



February 27, 2006

TRC Project No. 42013809

Mr. Don Hwang
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA. 94502-6577

RECEIVED
By Iopprojectop at 10:52 am, Mar 03, 2006

RE: SITE CONCEPTUAL MODEL – ADDENDUM
76 SERVICE STATION # 3135
845 66TH AVE., OAKLAND, CALIFORNIA

Dear Mr. Hwang:

On behalf of ConocoPhillips, TRC has updated the previously submitted Site Conceptual Model (SCM) to include a sensitive receptor survey (SRS) report for 76 Service Station # 3135, located at 845 66th Ave. (Site) in Oakland, California (Figure 1). In addition to the recently completed receptor survey, the SCM includes a Tier II Risk-Based Corrective Action (RBCA) evaluation.

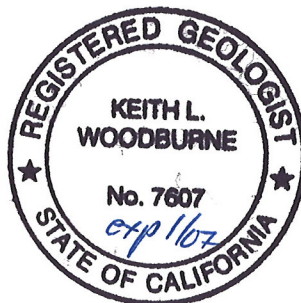
The SCM, RBCA evaluation, and SRS were prepared, at the request of the Alameda County Environmental Health (ACEH), and are based on discussions during a November 30, 2005 meeting at ACEH regarding pending site redevelopment and a need to expedite site closure.

The site has been adequately characterized and the current concentrations in groundwater do not present any significant threat to human health or the environment. Based on the data presented in the SCM, and on the conclusions of the RBCA, which take into account the proximity of the two surface water receptors identified in the SRS, TRC recommends no further action and requests the site be referred for closure.

If you have any questions or concerns regarding the information presented in the SCM, please contact me at (925) 688-2488.

Sincerely,
TRC

Keith Woodburne, P.G.
Senior Project Geologist



cc: Shelby Lathrop, ConocoPhillips (electronic upload only)



76 Broadway
Sacramento, California 95818

February 24, 2006

Mr. Don Hwang
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Re: **Transmittal**
Sensitive Receptor Survey
76 Service Station #3135
845 66th Avenue
Oakland, CA

Dear Mr. Hwang:

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

If you have any questions or need additional information, please contact

Shelby S. Lathrop (Contractor)
ConocoPhillips
Risk Management & Remediation
76 Broadway
Sacramento, CA 95818
Phone: 916-558-7609
Fax: 916-558-7639

Sincerely,

A handwritten signature in black ink that reads "Thomas H. Kosel". The signature is written in a cursive style.

Thomas Kosel
Risk Management & Remediation

Attachment



February 24, 2006

TRC Project No. 42013809

Mr. Don Hwang
Alameda County Health Services
1131 Harbor Bay Parkway
Alameda, CA. 94502-6577

RE: SENSITIVE RECEPTOR SURVEY
76 SERVICE STATION # 3135
845 66TH AVE., OAKLAND, CALIFORNIA

Dear Mr. Hwang:

On behalf of ConocoPhillips, TRC has prepared this sensitive receptor survey report for 76 Service Station # 3135, located at 845 66th Ave. (Site) in Oakland, California (Figure 1).

SCOPE OF WORK

To identify domestic and municipal wells within one-half mile of the subject site, TRC contacted the Department of Water Resources to review copies of well completion reports from nearby wells. The results, excluding destroyed water supply wells and groundwater monitoring and extraction wells, are summarized in Figure 1.

Also included in the survey was an evaluation of nearby surface water bodies as possible sensitive receptors. TRC accomplished this by observing various site and vicinity maps. Figure 1 shows the nearby surface water bodies, if any.

SENSITIVE RECEPTOR SURVEY

A request was made to the California Department of Water Resources (DWR) for well completion reports within the vicinity of the site. Of the well completion reports reviewed, no water supply wells were located within a one-half mile radius of the Site.

Surface water bodies within a one-half mile of the Site include Damon Slough and Lion Creek, located approximately 775 feet south and 525 feet southeast of the Site, respectively.

Groundwater at the site is found at an average depth of 6.58 feet below grade and flows in a northern direction at a hydraulic gradient of 0.005 feet per foot (Semi-Annual Monitoring Report dated October 26, 2005). However, historical groundwater flow directions have varied from northeast, northwest, southwest and southeast.

CONCLUSIONS

No water supply wells were identified within a one-half mile radius of the Site.

Due to the close proximity of Damon Slough and Lion Creek to the Site and historical groundwater flow directions, both surface water bodies may be considered potential sensitive receptors.

If you have any questions or concerns regarding this information, please contact either of the undersigned at 925-688-1200.

Sincerely,
TRC



Mike Sellwood
Staff Geologist

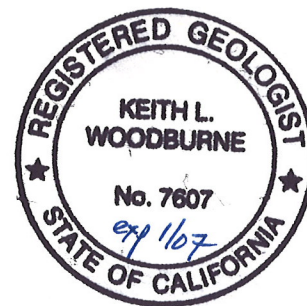


Keith Woodburne, P.G.
Senior Project Geologist

Attachments:

Figure 1 – Sensitive receptors within one-half mile radius of Site

cc: Shelby Lathrop, ConocoPhillips (electronic upload only)



Site Conceptual Model - Addendum
76 Service Station No. 3135
845 66th Avenue, Oakland, CA
Date Submitted: February 27, 2006
[3135 SCM Add_cvrltr.pdf](#)
[COP Perjury Statement.pdf](#)

	Description	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
Regional Setting	<p>Geology/Stratigraphy The San Francisco Bay Plain Basin is underlain by Pleistocene Age Older Alluvium and Franciscan bedrock to approximately 1,100 feet below grade (fbg). Overlying the Older Alluvium are alluvial, fluvial, and estuarine deposits known as Young Bay Mud. The upper 20 feet to 300 feet consists of Holocene Age Shallow Marine and estuarine deposits. The shallow subsurface of the Site is characterized by approximately 30 feet of clay with variable amounts of gravel, sand, and silt.</p>			<p>DWR Bulletin 118-1 Appendix A: Geology, August 1967</p> <p>DWR Bulletin 118-1 Volume II: Additional Fremont Study Area, August 1973.</p>			
	<p>Hydrogeology Shallow perched groundwater is present beneath the Site at depths ranging from approximately 4 to 11 fbg within the sandy/gravelly/silty clay above the Bay Mud. Historically, groundwater beneath the site flows south-southeast at a gradient of 0.005 to 0.01 feet per foot.</p>			<p>DWR Bulletin 118-1 Appendix A: Geology, August 1967</p> <p>DWR Bulletin 118-1 Volume II: Additional Fremont Study Area, August 1973.</p>			
	<p>Preferential Pathways A Sensitive Receptor Survey Report was prepared to identify domestic and municipal wells within one-half mile of the Site and evaluate nearby surface water bodies as possible sensitive receptors. The Sensitive Receptor Survey Report is attached. 3135 SRS Report.pdf</p> <p>No water supply wells were identified within one-half mile radius of the Site. Two surface water bodies, Damon Slough and Lion Creek, were identified as possible sensitive receptors.</p>			<p>TRC, 2005</p>			

	Description	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
	<p>Nearby Release Sites</p> <ol style="list-style-type: none"> 1) Huntington Laboratories (Oakland) 700 Kevin Court Oakland, CA RWQCB - San Francisco Bay (Case #01-1914) Status: Closed 2) Western Union (Oakland) 732 Kevin Court Oakland, CA RWQCB - San Francisco Bay (Case #01-1669) Status: Closed 3) Mauck Sheet Metal (Oakland) 755 Independence Road Oakland, CA RWQCB - San Francisco Bay (Case #01-0948) Status: Closed 4) Schwartz & Lindheim Property (Oakland) 6345 Coliseum Way Oakland, CA RWQCB - San Francisco Bay (Case #01-1308) Status: Closed 5) Peck & Hills Company (Oakland) 701 66th Ave. Oakland, CA RWQCB - San Francisco Bay (Case #01-1145) Status: Closed 6) Pacific Electric Motor Company (Oakland) 1009 66th Ave. Oakland, CA RWQCB - San Francisco Bay (Case #01-2124) Status: Open 7) Oakland Fire Station #29 (Oakland) 1016 66th Ave. Oakland, CA RWQCB - San Francisco Bay (Case #01-0630) Status: Closed 8) Acts Full Gospel Church (Oakland) 1034 66th Ave. Oakland, CA RWQCB - San Francisco Bay (Case #01-2213) Status: Closed 9) Silva Associated Roofing Company (Oakland) 814 69th Ave. Oakland, CA RWQCB - San Francisco Bay (Case #01-1390) Status: Closed 		<p>Figure 7 Nearby Release Sites.pdf</p>	<p>http://geotracker.swrcb.ca.gov/SCRIPTS/ESRIMAP.DLL?NAME=MOSERVER&ZIL=2.1&ZOL=2&cmd=ID&IDT=id05&5=on&1=on&2=on&3=on&ms=1&Site=ALL&Distance=Any&MCX=-122.200961125&MCY=37.756806548&QueryString=&MW=1.000000000477E-02&MH=7.48110831237625E-03&MAP_SIZE=1&REGUSER=True&x=384&y=49</p>			
Site Setting	<p>Site Description The subject site is situated on the northwest corner of San Leandro Street and 66th Avenue in Oakland, California (Figure 1). Station facilities currently include two gasoline underground storage tanks (USTs), 550-gallon waste oil UST, three dispenser islands, and a service station building. Eleven groundwater monitoring wells are present on and in the vicinity of the site (Figure 2).</p>		<p>Figure 1 Vicinity Map.pdf</p> <p>Figure 2 Site Plan.pdf</p>	<p>Gettler-Ryan (2000)</p> <p>TRC, (2005)</p>			

	Description	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
	<p>Site Geology Based on previous subsurface investigations, soils underlying the site are composed of fill materials to approximately 5 fbg underlain by clays with variable amounts of gravel, sand, and silt from 5 to 26 fbg.</p>		<p>MW Boring logs and Well Construction Details .pdf Cross sections .pdf</p>	<p>KEI, (1990) KEI 2, (1990) KEI, (1992) KEI, (1993) Gettler Ryan, (2000) Gettler Ryan, (2001)</p>			
	<p>Site Background The site has been a services station for approximately 53 years. Renovation of the site first occurred in 1967, when the size of the site expanded to its current configuration.</p> <p>1989: Two 10,000-gallon gasoline USTs, one 280-gallon waste oil UST and product piping were removed from the site. Confirmation soil samples collected from the UST pit indicated low residual maximum concentrations of Total Petroleum Hydrocarbons as gasoline (TPH-g), benzene, and Total Oil and Grease (TOG). After confirmation soil sampling, approximately 5,000 gallons of groundwater was removed from the UST pit and disposed offsite. A groundwater sample was collected and analyzed after recharge of the UST pit and contained TPH-g at 7,900 parts per billion (ppb) and benzene at 850 ppb. Confirmation soil samples collected from the product piping trench indicated low maximum residual concentrations of TPH-g and benzene.</p> <p>April 1990: Two shallow soil borings were advanced and three groundwater monitoring wells were installed to depths of approximately 22 fbg.</p> <p>August 1990: Three groundwater-monitoring wells (MW-4 through MW-6) were installed.</p> <p>February 1991: A hydropunch survey was performed at the site.</p> <p>March 1991: The pre-1967 UST pit was over-excavated, and two concrete slabs were removed from depths of approximately 8.5 and 10 fbg. Approximately 2,000 cubic yards of impacted soil was removed from the site and properly disposed. Over-excavation was limited by existing product piping. Confirmation soil samples from the former UST pit indicated low to moderate residual concentrations of TPH-g. Approximately 20,000 gallons of groundwater were pumped from the former UST pit prior to backfilling and properly disposed.</p> <p>September 1992: Three groundwater monitoring wells were installed in the streets adjacent to the site.</p> <p>April 1993: One groundwater monitoring well was installed at the site.</p> <p>August 1998: Oxygen Releasing Compound (ORC) was installed in monitoring well MW-6 to assist with biological attenuation of hydrocarbon compounds. Starting in 1999, the following bio-attenuation parameters have been measured at the site: nitrate, sulfate, ferrous iron, dissolved oxygen, and, oxidation-reduction potential. According to Gettler-Ryan, Inc.'s (GR) Annual Monitoring and Sampling Report dated April 19, 2001, review of these parameters indicates that bio-attenuation is occurring at the site.</p> <p>July 2001: One offsite well was installed to a depth of 20 fbg.</p> <p>October 2003: Site environmental consulting responsibilities were transferred to TRC.</p>			<p>TRC, 2005</p>			

