
MW-5	7/23/1996	165.14	17.61		147.53	140	4.6	<0.5	<0.5	<0.5	<10
MW-5	11/11/1996	165.14	18.7		146.44	140	40	<1.0	<1.0	<1.0	<10
MW-5	1/21/1997	165.14	11.63		153.51	730	300	<5.0	7.8	26	<50
MW-5	4/29/1997	165.14	16.74		148.4	340	530	<5.0	<5.0	<5.0	<50
MW-5	8/21/1997	165.14	18.26		146.88	<50	<0.5	<1.0	<1.0	<1.0	<10
MW-5	11/5/1997	165.14	18.84		146.3	120	13	<1.0	<1.0	<1.0	<10
MW-5	2/3/1998	165.14	9.49		155.65	<50	<0.50	<1.0	<1.0	<1.0	<10
MW-5	5/28/1998	165.14	13.57		151.57	4900	1500	34	180	311	<10
MW-5	12/30/1998	165.14	14.65		150.49	--	--	--	--	--	--
MW-5	2/2/1999	165.14	12.56		152.58	100	<1.0	<1.0	<1.0	<1.0	9.1
MW-5	5/10/1999	165.14	13.36		151.78	--	--	--	--	--	--
MW-5	8/24/1999	165.14	13.5		151.64	--	--	--	--	--	--
MW-5	11/3/1999	165.14	18.48		146.66	--	--	--	--	--	--
MW-5	3/1/2000	165.14	9.59		155.55	<50	<0.5	0.58	<0.5	0.54	2.9

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-5	4/21/2000	165.14	13.52		151.62	--	--	--	--	--	--
MW-5	7/31/2000	165.14	14.04		151.1	--	--	--	--	--	--
MW-5	11/20/2000	165.14	15.89		149.25	--	--	--	--	--	--
MW-5	2/18/2001	165.14	11.88		153.26	560	161	2.38	6.11	13	5.67
MW-5	6/7/2001	165.14	15.3		149.84	--	--	--	--	--	--
MW-5	9/5/2001	165.14	19.32		145.82	--	--	--	--	--	--
MW-5	11/30/2001	165.14	17.44		147.7	--	--	--	--	--	--
MW-5	2/20/2002	165.14	13.88		151.26	4200	940	18.7	98.2	176	55.6
MW-5	6/20/2002	165.14	16.2		148.94	--	--	--	--	--	--
MW-5	9/11/2002	165.14	19.15		145.99	--	--	--	--	--	--
MW-5	11/12/2002	165.14	19.01		146.13	390	55	0.89	3.4	3.5	210
MW-5	1/29/2003	165.14	16.33		148.81	7900	1400	34	220	350	82
MW-5	5/22/2003	165.14	14.35		150.79	9900	2300	91	400	690	<50
MW-5	7/28/2003	165.14	18.9		146.24	3200	690	14	81	100	120
MW-5	2/23/2004	165.14	12.21		152.93	7500	1500	100	190	350	100
MW-5	5/4/2004	165.14	17.12		148.02	5900	1500	57	200	280	42
MW-5	8/4/2004	165.14	19.05		146.09	<2,500	<25	<25	<25	<25	390
MW-5	11/10/2004	165.14	16.95		148.19	870	80	<5.0	<5.0	<5.0	530
MW-5	2/15/2005	165.14	12.75		152.39	1600	330	8	37	67	260
MW-5	5/16/2005	165.14	15.46		149.68	<500	<5.0	<5.0	<5.0	<5.0	370
MW-5	8/17/2005	165.14	17.00		148.14	7,000	1,000	17	110	130	51
MW-5	11/18/2005	165.14	18.33		146.81	1,900	91	<5.0	33	29	340
MW-5	2/7/2006	165.14	10.27		154.87	2,100	590	9.6	86	110	200
MW-5	5/19/2006	165.14	13.08		152.06	3,200	720	9.7	150	170	44
MW-5	8/23/2006	165.14	17.02		148.12	1,400	69	<5.0	20	24	230
MW-5	11/15/2006	165.14	18.30		146.84	1,100	24	<2.5	10	8.6	490
MW-5	2/14/2007	165.14	13.16		151.98	680	110	<2.5	16	11	420
MW-5	5/22/2007	165.14	15.42		149.72	2,800	660	8.8	74	100	26
MW-5	8/15/2007	165.14	18.80		146.34	2,800	50	<10	26	29	280
MW-5	11/8/2007	165.14	18.55	SHEEN	146.59	3,800	77	<2.5	46	35	270
MW-5	2/20/2008	165.14	12.21		152.93	2,500	530	<5.0	75	62	43
MW-5	5/7/2008	165.14	16.91		148.23	6,700	1,800	29	270	360	30
MW-5	8/20/2008	165.14	19.45		145.69	300	22	<2.0	8.5	5.3	260
MW-5	2/25/2009	165.14	11.12		154.02	140	6.4	<0.50	2.4	3.1	68
MW-5	5/28/2009	165.14	15.70		149.44	3,800	790	9.5	140	110	11
MW-5	8/6/2009	165.14	18.84	SHEEN	146.30	78	<5.0	<5.0	<5.0	<5.0	190

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-6	12/21/1990				---	0.17	2.6	7	4.9	26	--
MW-6	4/1/1991	165.40	11.79		153.61	--	--	--	--	--	--
MW-6	12/18/1991				---	--	1.3	22	--	2.7	--
MW-6	7/3/1992	165.40	17.77		147.63	<50	<0.5	<0.5	<0.5	<0.5	--
MW-6	10/5/1992	165.40	19.46		145.94	<50	<0.5	<0.5	<0.5	<0.5	--
MW-6	1/13/1993	165.40	11.34		154.06	<50	<0.5	<0.5	<0.5	<0.5	--
MW-6	4/23/1993	165.40	12.92		152.48	<50	<0.5	<0.5	<0.5	<0.5	--
MW-6	7/12/1993	165.40	17.36		148.04	<50	<0.5	<0.5	<0.5	0.7	<5.0
MW-6	10/21/1993	165.40	19.98		145.42	<50	<0.5	<0.5	<0.5	<0.5	--
MW-6	1/21/1994	165.40	18.10		147.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-6	4/20/1994	165.40	18.68		146.72	<50	<0.5	<0.5	<0.5	<0.5	17.4
MW-6	8/1/1994	165.40	18.90		146.50	<50	<0.5	<0.5	<0.5	<0.5	8.66
MW-6	12/23/1994	165.40	12.94		152.46	--	--	--	--	--	--
MW-6	1/26/1995	165.40	10.46		154.94	<50	<0.5	<0.5	<0.5	<1	--
MW-6	6/8/1995	165.40	16.84		148.56	--	--	--	--	--	--
MW-6	8/22/1995	165.40	19.48		145.92	<50	<0.50	<0.50	<0.50	<1.0	<5.0
MW-6	10/27/1995	165.40	20.39		145.01	--	--	--	--	--	--
MW-6	1/25/1996	165.40	12.24		153.16	<50	<0.50	<0.50	<0.50	<1.0	9.9
MW-6	4/19/1996	165.40	13.90		151.50	--	--	--	--	--	--
MW-6	7/23/1996	165.40	17.83		147.57	--	--	--	--	--	--
MW-6	11/11/1996	165.40	18.90		146.50	<50	<0.5	<1.0	<1.0	<1.0	<10
MW-6	1/21/1997	165.40	11.97		153.43	--	--	--	--	--	--
MW-6	4/29/1997	165.40	17.04		148.36	<50	<0.5	<1.0	<1.0	<1.0	<10
MW-6	8/21/1997	165.40	18.58		146.82	--	--	--	--	--	--
MW-6	11/5/1997	165.40	19.17		146.23	70	<0.5	<1.0	<1.0	<1.0	85
MW-6	2/3/1998	165.40	9.87		155.53	--	--	--	--	--	--
MW-6	5/28/1998	165.40	13.38		152.02	<50	<0.5	<1.0	<1.0	<1.0	<10
MW-6	12/30/1998	165.40	14.45		150.95	--	--	--	--	--	--
MW-6	2/2/1999	165.40	18.29		147.11	--	--	--	--	--	--
MW-6	5/10/1999	165.40	17.49		147.91	--	--	--	--	--	--
MW-6	8/24/1999	165.40	17.61		147.79	--	--	--	--	--	--
MW-6	11/3/1999	165.40	16.26		149.14	--	--	--	--	--	--
MW-6	3/1/2000	165.40	17.43		147.97	--	--	--	--	--	--
MW-6	4/21/2000	165.40	13.32		152.08	--	--	--	--	--	--
MW-6	7/31/2000	165.40	13.46		151.94	--	--	--	--	--	--
MW-6	11/20/2000	165.40	14.78		150.62	--	--	--	--	--	--
MW-6	2/18/2001	165.40	11.33		154.07	--	--	--	--	--	--
MW-6	6/7/2001	165.40	16.36		149.04	--	--	--	--	--	--
MW-6	9/5/2001	165.40	18.61		146.79	--	--	--	--	--	--

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-6	11/30/2001	165.40	15.20		150.20	--	--	--	--	--	--
MW-6	2/20/2002	165.40	12.74		152.66	--	--	--	--	--	--
MW-6	6/20/2002	165.40	16.68		148.72	--	--	--	--	--	--
MW-6	9/11/2002	165.40	18.38		147.02	--	--	--	--	--	--
MW-6	11/12/2002	165.40	18.78		146.62	--	--	--	--	--	--
MW-6	1/29/2003	165.40	14.45		150.95	--	--	--	--	--	--
MW-6	5/22/2003	165.40	14.36		151.04	--	--	--	--	--	--
MW-6	7/28/2003	165.40	18.43		146.97	--	--	--	--	--	--
MW-6	11/18/2003	165.40	17.48		147.92	--	--	--	--	--	--
MW-6	2/23/2004	165.40	11.54		153.86	--	--	--	--	--	--
MW-6	5/4/2004	165.40	16.58		148.82	--	--	--	--	--	--
MW-6	8/4/2004	165.40	18.12		147.28	--	--	--	--	--	--
MW-6	11/10/2004	165.40	15.75		149.65	--	--	--	--	--	--
MW-6	2/15/2005	165.40	12.50		152.90	--	--	--	--	--	--
MW-6	5/16/2005	165.40	11.51		153.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-6	8/17/2005	165.40	16.85		148.55	--	--	--	--	--	--
MW-6	2/7/2006	165.40	9.93		155.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-6	8/23/2006	165.40	16.35		149.05	--	--	--	--	--	--
MW-6	11/15/2006	165.40	17.42		147.98	--	--	--	--	--	--
MW-6	2/14/2007	165.40	12.03		153.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-6	5/22/2007	165.40	15.11		150.29	--	--	--	--	--	--
MW-6	8/15/2007	165.40	18.08		147.32	--	--	--	--	--	--
MW-6	11/8/2007	165.40	17.79		147.61	--	--	--	--	--	--
MW-6	2/20/2008	165.40	11.81		153.59	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-6	5/7/2008	165.40	16.75		148.65	--	--	--	--	--	--
MW-6	2/25/2009	165.40	9.99		155.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-6	8/6/2009	165.40	18.33		147.07	--	--	--	--	--	--
MW-7	3/7/1991	167.61	19.04		148.57	--	--	0.4	0.3	2.4	--
MW-7	4/1/1991	167.61	15.18		152.43	--	--	--	--	--	--
MW-7	6/27/1991				---	70	17	4	0.8	2.2	--
MW-7	9/27/1991				---	--	0.4	--	--	0.4	--
MW-7	12/18/1991				---	--	0.7	2.9	0.8	3.3	--
MW-7	7/3/1992	167.61	20.28		147.33	<50	<0.5	<0.5	<0.5	<0.5	--
MW-7	10/5/1992	167.61	21.56		146.05	<50	<0.5	<0.5	<0.5	1.5	--
MW-7	1/13/1993	167.61	15.41		152.20	<50	<0.5	<0.5	<0.5	<0.5	--
MW-7	4/23/1993	167.61	15.84		151.77	<50	<0.5	<0.5	<0.5	<0.5	--
MW-7	7/12/1993	167.61	19.84		147.77	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-7	10/21/1993	167.61	21.61		146.00	<50	<0.5	<0.5	<0.5	<0.5	--
MW-7	1/21/1994	167.61	20.49		147.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-7	1/21/1994	167.61	20.49		147.12	<50	<0.5	<0.5	<0.5	<0.5	--
MW-7	4/20/1994	167.61	20.54		147.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-7	8/1/1994	167.61	20.99		146.62	<50	0.7	<0.5	<0.5	<0.5	<5.0
MW-7	12/23/1994	167.61	15.00		152.61	--	--	--	--	--	--
MW-7	1/26/1995	167.61	14.69		152.92	<50	<0.5	<0.5	<0.5	<1	--
MW-7	6/8/1995	167.61	19.87		147.74	--	--	--	--	--	--
MW-7	8/22/1995	167.61	21.49		146.12	<50	<0.50	<0.50	<0.50	<1.0	<5.0
MW-7	10/27/1995	167.61	22.53		145.08	--	--	--	--	--	--
MW-7	1/25/1996	167.61	17.21		150.40	<50	<0.50	<0.50	<0.50	<1.0	<5.0
MW-7	4/19/1996	167.61	17.09		150.52	--	--	--	--	--	--
MW-7	7/23/1996	167.61	21.02		146.59	--	--	--	--	--	--
MW-7	11/11/1996	167.61	22.03		145.58	<50	<0.5	<1.0	<1.0	<1.0	<10
MW-7	1/21/1997	167.61	15.06		152.55	--	--	--	--	--	--
MW-7	4/29/1997	167.61	20.11		147.50	<50	<0.5	<1.0	<1.0	<1.0	<10
MW-7	8/21/1997	167.61	21.59		146.02	--	--	--	--	--	--
MW-7	11/5/1997	167.61	20.05		147.56	<50	<0.5	<1.0	<1.0	<1.0	<10
MW-7	2/3/1998	167.61	9.97		157.64	--	--	--	--	--	--
MW-7	5/28/1998	167.61	13.52		154.09	<50	<0.5	<1.0	<1.0	<1.0	<10
MW-7	12/30/1998	167.61	18.33		149.28	--	--	--	--	--	--
MW-7	2/2/1999	167.61	12.33		155.28	--	--	--	--	--	--
MW-7	5/10/1999	167.61	13.52		154.09	--	--	--	--	--	--
MW-7	8/24/1999	167.61	14.01		153.60	--	--	--	--	--	--
MW-7	11/3/1999	167.61	19.91		147.70	--	--	--	--	--	--
MW-7	3/1/2000	167.61	19.89		147.72	--	--	--	--	--	--
MW-7	4/21/2000	167.61	17.94		149.67	--	--	--	--	--	--
MW-7	7/31/2000	167.61	17.33		150.28	--	--	--	--	--	--
MW-7	11/20/2000	167.61	18.41		149.20	--	--	--	--	--	--
MW-7	2/18/2001	167.61	15.13		152.48	--	--	--	--	--	--
MW-7	6/7/2001	167.61	18.75		148.86	--	--	--	--	--	--
MW-7	9/5/2001	167.61	20.48		147.13	--	--	--	--	--	--
MW-7	11/30/2001	167.61	20.11		147.50	--	--	--	--	--	--
MW-7	2/20/2002	167.61	18.40		149.21	--	--	--	--	--	--
MW-7	6/20/2002	167.61	18.62		148.99	--	--	--	--	--	--
MW-7	9/11/2002	167.61	20.05		147.56	--	--	--	--	--	--
MW-7	11/12/2002	167.61	21.13		146.48	--	--	--	--	--	--
MW-7	1/29/2003	167.61	19.10		148.51	--	--	--	--	--	--
MW-7	5/22/2003	167.61	18.83		148.78	--	--	--	--	--	--
MW-7	7/28/2003	167.61	19.88		147.73	--	--	--	--	--	--
MW-7	11/18/2003	167.61	20.50		147.11	--	--	--	--	--	--
MW-7	2/23/2004	168.08	15.92		152.16	--	--	--	--	--	--
MW-7	5/4/2004	168.08	18.86		149.22	--	--	--	--	--	--

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-7	8/4/2004	168.08	19.10		148.98	--	--	--	--	--	--
MW-7	11/10/2004	168.08	20.25		147.83	--	--	--	--	--	--
MW-7	2/15/2005	168.08	16.37		151.71	--	--	--	--	--	--
MW-7	8/17/2005	168.08	19.74		148.34	--	--	--	--	--	--
MW-7	11/18/2005	168.08	20.82		147.26	--	--	--	--	--	--
MW-7	2/7/2006	168.08	14.26		153.82	<500	<5.0	<5.0	<5.0	<5.0	270
MW-7	5/19/2006	168.08	16.51		151.57	--	--	--	--	--	--
MW-7	8/23/2006	168.08	20.30		147.78	--	--	--	--	--	--
MW-7	11/15/2006	168.08	20.85		147.23	--	--	--	--	--	--
MW-7	2/14/2007	168.08	16.57		151.51	520	<5.0	<5.0	<5.0	<5.0	740
MW-7	5/22/2007	168.08	18.40		149.68	--	--	--	--	--	--
MW-7	8/15/2007	168.08	20.85		147.23	--	--	--	--	--	--
MW-7	11/8/2007	168.08	20.41		147.67	--	--	--	--	--	--
MW-7	2/20/2008	168.08	15.90		152.18	<50	<0.50	<0.50	<0.50	<0.50	700
MW-7	5/7/2008	168.08	19.41		148.67	--	--	--	--	--	--
MW-7	8/20/2008	168.08	21.34		146.74	--	--	--	--	--	--
MW-7	11/17/2008	168.08	20.54		147.54	--	--	--	--	--	--
MW-7	2/25/2009	168.08	14.89		153.19	130	<20	<20	<20	<20	540
MW-7	5/28/2009	168.08	18.57		149.51	--	--	--	--	--	--
MW-7	8/6/2009	168.08	20.83		147.25	--	--	--	--	--	--
MW-8	3/7/1991	165.74	16.72		149.02	2.7	780	450	64	310	--
MW-8	4/1/1991	165.74	12.54		153.20	15,000	3,600	2,600	410	1,900	--
MW-8	6/27/1991				---	12,000	3,400	1,100	240	750	--
MW-8	9/27/1991				---	41	5,700	5,200	1,100	4,300	--
MW-8	12/18/1991				---	3.2	990	150	120	250	--
MW-8	7/3/1992	165.74	18.78		146.96	72,000	19,000	32,000	3,000	15,000	--
MW-8	10/5/1992	165.74	20.48		145.26	--	--	--	--	--	--
MW-8	1/13/1993	165.74	12.87		152.87	--	--	--	--	--	--
MW-8	4/23/1993	165.74	13.90		151.84	--	--	--	--	--	--
MW-8	7/12/1993	165.74	18.30		147.44	--	--	--	--	--	--
MW-8	10/21/1993	165.74	21.91		142.88	--	--	--	--	--	--
MW-8	1/21/1994	165.74	19.12		146.62	--	--	--	--	--	--
MW-8	4/20/1994	165.74	19.28		146.46	26,000	1,700	4,100	960	4,000	632
MW-8	12/23/1994	165.74	13.81		151.93	--	--	--	--	--	--
MW-8	6/8/1995	165.74	17.82		147.92	--	--	--	--	--	--
MW-8	8/22/1995	165.74	19.41		146.33	--	--	--	--	--	--
MW-8	10/27/1995	165.74	20.47		145.27	--	--	--	--	--	--
MW-8	1/25/1996	165.74	13.35		152.39	--	--	--	--	--	--
MW-8	4/19/1996	165.74	14.40		151.34	--	--	--	--	--	--

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-8	7/23/1996	165.74	18.35		147.39	--	--	--	--	--	--
MW-8	11/11/1996	165.74	19.41		146.33	--	--	--	--	--	--
MW-8	1/21/1997	165.74	12.29		153.45	--	--	--	--	--	--
MW-8	8/21/1997	165.74	19.61		146.13	240,000	1,100	9,300	4,100	31,100	<1,000
MW-8	11/5/1997	165.74	19.45		146.29	57,000	790	2,700	2,300	15,200	<1,000
MW-8	2/3/1998	165.74	9.33		156.41	--	--	--	--	--	--
MW-8	2/4/1998				---	94,000	570	1,500	2,100	15,200	<2,500
MW-8	12/30/1998	165.74	15.48		150.26	120,000	460	2,300	2,200	15,000	150
MW-8	2/2/1999	165.74	18.29		147.45	82,000	450	2,200	3,700	26,000	<500
MW-8	5/10/1999	165.74	15.62		150.12	28,000	740	1,800	1,100	5,800	<25
MW-8	8/24/1999	165.74	18.41		147.33	75,000	530	1,400	3,300	21,000	150
MW-8	11/3/1999	165.74	18.71		147.03	70,000	600	1,300	3,600	20,500	750
MW-8	3/1/2000	165.74	19.37		146.37	27,000	1,600	1,200	2,600	6,600	120
MW-8	11/20/2000	165.74	17.42		148.32	1,300,000	1,400	1,700	20,000	16,000	5,700
MW-8	9/5/2001	165.74	21.45	0.04	144.25	--	--	--	--	--	--
MW-8	11/30/2001	165.74	18.31		147.43	--	--	--	--	--	--
MW-8	2/20/2002	165.74	14.02		151.72	20,000	163	114	403	3,810	80.4
MW-8	6/20/2002	165.74	17.56		148.18	28,000	466	141	962	5,850	2,520
MW-8	9/11/2002	165.74	19.45		146.29	190,000	1,500	670	4,500	23,000	1,200
MW-8	11/12/2002	165.74	19.15		146.59	420	6.4	2.9	16	110	31
MW-8	1/29/2003	165.74	15.02		150.72	200,000	810	<500	2,000	11,000	<500
MW-8	5/22/2003	165.74	15.07		150.67	--	--	--	--	--	--
MW-8	6/24/2003	165.74	17.95		147.79	43,000	860	300	2,100	9,600	46
MW-8	7/28/2003	165.74	19.45		146.29	62,000	690	230	1,800	15,000	2,100
MW-8	8/12/2003	165.74	19.40	<0.01	146.34	--	--	--	--	--	--
MW-8	9/12/2003	165.74	19.34		146.40	--	--	--	--	--	--
MW-8	11/18/2003	165.74	18.80	<0.01	146.94	8,800	500	37	530	930	1,700
MW-8	2/23/2004	165.74	12.82	<0.01	152.92	32,000	840	360	1,000	7,100	110
MW-8	5/4/2004	165.74	18.87	<0.01	146.87	42,000	570	230	1,700	8,400	2,000
MW-8	8/4/2004	165.74	19.37	0.05	146.41	--	--	--	--	--	--
MW-8	9/22/2004	165.74	19.60		146.14	--	--	--	--	--	--
MW-8	11/10/2004	165.74	16.58		149.16	11,000	790	61	1,000	830	74
MW-8	2/15/2005	165.74	12.85		152.89	38,000	1,300	390	2,300	7,900	<50
MW-8	5/16/2005	165.74	12.22		153.52	31,000	1,000	360	2,500	7,500	<50
MW-8	8/17/2005	165.74	17.80		147.94	60,000	540	240	2,500	8,600	<50
MW-8	11/18/2005	165.74	21.02		144.72	33,000	340	120	1,400	4,900	140
MW-8	2/7/2006	165.74	10.73		155.01	5,700	94	27	260	820	7.5
MW-8	5/19/2006	165.74	13.89		151.85	40,000	1,100	320	2,900	6,000	<25
MW-8	8/23/2006	165.74	18.85		146.89	21,000	520	150	1,800	6,300	82

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-8	11/15/2006	165.74	18.75		146.99	3,300	81	<25	130	430	110
MW-8	2/14/2007	165.74	13.45	SHEEN	152.29	9,300	320	<25	360	710	82
MW-8	5/22/2007	165.74	15.92	SHEEN	149.82	17,000	370	51	760	1,600	11
MW-8	8/15/2007	165.74	19.11	SHEEN	146.63	17,000	170	44	1,000	2,700	28
MW-8	11/8/2007	165.74	18.46	SHEEN	147.28	24,000	150	43	1,100	3,200	27
MW-8	8/20/2008	165.74	19.66	0.01	146.08	--	--	--	--	--	--
MW-8	2/25/2009	165.74	11.50	SHEEN	154.24	3,400	160	11	88	65	35
MW-8	4/8/2009	165.74	14.55		151.19	--	--	--	--	--	--
MW-8	5/28/2009	165.74	16.12	SHEEN	149.62	8,300	410	54	660	800	<2.5
MW-8	6/16/2009	165.74	17.63		148.11	--	--	--	--	--	--
MW-9	3/7/1991	166.20	16.79		149.41	7.1	220	4	2.4	2,400	--
MW-9	4/1/1991	166.20	12.89		153.31	12,000	2,000	2,600	360	1,600	--
MW-9	6/27/1991				---	3,600	520	400	85	310	--
MW-9	9/27/1991				---	3.2	720	150	50	180	--
MW-9	12/18/1991				---	--	2.5	1.1	0.3	5.8	--
MW-9	7/3/1992	166.20	18.89		147.31	5,700	17,000	840	230	800	--
MW-9	10/5/1992	166.20	20.52		145.68	1,400	440	17	14	100	--
MW-9	1/13/1993	166.20	12.92		153.28	11,000	1,200	1,700	340	1,400	--
MW-9	1/13/1993	166.20	12.92		153.28	11,000	1,200	1,600	330	1,300	--
MW-9	4/23/1993	166.20	14.08		152.12	24,000	2,800	4,500	730	3,400	--
MW-9	7/12/1993	166.20	18.44		147.76	13,000	1,400	1,100	360	1,400	20.8
MW-9	7/12/1993	166.20	18.44		147.76	10,000	1,200	900	310	1,200	--
MW-9	10/21/1993	166.20	21.81		143.50	--	--	--	--	--	--
MW-9	1/21/1994	166.20	19.28		146.92	--	--	--	--	--	--
MW-9	4/20/1994	166.20	19.72		146.48	43,000	2,800	6,800	1,300	7,900	768
MW-9	4/20/1994	166.20	19.72		146.48	45,000	2,700	6,800	1,200	8,200	740
MW-9	8/1/1994	166.20	20.18		146.02	--	--	--	--	--	--
MW-9	12/23/1994	166.20	14.22		151.98	--	--	--	--	--	--
MW-9	1/26/1995	166.20	11.85		154.35	--	--	--	--	--	--
MW-9	6/8/1995	166.20	18.33		147.87	--	--	--	--	--	--
MW-9	8/22/1995	166.20	19.95		146.25	--	--	--	--	--	--
MW-9	10/27/1995	166.20	20.88		145.32	--	--	--	--	--	--
MW-9	1/25/1996	166.20	13.84		152.36	--	--	--	--	--	--
MW-9	7/23/1996	166.20	18.84		147.36	--	--	--	--	--	--
MW-9	11/11/1996	166.20	19.91		146.29	--	--	--	--	--	--
MW-9	1/21/1997	166.20	12.93		153.27	--	--	--	--	--	--
MW-9	4/29/1997	166.20	18.03	0.1	148.17	--	--	--	--	--	--
MW-9	4/30/1997				---	78,000	1,900	3,600	3,100	20,600	<5,000
MW-9	8/21/1997	166.20	19.56		146.64	110,000	2,100	3,400	2,300	18,800	<500

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-9	11/5/1997	166.20	20.59	0.01	145.60	59,000	1,400	1,700	2,200	17,000	<500
MW-9	2/3/1998	166.20	10.56		155.64	55,000	490	1,200	1,400	10,200	<1,000
MW-9	5/28/1998	166.20	14.21		151.99	41,000	250	1,200	1,500	11,400	<250
MW-9	5/28/1998	166.20	14.21		151.99	53,000	290	830	1,400	10,500	<500
MW-9	12/30/1998	166.20	15.61		150.59	83,000	860	1,300	2,400	21,000	180
MW-9	2/2/1999	166.20	12.33		153.87	75,000	530	960	1,900	17,000	<50
MW-9	5/10/1999	166.20	15.67		150.53	22,000	600	1,500	1,100	4,400	72
MW-9	8/24/1999	166.20	19.10		147.10	85,000	850	1,300	1,700	20,000	<250
MW-9	11/3/1999	166.20	19.58		146.62	72,000	700	780	1,900	19,000	<5.0
MW-9	3/1/2000	166.20	13.19		153.01	34,000	78	490	1,100	8,200	63
MW-9	4/21/2000	166.20	14.29		151.91	55,000	260	920	1,500	16,000	<5.0
MW-9	7/31/2000	166.20	15.01		151.19	1,200,000	1,500	6,300	15,000	120,000	1,600
MW-9	11/20/2000	166.20	18.23		147.97	320,000	3,500	19,000	5,000	40,000	3,900
MW-9	2/18/2001	166.20	13.14		153.06	32,000	290	417	1,180	10,400	121
MW-9	6/7/2001	166.20	17.41		148.79	96,000	421	704	2,330	17,300	223
MW-9	9/5/2001	166.20	20.56		145.64	39,000	445	323	1,240	8,940	310
MW-9	11/30/2001	166.20	17.42		148.78	60,000	310	586	1,890	14,200	285
MW-9	2/20/2002	166.20	13.87		152.33	14,000	64	122	897	2,650	293
MW-9	6/20/2002	166.20	18.22		147.98	29,000	307	168	1,100	5,670	208
MW-9	9/11/2002	166.20	20.27		145.93	230,000	1,400	680	3,600	23,000	<2,500
MW-9	11/12/2002	166.20	19.40		146.80	840	5.8	3.6	28	160	21
MW-9	1/29/2003	166.20	14.30	0.1	151.80	--	--	--	--	--	--
MW-9	5/22/2003	166.20	15.16		151.04	23,000	260	<50	1,000	2,900	<50
MW-9	7/28/2003	166.20	19.55	<0.01	146.65	1,500,000	<500	<500	9,800	79,000	<500
MW-9	8/12/2003	166.20	19.60	<0.01	146.60	--	--	--	--	--	--
MW-9	9/12/2003	166.20	19.60	<0.01	146.60	--	--	--	--	--	--
MW-9	11/18/2003	166.20	18.98	<0.01	147.22	19,000	250	18	690	2,400	45
MW-9	2/23/2004	166.20	13.91	<0.01	152.29	91,000	<250	440	2,200	13,000	<250
MW-9	5/4/2004	166.20	18.11	<0.01	148.09	39,000	230	44	1,100	4,200	<25
MW-9	8/4/2004	166.20	18.90	0.03	147.32	--	--	--	--	--	--
MW-9	9/22/2004	166.20	19.69		146.51	--	--	--	--	--	--
MW-9	11/10/2004	166.20	16.95		149.25	31,000	300	<50	1,100	3,800	<50
MW-9	2/15/2005	166.20	12.95		153.25	19,000	200	<50	720	2,000	<50
MW-9	5/16/2005	166.20	12.53		153.67	17,000	99	15	770	2,500	<10
MW-9	8/17/2005	166.20	18.03		148.17	28,000	160	26	1,000	2,700	<12
MW-9	11/18/2005	166.20	19.04		147.16	12,000	98	<5.0	410	510	19
MW-9	2/7/2006	166.20	10.95	SHEEN	155.25	18,000	110	8.7	770	1,500	<5.0
MW-9	8/23/2006	166.20	18.91		147.29	28,000	84	<50	1,600	6,200	<50
MW-9	11/15/2006	166.20	18.60		147.60	8,200	44	<25	190	370	26