	Description	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
	<p>Source Area The distribution of hydrocarbons in soil is shown in Figure 3. The highest concentrations of TPH-G (12,000 mg/kg), TPH-D (1,400 mg/kg), and benzene (84 mg/kg) were detected in soil sample EB-2 at 9 fbg. EB-2 was located in the vicinity of the pre-1967 UST pit. As stated above, in March 1991 approximately 2,000 cubic yards of impacted soil was removed from the pre-1967 UST pit and properly disposed, including soils in the vicinity of EB-1 and EB-2. Analytical results from sidewall samples collected during excavation activities indicate TPH-G concentrations ranging from 29 mg/kg (SW5 at 10.5 fbg) to 2,400 mg/kg (SW2 at 11 fbg), and benzene concentrations ranging from 1.9 mg/kg (SW8 at 11 fbg) to 38 mg/kg (SW2 at 11 fbg). Excavation boundaries were limited by existing product piping. Historical soil data is presented in Table 1.</p> <p>Soil samples exhibiting high hydrocarbon concentrations were typically collected from 5.5 to 10.5 fbg. In those samples with high hydrocarbon concentrations, groundwater was observed to fluctuate above the level of samples collection in the years following monitoring well installation. It is likely that hydrocarbons in soil collected from the sidewalls of the excavation area do not reflect source contaminants, but are instead the product of adsorption to soil particles from the dissolved phase.</p>	Table 1.xls	Figure 3 HC in Soil.pdf				
	<p>Dissolved Plume Gasoline range hydrocarbons, benzene, and MTBE are present in groundwater at the site. TPH-G and benzene have been detected since 1990 as far upgradient as MW-4 and as far downgradient as MW-10 (located approximately 50 feet south of the site). A summary of groundwater analytical results is provided in Table 2. Isoconcentration contours of dissolved-phase hydrocarbons from the September 27, 2005 monitoring event are presented in Figures 4 through 6.</p> <p>The results of groundwater monitoring data indicate:</p> <ul style="list-style-type: none"> • The maximum historic dissolved-phase TPH-G concentration was detected in MW-4 at 140,000 µg/l (1991). Recent data (Sept. 2005) indicates a TPPH concentration of 300 µg/l in well MW-4. During the most recent monitoring event (Sept. 2005) the maximum TPPH concentration was detected in MW-6 at 2,300 µg/l. • The maximum historic dissolved-phase benzene concentration was detected in MW-6 at 7,700 µg/l (1995). During the most recent monitoring event (Sept. 2005) the maximum benzene concentration was detected in MW-6 at 3.2 µg/l. • The maximum dissolved -phase MTBE concentration was detected in MW-6 at 2,800 µg/l (1998). Recent data (Sept. 2005) indicates a MTBE concentration of 24 µg/l in well MW-6. During the most recent monitoring event (Sept. 2005) the maximum MTBE concentration was detected in MW-2 at 45 µg/l. <p>The distribution of hydrocarbon concentrations in groundwater indicates that the majority of the dissolved phase contaminants have remained onsite in the vicinity of the pre-1967 UST pit over excavation area. TPPH and benzene were not detected at</p>	Table 2.XLS	Figure 4 Diss-TPPH_Sept05.pdf Figure 5 Diss-Benzene_Sept05.pdf Figure 6 Diss-MTBE_Sept05.pdf				

	Description	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
	<p>or above laboratory detection limits in downgradient well MW-10 during the most recent groundwater monitoring event. However, MTBE was detected in MW-10 at 5.2 µg/l.</p>						
	<p>Remediation</p> <p>In 1989, during the UST and product piping removal, approximately 5,000 gallons of groundwater was removed from the UST pit and disposed of offsite. A groundwater sample was collected and analyzed after recharge of the UST pit and contained TPH-g at 7,900 parts per billion (ppb) and benzene at 850 ppb. Figure 2 presents the UST and product piping excavation area.</p> <p>In 1991, approximately 2,000 cubic yards of impacted soil was removed from the vicinity of the pre-1967 USTs and properly disposed. Over-excavation was limited by existing product piping. Confirmation soil samples from the former UST pit indicated low to moderate residual concentrations of TPH-g. Approximately 20,000 gallons of groundwater were pumped from the former UST pit prior to backfilling and properly disposed. Figure 2 presents the pre-1967 overexcavation area.</p> <p>In 1998 Oxygen Releasing Compound (ORC) was installed in monitoring well MW-6 to assist with biological attenuation of hydrocarbon compounds.</p>		<p>Figure 2.pdf</p>				
	<p>RBCA</p> <p>A Tier 2 Risk Based Corrective Action (RBCA) Report was prepared using the RBCA Tool Kit for Chemical Releases, designed by Groundwater Services, Inc. The Tier 2 RBCA Report is attached. RBCA.pdf</p> <p>The RBCA was conducted to evaluate the following exposure pathways:</p> <ul style="list-style-type: none"> • Groundwater ingestion/surface water impact to commercial onsite and residential offsite receptors. • Groundwater discharge to surface water exposure. • Surface soil exposure to commercial onsite construction workers. • Volatilization and particulates to outdoor air inhalation for commercial onsite receptors and residential offsite receptors. • Volatilization to indoor air inhalation for onsite commercial receptors. <p>The Johnson-Ettinger Model was used to evaluate the indoor air volatilization pathway for each source media, using assumed site specific soil, groundwater, and air parameters.</p> <p>The results of the Tier 2 RBCA Model, shows that no Site Specific Target Levels (SSTLs) were exceeded for any COCs in Site groundwater. The SSTL for TPH - Arom >C07-C08 was exceeded in Site soil.</p>			<p>ASTM 1998, Standard Guide for Risk Based Corrective Action, ASTM PS-104.</p> <p>ASTM 1995, Emergency Standard Guide for Risk Based Corrective Action Applied at Petroleum Release Sites, ASTM E-1739.</p>			

TABLE 2
GROUNDWATER ANALYSIS AND GAUGING RESULTS
76 Station 3135
Oakland, California

Well No.	Monitoring Date	Depth to Water (ft btoc)	Surface Elevation (ft MSL)	Ground-water Elevation (ft MSL)	TPH-G (µg/l)	TPH-D (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	1,2-DCA (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)
MW-1	05/11/90	--	--	--	22000	--	--	590	42	1200	3600	--	--	--	--	--	--	--	--	--
MW-1	08/28/90	--	--	--	1700	--	--	140	1.4	180	150	--	--	--	--	--	--	--	--	--
MW-1	11/26/90	--	--	--	2900	--	--	160	2.3	330	320	--	--	--	--	--	--	--	--	--
MW-1	02/21/91	--	--	--	26000	690	--	280	39	1200	1900	--	--	--	--	--	--	--	--	--
MW-1	08/05/91	--	--	--	1200	200	--	95	6.2	230	80	--	--	--	--	--	--	--	--	--
MW-1	11/05/91	--	--	--	4900	260	--	80	ND	150	160	--	--	--	--	--	--	--	--	--
MW-1	02/07/92	--	--	--	220	ND	--	2.1	ND	10	16	--	--	--	--	--	--	--	--	--
MW-1	05/05/92	--	--	--	310	120	--	5.7	ND	7.1	15	--	--	--	--	--	--	--	--	--
MW-1	08/03/92	--	--	--	980	220	--	22	0.69	77	82	--	--	--	--	--	--	--	--	--
MW-1	11/03/92	--	--	--	1100	400	--	28	ND	80	78	--	--	--	--	--	--	--	--	--
MW-1	02/03/93	--	--	--	94	ND	--	ND	ND	1.4	1.6	--	--	--	--	--	--	--	--	--
MW-1	03/01/93	7.30	5.18	-2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	04/01/93	7.12	5.18	-1.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	05/17/93	8.25	5.18	-3.07	960	490	--	39	ND	57	60	--	--	--	--	--	--	--	--	--
MW-1	06/15/93	--	5.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	07/14/93	9.48	5.18	-4.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	08/13/93	10.00	5.18	-4.82	860	170	--	3.5	ND	17	20	--	--	--	--	--	--	--	--	--
MW-1	09/13/93	10.40	5.18	-5.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	10/14/93	10.73	5.18	-5.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/11/93	10.80	4.99	-5.81	930	160	--	7.3	ND	25	19	--	--	--	--	--	--	--	--	--
MW-1	12/14/93	9.50	4.99	-4.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	01/10/94	9.80	4.99	-4.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	02/10/94	8.58	4.99	-3.59	170	ND	--	0.9	2.3	ND	ND	--	--	--	--	--	--	--	--	--
MW-1	03/14/94	7.73	4.99	-2.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	04/23/94	8.28	4.99	-3.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	05/05/94	8.11	4.99	-3.12	96	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-1	06/07/94	8.09	4.99	-3.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	07/05/94	8.43	4.99	-3.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	08/02/94	8.76	4.99	-3.77	700	130	--	13	0.62	2	3.6	--	--	--	--	--	--	--	--	--
MW-1	11/07/94	8.26	4.99	-3.27	890	270	--	16	ND	31	21	--	--	--	--	--	--	--	--	--
MW-1	12/03/94	6.59	4.99	-1.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	01/10/95	6.12	4.99	-1.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	02/01/95	6.04	4.99	-1.05	120	ND	--	1.7	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-1	03/03/95	6.73	4.99	-1.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	05/02/95	6.57	4.99	-1.58	460	120	--	14	ND	14	13	--	--	--	--	--	--	--	--	--
MW-1	08/01/95	7.70	4.99	-2.71	190	86	--	4	ND	3.7	2.4	--	--	--	--	--	--	--	--	--
MW-1	11/01/95	9.08	4.99	-4.09	160	190	--	2.5	ND	0.82	0.57	280	--	--	--	--	--	--	--	--
MW-1	02/01/96	6.22	4.99	-1.23	240	90	--	8.7	2	ND	0.66	250	--	--	--	--	--	--	--	--
MW-1	02/04/97	8.48	4.99	-3.49	120	--	--	0.58	ND	ND	ND	150	--	--	--	--	--	--	--	--
MW-1	02/05/98	5.50	4.99	-0.51	130	--	--	1.3	ND	2.7	11	220	--	--	--	--	--	--	--	--
MW-1	02/04/99	6.58	4.99	-1.59	1600	--	--	74	16	ND	ND	680	850	--	--	--	--	--	--	--
MW-1	02/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	02/02/00	6.69	4.99	-1.70	174	--	--	5.70	1.41	ND	ND	839	787	--	--	--	--	--	--	--
MW-1	03/05/01	6.58	4.99	-1.59	510	--	--	12.7	0.875	2.57	ND	572	585	ND	ND	ND	ND	ND	ND	ND
MW-1	08/10/01	7.31	4.99	-2.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	02/22/02	6.25	4.96	-1.29	910	--	--	2	ND<1.0	2.3	ND<1.0	410	500	ND<6.7	ND<6.7	ND<6.7	ND<330	ND<6.7	ND<6.7	ND<1700
MW-1	03/10/03	6.89	4.96	-1.93	--	--	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	480	ND<20	ND<20	ND<20	ND<1000	ND<20	ND<20	ND<5000
MW-1	02/05/04	6.40	4.96	-1.44	--	--	600	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	36	--	--	--	--	--	--	ND<5000
MW-1	08/26/04	7.60	4.96	-2.64	--	--	290	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.6	--	--	--	--	--	--	ND<1000
MW-1	02/14/05	6.53	4.96	-1.57	--	--	230	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	26	--	--	--	--	--	--	ND<50

**TABLE 2
GROUNDWATER ANALYSIS AND GAUGING RESULTS**

76 Station 3135
Oakland, California

Well No.	Monitoring Date	Depth to Water (ft btoc)	Surface Elevation (ft MSL)	Ground-water Elevation (ft MSL)	TPH-G (µg/l)	TPH-D (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	1,2-DCA (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)
MW-1	09/27/05	7.93	4.96	-2.97	--	--	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	--	--	--	--	--	--	ND<250
MW-2	05/11/90	--	--	--	65000	--	--	3300	3300	4100	12000	--	--	--	--	--	--	--	--	--
MW-2	08/28/90	--	--	--	27000	3100	--	2600	1300	1900	3000	--	--	--	--	--	--	--	--	--
MW-2	11/26/90	--	--	--	15000	3800	--	1600	450	1100	2100	--	--	--	--	--	--	--	--	--
MW-2	02/21/91	--	--	--	3400	7000	--	160	61	200	490	--	--	--	--	--	--	--	--	--
MW-2	08/05/91	--	--	--	33000	4200	--	2900	190	3400	7900	--	--	--	--	--	--	--	--	--
MW-2	11/05/91	--	--	--	110000	3900	--	4200	200	3400	8600	--	--	--	--	--	--	--	--	--
MW-2	02/07/92	--	--	--	11000	2300	--	1400	30	1900	1400	--	--	--	--	--	--	--	--	--
MW-2	05/05/92	--	--	--	26000	4600	--	2300	110	2700	6900	--	--	--	--	--	--	--	--	--
MW-2	08/03/92	--	--	--	37000	3300	--	4500	480	3300	9700	--	--	--	--	--	--	--	--	--
MW-2	11/03/92	--	--	--	40000	9600	--	5600	130	3000	6100	--	--	--	--	--	--	--	--	--
MW-2	02/03/93	--	--	--	9300	3900	--	780	68	830	1200	--	--	--	--	--	--	--	--	--
MW-2	03/01/93	5.92	3.83	-2.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	04/01/93	5.76	3.83	-1.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	05/17/93	7.08	3.83	-3.25	46000	5500	--	4400	510	2900	9900	--	--	--	--	--	--	--	--	--
MW-2	06/15/93	7.02	3.83	-3.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	07/14/93	8.13	3.83	-4.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	08/13/93	8.64	3.83	-4.81	44000	2800	--	5100	600	2900	8500	--	--	--	--	--	--	--	--	--
MW-2	09/13/93	9.00	3.83	-5.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/14/93	9.03	3.83	-5.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	11/11/93	9.22	3.57	-5.65	36000	7000	--	4800	970	3000	8100	--	--	--	--	--	--	--	--	--
MW-2	12/14/93	8.05	3.57	-4.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	01/10/94	8.29	3.57	-4.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	02/10/94	6.93	3.57	-3.36	12000	2000	--	1000	17	880	940	--	--	--	--	--	--	--	--	--
MW-2	03/14/94	6.41	3.57	-2.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	04/23/94	6.66	3.57	-3.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	05/05/94	6.38	3.57	-2.81	36000	3100	--	3200	670	2700	9600	--	--	--	--	--	--	--	--	--
MW-2	06/07/94	6.33	3.57	-2.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	07/05/94	6.52	3.57	-2.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	08/02/94	6.75	3.57	-3.18	32000	8500	--	2400	2200	2900	12000	--	--	--	--	--	--	--	--	--
MW-2	11/07/94	6.04	3.57	-2.47	49000	3100	--	1700	2000	3000	10000	--	--	--	--	--	--	--	--	--
MW-2	12/03/94	4.95	3.57	-1.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	01/10/95	4.59	3.57	-1.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	02/01/95	4.54	3.57	-0.97	9300	1800	--	300	210	630	2600	--	--	--	--	--	--	--	--	--
MW-2	03/03/95	5.17	3.57	-1.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	05/02/95	5.03	3.57	-1.46	5600	2300	--	150	ND	150	180	--	--	--	--	--	--	--	--	--
MW-2	08/01/95	6.16	3.57	-2.59	13000	2900	--	700	140	1400	5500	--	--	--	--	--	--	--	--	--
MW-2	11/01/95	7.30	3.57	-3.73	18000	4100	--	490	110	1300	4600	190	--	--	--	--	--	--	--	--
MW-2	02/01/96	4.57	3.57	-1.00	22000	5500	--	470	77	1400	5900	ND	--	--	--	--	--	--	--	--
MW-2	02/04/97	7.10	3.57	-3.53	100	--	--	ND	0.89	ND	ND	81	--	--	--	--	--	--	--	--
MW-2	02/05/98	4.12	3.57	-0.55	330	--	--	2.6	2.6	17	58	5.5	--	--	--	--	--	--	--	--
MW-2	08/28/98	6.26	3.57	-2.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	02/04/99	5.01	3.57	-1.44	ND	--	--	ND	0.54	0.6	1.5	19	16	--	--	--	--	--	--	--
MW-2	02/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	02/02/00	5.35	3.57	-1.78	ND	--	--	ND	ND	ND	ND	163	150	--	--	--	--	--	--	--
MW-2	03/05/01	5.26	3.57	-1.69	658	--	--	5.53	ND	70	152	108	--	--	--	--	--	--	--	--
MW-2	08/10/01	6.03	3.57	-2.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	02/22/02	4.81	3.56	-1.25	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	16	18	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500

TABLE 2
GROUNDWATER ANALYSIS AND GAUGING RESULTS
76 Station 3135
Oakland, California

Well No.	Monitoring Date	Depth to Water (ft btoc)	Surface Elevation (ft MSL)	Ground-water Elevation (ft MSL)	TPH-G (µg/l)	TPH-D (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	1,2-DCA (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)
MW-2	03/10/03	6.72	3.56	-3.16	--	--	430	2.8	ND<0.50	48	76	--	68	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500
MW-2	02/05/04	4.65	3.56	-1.09	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	--	--	--	--	--	--	ND<500
MW-2	08/26/04	5.86	3.56	-2.30	--	--	210	ND<0.50	ND<0.50	0.62	1.1	--	1.7	--	--	--	--	--	--	ND<1000
MW-2	02/14/05	5.39	3.56	-1.83	--	--	290	ND<0.50	ND<0.50	1.8	1.9	--	5.7	--	--	--	--	--	--	ND<50
MW-2	09/27/05	6.53	3.56	-2.97	--	--	580	0.91	ND<0.50	16	21	--	45	--	--	--	--	--	--	ND<250
MW-3	05/11/90	--	--	--	ND	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	08/28/90	--	--	--	ND	--	--	ND	ND	ND	0.7	--	--	--	--	--	--	--	--	--
MW-3	11/26/90	--	--	--	ND	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	02/21/91	--	--	--	ND	--	--	ND	ND	ND	0.64	--	--	--	--	--	--	--	--	--
MW-3	08/05/91	--	--	--	ND	63	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	11/05/91	--	--	--	31	ND	--	ND	ND	ND	0.65	--	--	--	--	--	--	--	--	--
MW-3	02/07/92	--	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	05/05/92	--	--	--	ND	56	--	ND	ND	0.43	1.8	--	--	--	--	--	--	--	--	--
MW-3	08/03/92	--	--	--	ND	58	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	11/03/92	--	--	--	ND	52	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	02/03/93	--	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	03/01/93	4.84	3.30	-1.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	04/01/93	4.60	3.30	-1.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	05/17/93	5.47	3.30	-2.17	ND	53	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	06/15/93	5.57	3.30	-2.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	07/14/93	6.92	3.30	-3.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	08/13/93	7.85	3.30	-4.55	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	09/13/93	8.42	3.30	-5.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	10/14/93	8.90	3.30	-5.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	11/11/93	8.92	3.12	-5.80	ND	51	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	12/14/93	7.36	3.12	-4.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	01/10/94	7.54	3.12	-4.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	02/10/94	6.23	3.12	-3.11	ND	50	--	ND	ND	ND	0.84	--	--	--	--	--	--	--	--	--
MW-3	03/14/94	5.56	3.12	-2.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	04/23/94	7.72	3.12	-4.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	05/05/94	5.50	3.12	-2.38	62	66	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	06/07/94	5.35	3.12	-2.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	07/05/94	5.46	3.12	-2.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	08/02/94	5.84	3.12	-2.72	150	76	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	11/07/94	6.05	3.12	-2.93	94	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	12/03/94	4.51	3.12	-1.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	01/10/95	3.82	3.12	-0.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	02/01/95	3.84	3.12	-0.72	100	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	03/03/95	4.27	3.12	-1.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	05/02/95	4.11	3.12	-0.99	360	56	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	08/01/95	5.10	3.12	-1.98	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	11/01/95	6.65	3.12	-3.53	ND	200	--	ND	ND	ND	ND	200	--	--	--	--	--	--	--	--
MW-3	02/01/96	4.29	3.12	-1.17	ND	160	--	ND	ND	ND	ND	190	--	--	--	--	--	--	--	--
MW-3	02/04/97	6.43	3.12	-3.31	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-3	02/05/98	4.68	3.12	-1.56	ND	--	--	ND	ND	ND	ND	490	--	--	--	--	--	--	--	--
MW-3	02/04/99	4.62	3.12	-1.50	ND	--	--	ND	ND	ND	ND	480	530	--	--	--	--	--	--	--
MW-3	02/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	02/02/00	5.16	3.12	-2.04	ND	--	--	ND	ND	ND	ND	250	346	--	--	--	--	--	--	--

TABLE 2
GROUNDWATER ANALYSIS AND GAUGING RESULTS
76 Station 3135
Oakland, California

Well No.	Monitoring Date	Depth to Water (ft btoc)	Surface Elevation (ft MSL)	Ground-water Elevation (ft MSL)	TPH-G (µg/l)	TPH-D (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	1,2-DCA (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)
MW-3	03/05/01	5.07	3.12	-1.95	ND	--	--	ND	ND	ND	ND	167	--	--	--	--	--	--	--	--
MW-3	08/10/01	5.82	3.12	-2.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	02/22/02	4.58	3.12	-1.46	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	240	280	ND<5.0	ND<5.0	ND<5.0	ND<250	ND<5.0	ND<5.0	ND<1200
MW-3	03/10/03	4.73	3.12	-1.61	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	100	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500
MW-3	02/05/04	4.20	3.12	-1.08	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	--	--	--	--	--	--	ND<500
MW-3	08/26/04	5.61	3.12	-2.49	--	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	2.9	--	--	--	--	--	--	ND<1000
MW-3	02/14/05	4.98	3.12	-1.86	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.2	--	--	--	--	--	--	ND<50
MW-3	09/27/05	6.05	3.12	-2.93	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.6	--	--	--	--	--	--	ND<250
MW-4	08/28/90	--	--	--	62000	--	--	810	72	4400	4600	--	--	--	--	--	--	--	--	--
MW-4	11/26/90	--	--	--	49000	--	--	360	36	3800	11000	--	--	--	--	--	--	--	--	--
MW-4	02/21/91	--	--	--	33000	4100	--	210	21	3800	12000	--	--	--	--	--	--	--	--	--
MW-4	08/05/91	--	--	--	37000	6200	--	310	70	3600	9700	--	--	--	--	--	--	--	--	--
MW-4	11/05/91	--	--	--	140000	7700	--	320	ND	4800	13000	--	--	--	--	--	--	--	--	--
MW-4	02/07/92	--	--	--	8100	2300	--	24	4.9	1800	3200	--	--	--	--	--	--	--	--	--
MW-4	05/05/92	--	--	--	15000	3200	--	82	12	2000	5600	--	--	--	--	--	--	--	--	--
MW-4	08/03/92	--	--	--	24000	2400	--	61	ND	2100	5400	--	--	--	--	--	--	--	--	--
MW-4	11/03/92	--	--	--	36000	8300	--	69	ND	3000	7400	--	--	--	--	--	--	--	--	--
MW-4	02/03/93	--	--	--	370	720	--	2.6	ND	1.2	53	--	--	--	--	--	--	--	--	--
MW-4	03/01/93	7.63	5.27	-2.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	04/01/93	7.25	5.27	-1.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	05/17/93	8.46	5.27	-3.19	2500	3100	--	ND	ND	170	410	--	--	--	--	--	--	--	--	--
MW-4	06/15/93	9.00	5.27	-3.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	07/14/93	9.74	5.27	-4.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	08/13/93	10.23	5.27	-4.96	19000	2000	--	ND	ND	1600	4100	--	--	--	--	--	--	--	--	--
MW-4	09/13/93	10.62	5.27	-5.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/14/93	10.84	5.27	-5.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	11/11/93	10.88	4.93	-5.95	16000	4000	--	110	12	1800	3800	--	--	--	--	--	--	--	--	--
MW-4	12/14/93	9.60	4.93	-4.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	01/10/94	9.92	4.93	-4.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	02/10/94	8.79	4.93	-3.86	830	170	--	3.5	1.4	36	80	--	--	--	--	--	--	--	--	--
MW-4	03/14/94	7.91	4.93	-2.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	04/23/94	8.41	4.93	-3.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	05/05/94	8.27	4.93	-3.34	6900	2000	--	17	ND	480	1300	--	--	--	--	--	--	--	--	--
MW-4	06/07/94	8.27	4.93	-3.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	07/05/94	8.58	4.93	-3.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	08/02/94	8.91	4.93	-3.98	17000	2500	--	38	ND	1800	4300	--	--	--	--	--	--	--	--	--
MW-4	11/07/94	8.64	4.93	-3.71	20000	2200	--	84	17	1500	3000	--	--	--	--	--	--	--	--	--
MW-4	12/03/94	6.78	4.93	-1.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	01/10/95	6.35	4.93	-1.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	02/01/95	5.73	4.93	-0.80	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	03/03/95	6.82	4.93	-1.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	05/02/95	5.74	4.93	-0.81	5400	2500	--	36	ND	130	710	--	--	--	--	--	--	--	--	--
MW-4	08/01/95	7.78	4.93	-2.85	7900	3400	--	21	ND	210	860	--	--	--	--	--	--	--	--	--
MW-4	11/01/95	9.16	4.93	-4.23	4900	3300	--	12	ND	190	710	210	--	--	--	--	--	--	--	--
MW-4	02/01/96	4.64	4.93	0.29	91	ND	--	2.7	ND	1.2	6.8	7.8	--	--	--	--	--	--	--	--
MW-4	02/04/97	8.65	4.93	-3.72	130	--	--	0.58	ND	ND	ND	150	--	--	--	--	--	--	--	--
MW-4	02/05/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	02/04/99	4.04	4.93	0.89	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--