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-9	2/14/2007	166.20	13.30		152.90	20,000	64	<25	720	2,000	<25
MW-9	5/22/2007	166.20	16.14	SHEEN	150.06	16,000	80	<25	460	1,200	<25
MW-9	8/15/2007	166.20	19.31	SHEEN	146.89	5,900	27	<2.5	59	170	27
MW-9	11/8/2007	166.20	18.70		147.50	6,100	29	<5.0	98	250	52
MW-9	2/20/2008	166.20	12.79	0.03	153.41	--	--	--	--	--	--
MW-9	5/7/2008	166.20	17.68	0.03	148.52	--	--	--	--	--	--
MW-9	8/20/2008	166.20	19.75	0.01	146.45	--	--	--	--	--	--
MW-9	11/17/2008	166.20	18.73		147.47	10,000	24	<2.5	160	140	33
MW-9	2/25/2009	166.20	11.23	SHEEN	154.97	14,000	60	<10	550	140	<10
MW-9	4/8/2009	166.20	14.21		151.99	--	--	--	--	--	--
MW-9	5/28/2009	166.20	16.33	SHEEN	149.87	15,000	49	<10	790	1,500	<10
MW-9	6/16/2009	166.20	17.82	0.01	148.38	--	--	--	--	--	--
MW-9	8/6/2009	166.20	19.25	SHEEN	146.95	6,800	19	<2.0	120	250	18
MW-10	3/7/1991	167.01	18.09		148.92	1.6	120	190	32	230	--
MW-10	4/1/1991	167.01	13.92		153.09	--	--	--	--	--	--
MW-10	6/27/1991				---	12,000	7,300	500	150	300	--
MW-10	9/27/1991				---	57	12,000	7,200	1,400	4,600	--
MW-10	12/18/1991				---	5.3	2,500	120	36	79	--
MW-10	7/3/1992	167.01	19.92		147.09	8,600	5,100	1,300	180	690	--
MW-10	10/5/1992	167.01	21.92		145.09	--	--	--	--	--	--
MW-10	1/13/1993	167.01	14.43		152.58	--	--	--	--	--	--
MW-10	4/23/1993	167.01	15.26		151.75	--	--	--	--	--	--
MW-10	7/12/1993	167.01	19.78		147.23	--	--	--	--	--	--
MW-10	10/21/1993	167.01	22.90		144.11	--	--	--	--	--	--
MW-10	1/21/1994	167.01	20.25		146.76	--	--	--	--	--	--
MW-10	4/20/1994	167.01	20.74		146.27	100,000	12,000	24,000	2,400	14,000	1,577
MW-10	8/1/1994	167.01	22.00		145.01	--	--	--	--	--	--
MW-10	12/23/1994	167.01	16.08		150.93	--	--	--	--	--	--
MW-10	1/26/1995	167.01	13.68		153.33	--	--	--	--	--	--
MW-10	6/8/1995	167.01	19.08		147.93	--	--	--	--	--	--
MW-10	8/22/1995	167.01	20.73		146.28	--	--	--	--	--	--
MW-10	10/27/1995	167.01	21.69		145.32	--	--	--	--	--	--
MW-10	1/25/1996	167.01	15.05		151.96	--	--	--	--	--	--
MW-10	4/19/1996	167.01	16.26		150.75	--	--	--	--	--	--
MW-10	7/23/1996	167.01	20.18		146.83	--	--	--	--	--	--
MW-10	11/11/1996	167.01	21.20		145.81	--	--	--	--	--	--
MW-10	1/21/1997	167.01	13.66		153.35	--	--	--	--	--	--
MW-10	4/29/1997	167.01	18.71		148.30	--	--	--	--	--	--
MW-10	4/30/1997				---	170,000	9,700	38,000	4,700	30,500	<5,000
MW-10	8/21/1997	167.01	20.19		146.82	170,000	9,500	35,000	4,300	27,100	<5,000

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-10	11/5/1997	167.01	20.52		146.49	80,000	3,800	12,000	2,700	15,700	<500
MW-10	2/3/1998	167.01	10.62		156.39	--	--	--	--	--	--
MW-10	2/4/1998				---	72,000	500	1,300	1,700	12,000	<1,000
MW-10	5/28/1998	167.01	15.46		151.55	220,000	3,200	24,000	5,200	43,000	<1,000
MW-10	12/30/1998	167.01	16.65		150.36	110,000	3,500	14,000	5,800	50,000	<50
MW-10	2/2/1999	167.01	14.58		152.43	74,000	1,000	2,800	1,000	26,000	860
MW-10	5/10/1999	167.01	15.72		151.29	81,000	2,800	2,800	3,000	17,000	220
MW-10	8/24/1999	167.01	19.85		147.16	54,000	3,500	3,800	1,500	9,100	<250
MW-10	11/3/1999	167.01	20.00		147.01	30,000	3,000	3,500	1,200	5,000	31
MW-10	3/1/2000	167.01	14.62		152.39	62,000	320	1,200	1,100	26,000	4,400
MW-10	4/21/2000	167.01	15.46		151.55	88,000	2,700	7,400	3,700	35,000	2,400
MW-10	11/20/2000	167.01	18.74		148.27	78,000	3,800	5,500	2,800	13,000	450
MW-10	2/18/2001	167.01	14.10		152.91	39,000	1,050	1,160	1,550	14,700	4,180
MW-10	6/7/2001	167.01	18.78		148.23	76,000	2,460	2,840	3,330	20,700	635
MW-10	9/5/2001	167.01	21.40	0.01	145.60	25,000	2,510	2,070	1,090	4,540	189
MW-10	11/30/2001	167.01	18.50		148.51	100,000	2,480	5,720	3,890	22,800	325
MW-10	2/20/2002	167.01	14.39		152.62	49,000	2,170	3,070	1,960	12,300	1,090
MW-10	6/20/2002	167.01	18.80		148.21	44,000	2,040	3,050	1,690	8,430	224
MW-10	9/11/2002	167.01	20.52		146.49	28,000	1,200	2,700	1,400	6,800	<250
MW-10	11/12/2002	167.01	20.37	0.07	146.57	--	--	--	--	--	--
MW-10	1/29/2003	167.01	16.33	0.03	150.65	--	--	--	--	--	--
MW-10	5/22/2003	167.01	16.32		150.69	13,000	2,100	850	630	1,600	300
MW-10	6/24/2003	167.01	18.73	0.04	148.24	--	--	--	--	--	--
MW-10	7/28/2003	167.01	20.39	0.04	146.58	--	--	--	--	--	--
MW-10	8/12/2003	167.01	20.43	<0.01	146.58	--	--	--	--	--	--
MW-10	9/12/2003	167.01	20.41		146.60	--	--	--	--	--	--
MW-10	11/18/2003	167.01	19.55	<0.01	147.46	9,900	2,200	530	320	860	<50
MW-10	2/23/2004	167.01	15.45	<0.01	151.56	46,000	1,900	2,000	1,800	9,000	180
MW-10	5/4/2004	167.01	18.81	<0.01	148.20	35,000	3,100	3,600	1,400	5,600	<25
MW-10	8/4/2004	167.01	18.90		148.11	--	--	--	--	--	--
MW-10	9/22/2004	167.01	20.60		146.41	--	--	--	--	--	--
MW-10	11/10/2004	167.01	17.95		149.06	9,800	470	91	450	1,700	230
MW-10	1/13/2005	167.01	12.21		154.80	--	--	--	--	--	--
MW-10	2/15/2005	167.01	14.19		152.82	30,000	510	330	1,800	7,200	77
MW-10	5/16/2005	167.01	13.85		153.16	37,000	540	730	2,100	9,200	<50
MW-10	8/17/2005	167.01	19.01		148.00	15,000	1,100	420	1,200	4,100	<50
MW-10	11/18/2005	167.01	19.95		147.06	12,000	1,200	240	550	1,300	16
MW-10	2/7/2006	167.01	12.28	SHEEN	154.73	22,000	340	580	1,300	4,500	73
MW-10	5/19/2006	167.01	15.12		151.89	40,000	690	430	2,600	4,900	<25

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
MW-10	8/23/2006	167.01	20.00		147.01	13,000	1,500	540	1,200	3,000	<10
MW-10	11/15/2006	167.01	19.84		147.17	3,800	700	22	67	160	54
MW-10	2/14/2007	167.01	14.94	SHEEN	152.07	37,000	350	120	2,400	8,100	120
MW-10	5/22/2007	167.01	17.17	SHEEN	149.84	13,000	810	130	750	2,200	15
MW-10	8/15/2007	167.01	20.30	SHEEN	146.71	4,400	550	38	160	310	<10
MW-10	11/8/2007	167.01	19.58	SHEEN	147.43	13,000	970	130	480	1,600	6.0
MW-10	2/20/2008	167.01	14.27	0.05	152.74	--	--	--	--	--	--
MW-10	5/7/2008	167.01	18.61		148.40	16,000	970	150	770	2,000	<20
MW-10	8/20/2008	167.01	20.71	0.01	146.30	--	--	--	--	--	--
MW-10	11/17/2008	167.01	19.71		147.30	10,000	960	57	270	720	23
MW-10	2/25/2009	167.01	13.10		153.91	2,900	53	14	69	160	170
MW-10	4/8/2009	167.01	15.91		151.10	--	--	--	--	--	--
MW-10	5/28/2009	167.01	17.37	SHEEN	149.64	15,000	640	280	790	2,500	65
MW-10	6/16/2009	167.01	18.79	0.01	148.22	--	--	--	--	--	--
MW-10	8/6/2009	167.01	20.19	SHEEN	146.82	23,000	850	490	1,200	4,100	<25
RW-1	3/7/1991	168.01	17.62		150.39	--	--	--	--	--	--
RW-1	4/1/1991	168.01	14.40		153.61	--	--	--	--	--	--
RW-1	7/3/1992	168.01	20.66		147.35	--	--	--	--	--	--
RW-1	10/5/1992	168.01	23.34		144.67	--	--	--	--	--	--
RW-1	1/13/1993	168.01	16.59		151.42	--	--	--	--	--	--
RW-1	4/23/1993	168.01	16.17		151.84	--	--	--	--	--	--
RW-1	7/12/1993	168.01	20.18		147.83	--	--	--	--	--	--
RW-1	10/21/1993	168.01	25.70		142.31	--	--	--	--	--	--
RW-1	1/21/1994	168.01	21.24		146.77	--	--	--	--	--	--
RW-1	4/20/1994	168.01	32.20		135.81	--	--	--	--	--	--
RW-1	8/1/1994	168.01	21.70		146.31	29,000	580	950	300	7,800	1,200
RW-1	12/23/1994	168.01	16.02		151.99	1,300	25	8.6	1.4	69	616
RW-1	1/26/1995	168.01	13.78		154.23	<50	<0.5	<0.5	<0.5	<1	--
RW-1	1/26/1995	168.01	13.78		154.23	<50	<0.5	<0.5	<0.5	<1	--
RW-1	6/8/1995	168.01	20.05		147.96	1,300	130	<1.0	<1.0	36	--
RW-1	8/22/1995	168.01	21.74		146.27	2,800	210	9.3	4.3	250	<25
RW-1	8/22/1995	168.01	21.74		146.27	3,300	230	13	4.9	280	<25
RW-1	10/27/1995	168.01	32.00		136.01	--	--	--	--	--	--
RW-1	10/30/1995				---	230	1.4	<1.0	<1.0	<2.0	650
RW-1	10/30/1995				---	240	1.6	<1.0	<1.0	<2.0	630
RW-1	1/25/1996	168.01	15.41		152.60	15,000	3,400	930	330	2,500	5,300
RW-1	4/19/1996	168.01	16.83		151.18	35,000	5,500	3,300	1,700	9,400	14,000
RW-1	4/19/1996	168.01	16.83		151.18	33,000	5,600	3,200	1,700	8,800	15,000
RW-1	7/23/1996	168.01	20.76		147.25	46,000	3,600	2,300	900	5,100	36,000

TABLE 2
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
RW-1	7/23/1996	168.01	20.76		147.25	47,000	3,700	2,500	930	5,300	35,000
RW-1	11/11/1996	168.01	21.73		146.28	34,000	3,000	1,200	880	4,600	22,000
RW-1	11/11/1996	168.01	21.73		146.28	31,000	2,900	1,000	860	4,600	22,000
RW-1	1/21/1997	168.01	14.20		153.81	260	40	16	2.7	34	1,500
RW-1	1/21/1997	168.01	14.20		153.81	270	42	17	2.7	36	1,500
RW-1	4/29/1997	168.01	19.15		148.86	32,000	3,100	590	1,300	6,000	46,000
RW-1	8/21/1997	168.01	20.67		147.34	7,600	730	58	370	1,780	9,500
RW-1	11/5/1997	168.01	21.01		147.00	39,000	2,300	86	1,300	3,840	56,000
RW-1	2/3/1998	168.01	10.68		157.33	3,400	31	11	29	161	3,200
RW-1	5/28/1998	168.01	15.55		152.46	2,000	90	15	60	305	2,700
RW-1	12/30/1998	168.01	17.35		150.66	--	--	--	--	--	--
RW-1	2/2/1999	168.01	14.58		153.43	82,000	2,300	120	2,000	3,200	51000/78000
RW-1	5/10/1999	168.01	16.00		152.01	15,000	620	88	340	660	61,000
RW-1	8/24/1999	168.01	20.00		148.01	52,000	1,400	170	2,200	2,900	37,000
RW-1	11/3/1999	168.01	20.39		147.62	17,000	2,500	86	1,500	970	54,000
RW-1	3/1/2000	168.01	12.97		155.04	17,000	580	78	790	1,100	13,000
RW-1	4/21/2000	168.01	16.02		151.99	31,000	2,100	100	1,400	1,100	39,000
RW-1	7/31/2000	168.01	21.89		146.12	47,000	1,300	170	2,700	2,300	30,000
RW-1	11/20/2000	168.01	19.15		148.86	--	--	--	--	--	--
RW-1	2/18/2001	168.01	15.35		152.66	14,000	589	89	600	712	13,000
RW-1	6/7/2001	168.01	19.09		148.92	28,000	1,140	68.2	504	530	19,100
RW-1	9/5/2001	168.01	22.06	0.02	145.93	--	--	--	--	--	--
RW-1	11/30/2001	168.01	19.53		148.48	20,000	405	39.4	545	740	8,260
RW-1	2/20/2002	168.01	15.99		152.02	13,000	469	29	434	655	7,240
RW-1	6/20/2002	168.01	19.31		148.70	--	--	--	--	--	--
RW-1	9/11/2002	168.01	21.07	0.03	146.91	--	--	--	--	--	--
RW-1	11/12/2002	168.01	20.92	0.02	147.07	--	--	--	--	--	--
RW-1	1/29/2003	168.01	16.31	0.04	151.66	--	--	--	--	--	--
RW-1	5/22/2003	168.01	16.68		151.33	--	--	--	--	--	--
RW-1	6/24/2003	168.01	19.76	0.07	148.18	--	--	--	--	--	--
RW-1	7/28/2003	168.01	21.04	0.04	146.93	--	--	--	--	--	--
RW-1	8/12/2003	168.01	21.41	<0.01	146.60	--	--	--	--	--	--
RW-1	9/12/2003	168.01	21.10	0.07	146.84	--	--	--	--	--	--
RW-1	11/18/2003	168.01	20.10	<0.01	147.91	12,000	770	<50	320	250	6,100
RW-1	2/23/2004	168.01	14.35	0.01	153.67	--	--	--	--	--	--
RW-1	5/4/2004	168.01	19.58	0.02	148.45	--	--	--	--	--	--
RW-1	8/4/2004	168.01	22.05	0.05	146.00	--	--	--	--	--	--
RW-1	9/22/2004	168.01	21.28	0.06	146.78	--	--	--	--	--	--
RW-1	11/10/2004	168.01	18.56	0.02	149.47	--	--	--	--	--	--

TABLE 2
 HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL DATA- PETROLEUM HYDROCARBONS
 FORMER BP SERVICE STATION #11132
 3201 35TH AVENUE, OAKLAND, CALIFORNIA
 ACEH No.: R0000014

Sample Location	Date	TOC (feet)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Analytes					
						GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylene (ug/L)	MTBE (ug/L)
RW-1	1/13/2005	168.01	12.51	0.01	155.51	--	--	--	--	--	--
RW-1	2/15/2005	168.01	15.24	0.03	152.79	--	--	--	--	--	--
RW-1	3/7/2005	168.01	11.90	0.02	156.13	--	--	--	--	--	--
RW-1	5/16/2005	168.01	14.39	0.02	153.64	--	--	--	--	--	--
RW-1	8/17/2005	168.01	19.91	0.03	148.12	--	--	--	--	--	--
RW-1	11/18/2005	168.01	20.36	0.07	147.71	--	--	--	--	--	--
RW-1	2/7/2006	168.01	12.87	0.01	155.15	--	--	--	--	--	--
RW-1	5/19/2006	168.01	15.87	0.04	152.14	--	--	--	--	--	--
RW-1	8/23/2006	168.01	20.50	0.07	147.51	--	--	--	--	--	--
RW-1	11/15/2006	168.01	20.52	0.07	147.49	--	--	--	--	--	--
RW-1	2/14/2007	168.01	15.44	0.04	152.57	--	--	--	--	--	--
RW-1	5/22/2007	168.01	17.78	SHEEN	150.23	--	--	--	--	--	--
RW-1	8/15/2007	168.01	20.80	0.02	147.21	--	--	--	--	--	--
RW-1	11/8/2007	168.01	20.32	0.01	147.69	--	--	--	--	--	--
RW-1	2/20/2008	168.01	14.55	0.02	153.46	--	--	--	--	--	--
RW-1	8/20/2008	168.01	21.34	0.02	146.67	--	--	--	--	--	--
RW-1	11/17/2008	168.01	20.41		147.60	13,000	120	<20	590	320	120
RW-1	2/25/2009	168.01	13.40	0.02	154.61	--	--	--	--	--	--
RW-1	4/8/2009	168.01	16.45		151.56	--	--	--	--	--	--
RW-1	5/28/2009	168.01	17.88	0.01	150.13	--	--	--	--	--	--
RW-1	6/16/2009	168.01	19.30	0.01	148.71	--	--	--	--	--	--
RW-1	8/6/2009	168.01	20.72	0.01	147.29	--	--	--	--	--	--

Notes:

"--" = Not analyzed.

"<" = Result was not detected above method detection limit; value presented is detection limit.

DTW = Depth to water (measured in feet below top of casing)

GRO = Petroleum Hydrocarbons as Gasoline

FD = Field duplicate

MTBE = Methyl tert butyl ether

TOC = Top of casing elevation (measured in feet)

ug/L = micrograms per liter

1) The data within this table collected prior to September 2009 was provided to ARCADIS by BAI and their previous consultants. ARCADIS has not verified the accuracy of this information.

TABLE 3
SUMMARY OF FREE PRODUCT REMOVAL
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

Sample Location	Date of Monitoring	Product Thickness (feet)	Product Removed (gallons)	Cumulative Product Removed (gallons)
MW-1	7/9/1990	0.22	2.000	2.000
MW-1	12/21/1990	0.58	2.000	4.000
MW-1	3/7/1991	0.00	--	4.000
MW-1	6/27/1991	0.18	2.000	6.000
MW-1	9/27/1991	0.27	2.000	8.000
MW-1	12/18/1991	0.28	2.000	10.000
MW-1	4/1/1991	0.15	2.000	12.000
MW-1	7/3/1992	0.27	2.000	14.000
MW-1	10/5/1992	0.24	2.000	16.000
MW-1	1/13/1993	0.24	2.000	18.000
MW-1	4/23/1993	0.42	2.000	20.000
MW-1	7/12/1993	0.49	--	20.000
MW-1	10/21/1993	1.09	2.000	22.000
MW-1	1/21/1994	0.76	--	22.000
MW-1	4/20/1994	1.80	2.000	24.000
MW-1	8/1/1994	0.35	--	24.000
MW-1	1/26/1995	1.10	3.000	27.000
MW-1	6/8/95-6/28/95	1.25	0.700	27.700
MW-1	8/22/1995	0.85	0.150	27.850
MW-1	10/30/95-12/23/95	0.69	0.110	27.960
MW-1	1/25/96-2/16/95	1.40	1.080	29.040
MW-1	4/19/1996	1.22	0.750	29.790
MW-1	7/23/1996	0.89	0.000	29.790
MW-1	9/4/1996	--	0.350	30.140
MW-1	11/11/1996	0.89	0.980	31.120
MW-1	1/21/1997	0.90	0.200	31.320
MW-1	4/29/1997	0.85	0.250	31.570
MW-1	8/21/1997	--	0.150	31.720
MW-1	11/2/97-12/9/97	0.87	2.030	33.750
MW-1	2/3/1998	0.32	0.25	34.00
MW-1	2/4/1998	--	--	34.000
MW-1	5/28/1998	0.17	--	34.000
MW-1	12/30/1998	0.08	0.020	34.020
MW-1	2/2/1999	0.03	0.010	34.030
MW-1	5/10/1999	0.03	0.010	34.040
MW-1	8/24/1999	0.06	0.010	34.050
MW-1	11/3/1999	0.36	0.050	34.100
MW-1	3/1/2000	0.23	*	34.100
MW-1	4/21/2000	0.33	0.070	34.170
MW-1	7/31/2000	0.53	0.130	34.300
MW-1	11/20/2000	0.37	0.500	34.800
MW-1	2/18/2001	0.13	0.050	34.850
MW-1	2/26/2001	0.15	0.150	35.000
MW-1	6/7/2001	0.00	--	35.000
MW-1	9/5/2001	0.35	--	35.000
MW-1	11/30/2001	0.41	0.260	35.260

TABLE 3
SUMMARY OF FREE PRODUCT REMOVAL
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

MW-1	12/6/2001	0.27	0.040	35.300
MW-1	2/20/2002	0.15	0.020	35.320
MW-1	6/20/2002	0.34	0.070	35.390
MW-1	9/11/2002	0.40	0.060	35.450
MW-1	11/12/2002	0.37	0.060	35.510
MW-1	1/29/2003	0.30	0.320	35.830
MW-1	5/22/2003	0.20	0.140	35.970
MW-1	6/24/2003	0.35	0.070	36.040
MW-1	7/28/2003	0.35	0.080	36.050
MW-1	8/12/2003	0.23	0.040	36.090
MW-1	9/12/2003	0.24	0.040	36.130
MW-1	10/3/2003	0.23	0.040	36.170
MW-1	11/18/2003	0.25	0.040	36.210
MW-1	12/31/2003	0.15	0.020	36.230
MW-1	2/2/2004	0.15	0.020	36.250
MW-1	2/23/2004	0.09	0.030	36.280
MW-1	3/18/2004	0.09	0.010	36.290
MW-1	4/13/2004	0.24	0.040	36.330
MW-1	5/4/2004	0.16	0.030	36.360
MW-1	6/2/2004	0.08	0.010	36.370
MW-1	7/2/2004	0.28	0.040	36.410
MW-1	8/4/2004	0.10	0.080	36.490
MW-1	9/22/2004	0.20	0.030	36.520
MW-1	10/26/2004	0.12	0.020	36.540
MW-1	11/10/2004	0.14	0.020	36.560
MW-1	12/27/2004	0.08	0.010	36.570
MW-1	1/13/2005	0.03	0.005	36.575
MW-1	2/15/2005	0.04	0.006	36.581
MW-1	3/7/2005	0.01	0.007	36.588
MW-1	4/29/2005	0.01	0.002	36.589
MW-1	5/16/2005	0.02	0.003	36.592
MW-1	6/21/2005	0.01	0.002	36.594
MW-1	7/7/2005	0.18	0.029	36.623
MW-1	8/17/2005	0.08	0.013	36.636
MW-1	9/6/2005	0.02	0.003	36.639
MW-1	10/4/2005	0.12	0.020	36.659
MW-1	9/6/2005	0.06	0.01	36.67
MW-1	12/30/2005	0.03	0.005	36.674
MW-1	1/24/2006	0.00	0.000	36.674
MW-1	2/7/2006	0.01	0.002	36.676
MW-1	3/30/2006	0.00	0.000	36.676
MW-1	4/21/2006	0.00	0.000	36.676
MW-1	5/19/2006	<0.01 (SHEEN)	0.000	36.68
MW-1	6/22/2006	0.04	0.006	36.682
MW-1	7/31/2006	0.04	0.006	36.688
MW-1	8/23/2006	0.14	0.022	36.710
MW-1	9/28/2006	0.35	0.056	36.766
MW-1	11/15/2006	0.18	--	36.766
MW-1	2/14/2007	0.17	*	36.766
MW-1	3/14/2007	0.04	****	36.766

TABLE 3
SUMMARY OF FREE PRODUCT REMOVAL
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

MW-1	4/10/2007	0.15	****	36.766
MW-1	5/22/2007	0.01	****	36.766
MW-1	6/26/2007	0.05	****	36.766
MW-1	7/19/2007	0.00	--	36.766
MW-1	8/15/2007	0.01	2.0	38.766
MW-1	9/18/2007	0.10	2.0	40.766
MW-1	10/17/2007	0.01	4.0	44.766
MW-1	11/8/2007	0.01	3.0	47.766
MW-1	12/12/2007	0.01	1.5	49.266
MW-1	1/14/2008	0.01	3.0	52.266
MW-1	2/27/2008	--	2.0	54.266
MW-1	4/1/2008	0.01	5.0	59.266
MW-1	5/7/2008	0.02	*	59.266
MW-1	5/20/2008	0.00	1.0	60.266
MW-1	6/18/2008	0.00	4.5	64.766
MW-1	7/16/2008	0.01	2.0	66.766
MW-1	8/13/2008	0.02	9.0	75.766
MW-1	8/20/2008	0.02	0.0	75.766
MW-1	9/15/2008	0.04	3.0	78.766
MW-1	10/15/2008	0.01	8.0	86.766
MW-1	11/17/2008	0.00	0.0	86.766
MW-1	12/18/2008	0.00	0.0	86.766
MW-1	1/14/2009	0.01	2.0	88.766
MW-1	2/4/2009	0.01	4.0	92.766
MW-1	2/25/2009	0.02	1.0	93.766
MW-1	3/11/2009	0.01	2.5	96.266
MW-1	4/8/2009	0.00	0.0	96.266
MW-1	5/28/2009	0.01	3.0	99.266
MW-1	6/16/2009	0.01	4.0	103.266
MW-1	7/22/2009	0.01	8.0	111.266
MW-1	8/6/2009	0.01	2.5	113.766
MW-1	9/11/2009	0.01	4.0	117.766
MW-1	10/29/2009	<0.01 (SHEEN)	0.0	117.77
MW-1	11/12/2009	0.00	0.0	117.766
MW-1	12/11/2009	0.00	0.0	117.766
MW-2	4/1/2008	0.01	1.5	1.500
MW-2	5/7/2008	0.04	*	1.500
MW-2	5/20/2008	0.00	1.0	2.500
MW-2	6/18/2008	0.00	2.5	5.000
MW-2	7/16/2008	0.01	1.5	6.500
MW-2	8/13/2008	<0.01 (SHEEN)	4.0	10.50
MW-2	8/20/2008	0.01	0.0	10.500
MW-2	9/15/2008	0.00	0.0	10.500
MW-2	10/15/2008	0.01	1.0	11.500
MW-2	11/17/2008	<0.01 (SHEEN)	0.0	11.500
MW-2	12/18/2008	0.00	0.0	11.500
MW-2	1/14/2009	0.00	0.0	11.500
MW-2	2/4/2009	0.00	0.0	11.500
MW-2	2/25/2009	0.00	0.0	11.500
MW-2	3/11/2009	0.00	0.0	11.500

TABLE 3
SUMMARY OF FREE PRODUCT REMOVAL
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

MW-2	4/8/2009	0.00	0.0	11.500
MW-2	5/28/2009	<0.01 (SHEEN)	0.0	11.500
MW-2	6/16/2009	0.01	3.0	14.500
MW-2	7/22/2009	0.00	0.0	14.500
MW-2	8/6/2009	0.01	4.0	18.500
MW-2	9/11/2009	0.00	0.0	18.500
MW-2	10/29/2009	0.00	0.0	18.500
MW-2	11/12/2009	NM	0.0	18.500
MW-2	12/11/2009	0.00	0.0	18.500
MW-8	11/02/93-12/09/98	0.12	1.620	1.620
MW-8	9/5/2001	0.04	--	1.660
MW-8	8/12/2003	<0.01 (SHEEN)	--	1.660
MW-8	10/3/2003	<0.01 (SHEEN)	--	1.660
MW-8	11/18/2003	<0.01 (SHEEN)	--	1.660
MW-8	12/31/2003	<0.01 (SHEEN)	--	1.660
MW-8	2/2/2004	<0.01 (SHEEN)	--	1.660
MW-8	2/23/2004	<0.01 (SHEEN)	--	1.660
MW-8	3/18/2004	<0.01 (SHEEN)	--	1.660
MW-8	4/13/2004	<0.01 (SHEEN)	--	1.660
MW-8	5/4/2004	<0.01 (SHEEN)	--	1.660
MW-8	6/2/2004	<0.01 (SHEEN)	--	1.660
MW-8	7/2/2004	--	--	1.660
MW-8	8/4/2004	0.05	0.110	1.770
MW-8	9/22/2004	--	--	1.770
MW-8	10/26/2004	--	--	1.770
MW-8	11/10/2004	--	--	1.770
MW-8	12/26/2004	--	--	1.770
MW-8	1/13/2005	--	--	1.770
MW-8	2/15/2005	--	--	1.770
MW-8	3/7/2005	--	--	1.770
MW-8	4/29/2005	--	--	1.770
MW-8	5/16/2005	--	--	1.770
MW-8	6/21/2005	--	--	1.770
MW-8	7/7/2005	--	--	1.770
MW-8	8/17/2005	--	--	1.770
MW-8	9/6/2005	--	--	1.770
MW-8	1/24/2006	--	--	1.770
MW-8	2/7/2006	--	--	1.770
MW-8	3/30/2006	--	--	1.770
MW-8	4/21/2006	--	--	1.770
MW-8	5/19/2006	<0.01 (SHEEN)	--	1.770
MW-8	6/22/2006	--	--	1.770
MW-8	7/31/2006	--	--	1.770
MW-8	8/23/2006	--	--	1.770
MW-8	9/28/2006	--	--	1.770
MW-8	11/15/2006	<0.01 (SHEEN)	--	1.770
MW-8	2/14/2007	<0.01 (SHEEN)	--	1.770
MW-8	5/22/2007	<0.01 (SHEEN)	--	1.770
MW-8	6/26/2007	--	--	1.770
MW-8	7/19/2007	--	--	1.770