**TABLE 2
GROUNDWATER ANALYSIS AND GAUGING RESULTS**

76 Station 3135
Oakland, California

Well No.	Monitoring Date	Depth to Water (ft btoc)	Surface Elevation (ft MSL)	Ground-water Elevation (ft MSL)	TPH-G (µg/l)	TPH-D (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	1,2-DCA (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)
MW-4	02/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	02/02/00	4.07	4.93	0.86	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-4	03/05/01	4.14	4.93	0.79	ND	--	--	ND	ND	ND	ND	2.55	--	--	--	--	--	--	--	--
MW-4	08/10/01	4.77	4.93	0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	02/22/02	3.87	5.01	1.14	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	--	--	--	--	--	--	--
MW-4	03/10/03	4.12	5.01	0.89	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	--	--	--	--	--	--	--
MW-4	02/05/04	5.30	5.01	-0.29	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	--	--	--	--	--	--	ND<500
MW-4	08/26/04	7.68	5.01	-2.67	--	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	0.50	--	--	--	--	--	--	ND<1000
MW-4	02/14/05	5.33	5.01	-0.32	--	--	240	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	--	--	--	--	--	--	ND<50
MW-4	09/27/05	7.97	5.01	-2.96	--	--	300	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	--	--	--	--	--	--	ND<250
MW-5	08/28/90	--	--	--	ND	--	--	ND	ND	ND	1.2	--	--	--	--	--	--	--	--	--
MW-5	11/26/90	--	--	--	ND	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5	02/21/91	--	--	--	56	--	--	ND	ND	ND	4.7	--	--	--	--	--	--	--	--	--
MW-5	08/05/91	--	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5	11/05/91	--	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5	02/07/92	--	--	--	ND	ND	--	ND	ND	0.36	0.94	--	--	--	--	--	--	--	--	--
MW-5	05/05/92	--	--	--	ND	72	--	ND	ND	0.42	1.4	--	--	--	--	--	--	--	--	--
MW-5	08/03/92	--	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5	11/03/92	--	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5	02/03/93	--	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5	03/01/93	6.68	4.61	-2.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	04/01/93	6.51	4.61	-1.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	05/17/93	7.75	4.61	-3.14	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5	06/15/93	8.18	4.61	-3.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	07/14/93	8.98	4.61	-4.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	08/13/93	9.49	4.61	-4.88	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5	09/13/93	9.88	4.61	-5.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	10/14/93	10.04	4.61	-5.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	11/11/93	10.13	4.27	-5.86	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5	12/14/93	8.85	4.27	-4.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	01/10/94	9.10	4.27	-4.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	02/10/94	7.71	4.27	-3.44	ND	ND	--	ND	ND	ND	0.59	--	--	--	--	--	--	--	--	--
MW-5	03/14/94	7.02	4.27	-2.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	04/23/94	7.57	4.27	-3.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	05/05/94	7.38	4.27	-3.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	06/07/94	7.39	4.27	-3.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	07/05/94	7.72	4.27	-3.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	08/02/94	8.05	4.27	-3.78	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5	11/07/94	7.56	4.27	-3.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/03/94	5.80	4.27	-1.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	01/10/95	5.37	4.27	-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	02/01/95	5.24	4.27	-0.97	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5	03/03/95	5.99	4.27	-1.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	05/02/95	5.85	4.27	-1.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	08/01/95	7.00	4.27	-2.73	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5	11/01/95	8.40	4.27	-4.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	02/01/96	5.45	4.27	-1.18	ND	ND	--	ND	ND	ND	ND	0.72	--	--	--	--	--	--	--	--
MW-5	02/04/97	7.82	4.27	-3.55	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--

TABLE 2
GROUNDWATER ANALYSIS AND GAUGING RESULTS
76 Station 3135
Oakland, California

Well No.	Monitoring Date	Depth to Water (ft btoc)	Surface Elevation (ft MSL)	Ground-water Elevation (ft MSL)	TPH-G (µg/l)	TPH-D (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	1,2-DCA (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)
MW-5	02/05/98	3.85	4.27	0.42	ND	--	--	ND	ND	ND	ND	490	--	--	--	--	--	--	--	--
MW-5	02/04/99	5.85	4.27	-1.58	ND	--	--	ND	ND	ND	ND	23	26	--	--	--	--	--	--	--
MW-5	02/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	02/02/00	5.94	4.27	-1.67	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-5	03/05/01	5.85	4.27	-1.58	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-5	08/10/01	6.53	4.27	-2.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	02/22/02	5.54	4.31	-1.23	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.6	11	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500
MW-5	03/10/03	6.93	4.31	-2.62	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.6	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500
MW-5	02/05/04	6.72	4.31	-2.41	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.7	--	--	--	--	--	--	ND<500
MW-5	08/26/04	6.90	4.31	-2.59	--	--	ND<50	ND<0.5	2.8	0.56	3.2	--	2.9	--	--	--	--	--	--	ND<1000
MW-5	02/14/05	5.83	4.31	-1.52	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.4	--	--	--	--	--	--	ND<50
MW-5	09/27/05	7.51	4.31	-3.20	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.55	--	--	--	--	--	--	ND<250
MW-6	08/28/90	--	--	--	12000	1000	--	1700	1400	230	2100	--	--	--	--	--	--	--	--	--
MW-6	11/26/90	--	--	--	4000	320	--	800	120	250	440	--	--	--	--	--	--	--	--	--
MW-6	02/21/91	--	--	--	750	160	--	77	14	23	140	--	--	--	--	--	--	--	--	--
MW-6	08/05/91	--	--	--	860	130	--	130	11	92	150	--	--	--	--	--	--	--	--	--
MW-6	11/05/91	--	--	--	7100	300	--	200	ND	190	580	--	--	--	--	--	--	--	--	--
MW-6	02/07/92	--	--	--	180	ND	--	22	0.68	22	20	--	--	--	--	--	--	--	--	--
MW-6	05/05/92	--	--	--	ND	47	--	ND	ND	ND	1.3	--	--	--	--	--	--	--	--	--
MW-6	08/03/92	--	--	--	1100	170	--	180	1.1	62	78	--	--	--	--	--	--	--	--	--
MW-6	11/03/92	--	--	--	920	220	--	45	0.76	12	110	--	--	--	--	--	--	--	--	--
MW-6	02/03/93	--	--	--	ND	ND	--	1.2	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-6	03/01/93	6.20	4.31	-1.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	04/01/93	6.04	4.31	-1.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	05/17/93	7.50	4.31	-3.19	4900	1400	--	890	46	210	530	--	--	--	--	--	--	--	--	--
MW-6	06/15/93	7.76	4.31	-3.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	07/14/93	8.69	4.31	-4.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	08/13/93	9.20	4.31	-4.89	2300	440	--	330	ND	95	40	--	--	--	--	--	--	--	--	--
MW-6	09/13/93	9.59	4.31	-5.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/14/93	9.75	4.31	-5.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/11/93	9.87	4.03	-5.84	3000	650	--	470	ND	220	270	--	--	--	--	--	--	--	--	--
MW-6	12/14/93	8.60	4.03	-4.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	01/10/94	8.81	4.03	-4.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	02/10/94	7.23	4.03	-3.20	ND	ND	--	3.5	ND	1.5	ND	--	--	--	--	--	--	--	--	--
MW-6	03/14/94	6.68	4.03	-2.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	04/23/94	7.24	4.03	-3.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	05/05/94	7.01	4.03	-2.98	2600	630	--	430	99	24	420	--	--	--	--	--	--	--	--	--
MW-6	06/07/94	7.02	4.03	-2.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	07/05/94	7.41	4.03	-3.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	08/02/94	7.66	4.03	-3.63	28000	2400	--	2200	940	1600	7500	--	--	--	--	--	--	--	--	--
MW-6	11/07/94	6.78	4.03	-2.75	23000	770	--	3800	970	1400	4700	--	--	--	--	--	--	--	--	--
MW-6	12/03/94	5.44	4.03	-1.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	01/10/95	5.00	4.03	-0.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	02/01/95	4.98	4.03	-0.95	55000	2700	--	7700	9100	4500	20000	--	--	--	--	--	--	--	--	--
MW-6	03/03/95	5.71	4.03	-1.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	05/02/95	5.58	4.03	-1.55	59000	3600	--	4700	4400	4000	18000	--	--	--	--	--	--	--	--	--
MW-6	08/01/95	6.76	4.03	-2.73	23000	2800	--	1400	510	940	7300	--	--	--	--	--	--	--	--	--
MW-6	11/01/95	8.10	4.03	-4.07	24000	4300	--	1100	200	1900	6000	170	--	--	--	--	--	--	--	--

TABLE 2
GROUNDWATER ANALYSIS AND GAUGING RESULTS
76 Station 3135
Oakland, California

Well No.	Monitoring Date	Depth to Water (ft btoc)	Surface Elevation (ft MSL)	Ground-water Elevation (ft MSL)	TPH-G (µg/l)	TPH-D (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	1,2-DCA (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)
MW-6	02/01/96	5.09	4.03	-1.06	58000	3700	--	2700	1800	4200	17000	ND	--	--	--	--	--	--	--	--
MW-6	02/04/97	7.61	4.03	-3.58	95	--	--	ND	1	ND	ND	96	--	--	--	--	--	--	--	--
MW-6	02/05/98	4.55	4.03	-0.52	44000	--	--	2100	1600	5200	20000	2800	--	--	--	--	--	--	--	--
MW-6	08/28/98	6.95	4.03	-2.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	02/04/99	5.59	4.03	-1.56	37000	--	--	480	250	2900	10000	ND	--	--	--	--	--	--	--	--
MW-6	02/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	02/02/00	6.24	4.03	-2.21	24300	--	--	313	42	1880	5490	604	357	--	--	--	--	--	--	--
MW-6	03/05/01	6.29	4.03	-2.26	29300	--	--	272	66.8	2180	7380	1120	--	--	--	--	--	--	--	--
MW-6	08/10/01	7.11	4.03	-3.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	02/22/02	5.37	4.05	-1.32	22000	--	--	180	ND<50	1300	3100	760	790	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2500
MW-6	03/10/03	5.95	4.05	-1.90	--	--	1200	13	ND<1.0	53	45	--	150	ND<4.0	ND<4.0	ND<4.0	ND<200	ND<4.0	ND<4.0	ND<1000
MW-6	02/05/04	5.45	4.05	-1.40	--	--	8400	100	12	770	980	--	270	--	--	--	--	--	--	ND<5000
MW-6	08/26/04	6.76	4.05	-2.71	--	--	4700	15	1.2	390	470	--	180	--	--	--	--	--	--	ND<1000
MW-6	02/14/05	5.75	4.05	-1.70	--	--	6600	44	8.5	640	750	--	160	--	--	--	--	--	--	ND<5000
MW-6	09/27/05	7.19	4.05	-3.14	--	--	2300	3.2	0.6	160	270	--	24	--	--	--	--	--	--	ND<250
MW-7	05/11/93	4.52	4.84	0.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	05/17/93	7.00	4.84	-2.16	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-7	06/15/93	7.47	4.84	-2.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	07/14/93	8.55	4.84	-3.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	08/13/93	9.23	4.84	-4.39	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-7	09/13/93	10.08	4.84	-5.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/14/93	10.25	4.84	-5.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/11/93	10.27	4.42	-5.85	ND	66	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-7	12/14/93	8.52	4.42	-4.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	01/10/94	9.30	4.42	-4.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	02/10/94	7.93	4.42	-3.51	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-7	03/14/94	6.78	4.42	-2.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	04/23/94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	05/05/94	7.13	4.42	-2.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	06/07/94	7.09	4.42	-2.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	07/05/94	7.49	4.42	-3.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	08/02/94	7.98	4.42	-3.56	ND	ND	--	ND	ND	ND	0.63	--	--	--	--	--	--	--	--	--
MW-7	11/07/94	7.86	4.42	-3.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	12/03/94	5.95	4.42	-1.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	01/10/95	5.50	4.42	-1.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	02/01/95	5.43	4.42	-1.01	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-7	03/03/95	5.97	4.42	-1.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	05/02/95	5.73	4.42	-1.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	08/01/95	7.62	4.42	-3.20	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-7	11/01/95	8.58	4.42	-4.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	02/01/96	5.77	4.42	-1.35	ND	96	--	ND	ND	ND	ND	1.4	--	--	--	--	--	--	--	--
MW-7	02/04/97	7.64	4.42	-3.22	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	02/05/98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	02/04/99	5.54	4.42	-1.12	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	02/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	02/02/00	5.75	4.42	-1.33	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	03/05/01	5.66	4.42	-1.24	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-7	08/10/01	6.28	4.42	-1.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2
GROUNDWATER ANALYSIS AND GAUGING RESULTS
76 Station 3135
Oakland, California