TABLE 3
SUMMARY OF FREE PRODUCT REMOVAL
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

MW-8	8/15/2007	<0.01 (SHEEN)	--	1.770
MW-8	9/18/2007	--	--	1.770
MW-8	10/17/2007	--	--	1.770
MW-8	11/8/2007	--	--	1.770
MW-8	12/12/2007	--	--	1.770
MW-8	1/14/2008	NM	NM	1.770
MW-8	2/27/2008	NM	NM	1.770
MW-8	4/1/2008	NM	NM	1.770
MW-8	5/7/2008	NM	NM	1.770
MW-8	5/20/2008	0.00	0.000	1.770
MW-8	6/18/2008	0.00	0.000	1.770
MW-8	7/16/2008	0.00	0.000	1.770
MW-8	8/13/2008	0.00	0.000	1.770
MW-8	8/20/2008	0.01	0.000	1.770
MW-8	9/15/2008	NM	NM	1.770
MW-8	10/15/2008	0.01	1.000	2.770
MW-8	11/17/2008	NM	NM	2.770
MW-8	12/18/2008	0.00	0.000	2.770
MW-8	1/14/2009	NM	NM	2.770
MW-8	2/4/2009	NM	NM	2.770
MW-8	2/25/2009	<0.01 (SHEEN)	0.000	2.77
MW-8	3/11/2009	0.00	0.000	2.770
MW-8	4/8/2009	0.00	0.000	2.770
MW-8	5/28/2009	<0.01 (SHEEN)	0.000	2.77
MW-8	6/16/2009	0.00	0.000	2.770
MW-8	7/22/2009	0.00	0.000	2.770
MW-8	8/6/2009	NM	0.000	2.770
MW-8	9/11/2009	NM	0.000	2.770
MW-8	10/29/2009	0.00	0.0	2.770
MW-8	11/12/2009	NM	0.0	2.770
MW-8	12/11/2009	0.00	0.0	2.770
MW-9	11/2/93-4/29/97	0.10	<0.1	0.880
MW-9	11/5/1997	0.01	<0.1	0.880
MW-9	1/29/2003	0.10	0.190	1.070
MW-9	6/24/2003	NM	NM	1.070
MW-9	7/28/2003	<0.01 (SHEEN)	--	1.07
MW-9	8/12/2003	<0.01 (SHEEN)	--	1.07
MW-9	9/12/2003	<0.01 (SHEEN)	--	1.07
MW-9	10/3/2003	0.01	0.002	1.072
MW-9	11/18/2003	<0.01 (SHEEN)	--	1.07
MW-9	12/31/2003	<0.01 (SHEEN)	--	1.07
MW-9	2/2/2004	<0.01 (SHEEN)	--	1.07
MW-9	2/23/2004	<0.01 (SHEEN)	--	1.07
MW-9	3/18/2004	<0.01 (SHEEN)	--	1.07
MW-9	4/13/2004	<0.01 (SHEEN)	--	1.07
MW-9	5/4/2004	<0.01 (SHEEN)	--	1.07
MW-9	6/2/2004	<0.01 (SHEEN)	--	1.07
MW-9	7/2/2004	--	--	1.072
MW-9	8/4/2004	0.03	0.053	1.125
MW-9	9/22/2004	--	--	1.125

TABLE 3
SUMMARY OF FREE PRODUCT REMOVAL
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

MW-9	10/26/2004	--	--	1.125
MW-9	11/10/2004	--	--	1.125
MW-9	12/27/2004	--	--	1.125
MW-9	1/13/2005	--	--	1.125
MW-9	2/15/2005	--	--	1.125
MW-9	3/7/2005	--	--	1.125
MW-9	4/29/2005	--	--	1.125
MW-9	5/16/2005	--	--	1.125
MW-9	6/21/2005	--	--	1.125
MW-9	7/7/2005	--	--	1.125
MW-9	8/17/2005	--	--	1.125
MW-9	9/6/2005	--	--	1.125
MW-9	1/24/2006	--	--	1.125
MW-9	2/7/2006	SHEEN	--	1.125
MW-9	3/30/2006	--	--	1.125
MW-9	4/21/2006	--	--	1.125
MW-9	5/19/2006	NM	--	1.125
MW-9	6/22/2006	--	--	1.125
MW-9	7/31/2006	--	--	1.120
MW-9	8/23/2006	--	--	1.120
MW-9	9/28/2006	--	--	1.120
MW-9	11/15/2006	<0.01 (SHEEN)	--	1.120
MW-9	2/14/2007	<0.01 (SHEEN)	--	1.120
MW-9	5/22/2007	<0.01 (SHEEN)	--	1.120
MW-9	6/26/2007	--	--	1.120
MW-9	7/19/2007	--	--	1.120
MW-9	8/15/2007	<0.01 (SHEEN)	--	1.120
MW-9	9/18/2007	--	--	1.120
MW-9	10/17/2007	--	--	1.120
MW-9	11/8/2007	--	--	1.120
MW-9	12/12/2007	--	--	1.120
MW-9	1/14/2008	--	--	1.120
MW-9	2/27/2008	--	--	1.120
MW-9	4/1/2008	0.00	0.000	1.120
MW-9	5/7/2008	0.03	*	1.120
MW-9	5/20/2008	0.00	0.000	1.120
MW-9	6/18/2008	0.00	0.000	1.120
MW-9	7/16/2008	0.00	0.000	1.120
MW-9	8/13/2008	0.00	0.000	1.120
MW-9	8/20/2008	0.01	0.000	1.120
MW-9	9/15/2008	0.01	1.000	2.120
MW-9	10/15/2008	0.00	0.000	2.120
MW-9	11/17/2008	0.00	0.000	2.120
MW-9	12/18/2008	0.00	0.000	2.120
MW-9	1/14/2009	0.00	0.000	2.120
MW-9	2/4/2009	0.01	1.500	3.620
MW-9	2/25/2009	<0.01 (SHEEN)	0.000	3.620
MW-9	3/11/2009	0.00	0.000	3.62
MW-9	4/8/2009	0.00	0.000	3.620
MW-9	5/28/2009	<0.01 (SHEEN)	0.000	3.620

TABLE 3
SUMMARY OF FREE PRODUCT REMOVAL
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

MW-9	6/16/2009	0.01	0.000	3.620
MW-9	7/22/2009	0.00	0.000	3.620
MW-9	8/6/2009	0.00	0.000	3.620
MW-9	9/11/2009	0.00	0.000	3.620
MW-9	10/29/2009	0.00	0.0	3.620
MW-9	11/12/2009	NM	0.0	3.620
MW-9	12/11/2009	NM	0.0	3.620
MW-10	9/7/93-7/23/96	--	10.520	10.520
MW-10	9/4/1996	0.76	0.100	10.620
MW-10	11/11/1996	--	0.200	10.820
MW-10	1/21/1997	--	<0.03	10.850
MW-10	4/29/1997	--	0.040	10.890
MW-10	4/29/1997	--	0.040	10.930
MW-10	12/2/1997	0.03	<0.1	10.930
MW-10	2/3/1998	--	<0.1	10.930
MW-10	9/5/2001	0.01	--	10.930
MW-10	11/12/2002	0.07	0.010	10.940
MW-10	1/29/2003	0.03	0.030	10.970
MW-10	6/24/2003	0.04	0.010	10.980
MW-10	7/28/2003	0.04	0.020	11.000
MW-10	8/12/2003	<0.01 (SHEEN)	--	11.000
MW-10	10/3/2003	<0.01 (SHEEN)	--	11.000
MW-10	11/18/2003	<0.01 (SHEEN)	--	11.000
MW-10	12/31/2003	<0.01 (SHEEN)	--	11.000
MW-10	2/2/2004	<0.01 (SHEEN)	--	11.000
MW-10	2/23/2004	<0.01 (SHEEN)	--	11.000
MW-10	3/18/2004	<0.01 (SHEEN)	--	11.000
MW-10	4/13/2004	<0.01 (SHEEN)	--	11.000
MW-10	5/4/2004	<0.01 (SHEEN)	--	11.000
MW-10	6/2/2004	<0.01 (SHEEN)	--	11.000
MW-10	7/2/2004	<0.01 (SHEEN)	--	11.000
MW-10	8/4/2004	0.08	0.110	11.110
MW-10	9/22/2004	--	--	11.110
MW-10	10/26/2004	--	--	11.110
MW-10	11/10/2004	--	--	11.110
MW-10	12/27/2004	--	--	11.110
MW-10	1/13/2005	<0.01 (SHEEN)	--	11.110
MW-10	2/15/2005	--	--	11.110
MW-10	3/7/2005	--	--	11.110
MW-10	4/29/2005	--	--	11.110
MW-10	5/16/2005	--	--	11.110
MW-10	6/21/2005	--	--	11.110
MW-10	7/7/2005	--	--	11.110
MW-10	8/17/2005	--	--	11.110
MW-10	9/6/2005	--	--	11.110
MW-10	1/24/2006	--	--	11.110
MW-10	2/7/2006	SHEEN	--	11.110
MW-10	3/30/2006	--	--	11.110
MW-10	4/21/2006	--	--	11.110
MW-10	5/19/2006	<0.01 (SHEEN)	--	11.110

TABLE 3
SUMMARY OF FREE PRODUCT REMOVAL
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

MW-10	6/22/2006	--	--	11.110
MW-10	7/31/2006	--	--	11.110
MW-10	8/23/2006	--	--	11.110
MW-10	9/28/2006	--	--	11.110
MW-10	11/15/2006	<0.01 (SHEEN)	--	11.110
MW-10	2/14/2007	<0.01 (SHEEN)	--	11.110
MW-10	5/22/2007	<0.01 (SHEEN)	--	11.110
MW-10	6/26/2007	<0.01 (SHEEN)	--	11.110
MW-10	7/19/2007	--	--	11.110
MW-10	8/15/2007	<0.01 (SHEEN)	--	11.110
MW-10	9/18/2007	--	--	11.110
MW-10	10/17/2007	--	--	11.110
MW-10	11/8/2007	--	--	11.110
MW-10	12/12/2007	--	--	11.110
MW-10	1/14/2008	--	--	11.110
MW-10	2/27/2008	--	--	11.110
MW-10	4/1/2008	0.00	0.000	11.110
MW-10	5/7/2008	0.00	0.000	11.110
MW-10	5/20/2008	0.00	0.000	11.110
MW-10	6/18/2008	0.00	0.000	11.110
MW-10	7/16/2008	0.01	1.500	12.610
MW-10	8/13/2008	0.01	2.000	14.610
MW-10	8/20/2008	0.01	0.000	14.610
MW-10	9/15/2008	0.00	0.000	14.610
MW-10	10/15/2008	0.01	1.000	15.610
MW-10	11/17/2008	0.00	0.000	15.610
MW-10	12/18/2008	0.00	0.000	15.610
MW-10	1/14/2009	0.00	0.000	15.610
MW-10	2/4/2009	0.00	0.000	15.610
MW-10	2/25/2009	0.00	0.000	15.610
MW-10	3/11/2009	0.00	0.000	15.610
MW-10	4/8/2009	0.00	0.000	15.610
MW-10	5/28/2009	<0.01 (SHEEN)	0.000	15.61
MW-10	6/16/2009	0.01	0.000	15.610
MW-10	7/22/2009	0.02	2.500	18.110
MW-10	8/6/2009	0.00	0.000	18.110
MW-10	9/11/2009	0.01	2.500	20.610
MW-10	10/29/2009	0.00	0.0	20.610
MW-10	11/12/2009	NM	0.0	20.610
MW-10	12/11/2009	0.00	0.0	20.610
RW-1	9/5/2001	0.02	--	0.000
RW-1	6/20/2002	**	--	0.000
RW-1	9/11/2002	0.03	0.040	0.040
RW-1	11/12/2002	0.02	0.030	0.070
RW-1	1/29/2003	0.04	0.070	0.140
RW-1	6/24/2003	0.07	0.040	0.180
RW-1	7/28/2003	0.04	0.020	0.200
RW-1	8/12/2003	<0.01 (SHEEN)	--	0.20
RW-1	9/12/2003	0.07	0.100	0.300
RW-1	10/3/2003	0.03	0.040	0.340

TABLE 3
SUMMARY OF FREE PRODUCT REMOVAL
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

RW-1	11/18/2003	<0.01 (SHEEN)	--	0.34
RW-1	12/31/2003	<0.01 (SHEEN)	--	0.34
RW-1	2/23/2004	0.01	0.005	0.345
RW-1	3/18/2004	0.09	0.120	0.465
RW-1	4/13/2004	0.02	0.030	0.495
RW-1	5/4/2004	0.02	0.030	0.525
RW-1	6/2/2004	0.05	0.020	0.545
RW-1	7/2/2004	0.11	0.162	0.707
RW-1	8/4/2004	0.05	0.159	0.865
RW-1	9/22/2004	0.06	0.088	0.953
RW-1	10/26/2004	0.01	0.010	0.963
RW-1	11/10/2004	0.02	0.030	0.993
RW-1	12/27/2004	0.03	0.010	1.003
RW-1	1/13/2005	0.01	0.004	1.007
RW-1	2/15/2005	0.03	0.044	1.051
RW-1	3/7/2005	0.02	0.029	1.080
RW-1	4/29/2005	0.03	0.044	1.124
RW-1	5/16/2005	0.02	0.029	1.154
RW-1	6/21/2005	0.03	0.013	1.167
RW-1	7/7/2005	0.06	0.092	1.259
RW-1	8/17/2005	0.03	0.044	1.304
RW-1	9/6/2005	0.03	0.044	1.348
RW-1	10/4/2005	0.07	0.100	1.448
RW-1	11/18/2005	0.07	0.010	1.458
RW-1	12/30/2005	0.04	0.006	1.464
RW-1	1/24/2006	0.01	0.015	1.479
RW-1	2/7/2006	0.01	0.015	1.494
RW-1	3/30/2006	0.02	0.030	1.524
RW-1	4/21/2006	0.00	0.000	1.524
RW-1	5/19/2006	0.04	0.058	1.582
RW-1	6/22/2006	0.03	0.044	1.626
RW-1	7/31/2006	0.12	0.176	1.802
RW-1	8/23/2006	0.07	0.103	1.905
RW-1	9/28/2006	0.07	0.103	2.008
RW-1	11/15/2006	0.07	--	2.008
RW-1	2/14/2007	0.04	*	2.008
RW-1	3/14/2007	0.05	****	2.008
RW-1	4/10/2007	0.10	****	2.008
RW-1	5/22/2007	**	****	2.008
RW-1	6/26/2007	0.05	****	2.008
RW-1	7/19/2007	<0.01 (SHEEN)	--	2.01
RW-1	8/15/2007	0.02	2.0	4.008
RW-1	9/18/2007	0.03	2.0	6.008
RW-1	10/17/2007	0.01	4.0	10.008
RW-1	11/8/2007	0.01	2.5	12.508
RW-1	12/12/2007	0.01	2.5	15.008
RW-1	1/14/2008	0.01	4.0	19.008
RW-1	2/27/2008	--	1.0	20.008
RW-1	4/1/2008	0.01	1.5	21.508
RW-1	5/7/2008	NM	NM	21.508

TABLE 3
SUMMARY OF FREE PRODUCT REMOVAL
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE, OAKLAND, CALIFORNIA
ACEH No.: R0000014

RW-1	5/20/2008	0.00	2.0	23.508
RW-1	6/18/2008	0.00	3.0	26.508
RW-1	7/16/2008	0.02	4.0	30.508
RW-1	8/13/2008	0.01	7.0	37.508
RW-1	8/20/2008	0.02	0.0	37.508
RW-1	9/15/2008	0.02	4.0	41.508
RW-1	10/15/2008	0.03	3	44.51
RW-1	11/17/2008	0.00	0.0	44.508
RW-1	12/18/2008	0.00	0.0	44.508
RW-1	1/14/2009	0.01	3.0	47.508
RW-1	2/4/2009	0.01	3.5	51.008
RW-1	2/25/2009	0.02	4.0	55.008
RW-1	3/11/2009	0.01	3.5	58.508
RW-1	4/8/2009	0.00	0.0	58.508
RW-1	5/28/2009	0.01	3.0	61.508
RW-1	6/16/2009	0.01	0.0	61.508
RW-1	7/22/2009	0.01	1.5	63.008
RW-1	8/6/2009	0.01	4.0	67.008
RW-1	9/11/2009	0.01	4.0	71.008
RW-1	10/29/2009	0.00	0.0	71.008
RW-1	11/12/2009	0.00	0.0	71.008
RW-1	12/11/2009	0.00	0.0	71.008

Total Free Product = 234.27

Notes:

NM = Unable to gauge free product thickness or remove product because the well was inaccessible.

* No hazardous waste drum on-site or drum was full, therefore no product was removed.

** Indeterminate thickness of product. The nature of product is unknown, very viscous.

*** Data prior to 1998 is incomplete, and amounts removed are estimates based on quarter reports from the previous consultants

**** Absorbent socks used to collect product. Unknown amount of product recovered.

1) The data within this table collected prior to June 2006 was provided to BAI by RM and their previous consultants. BAI has not verified the accuracy of this information.

2) The data within this table collected prior to September 2009 was provided to ARCADIS by BAI and their previous consultants. ARCADIS has not verified the accuracy of this information.

ARCADIS

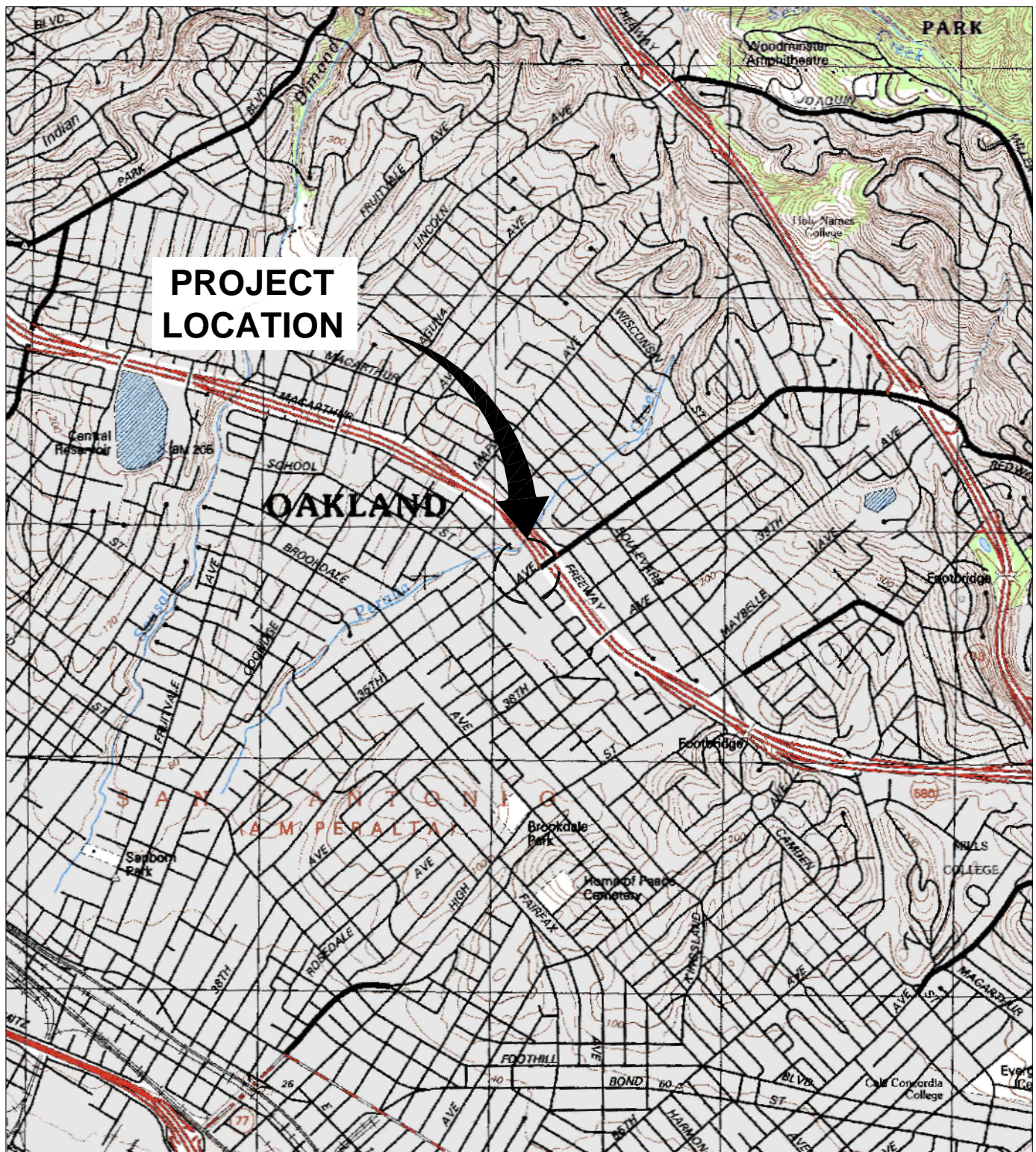
Appendix A

Soil Boring Logs

Appendix **B**

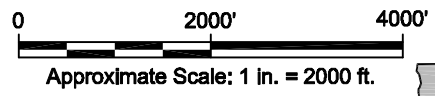
Charts - Concentration Trends Over
Time


CITY: POTALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: PIC: RM: H. PHILLIPS TM: J. PETERSON LVR: (OPTION) OFF: REF
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**PROJECT
LOCATION**

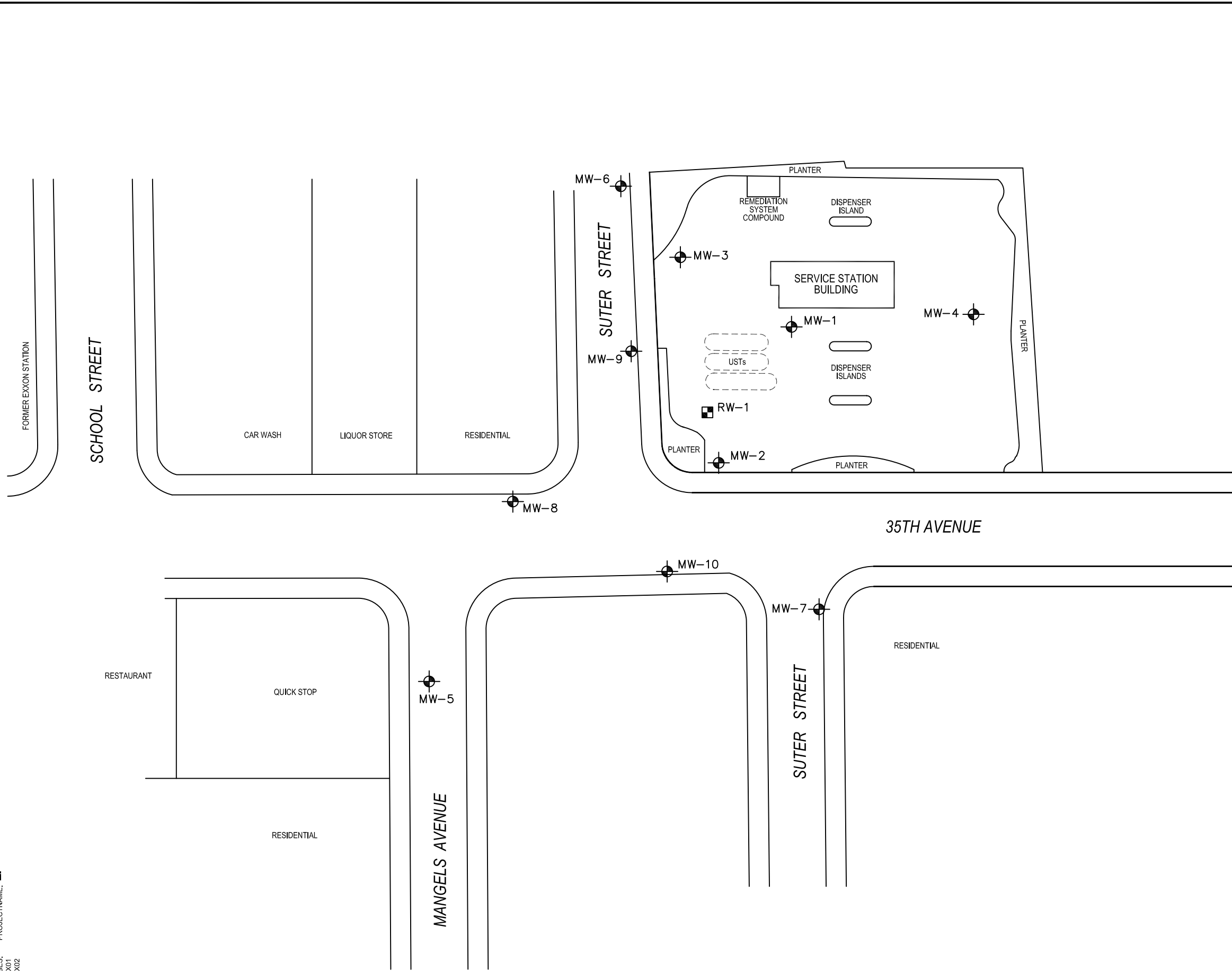
REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND EAST, CALIFORNIA, 1997.



FORMER BP STATION NO. 11132 3201 35TH AVENUE OAKLAND, CALIFORNIA REMEDIAL ACTION PLAN	
SITE LOCATION MAP	
	FIGURE 1

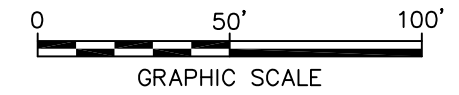
CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: PIC: PM: H. PHILLIPS TM: J. PETERSON LYR: OPTION OFF REF
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 GP09BPNA.C112-402



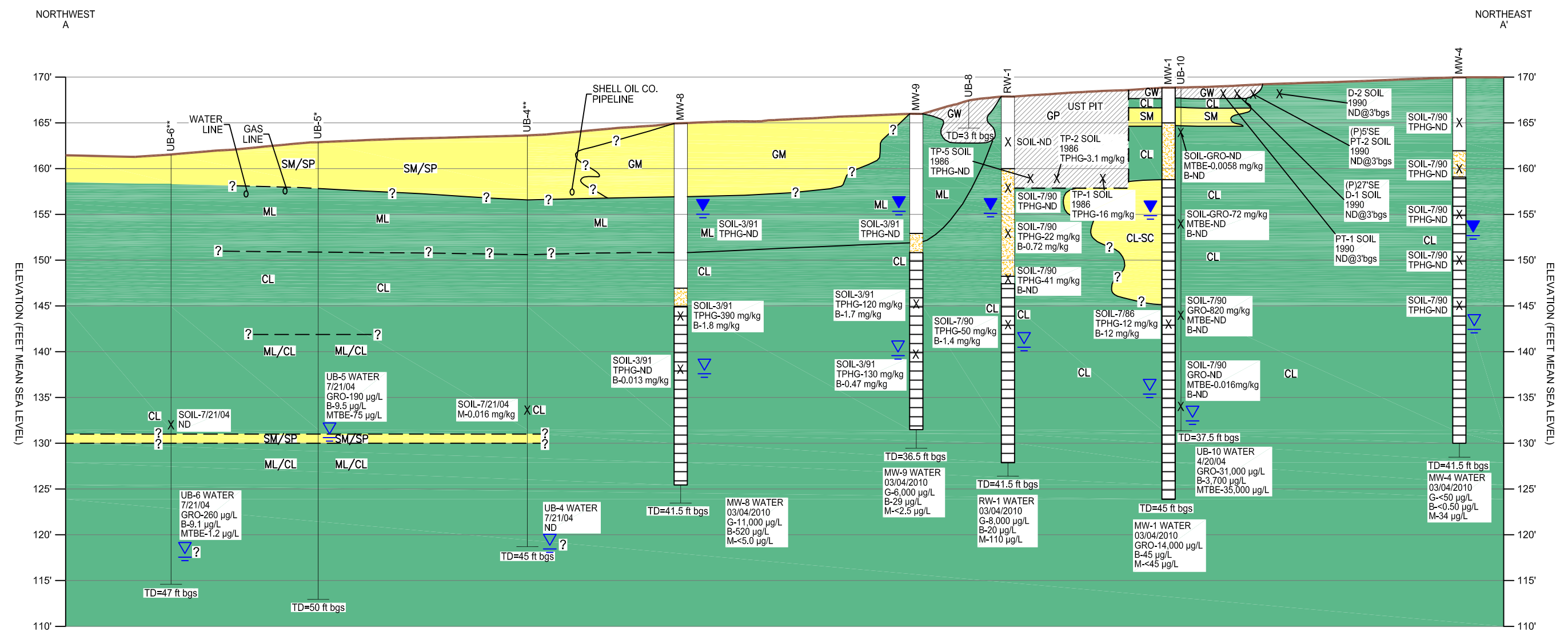
- LEGEND
- MW-1 GROUNDWATER MONITORING WELL
 - RW-1 GROUNDWATER RECOVERY WELL

NOTE:
 BASE MAP PROVIDED BY BROADBENT & ASSOCIATES, INC.,
 DATED 9/15/09, AT A SCALE OF 1"=50'.



FORMER BP STATION NO. 11132 3201 35TH AVENUE OAKLAND, CALIFORNIA REMEDIAL ACTION PLAN	
SITE MAP	
	FIGURE 2

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS TM: J. PETERSON LYR:OPTION=OFF+REF*
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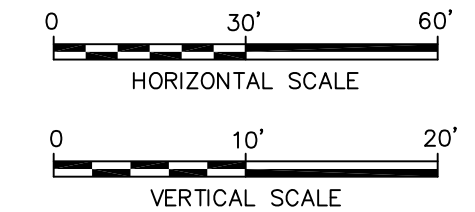


LEGEND

- WELL CASING
- FILTER PACK INTERVAL
- SCREENED INTERVAL
- FIRST ENCOUNTERED WATER WHILE DRILLING
- STATIC WATER LEVEL IN COMPLETED WELL, MARCH 4, 2010
- MSL
- FEET ABOVE MEAN SEA LEVEL

- ** NOT LOGGED EXCEPT FOR SINGLE SOIL SAMPLE AT 30-31 FT BGS
- * LITHOLOGY INTERPRETED FROM CONE PENETROMETER LOG AND DATA
- GP=GRAVEL
GW=GRAVEL
SP=SAND } HIGH PERMEABILITY
- SM=SILTY SAND
GM=SILTY GRAVEL
GC=GRAVELY CLAY
SC=CLAYEYSAND } MODERATE PERMEABILITY
- ML=SILT
CL=CLAY
CH=CLAY } LOW PERMEABILITY
- ? CL SM LITHOLOGY CONTACT; INFERRED WHERE DASHED OR QUERIED
- UST EXCAVATION; BACKFILLED WITH GRAVEL

- X-SOIL-MTBE 0.018 mg/kg SOIL SAMPLE ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM
- WATER-MTBE .75 µg/L WATER SAMPLE ANALYTICAL RESULTS IN MICROGRAMS PER LITER
- G GASOLINE RANGE ORGANICS CONCENTRATION
- B BENZENE CONCENTRATION
- M METHYL TERT-BUTYL ETHER CONCENTRATION



FORMER BP STATION NO. 11132
 3201 35TH AVENUE
 OAKLAND, CALIFORNIA
REMEDIAL ACTION PLAN

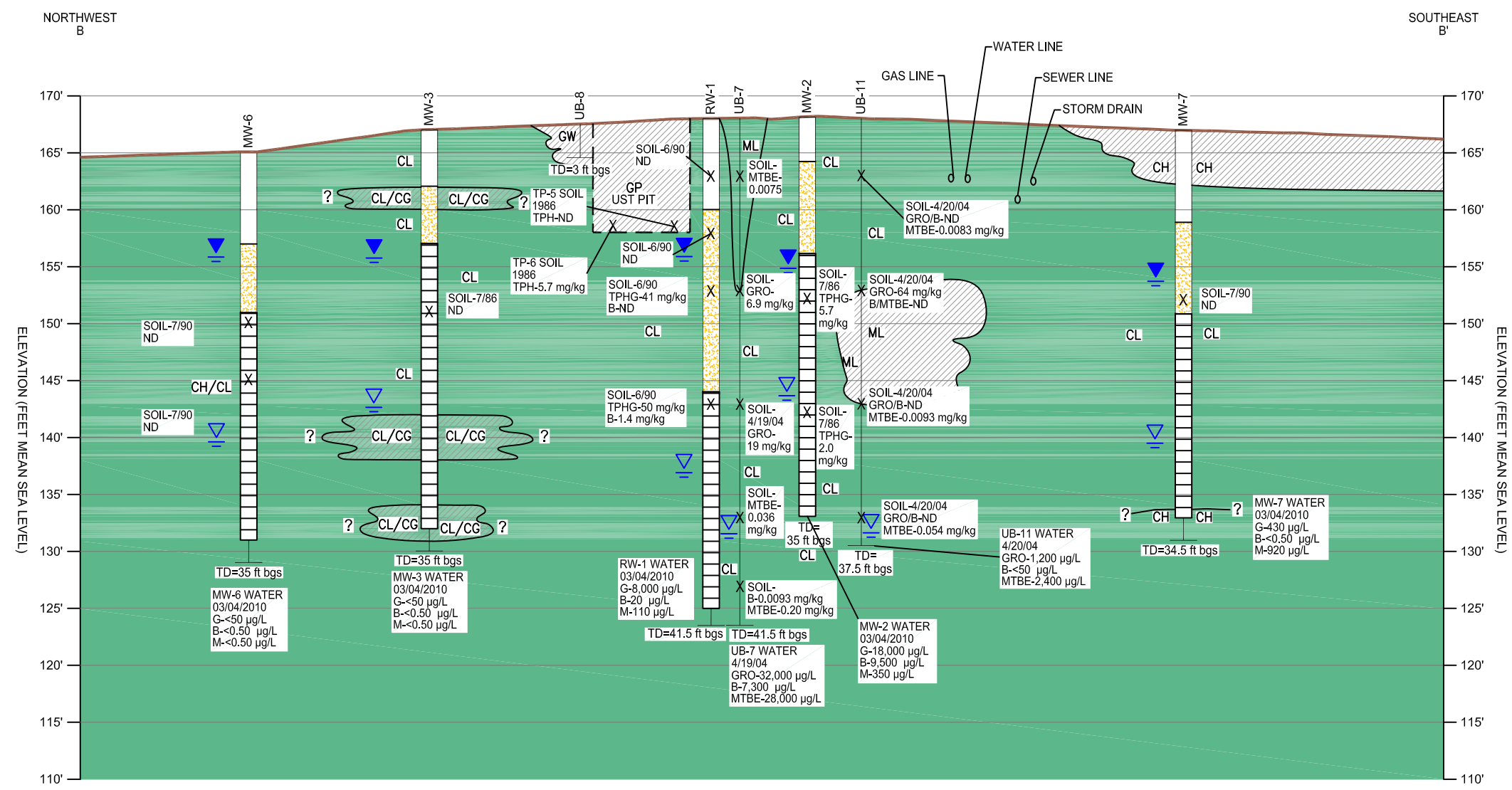
HYDROGEOLOGIC CROSS-SECTION A-A'

ARCADIS

FIGURE **3**

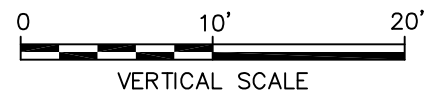
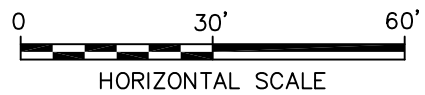
NOTE: BASE MAP ADAPTED FROM DRAWINGS PROVIDED BY BROADBENT & ASSOCIATES, INC. OF CHICO, CALIFORNIA, DATED OCTOBER 2004.

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 GP09BPNAAC112\0004_x-sections.jpg
 Figures 5_x-sections.jpg



LEGEND

- WELL CASING
- FILTER PACK INTERVAL
- SCREENED INTERVAL
- FIRST ENCOUNTERED WATER WHILE DRILLING
- STATIC WATER LEVEL IN COMPLETED WELL, MARCH 4, 2010
- MSL FEET ABOVE MEAN SEA LEVEL
- SOIL-SOIL-MTBE 0.018 mg/kg
- WATER-MTBE .75 µg/L
- GP=GRAVEL
GW=GRAVEL
SP=SAND } HIGH PERMEABILITY
- SM=SILTY SAND
GM=SILTY GRAVEL
GC=GRAVELY CLAY
SC=CLAYEY SAND } MODERATE PERMEABILITY
- ML=SILT
CL=CLAY
CH=CLAY } LOW PERMEABILITY
- ? CL SM LITHOLOGY CONTACT; INFERRED WHERE DASHED OR QUERIED
- UST EXCAVATION; BACKFILLED WITH GRAVEL



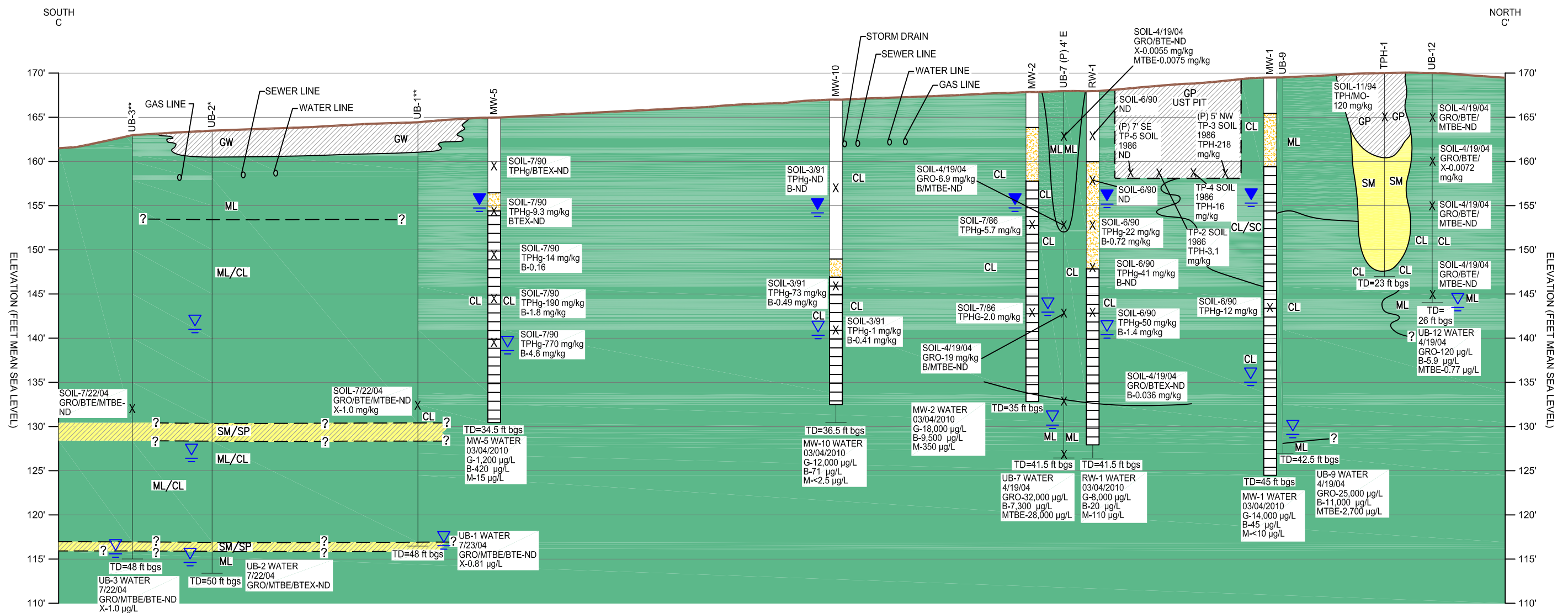
FORMER BP STATION NO. 11132
 3201 35TH AVENUE
 OAKLAND, CALIFORNIA
REMEDIAL ACTION PLAN

HYDROGEOLOGIC CROSS-SECTION B-B'















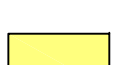

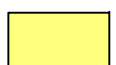


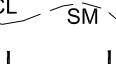

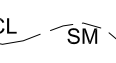
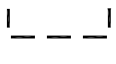
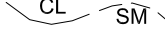
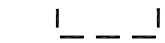
NOTE: BASE MAP ADAPTED FROM DRAWINGS PROVIDED BY BROADBENT & ASSOCIATES, INC. OF CHICO, CALIFORNIA, DATED OCTOBER 2004.

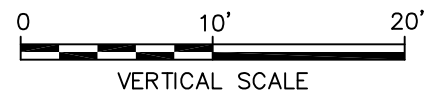
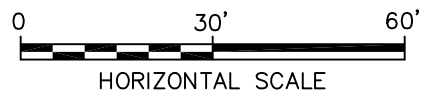
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LEGEND

-  WELL CASING
-  FILTER PACK INTERVAL
-  SCREENED INTERVAL
-  FIRST ENCOUNTERED WATER WHILE DRILLING
-  STATIC WATER LEVEL IN COMPLETED WELL, MARCH 4, 2010
-  MSL
-  SOIL SAMPLE ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM
-  WATER SAMPLE ANALYTICAL RESULTS IN MICROGRAMS PER LITER
-  G GASOLINE RANGE ORGANICS CONCENTRATION
-  B BENZENE CONCENTRATION
-  M METHYL TERT-BUTYL ETHER CONCENTRATION

- ** NOT LOGGED EXCEPT FOR SINGLE SOIL SAMPLE AT 30-31 FT BGS
- * LITHOLOGY INTERPRETED FROM CONE PENETROMETER LOG AND DATA
-  GP=GRAVEL
 GW=GRAVEL
 SP=SAND } HIGH PERMEABILITY
-  SM=SILTY SAND
 GM=SILTY GRAVEL
 GC=GRAVELY CLAY
 SC=CLAYEYSAND } MODERATE PERMEABILITY
-  ML=SILT
 CL=CLAY
 CH=CLAY } LOW PERMEABILITY
-  LITHOLOGY CONTACT; INFERRED WHERE DASHED OR QUERIED
-  UST EXCAVATION; BACKFILLED WITH GRAVEL



FORMER BP STATION NO. 11132
 3201 35TH AVENUE
 OAKLAND, CALIFORNIA
REMEDIAL ACTION PLAN

HYDROGEOLOGIC CROSS-SECTION C-C'


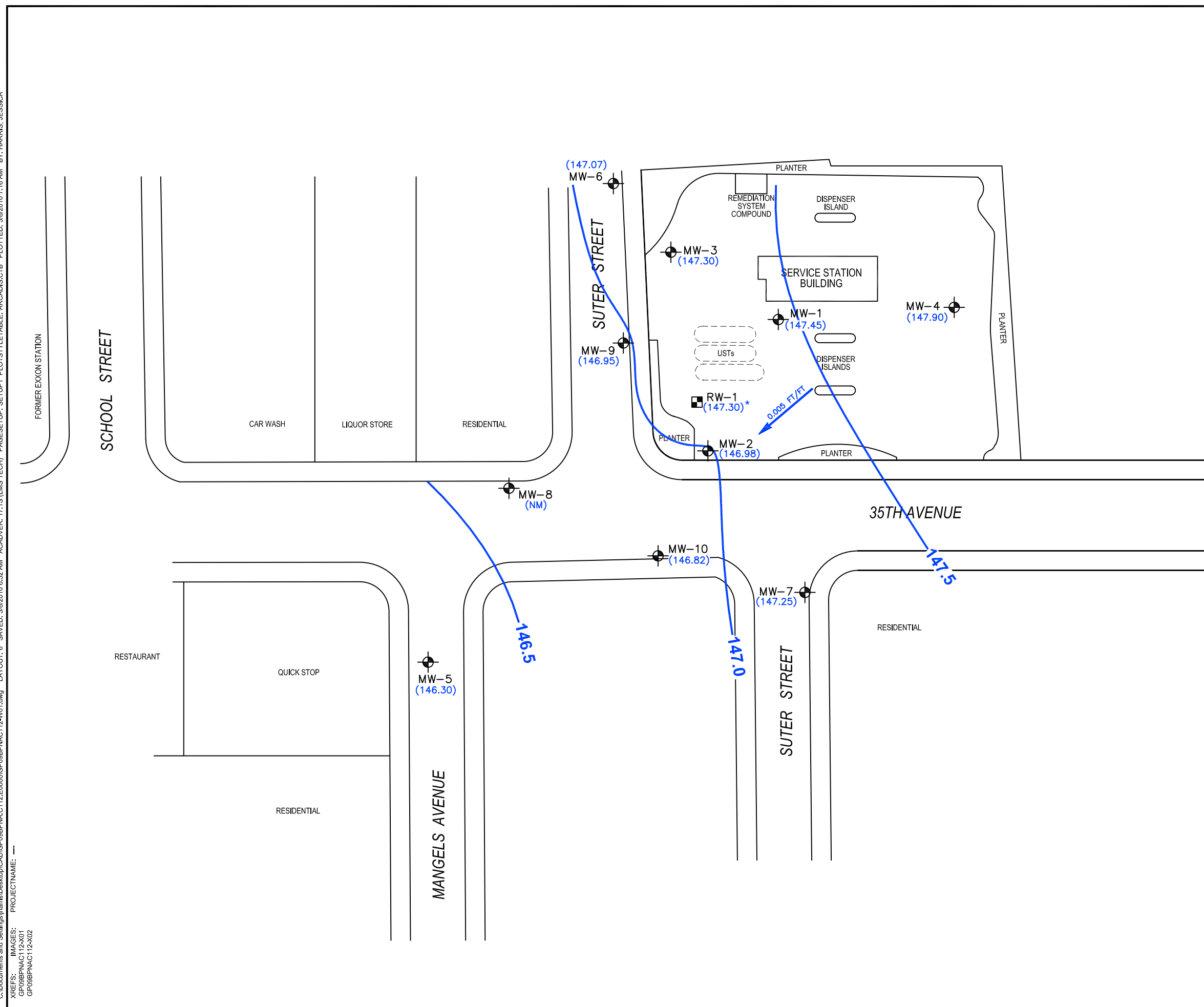
 **ARCADIS**

FIGURE
5

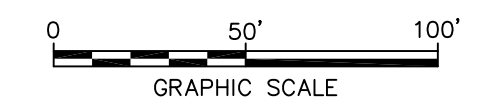
NOTE: BASE MAP ADAPTED FROM DRAWINGS PROVIDED BY BROADBENT & ASSOCIATES, INC. OF CHICO, CALIFORNIA, DATED OCTOBER 2004.

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: PIC: J. PETERSON LVR: OPTION OFF REF
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- LEGEND**
- MW-1 GROUNDWATER MONITORING WELL
 - RW-1 GROUNDWATER RECOVERY WELL
 - 147.0 GROUNDWATER ELEVATION CONTOUR (FEET ABOVE NAVD88)
 - (147.25) GROUNDWATER ELEVATION
 - 0.005 FT/FT GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
 - (NM) NOT MEASURED
 - * NOT USED FOR CONTOURING

NOTE:
 BASE MAP PROVIDED BY BROADBENT & ASSOCIATES, INC.,
 DATED 9/15/09, AT A SCALE OF 1"=50'.



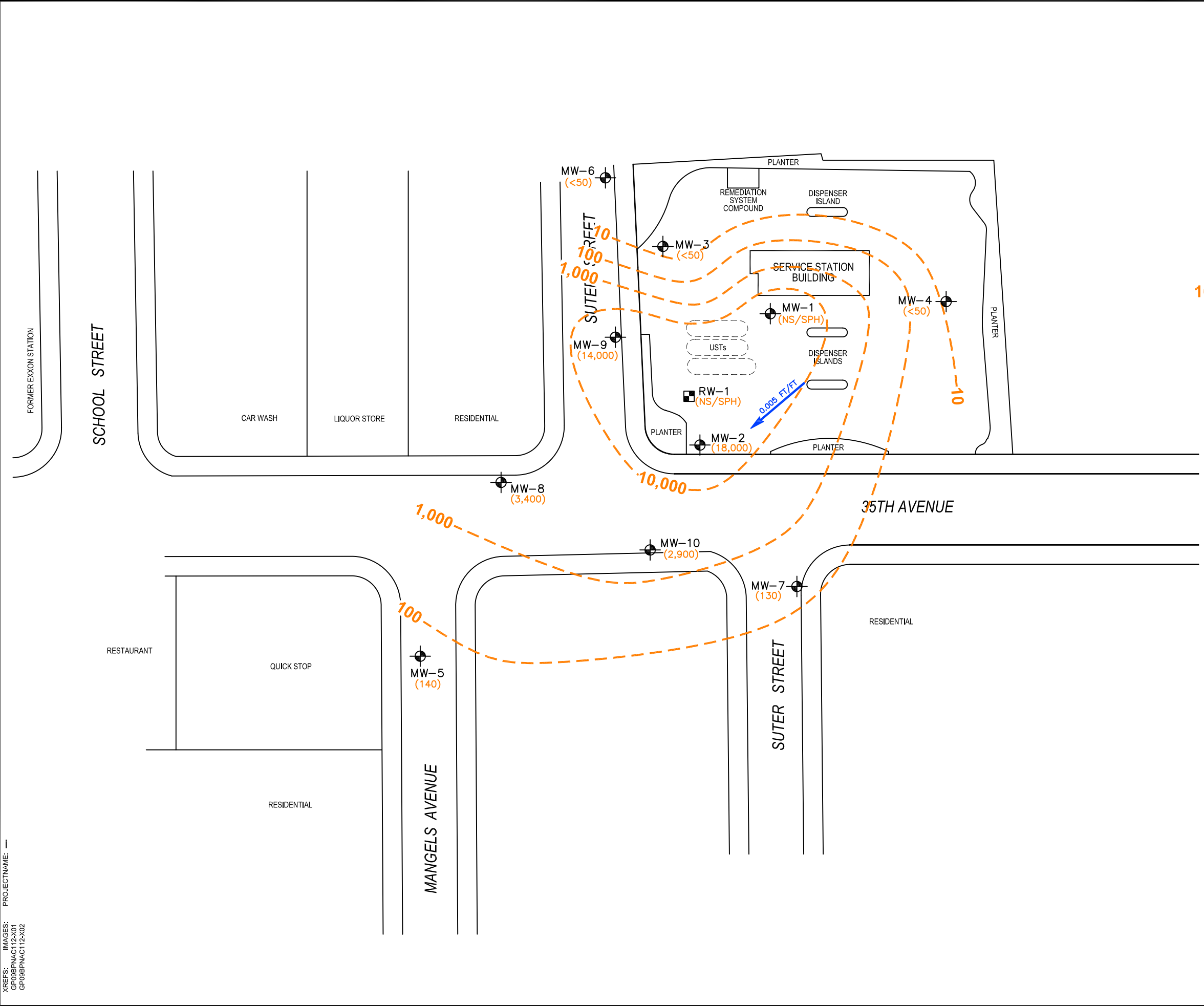
FORMER BP STATION NO. 11132
 3201 35TH AVENUE
 OAKLAND, CALIFORNIA
REMEDIAL ACTION PLAN

**GROUNDWATER ELEVATION MAP
 AUGUST 2009**

ARCADIS

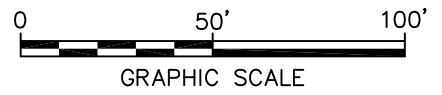
FIGURE
6


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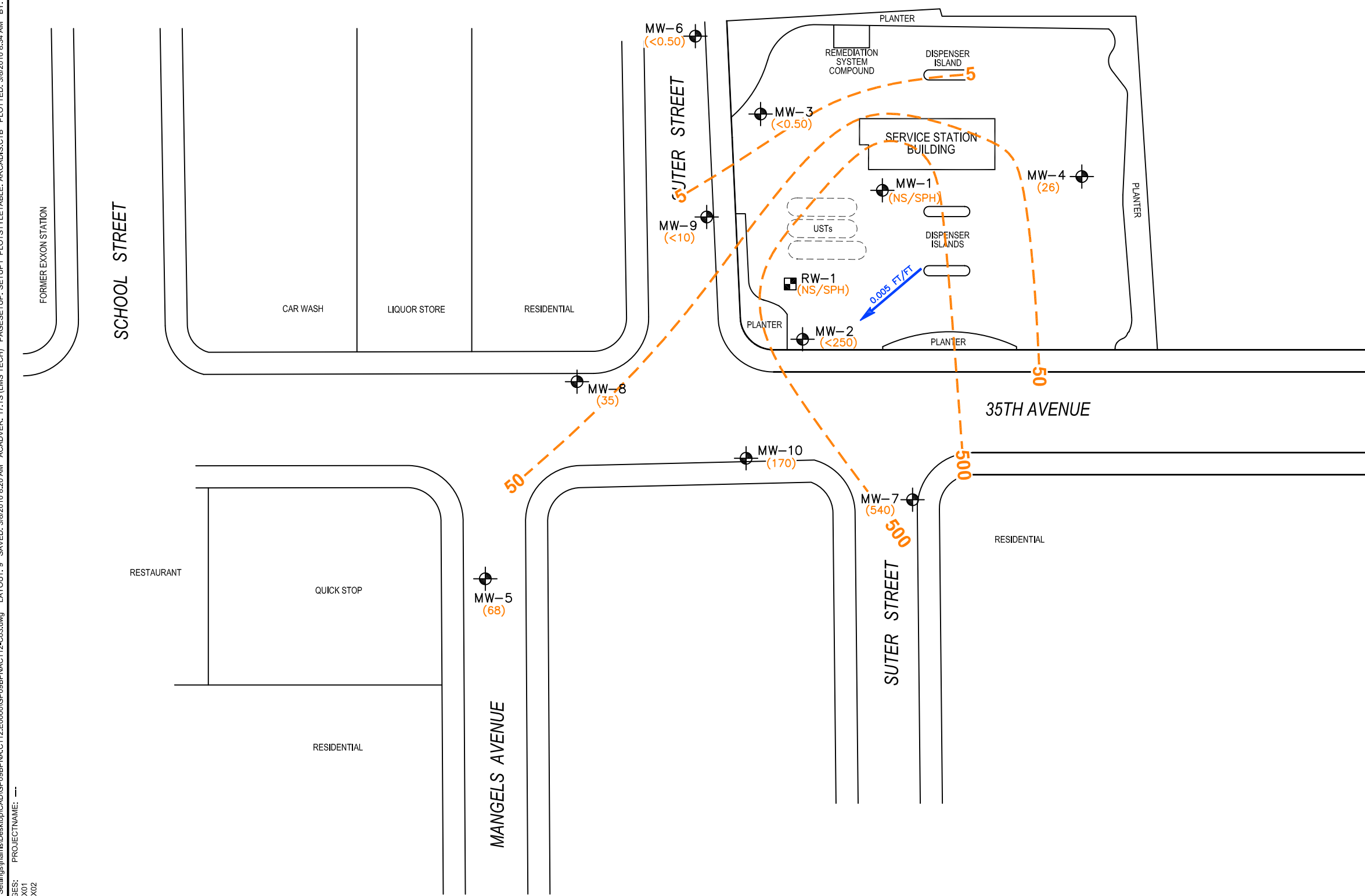
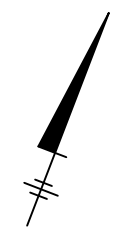
- LEGEND
- MW-1 ◉ GROUNDWATER MONITORING WELL
 - RW-1 ◐ GROUNDWATER RECOVERY WELL
 - 100 - - - GRO ISOCONCENTRATION CONTOUR LINE, DASHED WHERE INFERRED (µg/L)
 - (140) GRO CONCENTRATION (µg/L)
 - 0.005 FT/FT GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
 - (NS) NOT SAMPLED
 - (SPH) SEPARATE PHASE HYDROCARBON PRESENT
 - GRO GASOLINE RANGE ORGANICS
 - µg/L MICROGRAMS PER LITER
 - < NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS





NOTE:
 BASE MAP PROVIDED BY BROADBENT & ASSOCIATES, INC., DATED 9/15/09, AT A SCALE OF 1"=50'.



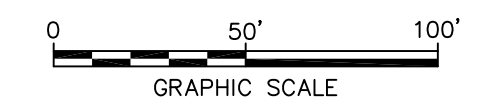
FORMER BP STATION NO. 11132 3201 35TH AVENUE OAKLAND, CALIFORNIA REMEDIATION ACTION PLAN	
GRO CONCENTRATIONS IN GROUNDWATER FEBRUARY 25, 2009	
	FIGURE 7

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: P.C. PM: H. PHILLIPS TM: J. PETERSON LYR:OPTION OFF REF
C:\Documents and Settings\jharris\Desktop\CAD\GP09BPNA-C112\E0000\GP09BPNA-C112-03.dwg LAYOUT: 9 SAVED: 3/8/2010 8:20 AM ACADVER: 17.1 S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 3/8/2010 8:34 AM BY: HARRIS, JESSICA
XREFS: IMAGES: GP09BPNA-C112-001 GP09BPNA-C112-002
PROJECTNAME:




- LEGEND
- MW-1  GROUNDWATER MONITORING WELL
 - RW-1  GROUNDWATER RECOVERY WELL
 -  MTBE ISOCONCENTRATION CONTOUR LINE, DASHED WHERE INFERRED (µg/L)
 - (540) MTBE CONCENTRATION (µg/L)
 -  0.005 FT/FT GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
 - (NS) NOT SAMPLED
 - (SPH) SEPARATE PHASE HYDROCARBON PRESENT
 - MTBE METHYL TERT-BUTYL ETHER
 - µg/L MICROGRAMS PER LITER
 - < NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS

NOTE:
BASE MAP PROVIDED BY BROADBENT & ASSOCIATES, INC.,
DATED 9/15/09, AT A SCALE OF 1"=50'.