Well No.	Monitoring Date	Depth to Water (ft btoc)	Surface Elevation (ft MSL)	Ground-water Elevation (ft MSL)	TPH-G (µg/l)	TPH-D (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	1,2-DCA (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)	
MW-7	02/22/02	4.98	4.45	-0.53	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	--	--	--	--	--	--	--	--
MW-7	03/10/03	5.39	4.45	-0.94	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	--	--	--	--	--	--	--	--
MW-7	02/05/04	5.10	4.45	-0.65	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	--	--	--	--	--	--	--	ND<500
MW-7	08/26/04	6.98	4.45	-2.53	--	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.	--	ND<0.5	--	--	--	--	--	--	--	ND<1000
MW-7	02/14/05	6.19	4.45	-1.74	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	--	--	--	--	--	--	--	ND<50
MW-7	09/27/05	7.45	4.45	-3.00	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	--	--	--	--	--	--	--	ND<250
MW-8	11/03/92	--	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
MW-8	02/03/93	--	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
MW-8	03/01/93	6.64	5.12	-1.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	04/01/93	6.55	5.12	-1.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	05/17/93	8.25	5.12	-3.13	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
MW-8	06/15/93	8.67	5.12	-3.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	07/14/93	9.47	5.12	-4.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	08/13/93	10.00	5.12	-4.88	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
MW-8	09/13/93	10.40	5.12	-5.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	10/14/93	10.23	5.12	-5.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	11/11/93	10.22	4.43	-5.79	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
MW-8	12/14/93	9.00	4.43	-4.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	01/10/94	9.17	4.43	-4.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	02/10/94	7.23	4.43	-2.80	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
MW-8	03/14/94	6.94	4.43	-2.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	04/23/94	7.63	4.43	-3.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	05/05/94	7.39	4.43	-2.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	06/07/94	7.44	4.43	-3.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	07/05/94	7.86	4.43	-3.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	08/02/94	8.23	4.43	-3.80	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
MW-8	11/07/94	6.56	4.43	-2.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	12/03/94	5.60	4.43	-1.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	01/10/95	4.90	4.43	-0.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	02/01/95	5.02	4.43	-0.59	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
MW-8	03/03/95	5.81	4.43	-1.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	05/02/95	5.73	4.43	-1.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	08/01/95	7.11	4.43	-2.68	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
MW-8	11/01/95	8.98	4.43	-4.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	02/01/96	5.52	4.43	-1.09	ND	110	--	ND	ND	ND	ND	1.3	--	--	--	--	--	--	--	--	--
MW-8	02/04/97	8.07	4.43	-3.64	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-8	02/05/98	4.97	4.43	-0.54	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-8	02/04/99	6.12	4.43	-1.69	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-8	02/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	02/02/00	6.11	4.43	-1.68	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-8	03/05/01	6.05	4.43	-1.62	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-8	02/22/02	5.90	4.43	-1.47	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	--	--	--	--	--	--	--	--
MW-8	03/10/03	6.56	4.43	-2.13	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	--	--	--	--	--	--	--	--
MW-8	02/05/04	6.25	4.43	-1.82	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	--	--	--	--	--	--	--	ND<500
MW-8	08/26/04	7.33	4.43	-2.90	--	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	ND<0.5	--	--	--	--	--	--	--	ND<1000
MW-8	02/14/05	6.09	4.43	-1.66	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	--	--	--	--	--	--	--	ND<50
MW-8	09/27/05	7.47	4.43	-3.04	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	--	--	--	--	--	--	--	ND<250

TABLE 2
GROUNDWATER ANALYSIS AND GAUGING RESULTS
76 Station 3135
Oakland, California

Well No.	Monitoring Date	Depth to Water (ft btoc)	Surface Elevation (ft MSL)	Ground-water Elevation (ft MSL)	TPH-G (µg/l)	TPH-D (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	1,2-DCA (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)
MW-9	11/03/92	--	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	02/03/93	--	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	03/01/93	6.22	4.84	-1.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	04/01/93	6.17	4.84	-1.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	05/17/93	7.95	4.84	-3.11	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	06/15/93	8.34	4.84	-3.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	07/14/93	9.13	4.84	-4.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	08/13/93	9.69	4.84	-4.85	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	09/13/93	10.10	4.84	-5.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	10/14/93	10.23	4.84	-5.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	11/11/93	10.39	4.60	-5.79	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	12/14/93	9.14	4.60	-4.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	01/10/94	9.27	4.60	-4.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	02/10/94	7.20	4.60	-2.60	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	03/14/94	7.06	4.60	-2.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	04/23/94	7.79	4.60	-3.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	05/05/94	7.52	4.60	-2.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	06/07/94	7.54	4.60	-2.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	07/05/94	7.98	4.60	-3.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	08/02/94	8.34	4.60	-3.74	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	11/07/94	6.44	4.60	-1.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	12/03/94	5.68	4.60	-1.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	01/10/95	4.98	4.60	-0.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	02/01/95	5.18	4.60	-0.58	ND	65	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	03/03/95	5.90	4.60	-1.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	05/02/95	5.86	4.60	-1.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	08/01/95	7.30	4.60	-2.70	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	11/01/95	8.66	4.60	-4.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	02/01/96	5.14	4.60	-0.54	ND	76	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	02/04/97	8.12	4.60	-3.52	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	02/05/98	4.95	4.60	-0.35	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	02/04/99	5.81	4.60	-1.21	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	02/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	02/02/00	5.71	4.60	-1.11	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	03/05/01	5.67	4.60	-1.07	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-9	02/22/02	5.61	4.60	-1.01	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	--	--	--	--	--	--	--
MW-9	03/10/03	6.16	4.60	-1.56	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	--	--	--	--	--	--	--
MW-9	02/05/04	5.58	4.60	-0.98	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	--	--	--	--	--	--	ND<500
MW-9	08/26/04	7.13	4.60	-2.53	--	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	ND<0.5	--	--	--	--	--	--	ND<1000
MW-9	02/14/05	5.92	4.60	-1.32	--	--	ND<50	ND<0.50	ND<0.50	0.72	1.0	--	ND<0.50	--	--	--	--	--	--	ND<50
MW-9	09/27/05	7.43	4.60	-2.83	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	--	--	--	--	--	--	ND<250
MW-10	11/03/92	--	--	--	740	160	--	11	2.1	32	56	--	--	--	--	--	--	--	--	--
MW-10	02/03/93	--	--	--	1200	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-10	03/01/93	5.82	3.34	-2.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	04/01/93	5.69	3.34	-2.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	05/17/93	7.04	3.34	-3.70	1200	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-10	06/15/93	7.22	3.34	-3.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	07/14/93	8.01	3.34	-4.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2
GROUNDWATER ANALYSIS AND GAUGING RESULTS
76 Station 3135
Oakland, California

Well No.	Monitoring Date	Depth to Water (ft btoc)	Surface Elevation (ft MSL)	Ground-water Elevation (ft MSL)	TPH-G (µg/l)	TPH-D (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	1,2-DCA (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)
MW-10	08/13/93	8.42	3.34	-5.08	1500	97	--	ND	ND	41	21	--	--	--	--	--	--	--	--	--
MW-10	09/13/93	8.74	3.34	-5.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	10/14/93	8.57	3.34	-5.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	11/11/93	8.59	2.69	-5.90	1600	88	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-10	12/14/93	7.50	2.69	-4.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	01/10/94	7.69	2.69	-5.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	02/10/94	8.21	2.69	-5.52	1480	71	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-10	03/14/94	5.56	2.69	-2.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	04/23/94	6.22	2.69	-3.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	05/05/94	6.03	2.69	-3.34	1000	55	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-10	06/07/94	6.10	2.69	-3.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	07/05/94	6.38	2.69	-3.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	08/02/94	6.67	2.69	-3.98	95	110	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-10	11/07/94	6.08	2.69	-3.39	1100	120	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-10	12/03/94	4.68	2.69	-1.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	01/10/95	4.21	2.69	-1.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	02/01/95	4.26	2.69	-1.57	560	72	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-10	03/03/95	4.94	2.69	-2.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	05/02/95	4.80	2.69	-2.11	840	99	--	ND	ND	ND	9.5	--	--	--	--	--	--	--	--	--
MW-10	08/01/95	5.79	2.69	-3.10	ND	260	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-10	11/01/95	6.95	2.69	-4.26	ND	280	--	ND	ND	ND	ND	830	--	--	--	--	--	--	--	--
MW-10	02/01/96	4.31	2.69	-1.62	ND	320	--	ND	ND	ND	ND	1300	--	--	--	--	--	--	--	--
MW-10	02/04/97	6.59	2.69	-3.90	ND	--	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
MW-10	02/05/98	3.76	2.69	-1.07	ND	--	--	ND	ND	ND	ND	500	--	--	--	--	--	--	--	--
MW-10	02/04/99	4.68	2.69	-1.99	ND	--	--	ND	ND	ND	ND	620	850	--	--	--	--	--	--	--
MW-10	02/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	02/02/00	4.85	2.69	-2.16	ND	--	--	ND	ND	ND	ND	737	696	--	--	--	--	--	--	--
MW-10	03/05/01	4.81	2.69	-2.12	ND	--	--	ND	ND	ND	ND	121	--	--	--	--	--	--	--	--
MW-10	02/22/02	4.53	2.69	-1.84	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	870	780	ND<12	ND<12	ND<12	ND<620	ND<12	ND<12	ND<3100
MW-10	03/10/03	4.98	2.69	-2.29	--	--	370	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	320	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2500
MW-10	02/05/04	5.32	2.69	-2.63	--	--	320	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	300	--	--	--	--	--	--	ND<2500
MW-10	08/26/04	5.45	2.69	-2.76	--	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	13	--	--	--	--	--	--	ND<1000
MW-10	02/14/05	4.81	2.69	-2.12	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	--	--	--	--	--	--	ND<50
MW-10	09/27/05	5.97	2.69	-3.28	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.2	--	--	--	--	--	--	ND<250
MW-11	08/10/01	5.70	2.63	-3.07	ND<50	110	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<1000
MW-11	02/22/02	5.43	2.63	-2.80	ND<50	99	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500
MW-11	03/10/03	5.41	2.63	-2.78	--	75	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500
MW-11	02/05/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	08/26/04	5.35	2.63	-2.72	--	ND<200	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	ND<0.5	ND<1	ND<1	ND<1	ND<12	ND<1	ND<1	ND<1000
MW-11	02/14/05	5.12	2.63	-2.49	--	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<50
MW-11	09/27/05	5.18	2.63	-2.55	--	ND<200	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<0.50	ND<0.50	ND<250
P1	02/19/91	15	--	--	90	ND	--	0.8	0.6	0.5	2.4	--	--	--	--	--	--	--	--	--
P2	02/19/91	15	--	--	ND	ND	--	ND	ND	ND	0.6	--	--	--	--	--	--	--	--	--
P3	02/20/91	16	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
P4	02/20/91	17	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--

TABLE 2
GROUNDWATER ANALYSIS AND GAUGING RESULTS
 76 Station 3135
 Oakland, California

Well No.	Monitoring Date	Depth to Water (ft btoc)	Surface Elevation (ft MSL)	Ground-water Elevation (ft MSL)	TPH-G (µg/l)	TPH-D (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	1,2-DCA (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)	
P5	02/19/91	14	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
P6	02/20/91	15	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
P7	02/19/91	14	--	--	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--

NOTES:

TPH-G = total petroleum hydrocarbon as gasoline
 TPH-D = total petroleum hydrocarbon as diesel
 TPPH = total purgeable petroleum hydrocarbon
 TOG = total oil and grease
 MTBE = methyl-tert-butyl-ether

µg/L = micrograms per liter
 -- = not analyzed
 DIPE = di-isopropyl ether
 ETBE = ethyl tertiary butyl ether
 Mang = manganese

1,2-DCA = 1,2-dichloroethane
 EDB = ethylene dibromide
 TBA = tertiary butyl alcohol
 TAME = tertiary amyl methyl ether
 ft btoc = feet below top of casing

ft MSL = feet above mean sea level

TABLE 1
SUMMARY OF SOIL SAMPLE CHEMICAL ANALYSIS RESULTS
76 Service Station No. 3135
845 66th Avenue, Oakland, California

Sample Location	Date	Sample Depth (fbg)	TPH-G (mg/kg)	TPH-D (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Ethanol (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	1,2-DCA (mg/kg)	TAME (mg/kg)	EDB (mg/kg)	TOG (mg/kg)
SW1	11/29/89	9.0	1.6	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
SW2	11/29/89	9.0	3.8	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
SW3	11/29/89	9.0	5.6	--	ND	ND	0.42	2.3	--	--	--	--	--	--	--	--	--
SW4	11/29/89	9.0	32	--	1.2	ND	2.1	1.0	--	--	--	--	--	--	--	--	--
SW5	11/29/89	9.0	4.8	--	0.20	ND	ND	0.11	--	--	--	--	--	--	--	--	--
SW6	11/29/89	8.0	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
D1	12/05/89	3.5	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
D2	12/05/89	3.5	1.5	--	0.08	ND	ND	ND	--	--	--	--	--	--	--	--	--
D3	12/05/89	3.5	6.6	--	0.14	ND	ND	0.31	--	--	--	--	--	--	--	--	--
D4	12/05/89	3.5	7.4	--	0.11	ND	ND	0.1	--	--	--	--	--	--	--	--	--
D5	12/05/89	3.5	1.9	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
D6	12/05/89	3.5	2.0	--	ND	0.17	ND	0.25	--	--	--	--	--	--	--	--	--
P1	11/29/89	6.0	15	--	0.086	ND	0.18	8.5	--	--	--	--	--	--	--	--	--
P2	12/29/89	5.5	3,800	--	6.1	290	140	750	--	--	--	--	--	--	--	--	--
P2	01/09/90	12.0	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
P3	12/29/89	5.0	11	--	0.13	ND	0.18	1.3	--	--	--	--	--	--	--	--	--
P4	12/29/89	4.5	1.4	--	ND	ND	ND	0.23	--	--	--	--	--	--	--	--	--
P5	12/29/89	4.5	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
P6	01/10/90	3.0	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
P7	01/10/90	4.0	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
SWP2E	01/09/90	11.0	20	--	ND	0.16	3.1	0.50	--	--	--	--	--	--	--	--	--
SWP2W	01/09/90	11.0	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
WO1	11/29/89	8.5	1.6	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
SWA	11/29/89	9.5	2.1	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
SWB	11/29/89	9.5	3.9	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
EB1	04/26/90	7.0	2,400	--	5.0	16	62	230	--	--	--	--	--	--	--	--	--
EB2	04/26/90	9.0	12,000	1,400	84	12	360	860	--	--	--	--	--	--	--	--	7,000
SW1	03/19/91	10.5	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND
SW2	03/19/91	11.0	1,000	--	14	65	19	98	--	--	--	--	--	--	--	--	58
SW2 (12)	03/22/91	11.0	2,400	--	38	180	54	280	--	--	--	--	--	--	--	--	ND
SW2 (30)	04/11/91	11.0	340	--	1.6	1.2	9.9	21	--	--	--	--	--	--	--	--	--
SW3	03/21/91	10.5	310	--	3.3	4.8	6.5	26	--	--	--	--	--	--	--	--	ND
SW3 (2)	04/05/91	10.5	5.3	--	ND	ND	0.13	0.14	--	--	--	--	--	--	--	--	ND
SW4	03/21/91	10.5	1,400	--	14	41	30	110	--	--	--	--	--	--	--	--	160
SW4 (6)	04/05/91	10.5	53	--	0.023	1.4	0.85	4.1	--	--	--	--	--	--	--	--	ND
SW5	03/22/91	10.5	2,200	--	28	140	52	260	--	--	--	--	--	--	--	--	85
SW5 (7)	04/03/91	10.5	29	--	0.44	0.052	0.89	2.8	--	--	--	--	--	--	--	--	ND
SW6	03/22/91	10.5	260	--	3.6	7.5	7.2	29	--	--	--	--	--	--	--	--	ND
SW6 (5)	04/11/91	10.5	44	--	0.34	0.32	1.1	2.5	--	--	--	--	--	--	--	--	--
SW7	04/04/91	11.0	2.5	--	0.41	0.0070	0.15	0.018	--	--	--	--	--	--	--	--	ND
SW8	04/11/91	11.0	310	--	1.9	2.9	2.8	8.1	--	--	--	--	--	--	--	--	ND
SW9	04/11/91	11.0	ND	--	0.17	ND	0.0062	0.0052	--	--	--	--	--	--	--	--	ND
SW10	04/05/91	11.0	1,400	--	18	130	36	200	--	--	--	--	--	--	--	--	60
MW-1	04/26/90	5.0	ND	--	0.012	0.16	ND	ND	--	--	--	--	--	--	--	--	--
MW-1	04/26/90	10.0	ND	--	0.0094	0.024	ND	ND	--	--	--	--	--	--	--	--	--
MW-1	04/26/90	14.0	ND	--	0.0075	0.031	ND	ND	--	--	--	--	--	--	--	--	--

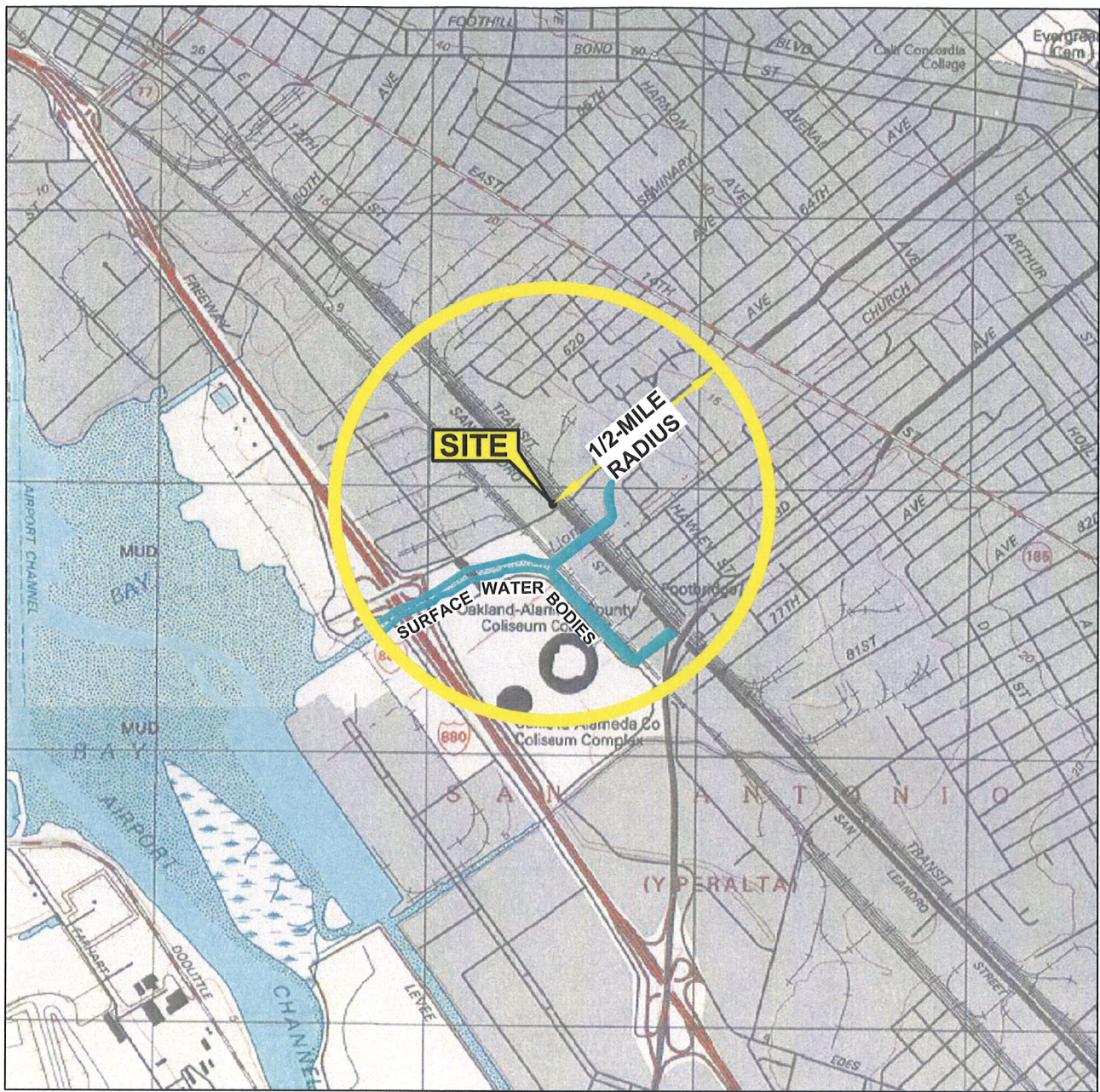
TABLE 1
SUMMARY OF SOIL SAMPLE CHEMICAL ANALYSIS RESULTS
76 Service Station No. 3135
845 66th Avenue, Oakland, California

Sample Location	Date	Sample Depth (fbg)	TPH-G (mg/kg)	TPH-D (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Ethanol (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	1,2-DCA (mg/kg)	TAME (mg/kg)	EDB (mg/kg)	TOG (mg/kg)
MW-2	04/27/90	5.0	2.4	--	0.075	0.0071	ND	ND	--	--	--	--	--	--	--	--	--
MW-2	04/27/90	10.0	2.2	--	ND	0.017	0.0088	0.018	--	--	--	--	--	--	--	--	--
MW-2	04/27/90	12.0	6.8	--	ND	0.028	0.10	0.015	--	--	--	--	--	--	--	--	--
MW-3	04/26/90	5.0	ND	--	0.0094	0.048	ND	ND	--	--	--	--	--	--	--	--	--
MW-3	04/26/90	10.0	ND	--	0.0088	0.015	ND	ND	--	--	--	--	--	--	--	--	--
MW-4	08/14/90	14.5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5	08/14/90	13.0	ND	ND	ND	0.010	ND	ND	--	--	--	--	--	--	--	--	--
MW-6	08/14/90	5.0	ND	ND	ND	0.042	ND	ND	--	--	--	--	--	--	--	--	ND
MW-6	08/14/90	10.0	18	5.1	0.26	0.22	0.34	1.2	--	--	--	--	--	--	--	--	ND
MW-6	08/14/90	12.5	160	93	3.4	12	20	3.6	--	--	--	--	--	--	--	--	200
MW-6	08/14/90	15.5	2.5	ND	0.43	0.41	0.50	0.12	--	--	--	--	--	--	--	--	ND
MW-7	04/28/93	5.0	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-8	09/29/92	5.0	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-8	09/29/92	10.0	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-8	09/29/92	13.0	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	09/28/92	5.5	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	09/28/92	10.0	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-9	09/28/92	13.0	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-10	09/28/92	5.0	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-10	09/28/92	10.5	210	39	0.58	0.38	4.4	10	--	--	--	--	--	--	--	--	--
MW-10	09/28/92	13.0	ND	ND	ND	ND	0.0090	0.0063	--	--	--	--	--	--	--	--	--
MW-11	07/25/01	5.0	ND	79	0.012	0.021	ND	0.015	ND	--	--	--	--	--	--	--	--

Notes:

TPH-G = total petroleum hydrocarbons as gasoline
 TPH-D = total petroleum hydrocarbons as diesel
 mg/kg = milligrams per kilogram
 ND = not detected at or above laboratory detection limits
 -- = not analyzed
 TBA = tert-Butyl alcohol
 fbg = feet below grade

MTBE = methyl tert butyl ether
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tert-butyl ether
 1,2-DCA = 1,2-Dichloroethane
 TAME = tert-amyl methyl ether
 EDB = Ethylene Dibromide
 TOG = Total oil and grease



1 MILE 3/4 1/2 1/4 0 1 MILE



SCALE 1 : 24,000



SOURCE:

United States Geological Survey
7.5 Minute Topographic Maps:
Oakland East and San Leandro
Quadrangles
California



QUADRANGLE
LOCATIONS

**SENSITIVE RECEPTORS WITHIN
ONE-HALF MILE RADIUS OF SITE**

76 Service Station #3135
845 66th Avenue
Oakland, California

TRC

FIGURE 1



76 Broadway
Sacramento, California 95818

February 27, 2006

Mr. Don Hwang
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Re: **Transmittal**
Site Conceptual Model Addendum
76 Service Station #3135
845 66th Avenue
Oakland, CA

Dear Mr. Hwang:

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

If you have any questions or need additional information, please contact

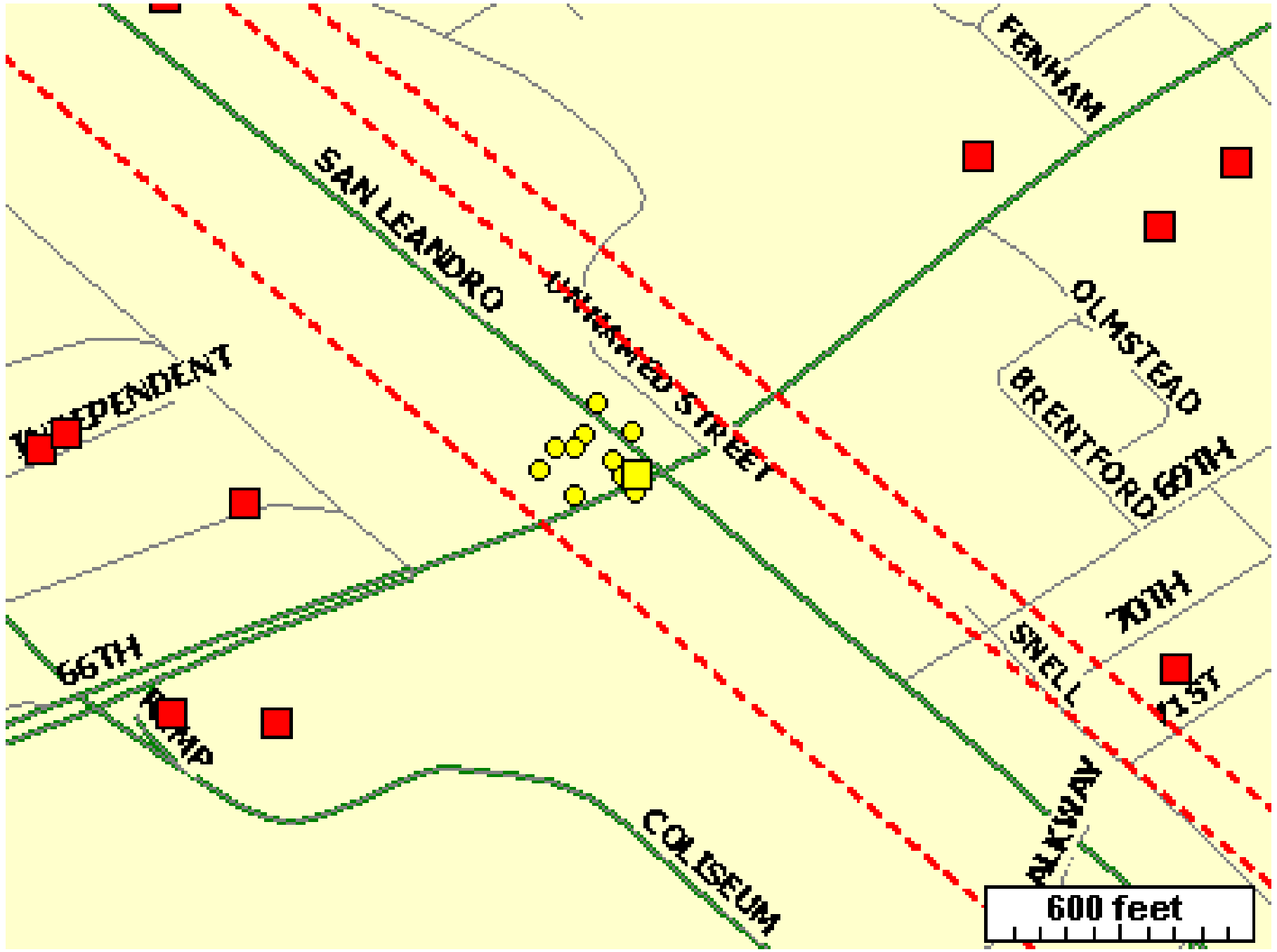
Shelby S. Lathrop (Contractor)
ConocoPhillips
Risk Management & Remediation
76 Broadway
Sacramento, CA 95818
Phone: 916-558-7609
Fax: 916-558-7639