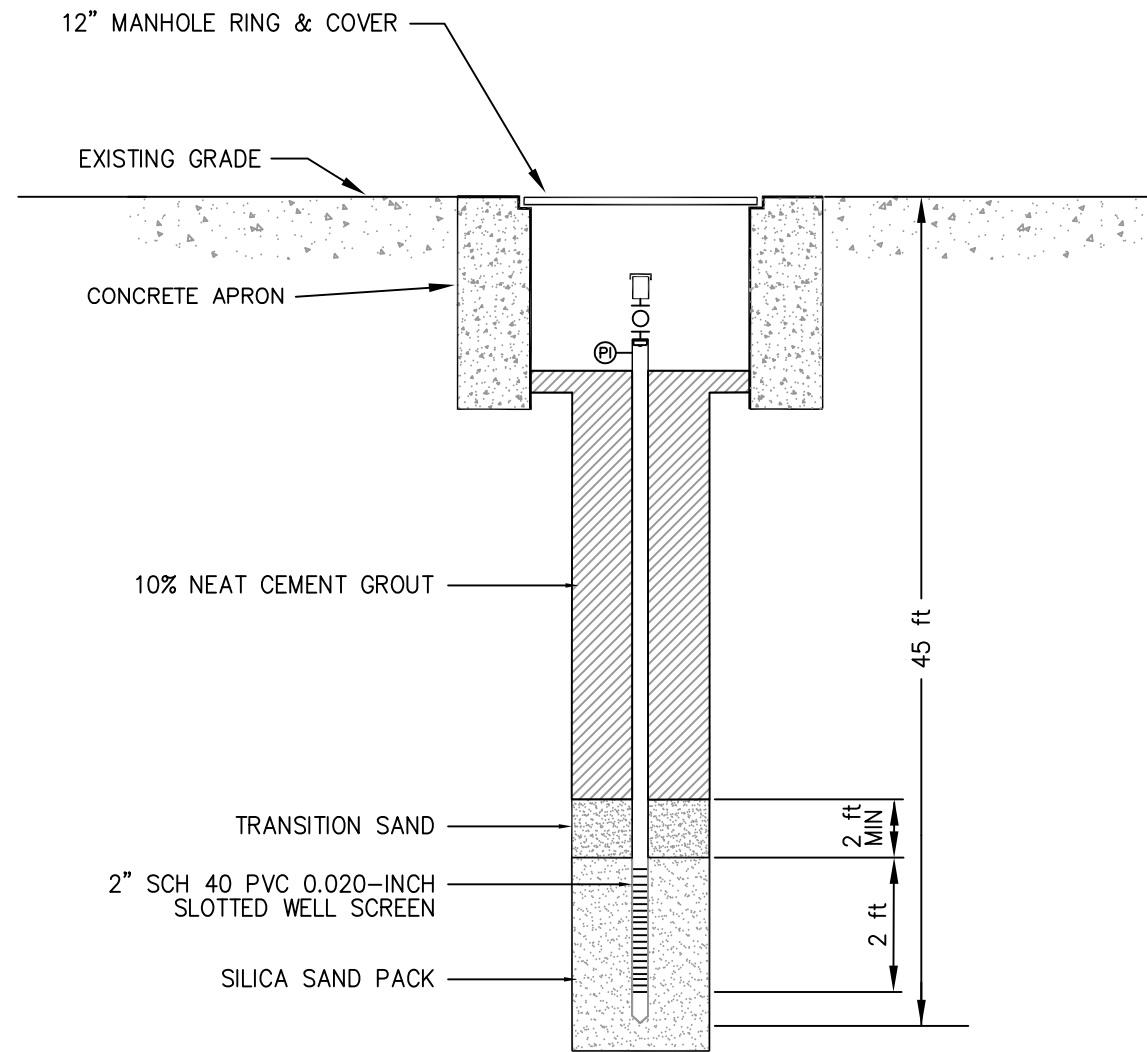


FORMER BP STATION NO. 11132
3201 35TH AVENUE
OAKLAND, CALIFORNIA
REMEDIATION ACTION PLAN

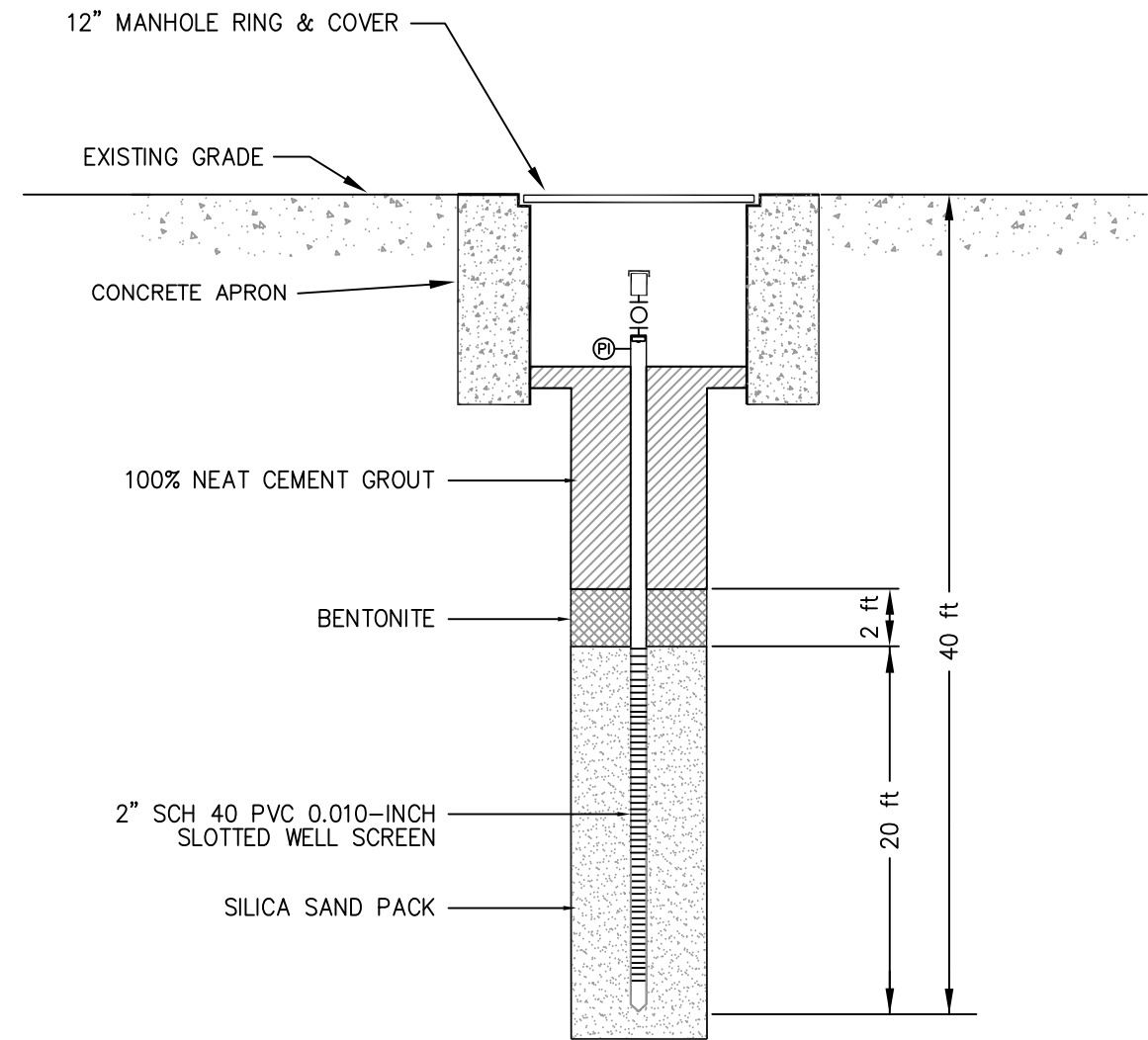
**MTBE CONCENTRATIONS IN
GROUNDWATER
FEBRUARY 25, 2009**

 **ARCADIS**

CITY: EMERYVILLE, CA | DIV: GROUP: ENV. DR.: J. HARRIS | LD.: | PIC.: | PM.: H. PHILLIPS | TIK: J. PETERSON | LVR: (OPTIONAL) OFF: REF: |
 C:\Documents and Settings\jsharris\Desktop\ENV\CA\RETURN\TO\EMERYVILLE\CA\GP\BP\NAC\12\EG\000\GP\BP\NAC\12\EG\04.dwg | LAYOUT: 10 | SAVER: 5/27/2010 1:58 PM | ACADVER: 17.1 | S (LMS TECH) | PAGES: 1 | PLOT: 1 | TABLE: ARCADIS.CTB | PLOTTED: 5/27/2010 3:25 PM | BY: HARRIS, JESSICA |
 XREFS: | IMAGES: | PROJECTNAME:



AIR SPARGE WELL



OBSERVATION WELL

NOTE: DIAGRAM NOT TO SCALE

FORMER BP STATION NO. 11132
 3201 35TH AVENUE
 OAKLAND, CALIFORNIA
REMEDIAL ACTION PLAN

**TYPICAL AIR SPARGE WELL/
 OBSERVATION WELL
 CONSTRUCTION DETAILS**

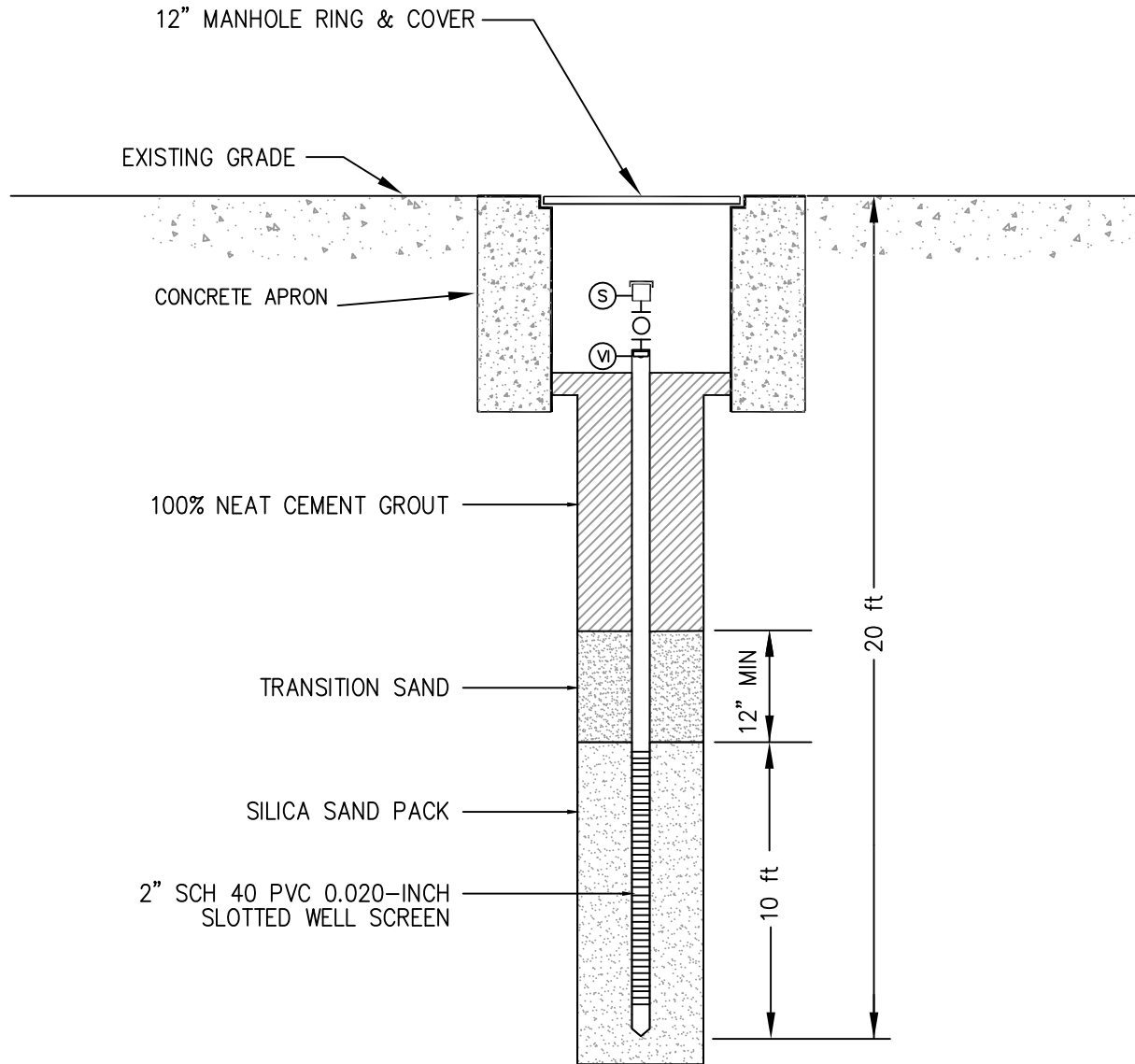


FIGURE
10

LEGEND:

- (PI) PRESSURE GAUGE
- ⊔ TRUE UNION BALL VALVE
- ⊔ CAMLOCK
- ▤ SCREEN INTERVAL

CITY: EMERYVILLE, CA DIV/GROUP: ENV DB: J. HARRIS LD: -- PIC: -- PM: H. PHILLIPS TM: J. PETERSON LYN: OYI/ONF-OFF=REF*
 C:\Documents and Settings\jharris\Desktop\ENV\CAURETURR\O\EMERYVILLE_CAGH\08\BPNAC12\00000\GROBPNAC12\GIZ\ZANG_LAYOUT:11_SAVED:5/20/2010 12:37 PM ACADVER: 17.1S (LMS TECH) PAGESETUP-SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 5/27/2010 2:06 PM BY: HARRIS, JESSICA
 XREFS: PROJECTNAME: --



VAPOR EXTRACTION/MONITORING WELL

NOTE: DIAGRAM NOT TO SCALE

FORMER BP STATION NO. 11132
 3201 35TH AVENUE
 OAKLAND, CALIFORNIA
REMEDIAL ACTION PLAN

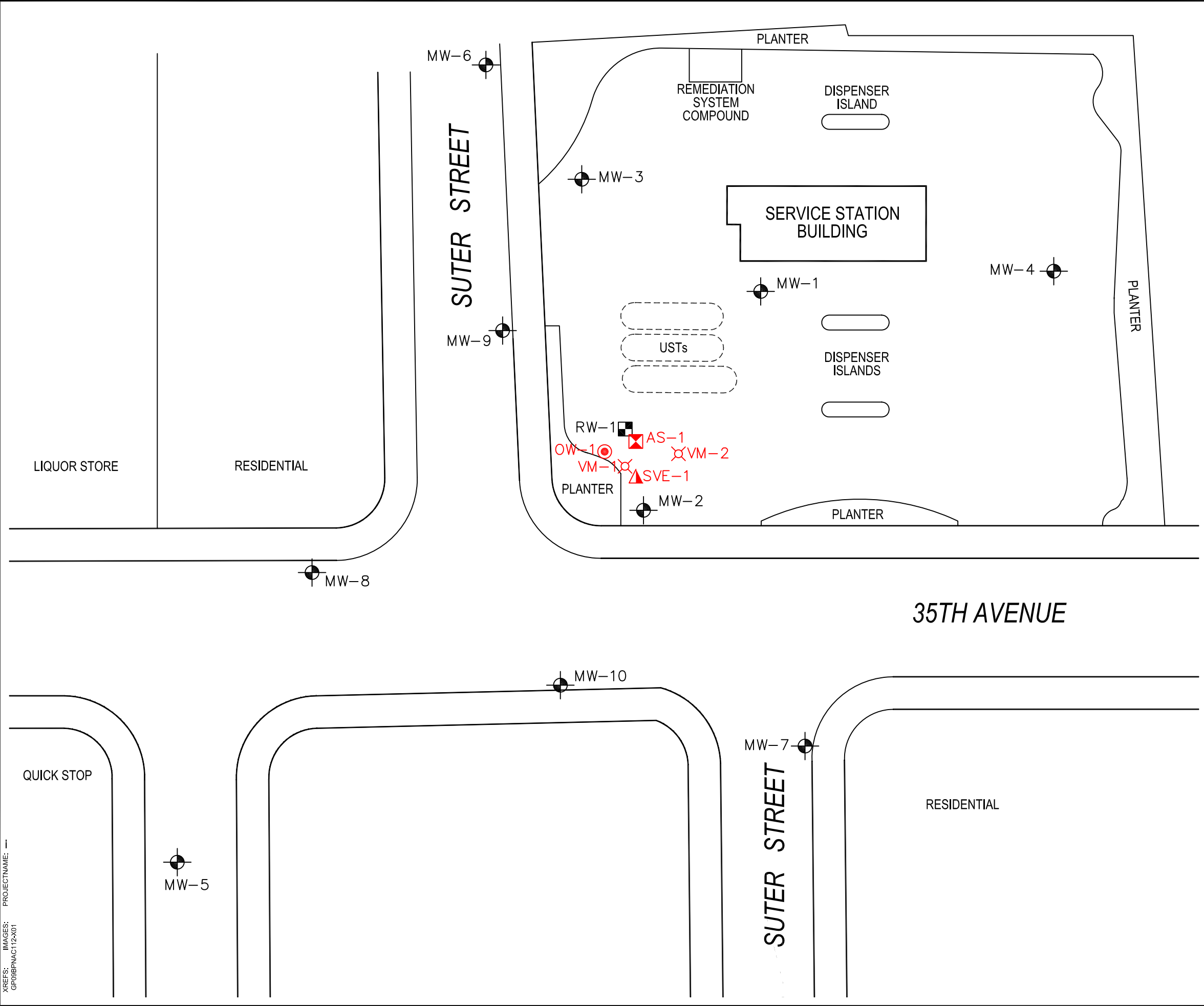
**TYPICAL VAPOR EXTRACTION AND
 VAPOR MONITORING WELL DETAILS**

- LEGEND:**
- (S) SAMPLE PORT
 - (V) VACUUM GAUGE
 - (O) TRUE UNION BALL VALVE
 - L CAMLOCK
 - ▤ SCREEN INTERVAL



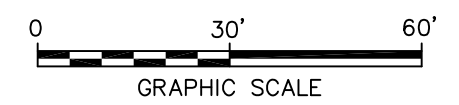
FIGURE
11

CITY: EMERYVILLE, CA DIV/GROUP: ENV DE: J. HARRIS LD: PIC: H. PHILLIPS TM: J. PETERSON LYR/OPTION: OFF REF: G:\ENV\CAD\Project\mair\RETURN\TO\Emeryville-CA\GP09BPAC112\12E0000\GP09BPAC112-403.dwg LAYOUT: 12 SAVED: 5/25/2010 2:23 PM ACADVER: 17.1 S (LWS TECH) PAGES: 17 PAGES SETUP: 1 PLOT STYLE TABLE: ARCADIS.CTB PLOTTED: 5/25/2010 2:46 PM BY: HARRIS, JESSICA



- LEGEND
- MW-1 GROUNDWATER MONITORING WELL
 - RW-1 GROUNDWATER RECOVERY WELL
 - AS-1 PROPOSED AIR SPARGE WELL
 - OW-1 PROPOSED OBSERVATION WELL
 - SVE-1 PROPOSED SOIL VAPOR EXTRACTION WELL
 - VM-1 PROPOSED SOIL VAPOR MONITORING WELL

NOTE:
 BASE MAP PROVIDED BY BROADBENT & ASSOCIATES, INC.,
 DATED 9/15/09, AT A SCALE OF 1"=50'.



FORMER BP STATION NO. 11132 3201 35TH AVENUE OAKLAND, CALIFORNIA REMEDIAL ACTION PLAN	
PROPOSED WELL LOCATIONS	
	FIGURE 12

DRILL RIG	Hollow Stem	SURFACE ELEVATION	----	LOGGED BY	JCW
DEPTH TO GROUNDWATER	As Noted	BORING DIAMETER	8"	DATE DRILLED	7/30/86

DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	UNCONFINED COMPRESSIVE STRENGTH (KSF)	WATER CONTENT (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FT.)
DESCRIPTION AND REMARKS	COLOR	CONSIST.	SOIL TYPE						
ASPHALT AND BASE ROCK									
SILTY CLAY (FILL)	dark brown	firm	CL						
SILTY SAND (old trench backfill)	gray to tan	loose	SM						
SILTY CLAY with rock fragments	tan to light brown	fine to stiff	CL	5					
Large angular cobbles									
SANDY CLAY, grading to clayey sand and gravel	tan to light brown	very stiff	CL-SC	10					
No product odor									
				15					
				20					

EXPLORATORY BORING LOG		
MOBIL OIL CORPORATION 35TH AVENUE, OAKLAND		
PROJECT NO.	DATE	BORING NO.
H182-20	8/86	MW-1

DRILL RIG Hollow Stem	SURFACE ELEVATION ----	LOGGED BY JCW
DEPTH TO GROUNDWATER As Noted	BORING DIAMETER 8"	DATE DRILLED 7/30/86

DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	UNCONFINED COMPRESSIVE STRENGTH (KSF)	WATER CONTENT (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FT.)
DESCRIPTION AND REMARKS	COLOR	CONSIST.	SOIL TYPE						
SANDY CLAY, grading to clayey sand and gravel (contd)			CL-SC						
SILTY CLAY, with some occasional sand and fine gravel No product odor			CL	25					
				30					
				35					
				40					

			EXPLORATORY BORING LOG		
			MOBIL OIL CORPORATION 35TH AVENUE, OAKLAND		
			PROJECT NO.	DATE	BORING NO.
			H182-20	8/86	MW-1

DRILL RIG Hollow Stem			SURFACE ELEVATION ----			LOGGED BY JCW			
DEPTH TO GROUNDWATER As Noted			BORING DIAMETER 8"			DATE DRILLED 7/30/86			
DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	UNCONFINED COMPRESSIVE STRENGTH (KSF)	WATER CONTENT (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FT.)
DESCRIPTION AND REMARKS	COLOR	CONSIST.	SOIL TYPE						
SILTY CLAY, with some occasional sand and fine gravel (Contd)				45					
TOTAL DEPTH = 45.0 feet									
				EXPLORATORY BORING LOG					
				MOBIL OIL CORPORATION 35TH AVENUE, OAKLAND					
				PROJECT NO.		DATE		BORING NO. MW-1	
				H182-20		8/86			

MOBIL OIL CORPORATION
OAKLAND, CALIFORNIA

MW-1

Well completed to 45.0 feet in depth with 2-inch Class 160 PVC casing, flush-threaded joints. Screen (.020-inch slot) set from 10.0 to 45.0 feet. 6 X 12 Monterey sand placed from 4.5 to 45.0 feet and concrete seal placed from 0 to 4.5 feet.

DRILL RIG Hollow Stem	SURFACE ELEVATION -----	LOGGED BY JCW
DEPTH TO GROUNDWATER As Noted	BORING DIAMETER 8"	DATE DRILLED 7/31/86

DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	UNCONFINED COMPRESSIVE STRENGTH (KSF)	WATER CONTENT (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FT.)
DESCRIPTION AND REMARKS	COLOR	CONSIST	SOIL TYPE						
ASPHALT AND BASE ROCK									
SILTY CLAY with rock fragments, dry	dark gray	stiff	CL						
Decreasing rock fragments (very faint "old" product odor)	blue-green			5					
				10					
Large angular gravel, damp No product odor			GL-GC						
				15					
SILTY CLAY; damp	tan to light brown	stiff	CL						
				20					

			EXPLORATORY BORING LOG		
			MOBIL OIL CORPORATION 35TH AVENUE, OAKLAND		
			PROJECT NO.	DATE	BORING NO.
			H182-20	8/86.	MW-2

DRILL RIG Hollow Stem	SURFACE ELEVATION ----	LOGGED BY JCW
DEPTH TO GROUNDWATER As Noted	BORING DIAMETER 8"	DATE DRILLED 7/31/86

DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	UNCONFINED COMPRESSIVE STRENGTH (KSF)	WATER CONTENT (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FT.)
DESCRIPTION AND REMARKS	COLOR	CONSIST.	SOIL TYPE						
SILTY CLAY (CONTD)	tan to light brown	stiff	CL						
SILTY CLAY with some fine sand and gravel (faint odor in sample above water table)	motld blue-gray to brown	stiff	CL-SC	25			▽		
				30					
				35					
TOTAL DEPTH = 35.0 feet									

EXPLORATORY BORING LOG		
MOBIL OIL CORPORATION 35TH AVENUE, OAKLAND		
PROJECT NO.	DATE	BORING NO.
H182-20	8/86	MW-2

MOBIL OIL CORPORATION
OAKLAND, CALIFORNIA

MW-2

Well completed to 35.0 feet in depth with 2-inch Class 160 PVC casing, flush-threaded joints. Screen (.020-inch slot) set from 10.0 to 35.0 feet. No. 3 Monterey sand placed from 4.5 to 35.0 feet, bentonite pellets placed from 4.0 to 4.5 feet, and concrete seal placed from 0 to 4.5 feet.

DRILL RIG Hollow Stem	SURFACE ELEVATION -----	LOGGED BY JCW
DEPTH TO GROUNDWATER As. Noted	BORING DIAMETER 8"	DATE DRILLED 7/31/86

DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	UNCONFINED COMPRESSIVE STRENGTH (KSF)	WATER CONTENT (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FT.)
DESCRIPTION AND REMARKS	COLOR	CONSIST	SOIL TYPE						
ASPHALT AND BASE ROCK									
SILTY CLAY with rock fragments	tan	stiff	CL						
Large angular cobbles		dense	CL GC	5					
SILTY CLAY, damp	tan to light brown	stiff	CL						
Trace of gravel; moisture in fissures (No product odor)				CL GC	15				
				20					

EXPLORATORY BORING LOG

MOBIL OIL CORPORATION
35TH AVENUE, OAKLAND

PROJECT NO.	DATE	BORING NO.
H182-20	8/86	MW-3

DRILL RIG Hollow Stem	SURFACE ELEVATION -----	LOGGED BY JCW
DEPTH TO GROUNDWATER As Noted	BORING DIAMETER 8"	DATE DRILLED 7/31/86

DESCRIPTION AND CLASSIFICATION				DEPTH (FEET)	SAMPLER	UNCONFINED COMPRESSIVE STRENGTH (KSF)	WATER CONTENT (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FT.)
DESCRIPTION AND REMARKS	COLOR	CONSIST	SOIL TYPE						
SILTY CLAY (CONTD) with a trace of gravel	tan to light brown	stiff	CL						
No product odor									
Increasing gravel		medium dense	CL-GC						
Decreasing gravel		hard	CL						
Gravelly, increasing toward total depth			CL-GC	35					
TOTAL DEPTH = 35.0 feet									

EXPLORATORY BORING LOG		
MOBIL OIL CORPORATION 35TH AVENUE, OAKLAND		
PROJECT NO.	DATE	BORING NO.
H182-20	8/86	MW-3

MOBIL OIL CORPORATION
OAKLAND, CALIFORNIA

MW-3

Well completed to 35.0 feet in depth with 2-inch Class 160 PVC casing, flush-threaded joints. Screen (.020-inch slot) set from 10.0 to 35.0 feet. No. 3 Monterey sand placed from 5.5 to 35.0 feet, bentonite pellets placed from 5.0 to 5.5 feet, and concrete seal placed from 0 to 5.0 feet.

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-081 DATE DRILLED 1/29/90
 CLIENT BP OIL COMPANY
 LOCATION 3201 35TH AVENUE, OAKLAND, CA
 LOGGED BY M. TAYLOR APPROVED BY _____

BORING NO.

 WELL NO.
 MW-4

FIELD SKETCH OF BORING LOCATION

DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 8"
 SAMPLER TYPE MODIFIED SPLIT SPOON
 CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL
 DRILLER WEST HAZMAT

TOP OF CASING ELEVATION 170.34

BLOWS PER FOOT (B)	FOOT (F)	CGI (PPM)	SAMPLE	DEPTH	WELL CONSTRUCTION OR BORING CLOSURE	USCS	PROFILE	WATER LEVEL	DATE	TIME	DESCRIPTION
								26.87	July 9, 1990		
				0	Christy Box						ASPHALT
				2	Portland Cement						
3,4,8	0			6	Bentonite Pellets	CL					SILTY CLAY; greenish brown; damp, high plasticity stiff
10,28,35	0			10	2" sch. 40 PVC Casing	CL					SILTY CLAY; gravelly, greenish brown with rust stain residue, dry to damp, low to medium plasticity, hard
10,17,28	0			16	2" sch. 40 PVC .020 Slot	CL					SILTY CLAY; gravelly, brown, dry to damp, low to medium plasticity hard
14,28,35	0			20		CL					SILTY CLAY; gravelly, brown rust residue, dry to damp, low plasticity, hard
7,15,28	0			24	Sand #3 Lonestar	CL					SILTY CLAY; gravelly, brown, moist medium plasticity, hard
11,17,25	0			30		CL					SILTY CLAY; very gravelly, brown wet, medium plasticity
				32							
				34							

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-081 DATE DRILLED 1/29/90
 CLIENT BP OIL COMPANY
 LOCATION 3201 35TH AVENUE, OAKLAND, CA
 LOGGED BY M. TAYLOR APPROVED BY _____

BORING NO.

 WELL NO.

 MW-4

FIELD SKETCH OF BORING LOCATION

DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 8"
 SAMPLER TYPE MODIFIED SPLIT SPOON
 CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL
 DRILLER WEST HAZMAT

TOP OF CASING ELEVATION _____

BLOWS PER FOOT (B)	CGI (PPM)	SAMPLE	DEPTH	WELL CONSTRUCTION OR BIRING CLOSURE	USCS	PROFILE	WATER LEVEL	
							DATE	
							TIME	
							DESCRIPTION	
8, 18, 34	0		36	<p>2" sch. 40 PVC .020 Slot End Cap</p>	CL			SILTY CLAY; gravelly, brown, dry to damp
		38						
15, 28, 38	0		40					
			42					
			44					
			46					
			48					
			50					

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-081 DATE DRILLED 2/1/90
 CLIENT BP OIL COMPANY
 LOCATION 3201 35TH AVENUE, OAKLAND, CA
 LOGGED BY M. TAYLOR APPROVED BY _____


BORING NO.

 WELL NO.
 MW-5

FIELD SKETCH OF BORING LOCATION

DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 8"
 SAMPLER TYPE MODIFIED SPLIT SPOON
 CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL
 DRILLER WEST HAZMAT

TOP OF CASING ELEVATION 165.14

BLOWS PER FOOT (M)	CGI (PPM)	SAMPLE	DEPTH	WELL CONSTRUCTION OR BIRING CLOSURE	USCS	PROFILE	WATER LEVEL
							24.75
							DATE
							July 9, 1990
							TIME
							DESCRIPTION
			0	Christy Box			ASPHALT
			2	Portland Cement			
13,23,35	0		4		CL		SANDY CLAY; gravelly, brown, damp, low plasticity hard
			6	Bentonite Pellets			
11,25,39	0		8		CL		SILTY CLAY; gravelly, greenish brown, damp, low plasticity, gas odor present hard
			10				
			12	2" sch. 40 PVC Casing			
8,11,21	0		14		CL		SILTY CLAY; gravelly, greenish brown, moist medium plasticity, gas odor hard
			16				
			18	2" sch. 40 PVC .020 Slot			
8,23,33	0		20		CL		SILTY CLAY; sandy and gravel, greenish brown, moist medium plasticity, gas odor hard
			22				
			24	Sand #3 Lonestar			
4,7,13	0		26		CL		 SILTY CLAY; gravelly, reddish brown, moist to saturated medium plasticity very stiff
			28				
4,5,8	0		30		CL		SILTY CLAY; with fine sand, tan, damp to medium high plasticity, stiff
			32				
14,17,22	0		34	End Cap	CL		SILTY CLAY; gravelly, reddish brown moist high plasticity, hard

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY BORING



PROJECT NO. 30-081 DATE DRILLED 2/1/90
 CLIENT BP OIL COMPANY
 LOCATION 3201 35TH AVENUE, OAKLAND, CA
 LOGGED BY M. TAYLOR APPROVED BY _____

BORING NO. _____
 WELL NO. _____
 MW-6

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 165.38


DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 8"
 SAMPLER TYPE MODIFIED SPLIT SPOON
 CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL
 DRILLER WEST HAZMAT

WATER LEVEL 24.75

DATE July 9, 1990

TIME _____

DESCRIPTION

BLOWS PER FOOT (N)	CGI (PPM)	SAMPLE	DEPTH	WELL CONSTRUCTION OR BORING CLOSURE	USCS	PROFILE	DESCRIPTION
			0	Christy Box			ASPHALT
			2	Portland Cement			
10, 12, 15	0		4-6	Bentonite Pellets	CH		SILTY CLAY; gravelly, redish brown, damp, high plasticity, very stiff
8, 15, 23	0		10	2" sch. 40 PVC Casing	CH		SILTY CLAY; gravelly, reddish brown moist, high plasticity, hard
5, 12, 18	0		14-16	2" sch. 40 PVC .020 Slot	CH		SILTY CLAY; gravelly, brown, moist medium high plasticity, very stiff
11, 15, 15	0		20		CH		SILTY CLAY; gravelly, brown, moist to saturated very stiff
23-30, 50/4"	0		24-26	Sand #3 Lonestar			 NO RECOVERY; large cobble or rock obstruction
6, 13, 17	0		30-32				NO RECOVERY; same
21, 29, 35	0		34	End Cap	CL		drilled to 35' w/o sample recovery SILTY CLAY; gravelly saturated moist, brown, hard

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-081 DATE DRILLED 2/1/90
 CLIENT BP OIL COMPANY
 LOCATION 3201 35TH AVENUE, OAKLAND, CA
 LOGGED BY M. TAYLOR APPROVED BY _____

BORING NO.
 WELL NO.
 MW-7

FIELD SKETCH OF BORING LOCATION

DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 8"
 SAMPLER TYPE MODIFIED SPLIT
 CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL
 DRILLER WEST HAZMAT

TOP OF CASING ELEVATION 167.61

BLOWING PER FOOT (ft)	CGI (PPM)	SAMPLE	DEPTH	WELL CONSTRUCTION OR BORING CLOSURE	USCS	PROFILE	WATER LEVEL	DATE	DESCRIPTION
							27.29	JULY 9, 1990	
			0	Christy Box					ASPHALT
			2	Portland Cement					
14,14, 15	0		6	Bentonite Pellets	CH				SILTY CLAY; brown, damp, high plasticity, very stiff
11,27, 39	0		10		CL				SILTY CLAY; gravelly, reddish brown damp medium plasticity, hard
			12	2" sch. 40 PVC Casing					
15,21, 29	0		14		CL				SILTY CLAY; gravelly, reddish brown, damp, hard
			16	2" sch. 40 PVC .020 Slot					
36,15, 50/5"	0		20		CL				SILTY CLAY; gravelly, brown, moist medium plasticity, hard
			22						
8,15,21	0		24	Sand #3 Lonestar	CL				SILTY CLAY; gravelly, brown, moist medium plasticity, hard
			26						
			28						
5,8,12	0		30		CL				SILTY CLAY; gravelly, brown, saturated medium plasticity, very stiff
			32						
4,7,10	0		34		CH				SILTY CLAY; tannish brown, moist high plasticity, very stiff

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-081-01 DATE DRILLED 2-25-91
 CLIENT BP Oil Company
 LOCATION 3201 35th Ave, Oakland
 LOGGED BY M. Taylor APPROVED BY M. Hopwood

BORING NO. SB-8
 WELL NO. MW-8
 Page 1 of 2

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 165.74'

DRILLING METHOD Hollow stem auger HOLE DIAM. 8"
 SAMPLER TYPE Modified split spoon
 CASING DATA See well construction details
 DRILLER Soils Exploration Services, Inc.

BLOWS PER FOOT(M)	CGI (PPM)	SAMPLE	DEPTH	WELL CONSTRUCTION OR BORING CLOSURE	USCS	PROFILE	WATER LEVEL		
							DATE		
							DESCRIPTION		
			0	Christy Box			10" Concrete		
			2						
			4						
5,13,25			6		GM		GRAVELLY SILT: green, damp, hard, low plasticity		
			8	2" sch.-40 PVC Casing					
7,14,11			10		ML		SANDY SILT: greenish brown, damp, very stiff, low plasticity, gravelly		
			12						
			14						
5,14,16			16				SILTY CLAY: brownish green, damp, very stiff, low to medium plasticity, with fine sand		
			18						
2,6,10			20				Same, becomes moist, stiff, medium plasticity, with medium sand		
			22		CL				
			24						
5,9,12			26	2" sch. 40 PVC 0.020" Slot			Same, becomes brown, moist to wet, very stiff, medium plasticity		
			28						
			30						
3,9,14			32				Same, becomes brownish green, wet, with medium sand and gravel		
			34						

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-081-01 DATE DRILLED 2/25/91
 CLIENT BP Oil Company
 LOCATION 3201 35th Ave., Oakland
 LOGGED BY M. Taylor APPROVED BY M. Hopwood

BORING NO.
 SB-8
 WELL NO.
 MW-8
 Page 2 of 2

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 165.74'

DRILLING METHOD Hollow stem auger HOLE DIAM. 8"
 SAMPLER TYPE Modified split spoon
 CASING DATA See well construction detail
 DRILLER Soils Explorations Services, Inc.

BLOWS PER FOOT (N)	CGI (PPM)	SAMPLE	DEPTH	WELL CONSTRUCTION OR BORING CLOSURE	USCS	PROFILE	WATER LEVEL		
							DATE		
							TIME		
							DESCRIPTION		
7, 11, 14			36		CL		SILTY CLAY: brown, wet, very stiff, medium to high plasticity, with medium sand and gravel		
		38	Same, becomes moist to wet, hard, medium plasticity						
11, 20, 20		40	BORING TERMINATED AT 41.5 FEET BELOW GRADE						
			42						
			44						
			46						
			48						
			50						
			52						
			54						
			56						
			58						
			60						

- Portland Cement
- Sample
- Sand #3 Lonestar
- Driven interval
- Bentonite Pellets
- Water level encountered during drilling

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



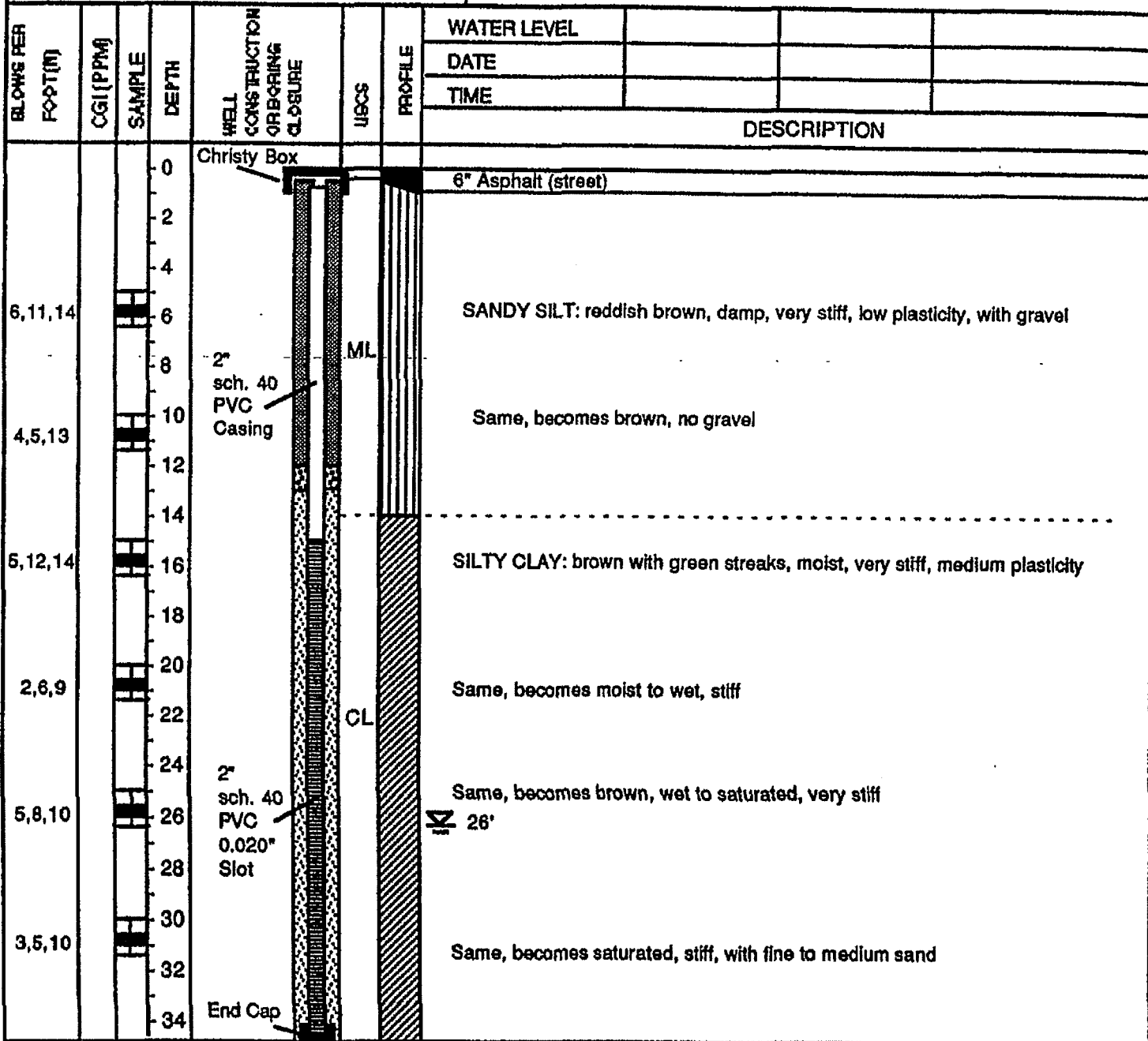
PROJECT NO. 30-081-01 DATE DRILLED 2-26-91
 CLIENT BP Oil Company
 LOCATION 3201 35th Ave, Oakland
 LOGGED BY M. Taylor APPROVED BY M. Hopwood

BORING NO. SB-9
 WELL NO. MW-9
 Page 1 of 2

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 166.20

DRILLING METHOD Hollow stem auger HOLE DIAM. 8"
 SAMPLER TYPE Modified split spoon
 CASING DATA See well construction details
 DRILLER Soils Exploration Services, Inc.





1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: UB-1

Total Depth: 48 ft. bgs

PROJECT INFORMATION

DRILLING INFORMATION

Project: BP #11132 Soil and Water Investigation

Drilling Company: Gregg Drilling & Testing

Site Location: 3201 35th Avenue, Oakland, CA

Driller: Dustin Tidwell

Project Manager: Leonard Niles

Type of Drilling Rig: CPT

RG: Leonard Niles

Drilling Method: Direct Push

Geologist: Kevin Uno

Sampling Method: Groundwater Grab

Job Number: 38486822.0013001

Date(s) Drilled: 7/22/04

BORING INFORMATION

Groundwater Depth (ft bgs): Unknown, <48 ft. bgs.

Boring Location: 78 ft S of SW corner of Mangels Ave. and 35th Ave.

Air Knife or Hand Auger Depth: 5.0 feet bgs

Boring Diameter: 2-inch

Coordinates: Latitude Longitude

Boring Type: Exploratory

Depth (ft. bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID/ Comments
0							
2							
4		Air knife to 5 ft. bgs					
6		Boring not lithologically logged. Purpose of boring was to collect depth discrete soil samples and groundwater grab sample. See boring UB-2 for lithology.					Borehole grouted to grade with Portland neat cement.
8							
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-081-01 DATE DRILLED 2/26/91
 CLIENT BP Oil Company
 LOCATION 3201 35th Ave., Oakland
 LOGGED BY M. Taylor APPROVED BY M. Hopwood

BORING NO. SB-9
 WELL NO. MW-9
 Page 2 of 2

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 166.20'

DRILLING METHOD Hollow stem auger HOLE DIAM. 8"
 SAMPLER TYPE Modified split spoon
 CASING DATA See well construction detail
 DRILLER Soils Explorations Services, Inc.

BLOWS PER FOOT (N)	CGI (PPM)	SAMPLE	DEPTH	WELL CONSTRUCTION OR BORING CLOSURE	USCS	PROFILE	WATER LEVEL			
							DATE			
							TIME			
							DESCRIPTION			
6,12,17			36		CL		SILTY CLAY: reddish brown, saturated to wet, very stiff, medium plasticity			
			38				BORING TERMINATED AT 36.5 FEET BELOW GRADE			
			40							
			42							
			44							
			46							
			48							
			50							
			52							
			54							
			56							
			58							
			60							

- Portland Cement
- Sample
- Sand #3 Lonestar
- Driven interval
- Bentonite Pellets
- Water level encountered during drilling

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



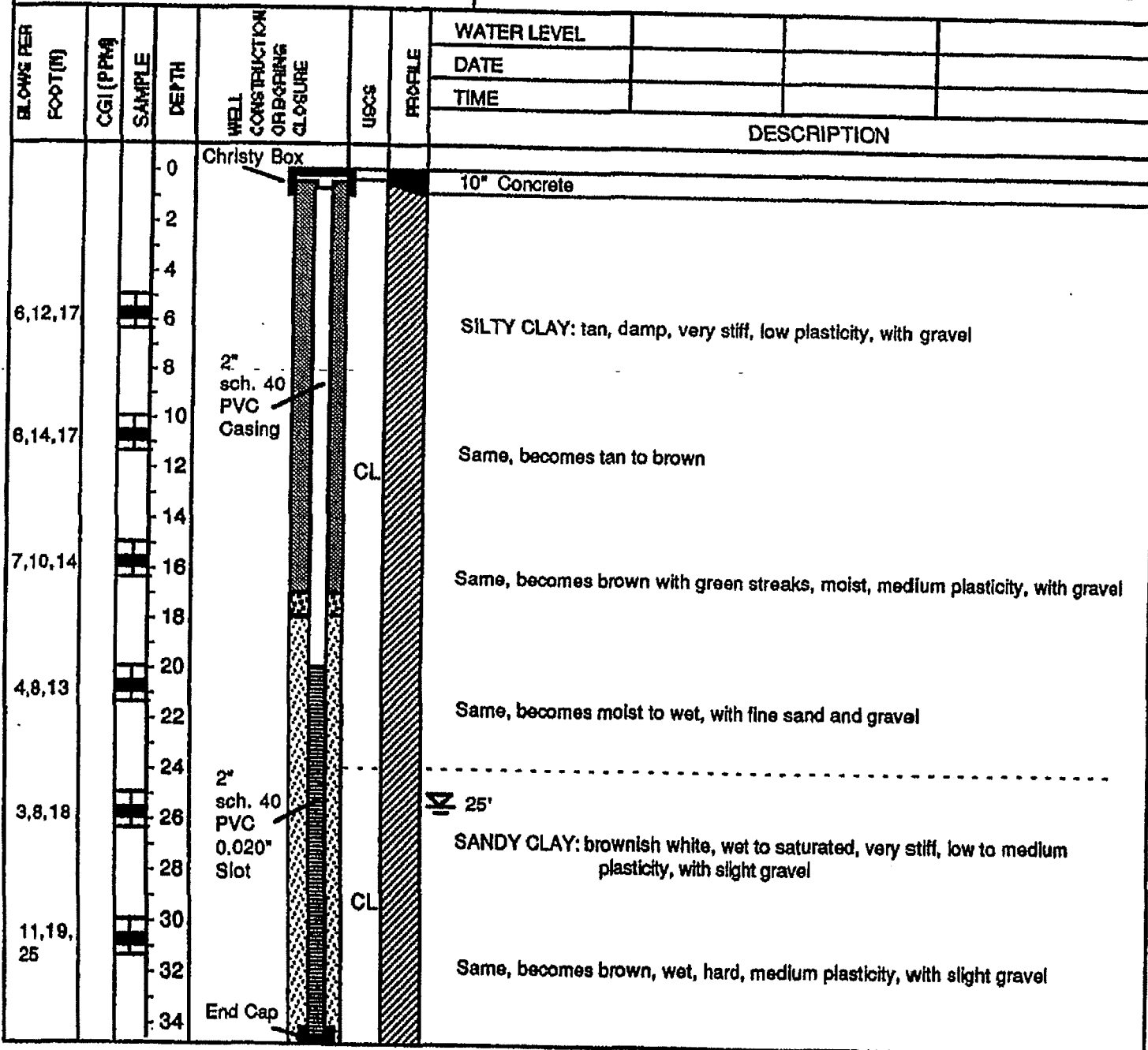
PROJECT NO. 30-081-01 DATE DRILLED 2-27-91
 CLIENT BP Oil Company
 LOCATION 3201 35th Ave, Oakland
 LOGGED BY M. Taylor APPROVED BY M. Hopwood

BORING NO. SB-10
 WELL NO. MW-10
 Page 1 of 2

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 167.01'

DRILLING METHOD Hollow stem auger HOLE DIAM. 8"
 SAMPLER TYPE Modified split spoon
 CASING DATA See well construction details
 DRILLER Soils Exploration Services, Inc.



ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-081-01 DATE DRILLED 2/27/91
 CLIENT BP Oil Company
 LOCATION 3201 35th Ave., Oakland
 LOGGED BY M. Taylor APPROVED BY M. Hopwood

BORING NO.
 SB-10
 WELL NO.
 MW-10
 Page 2 of 2

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 167.01'

DRILLING METHOD Hollow stem auger HOLE DIAM. 8"
 SAMPLER TYPE Modified split spoon
 CASING DATA See well construction detail
 DRILLER Soils Explorations Services, Inc.

BLOWS PER FOOT (B)	CGI (PPM)	SAMPLE	DEPTH	WELL CONSTRUCTION OR BORING CLOSURE	USCS	PROFILE	WATER LEVEL			
							DATE			
							TIME			
							DESCRIPTION			
7, 8, 11			36		CL		SILTY CLAY: brown, wet, very stiff, medium plasticity, with some fine sand			
			38				BORING TERMINATED AT 36.5 FEET BELOW GRADE			
			40							
			42							
			44							
			46							
			48							
			50							
			52							
			54							
			56							
			58							
			60							

- Portland Cement
- Sample
- Sand #3 Lonestar
- Driven interval
- Bentonite Pellets
- Water level encountered during drilling

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-081 DATE DRILLED 1/29/90
 CLIENT BP OIL COMPANY
 LOCATION 3201 35TH AVENUE, OAKLAND, CA
 LOGGED BY M. TAYLOR APPROVED BY _____

BORING NO.

 WELL NO.
 RW-1

FIELD SKETCH OF BORING LOCATION

DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 12"
 SAMPLER TYPE _____
 CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL
 DRILLER WEST HAZMAT

TOP OF CASING ELEVATION 168.01

BLOWS PER FOOT (M)	CGI (PPM)	SAMPLE	DEPTH	WELL CONSTRUCTION OR BORING CLOSURE	USCS	PROFILE	WATER LEVEL <u>27.93</u>
							DATE <u>July 9, 1990</u>
							TIME
							DESCRIPTION
			0	Christy Box			ASPHALT
			2	Portland Cement			SILTY CLAY; gravels, brown, damp, backfill
9,19,33	0		6	Bentonite Pellets	CL		SILTY CLAY; gravelly, greenish brown, dry to damp, low plasticity, odor present
16,33,40	0		10		CL		SILTY CLAY; gravelly, greenish brown, dry to damp, medium plasticity, odor present
15,36,43	0		16	6" sch. 40 PVC Casing	CL		SILTY CLAY; gravelly, brown, damp, medium odor present
11,16,25	0		20	6" sch. 40 PVC .020 Slot	CL		SILTY CLAY; gravelly, brown, damp, medium plasticity, odor present
6,7,16	0		26	Sand #3 Lonestar	CL		SILTY CLAY; sandy gravelly, greenish brown, medium plasticity
6,13,17	0		30		CL		SILTY CLAY; gravelly, sandy (fine) brown, saturated very stiff
			32				
			34				

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY
BORING



PROJECT NO. 30-081 DATE DRILLED 1/29/90
 CLIENT BP OIL COMPANY
 LOCATION 3201 35TH AVENUE, OAKLAND, CA
 LOGGED BY M. TAYLOR APPROVED BY _____



BORING NO.
 WELL NO.
 RW-1

FIELD SKETCH OF BORING LOCATION

DRILLING METHOD HOLLOW-STEM AUGER HOLE DIAM. 10"
 SAMPLER TYPE MODIFIED SPLIT SPOON
 CASING DATA SEE MONITORING WELL CONSTRUCTION DETAIL
 DRILLER WEST HAZMAT

TOP OF CASING ELEVATION _____

BLOWS PER FOOT (B)	CGI (PPM)	SAMPLE	DEPTH	WELL CONSTRUCTION OR BORING CLOSURE	USCS	PROFILE	WATER LEVEL
							DATE
							TIME
							DESCRIPTION
6, 16, 29	0		36	2" sch. 40 PVC .020 Slot	CL		SILTY CLAY; gravelly, sandy (fine) brown, saturated, medium high plasticity, hard
6, 16, 28			40	End Cap			SAME

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID
32 34 36 38 40 42 44 46 48		SILTY CLAY: brown, trace rounded coarse sand. Medium stiff, moist.		CL			UB-1-32.0 UB-1-32.5
							UB-1-48: Groundwater grab sample at 48 ft. bgs.



1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: UB-2

Total Depth: 48ft. bgs

PROJECT INFORMATION

DRILLING INFORMATION

Project: BP #11132 Soil and Water Investigation

Drilling Company: Gregg Drilling & Testing

Site Location: 3201 35th Avenue, Oakland, CA

Driller: Dustin Tidwell

Project Manager: Leonard Niles

Type of Drilling Rig: CPT

RG: Leonard Niles

Drilling Method: Direct Push

Geologist: Kevin Uno

Sampling Method: Groundwater Grab

Job Number: 38486822.0013001

Date(s) Drilled: 7/22/04

BORING INFORMATION

Groundwater Depth (ft bgs): Unknown, <48 ft. bgs

Boring Location: 155 ft S of SW corner of Mangels Ave. and 35th Ave.

Air Knife or Hand Auger Depth: 5.0 feet bgs







Boring Diameter: 2-inch

Coordinates: Latitude Longitude

Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID/ Comments
0		Note: Lithology is interpreted from CPT logs. Soil not visually observed.					Borehole grouted to grade with Portland neat cement
2		Air knife to 5 ft. bgs					
4							
5		CLAYEY SILT		ML			
6		SILT					
7		CLAYEY SILT					
8		STIFF FINE GRAINED: -undifferentiated					
10		SILTY CLAY		CL			
11		CLAYEY SILT		ML			
12							
13		SILTY CLAY		CL			
14		SILT		ML			
15		CLAYEY SILT					

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID
16		STIFF FINE GRAINED					
18		SILTY CLAY		CL			
20		CLAY					
20		STIFF FINE GRAINED					
22		SILTY CLAY					
22		CLAYEY SILT		ML			
24		SILTY CLAY		CL			
24		CLAY					
24		CLAYEY SILT		ML			
24		STIFF FINE GRAINED					
26		CLAYEY SILT					
26		CLAY		CL			
26		CLAYEY SILT		ML			
28		SILT					
28		CLAYEY SILT					
28		SILTY CLAY		CL			
28		STIFF FINE GRAINED					
30		CLAY					
32		SILTY CLAY					
32		CLAYEY SILT		ML			
32		SILT					
34		SAND: Cemented.		SM			
34		SANDY SILT		ML			
36		STIFF FINE GRAINED					

Depth (ft.bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID	
38		SILTY CLAY		CL				
		CLAYEY SILT		ML				
40		STIFF FINE GRAINED		CL				
		SILTY CLAY						
42		CLAYEY SILT		ML				
		SILT						
44		CLAYEY SILT						
		STIFF FINE GRAINED						
		CLAYEY SILT						
46		STIFF FINE GRAINED		CL				
		SILTY CLAY						
		STIFF FINE GRAINED						
48		SAND: Cemented.		SM				
		CLAYEY SILT						ML
		SILT: Bottom of boring: 48 ft.bgs						

UB-2-48: Groundwater grab sample at 48 ft. bgs.



1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: UB-3

Total Depth: 48 ft. bgs

PROJECT INFORMATION

DRILLING INFORMATION

Project: BP #11132 Soil and Water Investigation

Drilling Company: Gregg Drilling & Testing

Site Location: 3201 35th Avenue, Oakland, CA

Driller: Dustin Tidwell

Project Manager: Leonard Niles

Type of Drilling Rig: CPT

RG: Leonard Niles

Drilling Method: Direct Push

Geologist: Kevin Uno

Sampling Method: Groundwater Grab

Job Number: 38486822.0013001

Date(s) Drilled: 7/22/04

BORING INFORMATION

Groundwater Depth (ft bgs): Unknown, <48 ft. bgs

Boring Location: 182 ft S of SW corner of Mangels and 35th Ave.

Air Knife or Hand Auger Depth: 5.0 feet bgs

Boring Diameter: 2-inch

Coordinates: Latitude Longitude

Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID/ Comments
0		Air knife to 5 ft. bgs					Borehole grouted to grade with Portland neat cement
2							
4							
6		Boring not lithologically logged. Purpose of boring was to collect depth discrete soil samples and groundwater grab sample. See boring UB-2 for lithology.					
8							
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							



1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: UB-4

Total Depth: 50 ft. bgs

PROJECT INFORMATION

Project: BP #11132 Soil and Water Investigation

Site Location: 3201 35th Avenue, Oakland, CA

Project Manager: Leonard Niles

RG: Leonard Niles

Geologist: Kevin Uno

Job Number: 38486822.0013001

DRILLING INFORMATION

Drilling Company: Gregg Drilling & Testing

Driller: Dustin Tidwell

Type of Drilling Rig: CPT

Drilling Method: Direct Push

Sampling Method: Groundwater Grab

Date(s) Drilled: 7/21/04

BORING INFORMATION

Groundwater Depth (ft bgs): Unknown, < 50ft. bgs

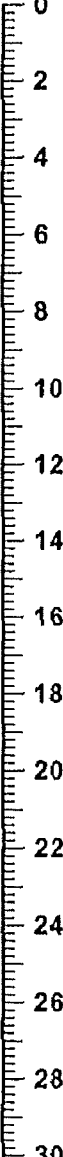
Boring Location: 135 ft E of E corner of School St. and 35th Ave.

Air Knife or Hand Auger Depth: 5.0 feet bgs

Boring Diameter: 2-inch

Coordinates: Latitude Longitude

Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID/ Comments
0  2 4 6 8 10 12 14 16 18 20 22 24 26 28 30		Air knife to 5 ft. bgs Boring not lithologically logged. Purpose of boring was to collect depth discrete soil samples and groundwater grab sample. See boring UB-5 for lithology.					Borehole grouted to grade with Portland neat cement



1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: UB-5

Total Depth: 50 ft. bgs

PROJECT INFORMATION

DRILLING INFORMATION

Project: BP #11132 Soil and Water Investigation
Site Location: 3201 35th Avenue, Oakland, CA
Project Manager: Leonard Niles
RG: Leonard Niles
Geologist: Kevin Uno
Job Number: 38486822.0013001

Drilling Company: Gregg Drilling & Testing
Driller: Dustin Tidwell
Type of Drilling Rig: CPT
Drilling Method: Direct Push
Sampling Method: Cone Penetrometer Testing
Date(s) Drilled: 7/22/04

BORING INFORMATION

Groundwater Depth (ft bgs): Unknown, < 50 ft. bgs
Boring Location: Approx. 60 ft E of E corner of School St. and 35th Ave
Air Knife or Hand Auger Depth: 5.0 feet bgs
Boring Diameter: 2-inch
Coordinates: Latitude Longitude
Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID/ Comments
0		Air knife to five feet bgs. Note: Lithology is interpreted from CPT logs. Soil not visually observed.					Borehole grouted to grade with Portland neat cement
5.5		SILTY SAND		SM			
5.5 - 6.0		SAND: Cemented.					
6.0 - 12.0		STIFF FINE GRAINED		ML			
12.0 - 13.0		CLAYEY SILT					
13.0 - 13.5		SILT					
13.5 - 14.0		STIFF FINE GRAINED					

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID
16		CLAY		CL			
		STIFF FINE GRAINED					
18		SILTY CLAY					
		STIFF FINE GRAINED					
20		SILTY CLAY					
		CLAY					
		CLAYEY SILT		ML			
22		SILT		CL			
		SILTY CLAY		ML			
		CLAYEY SILT					
24		SILTY CLAY		CL			
		CLAY					
		SILTY CLAY					
		CLAYEY SILT		ML			
26		SILT					
28		CLAYEY SILT					
30		SILTY CLAY		CL			
		CLAYEY SILT		ML			
32		SAND: Cemented		SM			
		STIFF FINE GRAINED		ML			
34		SILT					
		SILTY CLAY		CL			
		STIFF FINE GRAINED		ML			
36							

Depth (ft. bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID
38		CLAYEY SILT					
		STIFF FINE GRAINED					
		SILT					
40		SILTY CLAY		CL			
		STIFF FINE GRAINED		ML			
42		CLAYEY SILT					
		STIFF FINE GRAINED					
44		CLAYEY SILT					
		SILT					
46		CLAYEY SILT					
48		SILT					
		CLAYEY SILT					
		STIFF FINE GRAINED					
50		CLAYEY SILT: Bottom of boring: 50 ft. bgs					

UB-5: Ground water grab sample at 50 ft. bgs.



1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: UB-6

Total Depth: 50 ft. bgs

PROJECT INFORMATION

DRILLING INFORMATION

Project: BP #11132 Soil and Water Investigation

Drilling Company: Gregg Drilling & Testing

Site Location: 3201 35th Avenue, Oakland, CA

Driller: Dustin Tidwell

Project Manager: Leonard Niles

Type of Drilling Rig: CPT

RG: Leonard Niles

Drilling Method: Direct Push

Geologist: Kevin Uno

Sampling Method: Groundwater Grab

Job Number: 38486822.0013001

Date(s) Drilled: 7/21/04

BORING INFORMATION

Groundwater Depth (ft bgs): Unknown, < 50 ft. bgs.

Boring Location: 20 ft. E of E corner of School St. and 35th Ave.