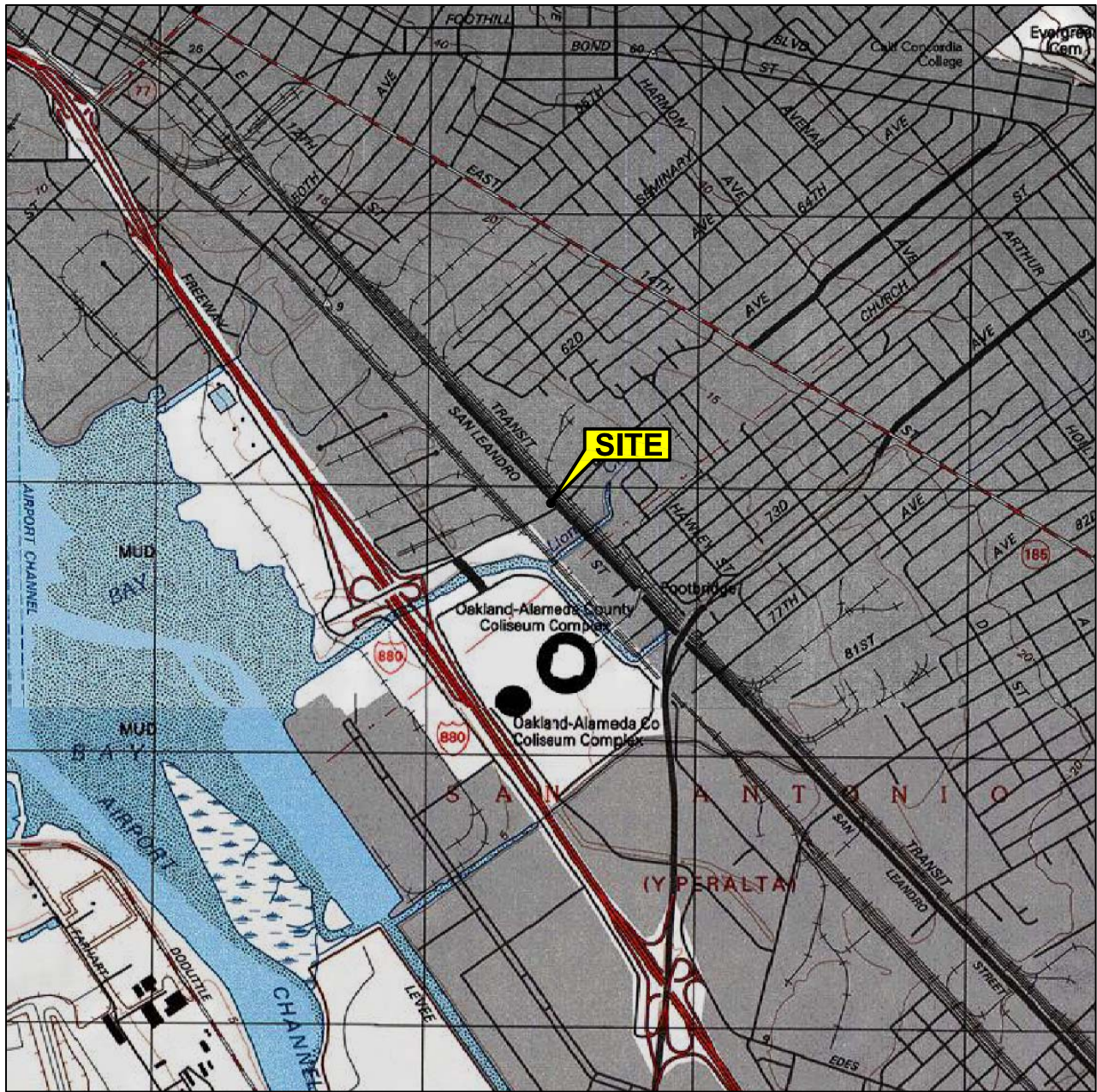
Sincerely,

A handwritten signature in black ink that reads "Thomas H. Kosel".

Thomas Kosel
Risk Management & Remediation

Attachment





1 MILE 3/4 1/2 1/4 0 1 MILE



SCALE 1 : 24,000



SOURCE:

United States Geological Survey
 7.5 Minute Topographic Maps:
 Oakland East and San Leandro
 Quadrangles
 California

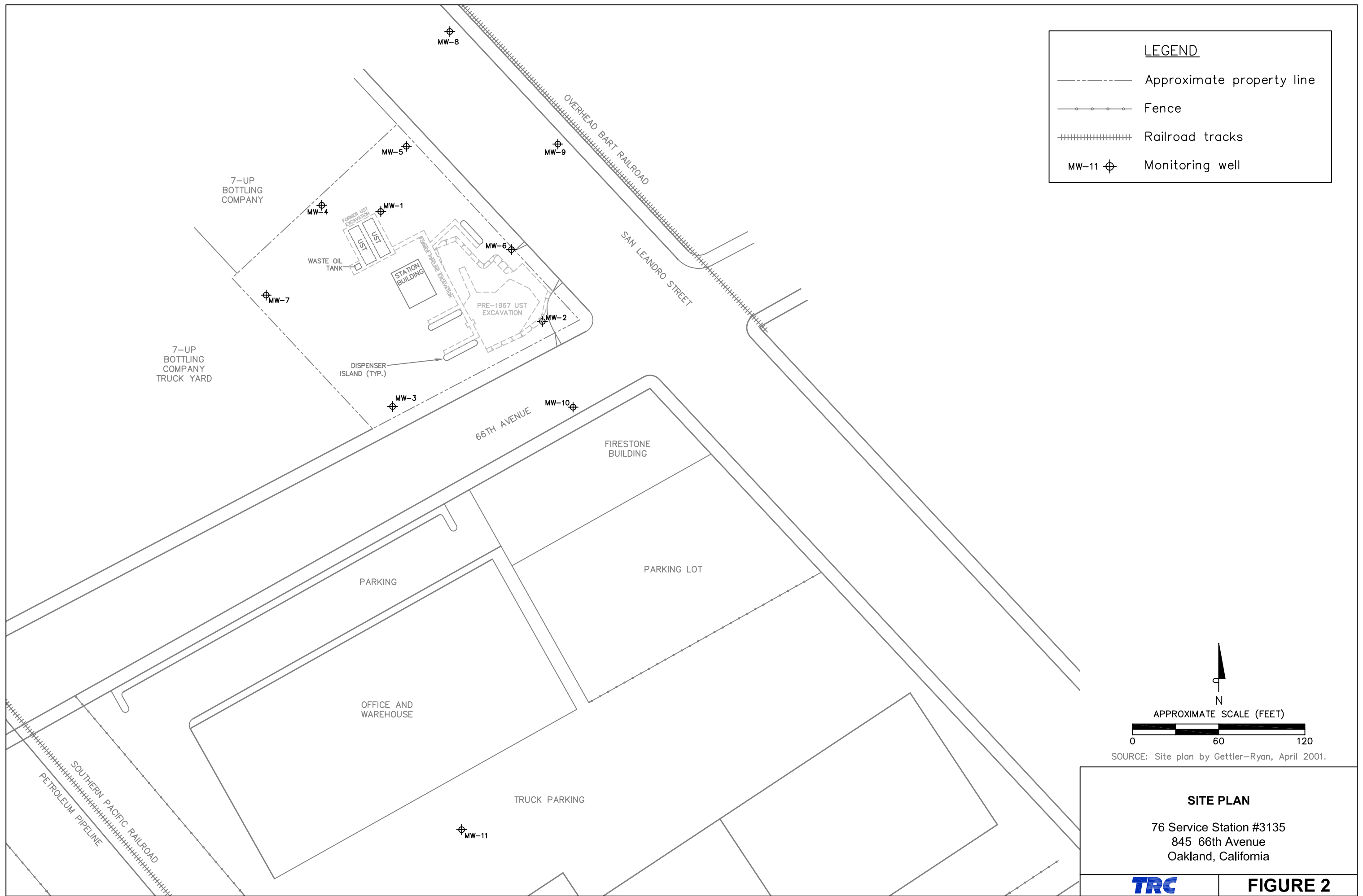


VICINITY MAP

76 Service Station #3135
 845 66th Avenue
 Oakland, California



FIGURE 1



LEGEND

- Approximate property line
- Fence
- ||||| Railroad tracks
- MW-11 ⊕ Monitoring well

N
↑

APPROXIMATE SCALE (FEET)

0 60 120

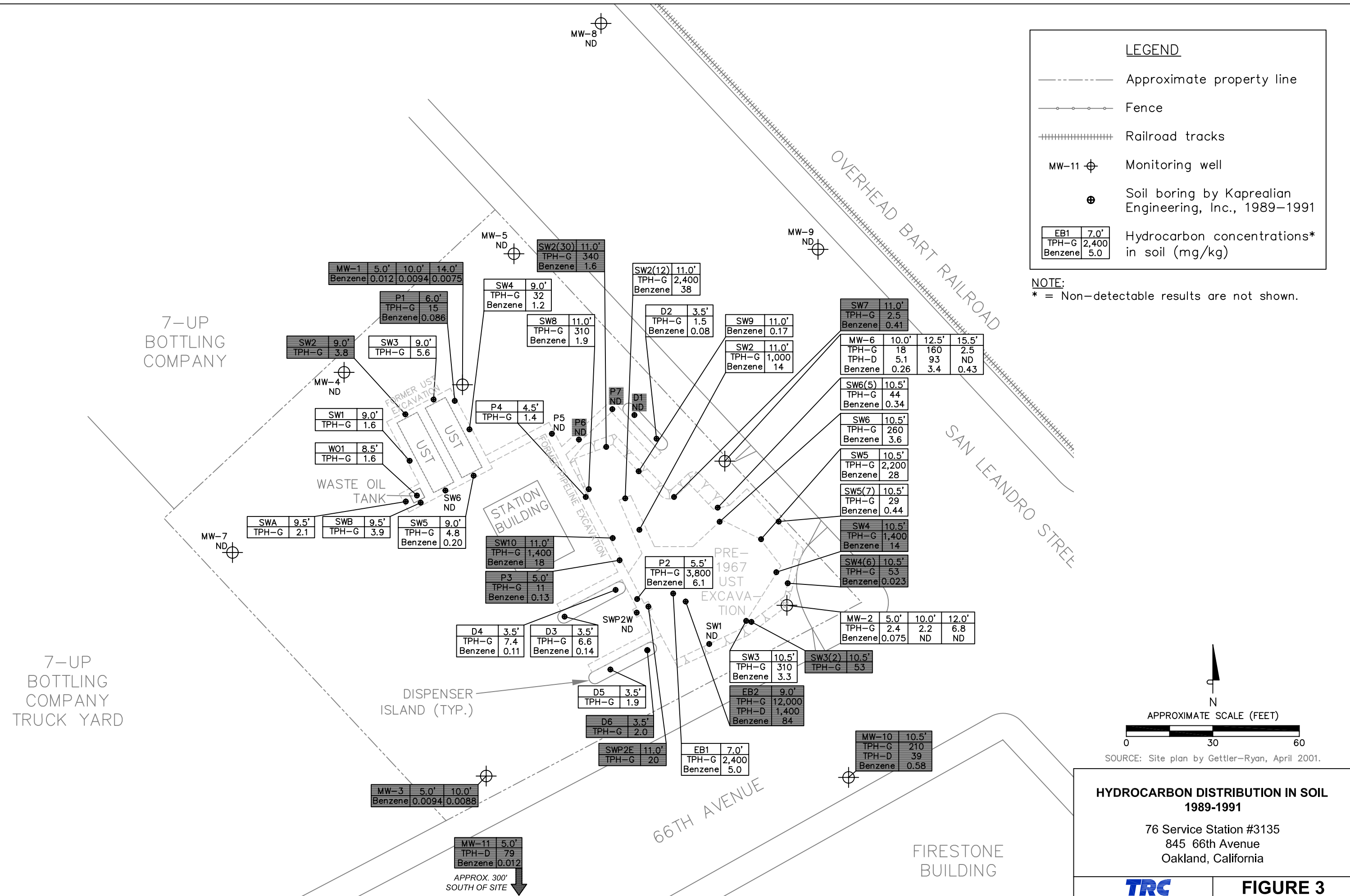
SOURCE: Site plan by Gettler-Ryan, April 2001.