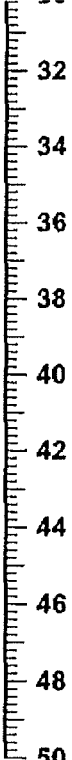


Air Knife or Hand Auger Depth: 5.0 feet bgs

Boring Diameter: 2-inch

Coordinates: Latitude Longitude

Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID/ Comments
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30		Air knife to 5 ft. bgs Boring not lithologically logged. Purpose of boring was to collect depth discrete soil samples and groundwater grab sample. See boring UB-5 for lithology.					Borehole grouted to grade with Portland neat cement

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID
		<p>SILTY CLAY: Light brown with 5-10% fine sand. Moist, Stiff. Low to medium plasticity.</p>		CL			<p>UB-6-30.0 UB-6-30.5</p> <p>UB-6: Groundwater grab sample at 50 ft. bgs.</p>



1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: UB-7

Total Depth: 41.5 feet bgs

PROJECT INFORMATION

DRILLING INFORMATION

Project: BP #11132 Soil and Water Investigation

Drilling Company: Gregg Drilling & Testing

Site Location: 3201 35th Avenue, Oakland, CA

Driller: Paul Rodgers

Project Manager: Leonard Niles

Type of Drilling Rig: Geoprobe

RG: Leonard Niles

Drilling Method: Direct Push

Geologist: Joe Gonzales

Sampling Method: Continuous core with acetate sleeve.

Job Number: 38486822.0013001

Date(s) Drilled: 04/19/04

BORING INFORMATION

Groundwater Depth (ft bgs): 36 feet bgs

Boring Location: 10 feet south of RW-1



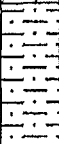
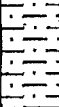
Air Knife or Hand Auger Depth: 5.0 feet bgs

Boring Diameter: 2-inch

Coordinates: Latitude Longitude

Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID/ Comments
0		Air knife to five feet bgs					
2							Borehole grouted to grade with Portland neat cement
4							
6		GRAVELLY SANDY SILT: orangish brown, 50% silt, 30% medium to coarse sand, 20% fine subangular gravel, medium stiff to stiff, damp, increasing gravel with depth		ML	0		UB-7-5
8							
10		SANDY GRAVELLY SILT: brown, 50% silt, 15% fine to coarse sand, 35% fine to coarse subangular gravel, stiff, damp		ML	0.8		
12		orangish brown, decreasing gravel and sand, some clay, slight odor					
14		grades to clay			236		UB-7-15
16		SANDY GRAVELLY CLAY: brown, 50% clay, 20% fine to coarse sand, 30% fine to coarse subangular to subrounded gavel, very stiff, damp, slight odor		CL			
18							
20		same as above, mostly fine gravel, odor			133		
22							
24		SILTY CLAY: brown, 60% clay, 40% silt, trace fine to coarse sand and fine gravel, stiff, orange mottling, odor		CL	87		UB-7-25
26							
28							
30							

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID
32		SANDY GRAVELLY CLAY: brown, 50% clay, 15% fine to coarse sand, 35% fine gravel, very stiff, damp		CL	70		
34		decreasing gravel		Increasing gravel and coarse sand			
36		SANDY GRAVELLY SILT: dark brown, 50% silt, 15% sand, 35% gravel, stiff to very stiff, wet	ML	17	UB-7-35 UB-7 (hydropunch) Σ		
38		Increasing coarse sand with depth					
40		decreasing gravel, medium stiff, saturated, geoprobe refusal at 41.5 feet bgs		12	UB-7-41		
40							

Borehole ID: UB-8

Total Depth: 3.5 feet bgs

PROJECT INFORMATION

DRILLING INFORMATION

Project: BP #11132 Soil and Water Investigation

Drilling Company: Gregg Drilling & Testing

Site Location: 3201 35th Avenue, Oakland, CA

Driller: Paul Rodgers

Project Manager: Leonard Niles

Type of Drilling Rig: Vacmasters 4000

RG: Leonard Niles

Drilling Method: Air knife

Geologist: Joe Gonzales

Sampling Method: NA

Job Number: 38486822.0013001

Date(s) Drilled: 04/19/04

BORING INFORMATION

Groundwater Depth (ft bgs): Unknown


Boring Location: Near UST pad

Air Knife or Hand Auger Depth: 3.5 feet bgs

Boring Diameter: 6"

Coordinates: Latitude Longitude

Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID/ Comments
0 2		GRAVEL: Air knife to 3.5 feet bgs: Gravel with cobbles. Could not clear hole to five feet. Abandoned boring.					No samples taken Borehole grouted to grade with Portland neat cement

PROJECT INFORMATION

DRILLING INFORMATION

Project: BP #11132 Soil and Water Investigation

Drilling Company: Gregg Drilling & Testing

Site Location: 3201 35th Avenue, Oakland, CA

Driller: Paul Rodgers

Project Manager: Leonard Niles

Type of Drilling Rig: Geoprobe

RG: Leonard Niles

Drilling Method: Direct Push

Geologist: Joe Gonzales

Sampling Method: Continuous core with acetate sleeve.

Job Number: 38486822.0013001

Date(s) Drilled: 04/19/04

BORING INFORMATION

Groundwater Depth (ft bgs): 40 feet bgs

Boring Location: Near west side of station building

Air Knife or Hand Auger Depth: 5.0 feet bgs

Boring Diameter: 2-inch

Coordinates: Latitude Longitude

Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PIID (ppm)	Recovery	Sample ID/ Comments
0		Air knife to five feet bgs					Borehole grouted to grade with Portland neat cement
2							
4							
6		SANDY GRAVELLY SILT: brown, 50% silt, 20% fine to coarse sand, 30% fine subangular gravel, very stiff, damp		ML	0		UB-9-5
8							
10		same as above, with more gravel			0		
12		increasing clay with depth					
14							
16		SANDY GRAVELLY CLAY: orangish brown, 50% clay, 15% fine to coarse sand, 35% fine to coarse sand, stiff to very stiff, damp, varying amounts of sand and gravel		CL	0.5		UB-9-15
18		slight odor					
20		same as above, dark brown, decreasing gravel			23		
22							
24		some coarse gravel (4 cm diameter)					
26		SILTY CLAY: orangish brown, 60% clay, 40% silt, medium stiff to stiff, damp to moist, slight odor, some orange mottling		CL	275		UB-9-25
28							
30							

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID
32		orangish brown, 50% clay, 30% silt, 10% cs sand, 10% fine sub rounded gravel, stiff, damp to moist			172		
34		some coarse gravel (3 cm diameter)			24		UB-9-35
36		SANDY GRAVELLY CLAY: orangish brown, 50% clay, 15% fine to coarse sand, 35% fine to coarse sand, stiff to very stiff, damp		CL			
38							
40					1.7		
42		SANDY GRAVELLY SILT: orangish brown, 50% silt, 15% medium to coarse sand, 35% fine to coarse subangular gravel, medium stiff, moist to wet, geoprobe refusal at 42.5 feet bgs		ML			UB-9 :groundwater grab with bailer at 42.5 ft. bgs. UB-9-42



1333 Broadway, Suite 800
Oakland, California 94612

LOG OF BORING

Borehole ID: UB-10

Total Depth: 37.5 feet bgs

PROJECT INFORMATION

DRILLING INFORMATION

Project: BP #11132 Soil and Water Investigation

Drilling Company: Gregg Drilling & Testing

Site Location: 3201 35th Avenue, Oakland, CA

Driller: Paul Rodgers

Project Manager: Leonard Niles

Type of Drilling Rig: Geoprobe

RG: Leonard Niles

Drilling Method: Direct Push

Geologist: Joe Gonzales

Sampling Method: Continuous core with acetate sleeve.

Job Number: 38486822.0013001

Date(s) Drilled: 04/20/04

BORING INFORMATION

Groundwater Depth (ft bgs): 36 feet bgs

Boring Location: 12 ft. SW of southern dispenser

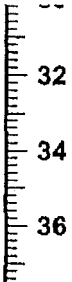



Air Knife or Hand Auger Depth: 5.0 feet bgs

Boring Diameter: 2-inch

Coordinates: Latitude Longitude

Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID/ Comments
0		Air knife to five feet bgs					
2							
4							Borehole grouted to grade with Portland neat cement.
6		SANDY GRAVELLY CLAY: brown to light brown, 50% clay, 20% fine to coarse sand, 30% fine to coarse subangular gravel, very stiff, damp, decreasing gravel with depth		CL	0		UB-10-5
8		increasing gravel					
10		dark brown, very stiff			0		
12							
14		orange brown, 55% clay, 20% sand, 25% gravel, slight odor, decreasing gravel			9.0		UB-10-15
16		increasing gravel					
18		dark brown, increasing gravel, odor					
20					63		
22		varying amounts of sand and gravel					
24							
26					177		UB-10-25
28		NO RECOVERY		NR			
30							

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID
		SILTY CLAY: reddish brown, 60% clay, 40% silt, trace fine to coarse sand and fine gravel, very stiff, damp		CL	0		
		SANDY GRAVELLY CLAY: reddish brown, 50% clay, 15% fine to coarse sand, 35% fine gravel, stiff, damp		CL	0		UB-10-35 UB-10-37 (soil); UB-10 (groundwater grab with bailer)

Borehole ID: UB-11

Total Depth: 37.5 feet bgs

PROJECT INFORMATION

DRILLING INFORMATION

Project: BP #11132 Soil and Water Investigation

Drilling Company: Gregg Drilling & Testing

Site Location:

Driller: Paul Rodgers

Project Manager: Leonard Niles

Type of Drilling Rig: Geoprobe

RG: Leonard Niles

Drilling Method: Direct Push

Geologist: Joe Gonzales

Sampling Method: Continuous core with acetate sleeve.

Job Number: 38486822.0013001

Date(s) Drilled: 04/20/04

BORING INFORMATION

Groundwater Depth (ft bgs): 36

Boring Location: Near planter on 35th Avenue

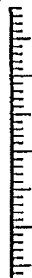


Air Knife or Hand Auger Depth: 5.0 ft. bgs

Boring Diameter: 2-inch

Coordinates: Latitude Longitude

Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID/ Comments
0		Air knife to five feet bgs					
2							Borehole grouted to grade with Portland neat cement.
4							
6		SANDY GRAVELLY CLAY: brown, 50% clay, 20% fine to coarse sand, 30% fine to coarse subrounded gravel, very stiff, moist, slight green color in soil		CL	0		UB-11-5
8							
10		same as above			0		
12		increasing gravel, with some coarse gravel (4 cm diameter). No greenish color.					
14							
16		SANDY GRAVELLY SILT: reddish brown to orangish brown, 50% silt, 15% fine to coarse sand, 35% fine to coarse gravel, gravel size ls up to 3 cm in diameter, stiff, damp, slight odor		ML	15		UB-11-15
18		SANDY GRAVELLY CLAY: brown, 50% clay, 20% fine to coarse sand, 30% fine to coarse subrounded gravel, very stiff, damp, decreasing gravel with depth		CL			
20					0.5		
22		coarse gravel (4cm diameter)					
24							
26		SILTY CLAY: reddish brown, 60% clay, 40% silt, trace sand and fine gravel, very stiff, damp		CL	0		UB-11-25
28							
30		50% clay, 30% silt, 10% fine to coarse sand, 10% fine gravel					

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID
 <p>32 34 36</p>		<p>continued increase of sand and gravel</p> <hr/> <p>SANDY GRAVELLY CLAY: reddish brown, 50% clay, 15% fine to coarse sand, 35% fine to coarse subrounded gravel, moderately stiff, moist to wet, geoprobe refusal at 37.5 feet bgs</p>		<p>CL</p>	<p>1.3</p> <hr/> <p>0</p>		<p>UB-11-35 UB-11 (groundwater grab with bailer); UB-11-37 (soil).</p>

PROJECT INFORMATION

DRILLING INFORMATION

Project: BP #11132 Soil and Water Investigation

Drilling Company: Gregg Drilling & Testing

Site Location: 3201 35th Avenue, Oakland, CA

Driller: Paul Rodgers

Project Manager: Leonard Niles

Type of Drilling Rig: Geoprobe

RG: Leonard Niles

Drilling Method: Direct Push

Geologist: Joe Gonzales

Sampling Method: Continuous core with acetate sleeve.

Job Number: 38486822.0013001

Date(s) Drilled: 04/19/04

BORING INFORMATION

Groundwater Depth (ft bgs): 25


Boring Location: Behind station building near former dispenser island

Air Knife or Hand Auger Depth: 5.0

Boring Diameter: 2-inch

Coordinates: Latitude Longitude

Boring Type: Exploratory

Depth (ft bgs)	Symbol	Lithologic Description	Blow Count	USCS	PID (ppm)	Recovery	Sample ID/ Comments
0		Air knife to five feet bgs					Borehole grouted to grade with Portland neat cement.
2							
4							
6		SANDY GRAVELLY SILT: brown, 50% silt, 20% fine to coarse sand, 30% fine subangular gravel, medium stiff to very stiff, damp		ML	0		UB-12-5
8		increasing gravel with depth					
10		dark brown, 50% silt, 15% fine to coarse sand, 35% fine to coarse subrounded to subangular gravel, trace clay, very stiff, damp			0		UB-12-10
12							
14							
16		SANDY GRAVELLY CLAY: orangish brown, 50% clay, 15% fine to coarse sand, 35% fine to coarse subangular gravel, very stiff, damp		CL	0		UB-12-15
18		decreasing gravel and stiffness with depth					
20		brown			0		
22		increasing gravel					
24		dark brown					
24		increased coarse sands and gravels			0		UB-12 (groundwater grab with bailer); UB-12-25 (soil). 
26		SANDY GRAVELLY SILT: light brown, 50% silt, 15% medium to coarse sand, 35% fine to coarse subangular to subrounded gravel, medium stiff, wet, geoprobe refusal at 26 feet bgs		ML			

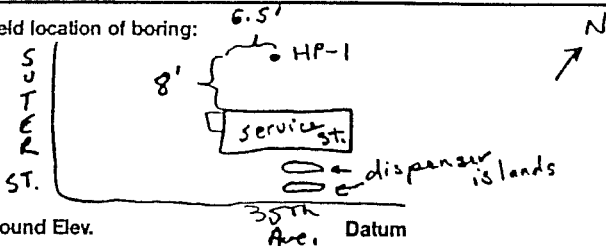


FIELD LOG OF EXPLORATORY BORING

PROJECT No. 0152-044.02 DATE 11/22/94
 CLIENT TOSCO 11132
 LOCATION 3201 35th St., Oakland, CA
 LOGGED BY D. Galasso

BORING No. HP-1
 Sheet 1
 of 2

Field location of boring:



Drilling Co. Precision
 Drill rig model XD 1
 Drilling method CPT
 Hole dia. 2 3/4"

Boring completion data Grouted hole to surface adding asphalt patch to top on boring

Ground Elev. 35th Ave. Datum

Depth	Sampled interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to		Time		Date	
					▽	▽				
			As	Asphalt - 4"						
1			GF	Gravel (GP) dark gray (2.54, N4/10) 40% coarse (gravel) size sand, 60% fine gravel, damp, no odor (very little to look at)						
2										
3										
4			GF	Sandy Gravel (GP) olive brn (2.54, 4/4) 5% low-plasticity fines, 35% fine to coarse sand (1:2:3), 60% fine gravel, damp, no odor (very little to look at)						
5										
6										
7										
8										
9										
10										
11			sm	Silty Sand light olv. brn (2.54, 5/4) 35% med. fines, 55% fine to coarse sand, 10% fine gravel, mottled gray veining heavy orange mottling, iron + manganese staining, gray mineral weathering, damp, no odor black, red, white minerals						
12										
13										
14										
15										
16										
17										
18										
19										



FIELD LOG OF EXPLORATORY BORING

PROJECT No. 0952-044.02 DATE 11/22/94
 CLIENT TOSCO 11132
 LOCATION 3201 35th St., Oakland, CA
 LOGGED BY D. Galasso

BORING No. MP-1
 Sheet 2
 of 2

Field location of boring:

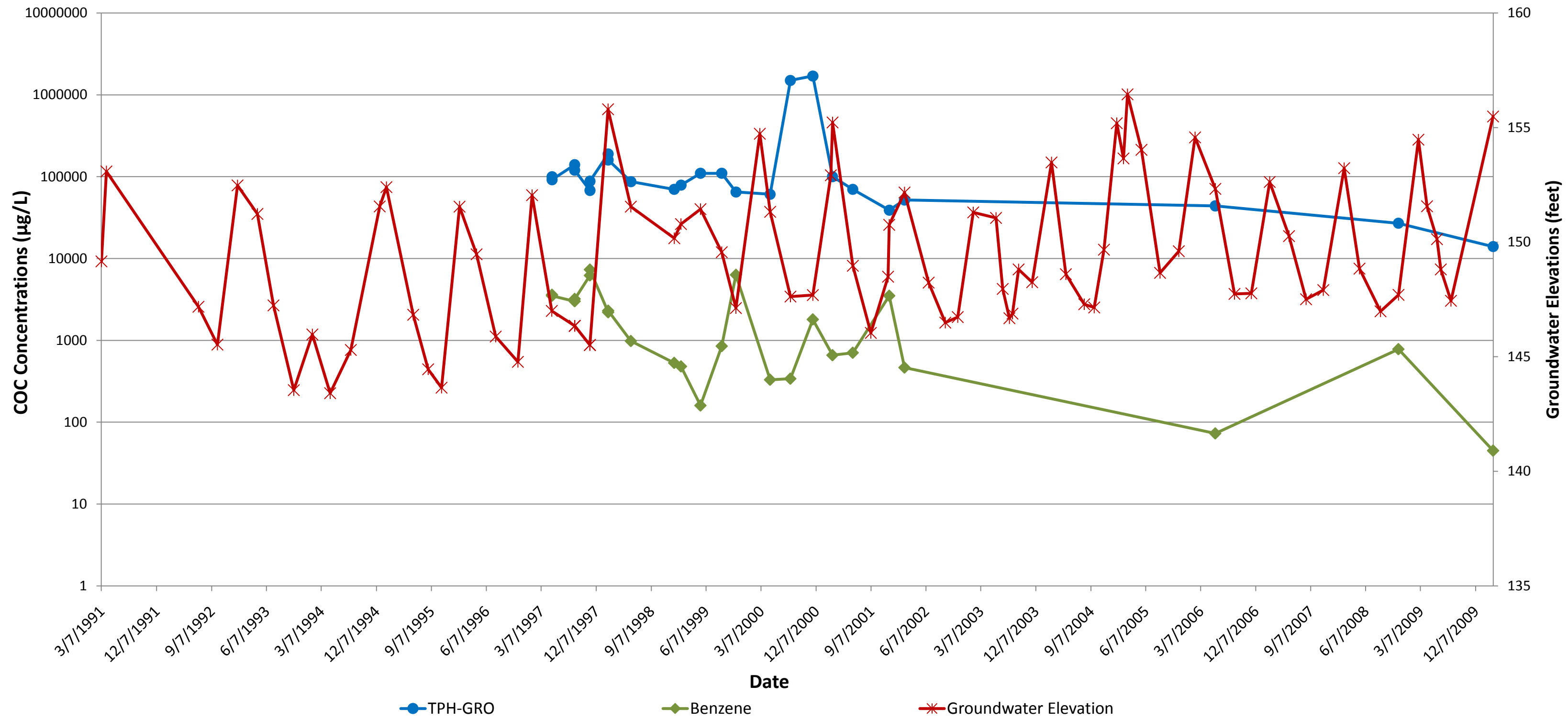
Drilling Co. Precision
 Drill rig model XD 1
 Drilling method CPT
 Hole dia. 2 3/8

Ground Elev. see pg. 1 Datum

Boring completion data Grouted hole to surface adding asphalt patch to top of boring

0 ✓ 2	Pocket Penetrometer (TSF)	Blows/6 in. and/or Pressure (PSI)	Type of Sampler	Recovery (ft/ft)	Sample Number and Container Type	Depth	Sampled Interval	Well Detail	Soil/Rock Symbol	Graphic Log	Depth to ▽	Time	Date	DESCRIPTION
0.6					20-20.5	20			SM					Silty Sand (SM) continued
						21								
				1/3	22.5-23	22			CL					Clay (CL) olive (54, 5/3) 95% high-plast. frag, 5% fine sand orange mottling, iron-staining, gray veining, damp, no odor
1.3					22.5-23	23								Refusal at 23.0' Boring terminated
						24								
						25								

Hydrograph for MW-1




LEGEND:
 TPH-GRO = Total Petroleum Hydrocarbons as Gasoline
 µg/L = micrograms per liter

NOTES:
 Non-detects are plotted at half of the reporting limit.
 Separate-phase product was observed in MW-1 from 3/7/1991 through 4/29/1997 even though there were no TPH-GRO and benzene data.

FORMER BP Service Station 11132
 3201 35th Avenue,
 Oakland, California

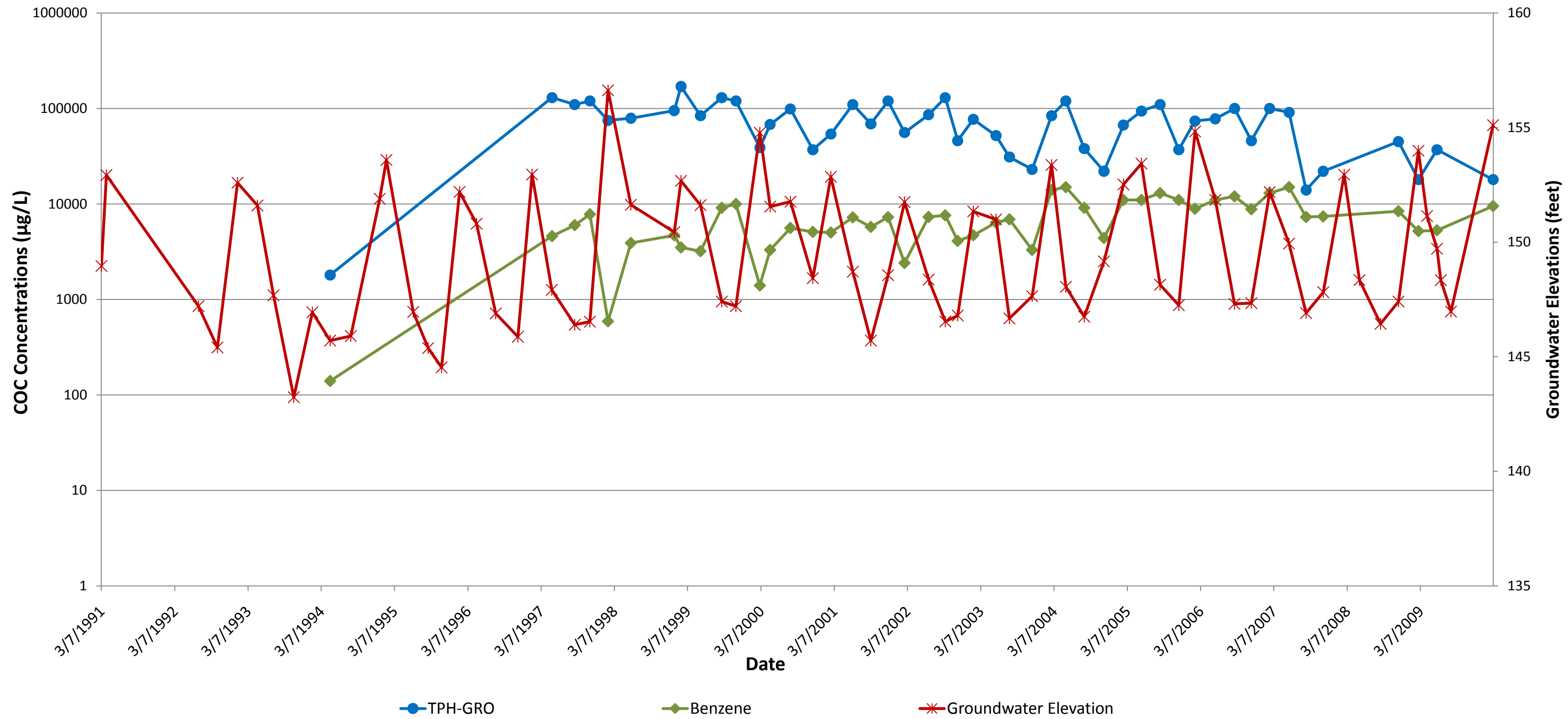
**Monitoring Well MW-1 Historical Analytical Data and
 Groundwater Elevations**



GRAPH
MW-1

Infrastructure, environment, buildings

Hydrograph for MW-2



LEGEND:
 TPH-GRO = Total Petroleum Hydrocarbons as Gasoline
 µg/L = micrograms per liter

NOTE:
 Non-detects are plotted at half of the reporting limit.
 Sheen was observed in MW-2 beginning 2007. measureable amounts of separate phase product between 0.01 to 0.06 feet in thickness was observed in 2008 and last 2 quarters of 2009.

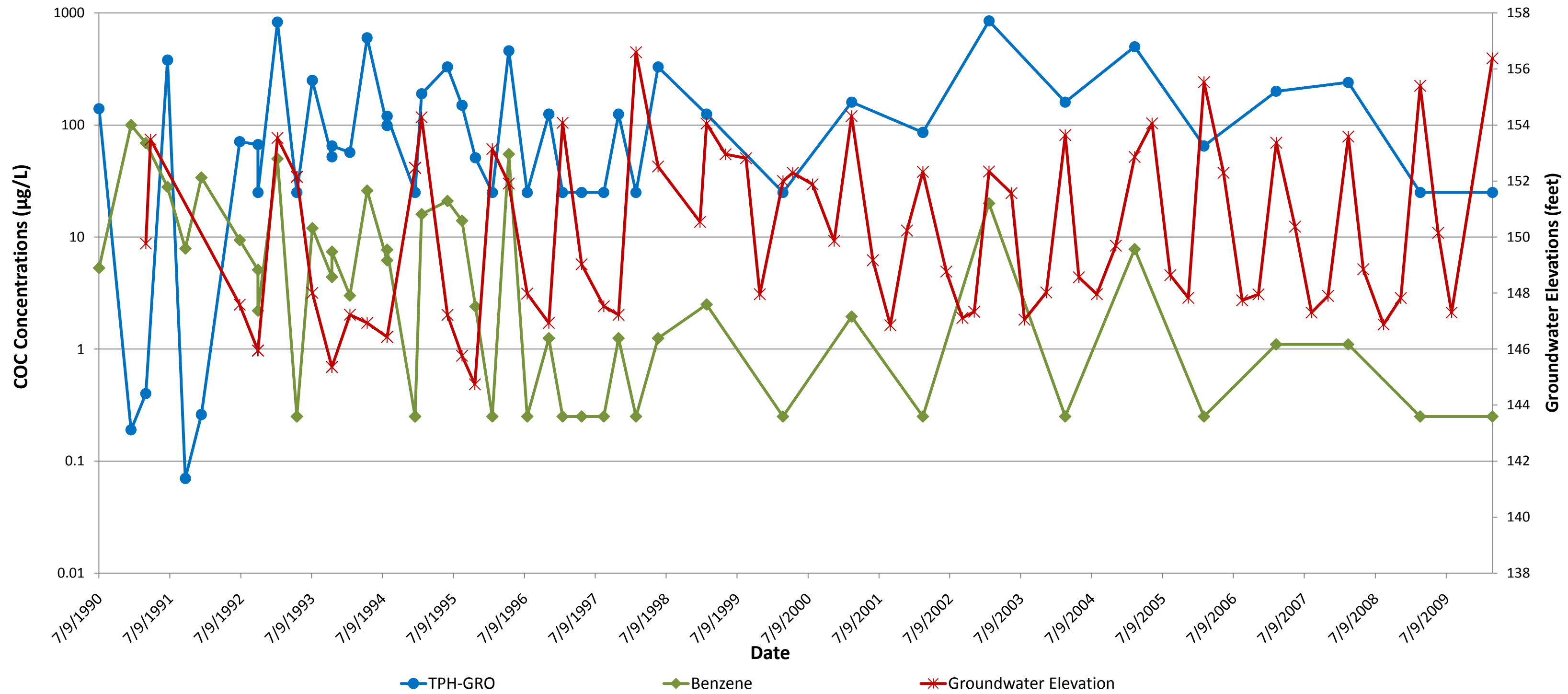
FORMER BP Service Station 11132
 3201 35th Avenue,
 Oakland, California

**Monitoring Well MW-2 Historical Analytical Data and
 Groundwater Elevations**



GRAPH
 MW-2

Hydrograph for MW-3



LEGEND:
 TPH-GRO = Total Petroleum Hydrocarbons as Gasoline
 µg/L = micrograms per liter

NOTE:
 Non-detects are plotted at half of the reporting limit.

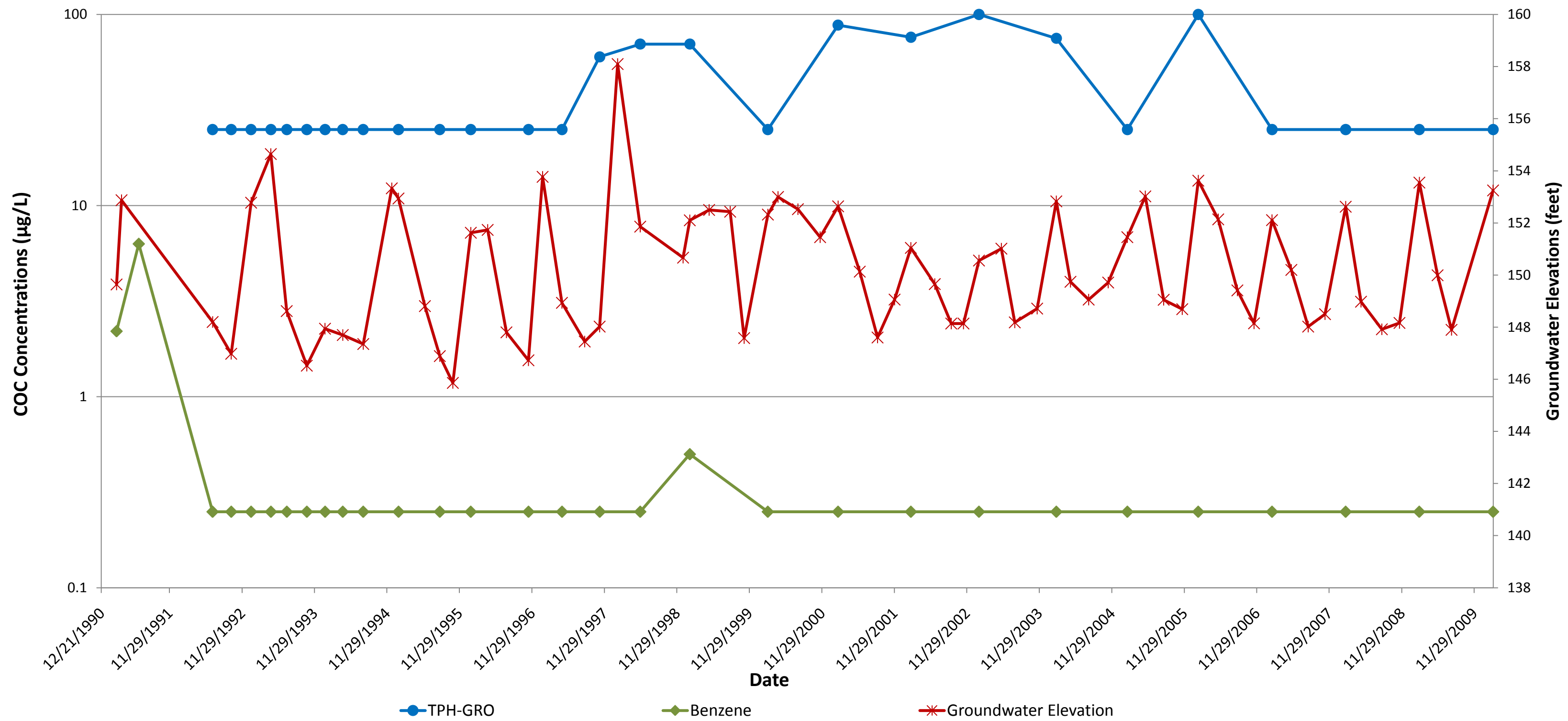
FORMER BP Service Station 11132
 3201 35th Avenue,
 Oakland, California

**Monitoring Well MW-3 Historical Analytical Data and
 Groundwater Elevations**




GRAPH
 MW-3

Hydrograph for MW-4

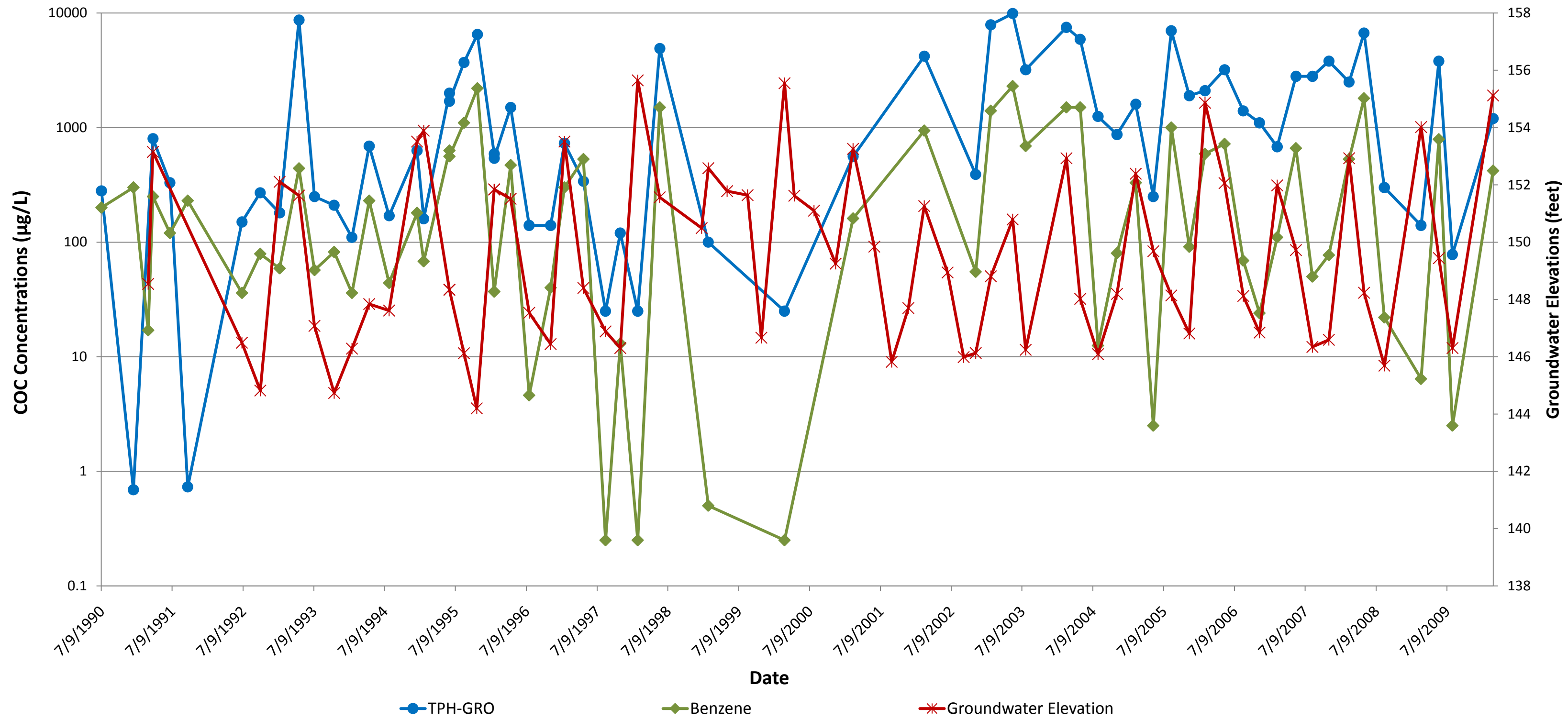


LEGEND:
 TPH-GRO = Total Petroleum Hydrocarbons as Gasoline
 µg/L = micrograms per liter

NOTE:
 Non-detects are plotted at half of the reporting limit.
 Sheen was observed in MW-4 on the 3/4/2010 sampling event.

FORMER BP Service Station 11132 3201 35th Avenue, Oakland, California	
Monitoring Well MW-4 Historical Analytical Data and Groundwater Elevations	
 Infrastructure, environment, buildings	GRAPH MW-4

Hydrograph for MW-5



LEGEND:
 TPH-GRO = Total Petroleum Hydrocarbons as Gasoline
 µg/L = micrograms per liter

NOTE:
 Non-detects are plotted at half of the reporting limit.
 Sheen was observed in MW-5 on the 11/8/2007 and 8/6/2009 sampling event.

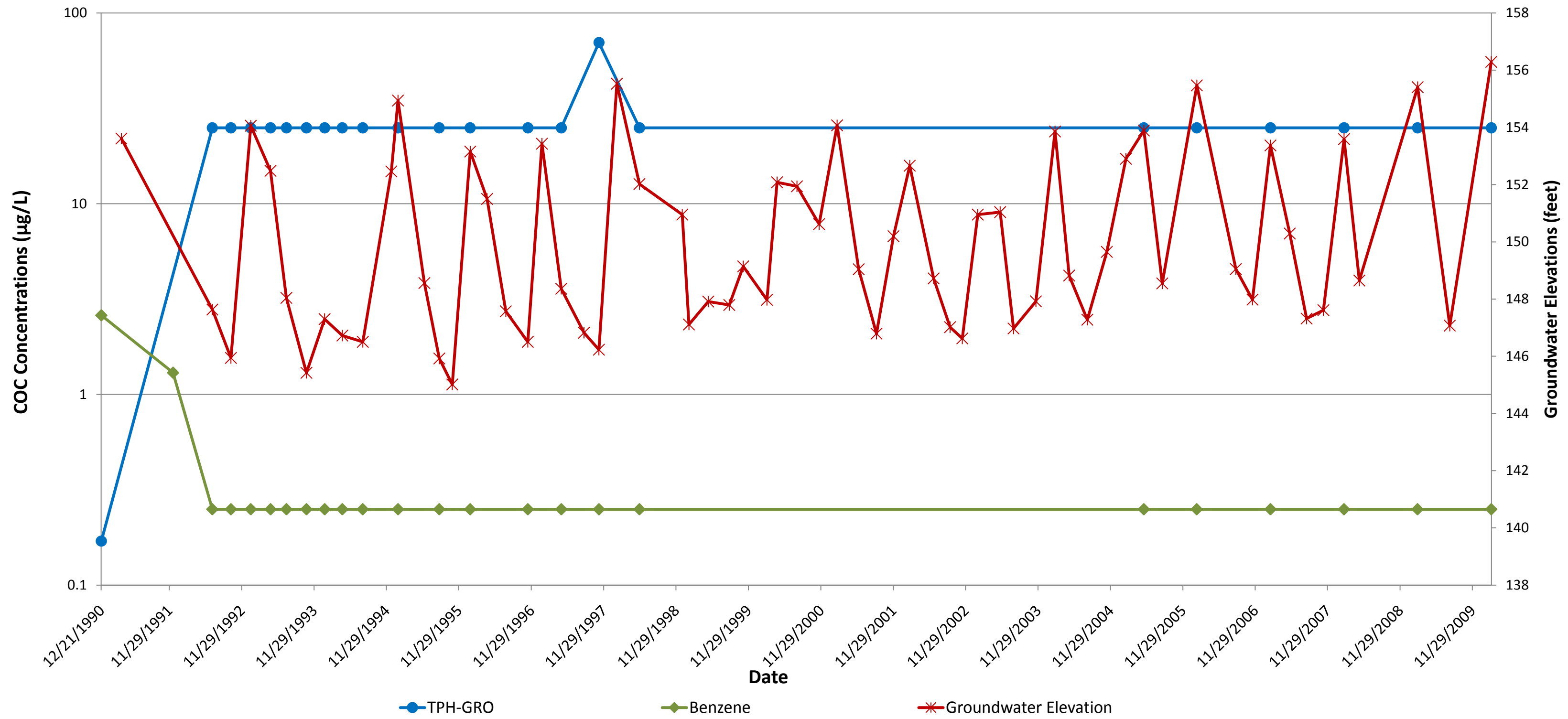
FORMER BP Service Station 11132
 3201 35th Avenue,
 Oakland, California

**Monitoring Well MW-5 Historical Analytical Data and
 Groundwater Elevations**



GRAPH
 MW-5

Hydrograph for MW-6



LEGEND:
 TPH-GRO = Total Petroleum Hydrocarbons as Gasoline
 µg/L = micrograms per liter

NOTE:
 Non-detects are plotted at half of the reporting limit.

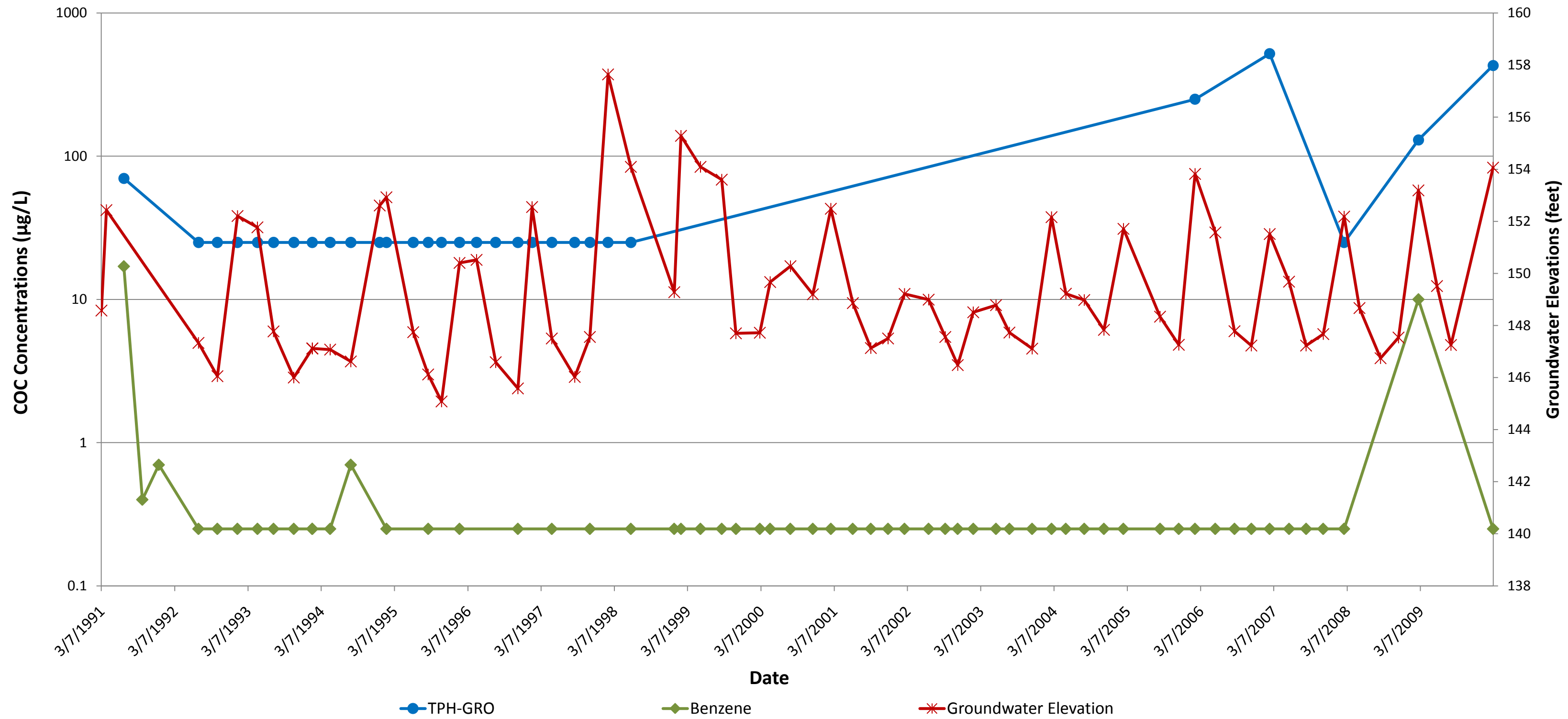
FORMER BP Service Station 11132
 3201 35th Avenue,
 Oakland, California

**Monitoring Well MW-6 Historical Analytical Data and
 Groundwater Elevations**




GRAPH
 MW-6

Hydrograph for MW-7

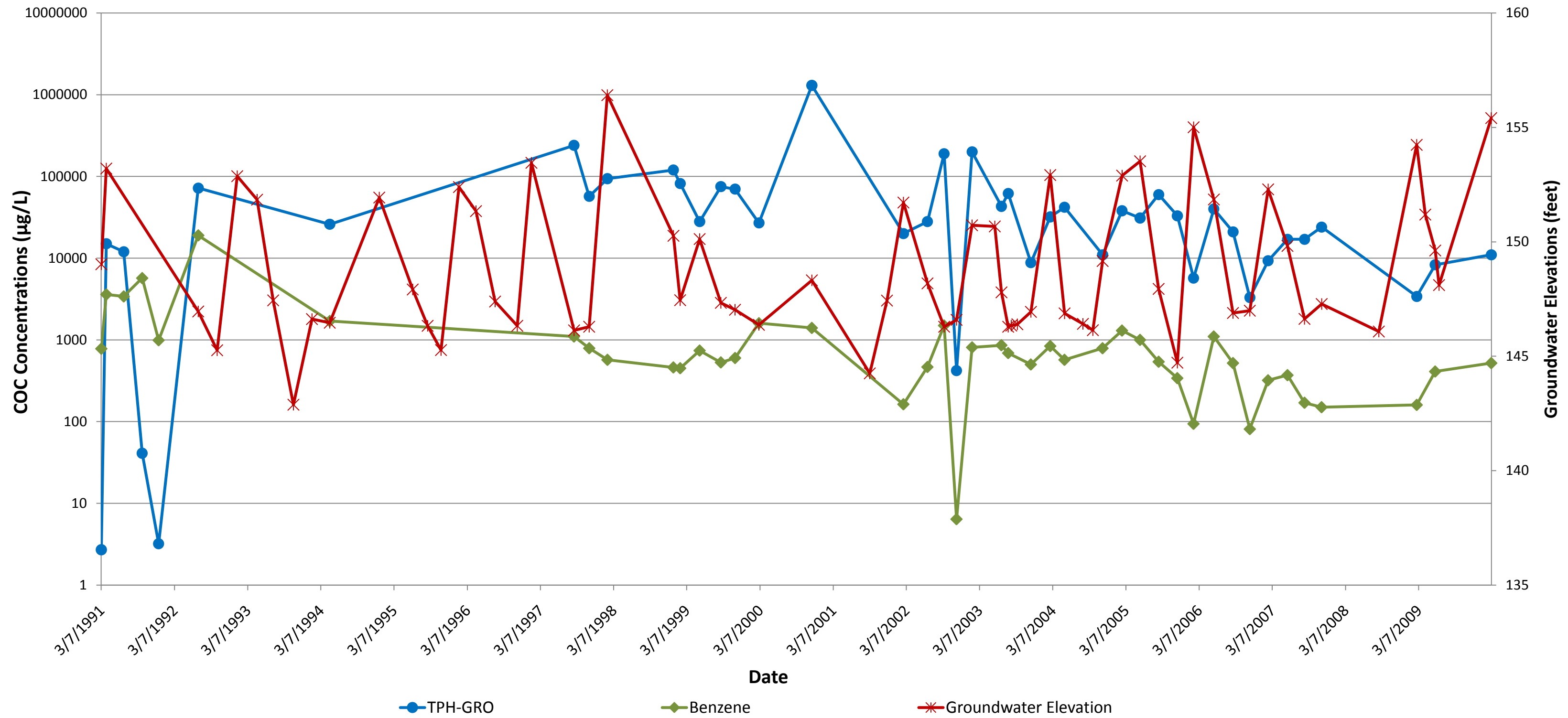


LEGEND:
 TPH-GRO = Total Petroleum Hydrocarbons as Gasoline
 µg/L = micrograms per liter

NOTE:
 Non-detects are plotted at half of the reporting limit.

FORMER BP Service Station 11132 3201 35th Avenue, Oakland, California	
Monitoring Well MW-7 Historical Analytical Data and Groundwater Elevations	
 Infrastructure, environment, buildings	GRAPH MW-7

Hydrograph for MW-8



LEGEND:
 TPH-GRO = Total Petroleum Hydrocarbons as Gasoline
 µg/L = micrograms per liter

NOTE:
 Non-detects are plotted at half of the reporting limit.
 Separate phase product has been observed since 2003 with product thickness from sheen to 0.05 feet.

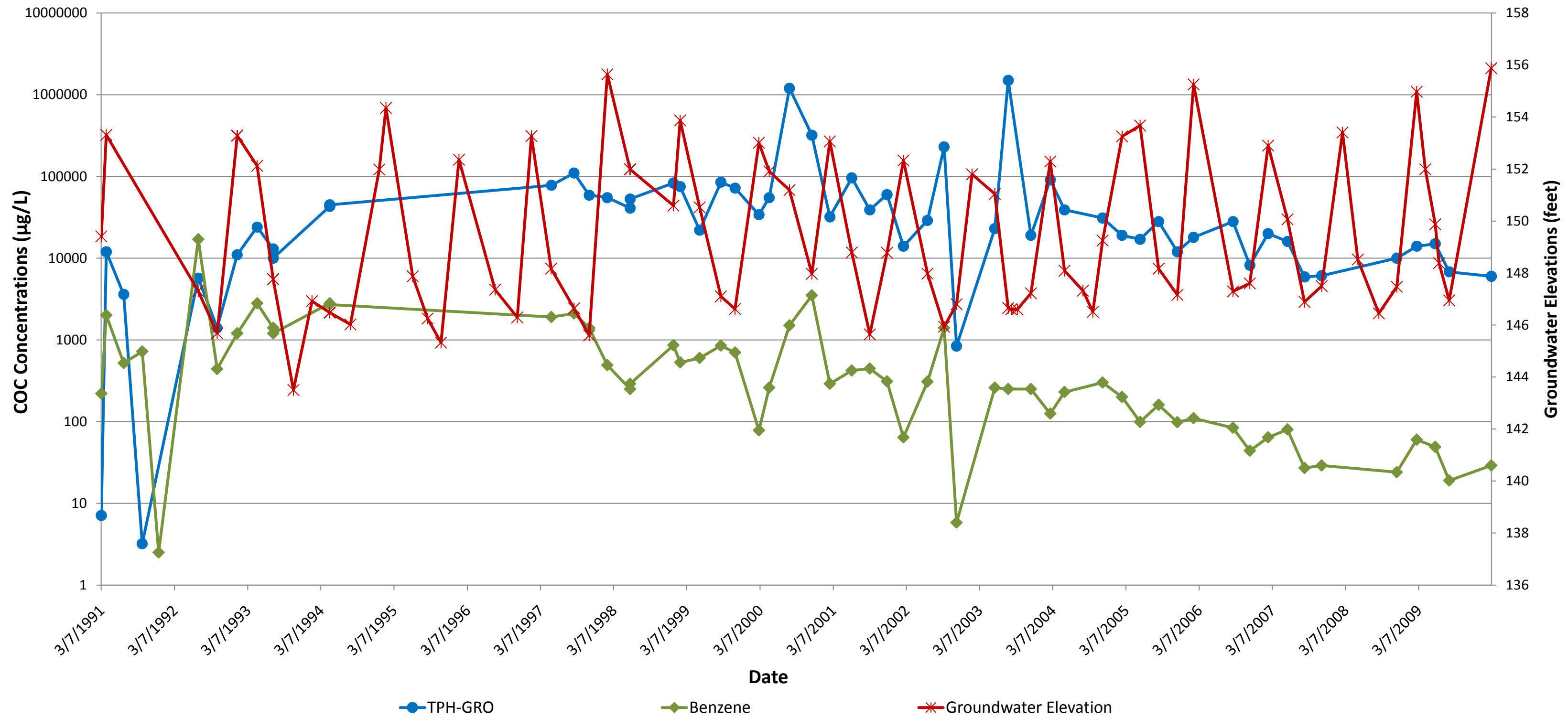
FORMER BP Service Station 11132
 3201 35th Avenue,
 Oakland, California

**Monitoring Well MW-8 Historical Analytical Data and
 Groundwater Elevations**



GRAPH
 MW-8

Hydrograph for MW-9

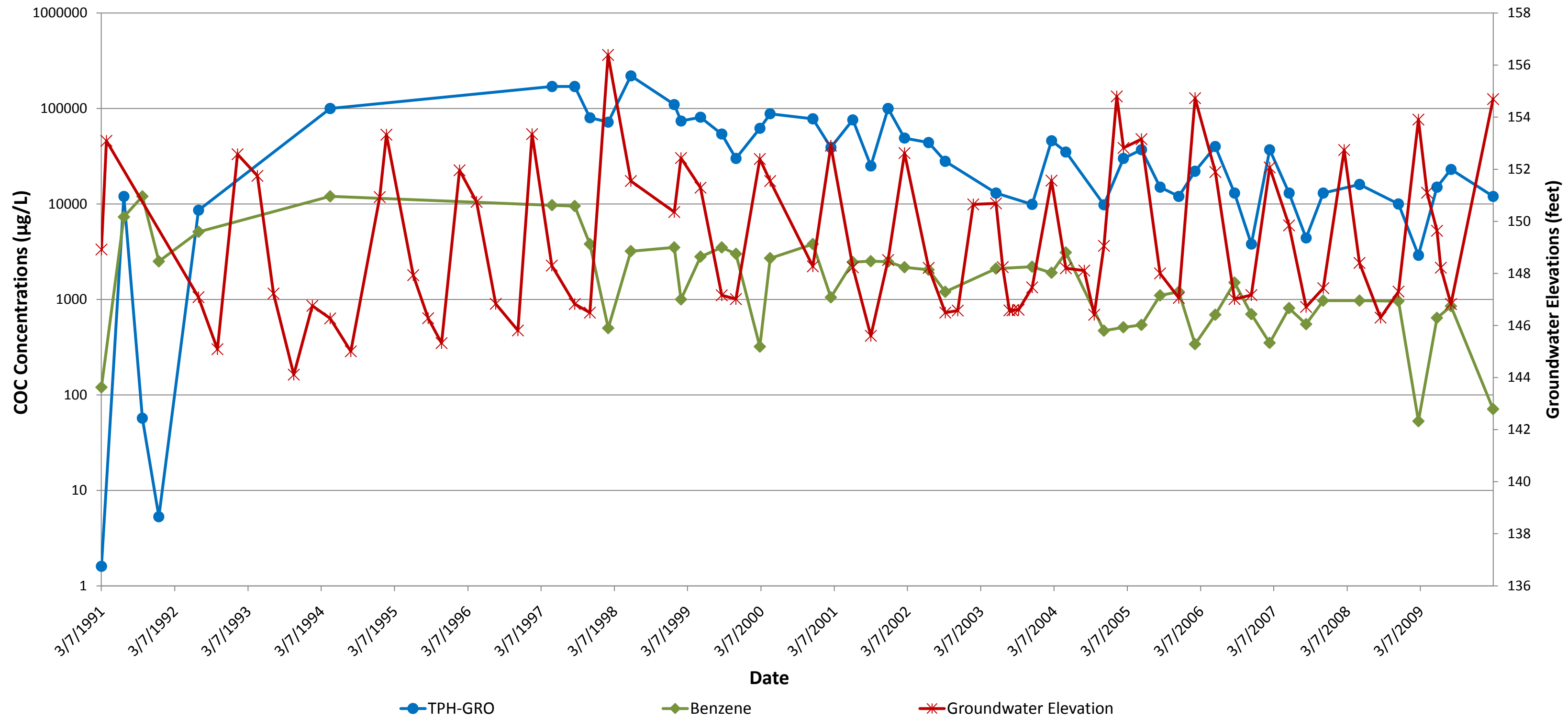


LEGEND:
 TPH-GRO = Total Petroleum Hydrocarbons as Gasoline
 µg/L = micrograms per liter

NOTE:
 Non-detects are plotted at half of the reporting limit.
 Separate phase product has been observed since 2003 with product thickness from sheen to 0.03 feet.

FORMER BP Service Station 11132 3201 35th Avenue, Oakland, California	
Monitoring Well MW-9 Historical Analytical Data and Groundwater Elevations	
	GRAPH MW-9

Hydrograph for MW-10



LEGEND:
 TPH-GRO = Total Petroleum Hydrocarbons as Gasoline
 µg/L = micrograms per liter

NOTE:
 Non-detects are plotted at half of the reporting limit.
 Separate phase product has been observed since 2001 with product thickness from sheen to 0.07 feet.

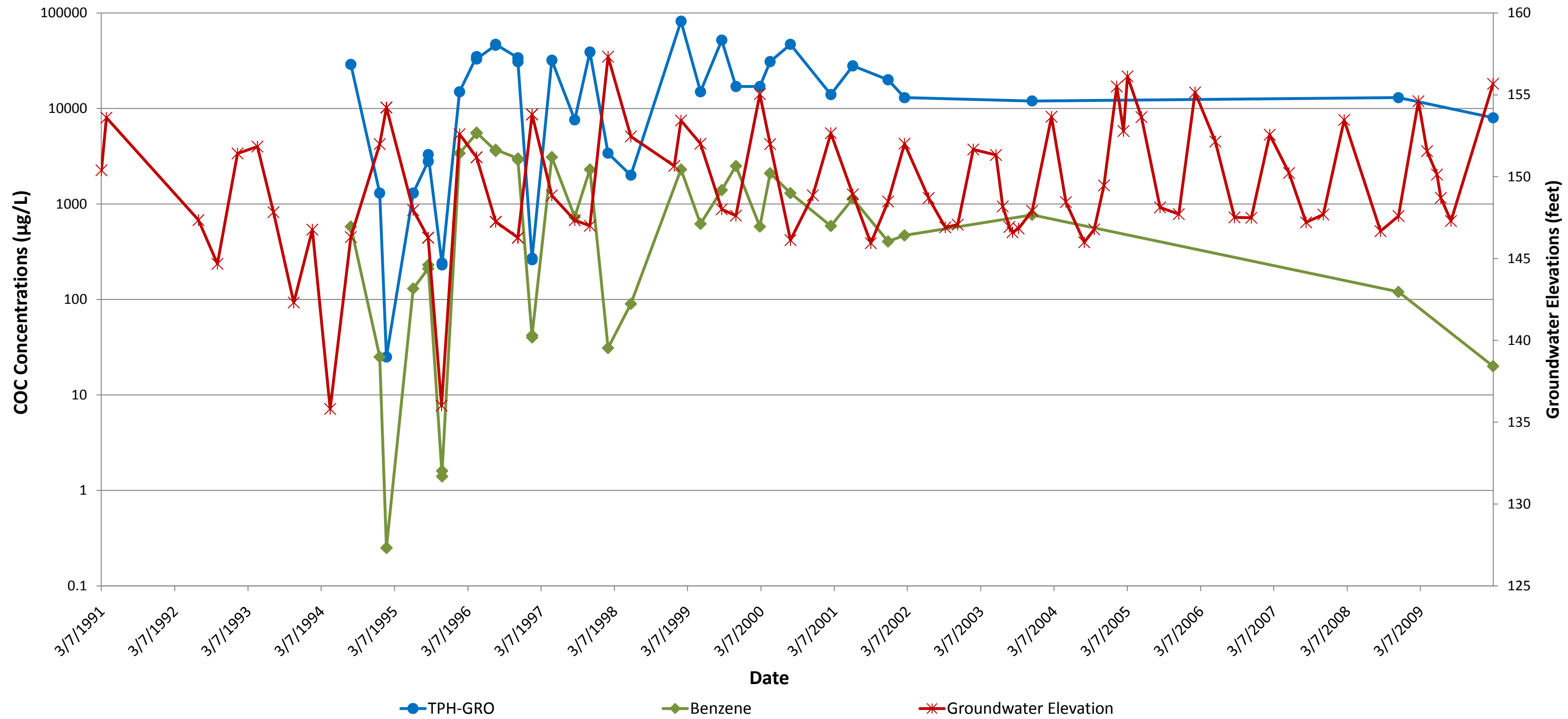
FORMER BP Service Station 11132
 3201 35th Avenue,
 Oakland, California

**Monitoring Well MW-10 Historical Analytical Data and
 Groundwater Elevations**




GRAPH
 MW-10

Hydrograph for RW-1



LEGEND:
 TPH-GRO = Total Petroleum Hydrocarbons as Gasoline
 µg/L = micrograms per liter

NOTE:
 Non-detects are plotted at half of the reporting limit.
 Separate phase product has been observed since 2001 with product thickness from sheen to 0.07 feet.

FORMER BP Service Station 11132 3201 35th Avenue, Oakland, California	
Monitoring Well RW-1 Historical Analytical Data and Groundwater Elevations	
 Infrastructure, environment, buildings	GRAPH RW-1