SITE PLAN

76 Service Station #3135
845 66th Avenue
Oakland, California



FIGURE 2

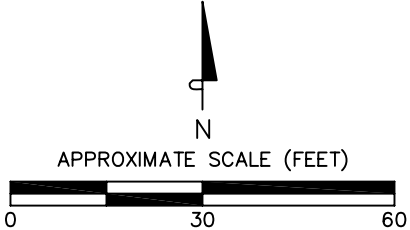


LEGEND

- Approximate property line
- Fence
- +++++ Railroad tracks
- MW-11 ⊕ Monitoring well
- ⊕ Soil boring by Kapredian Engineering, Inc., 1989-1991

EB1	7.0'	Hydrocarbon concentrations* in soil (mg/kg)
TPH-G	2,400	
Benzene	5.0	

NOTE:
* = Non-detectable results are not shown.



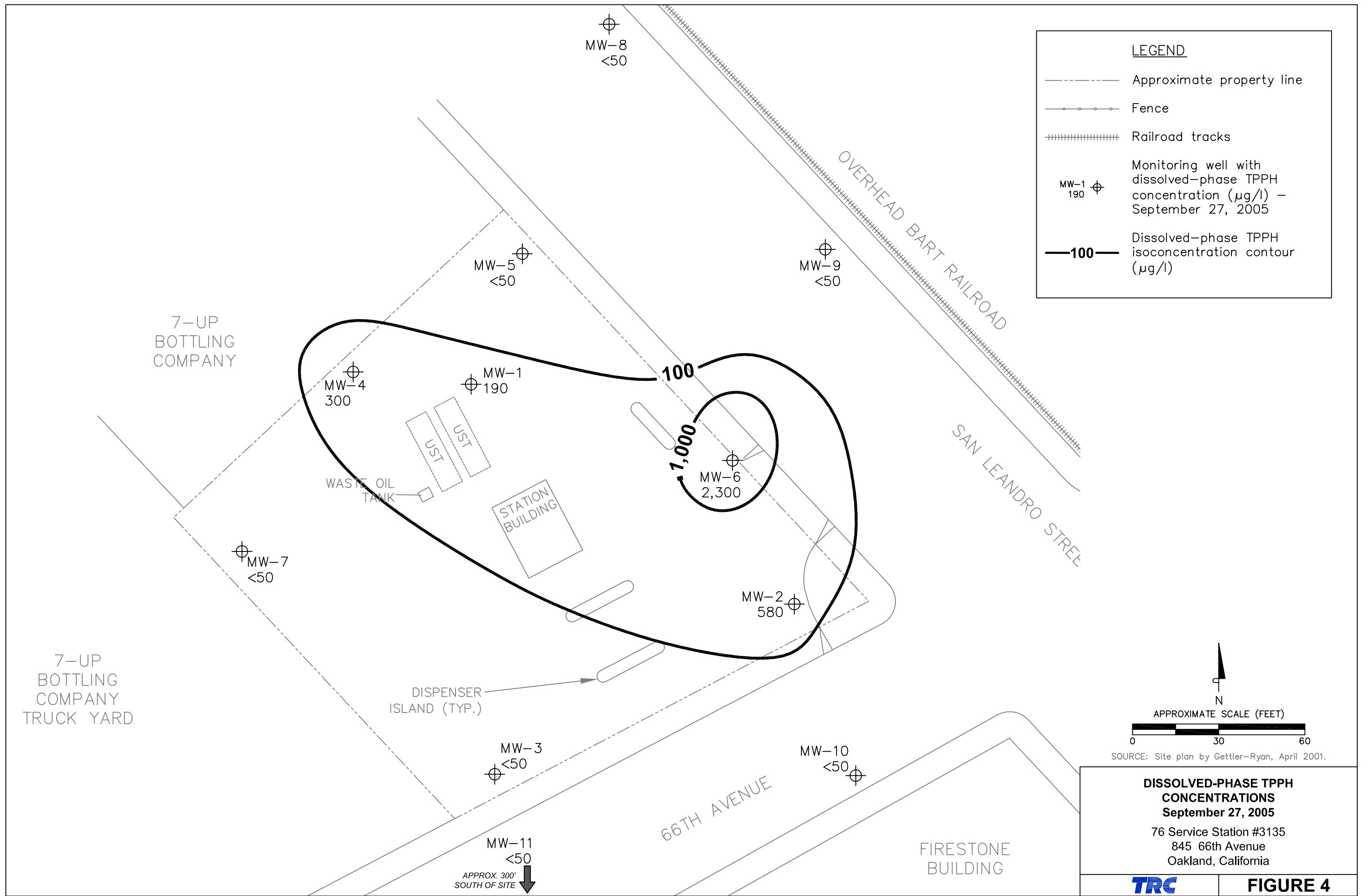
SOURCE: Site plan by Gettler-Ryan, April 2001.

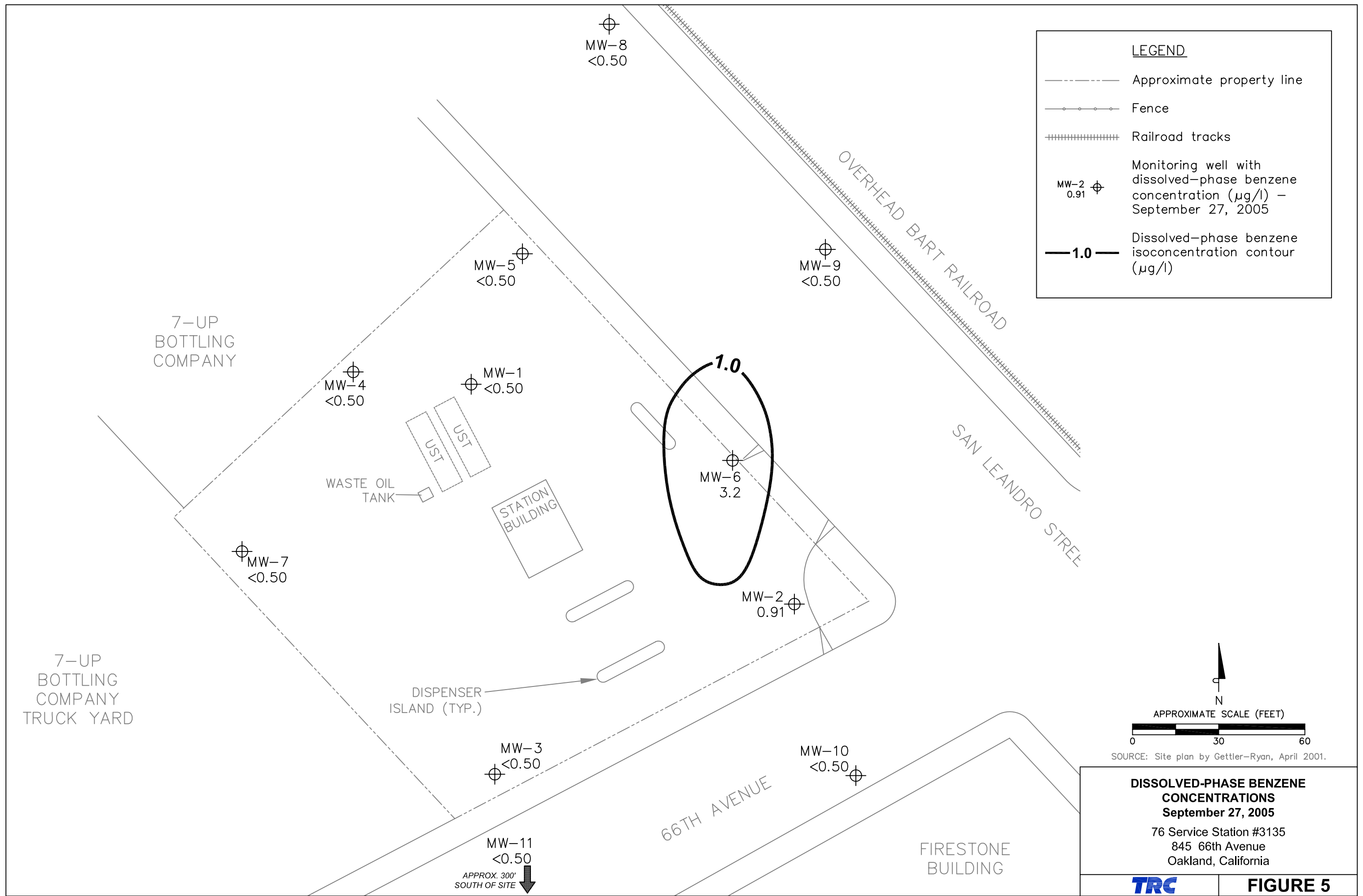
**HYDROCARBON DISTRIBUTION IN SOIL
1989-1991**

76 Service Station #3135
845 66th Avenue
Oakland, California



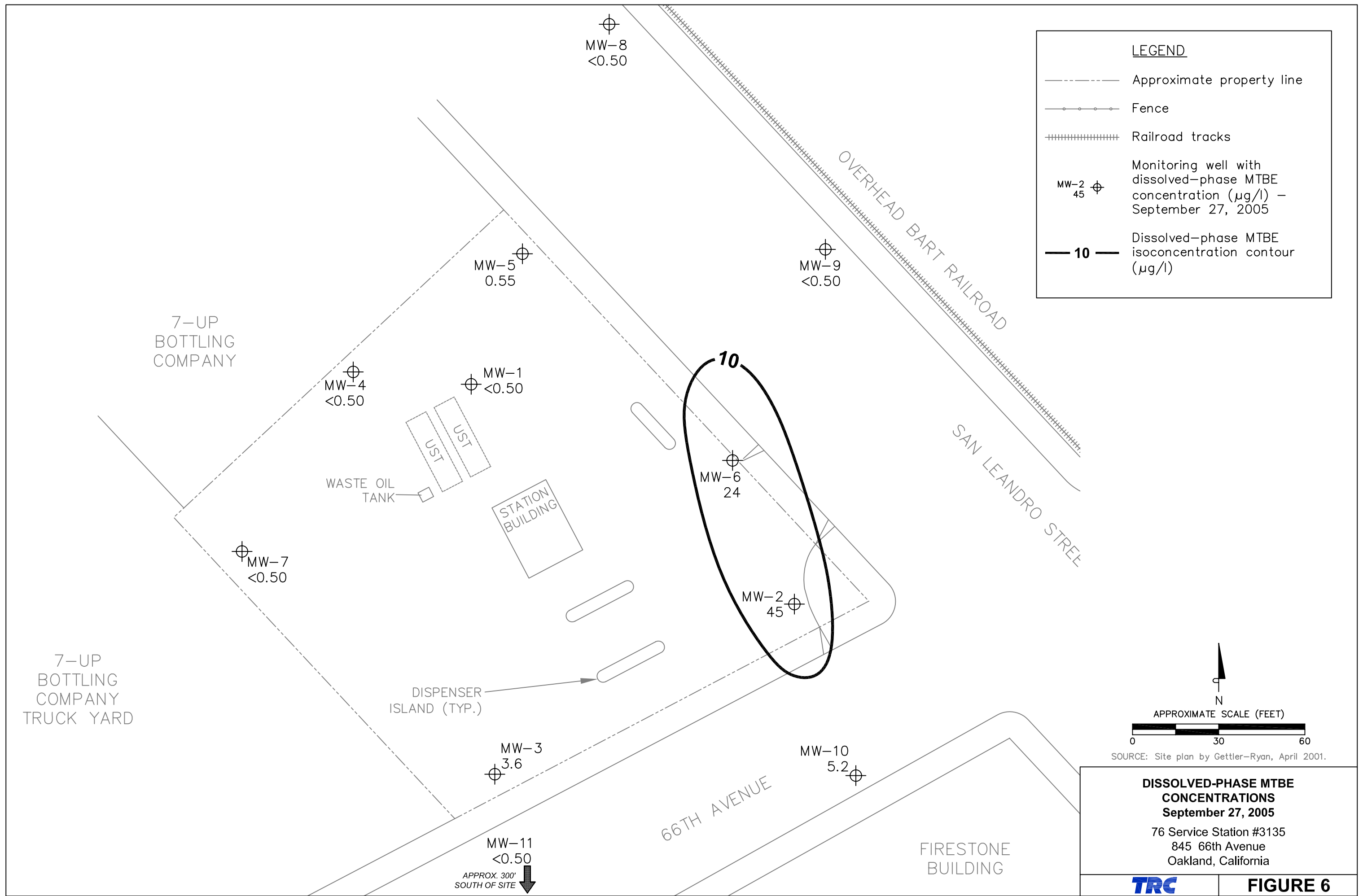
FIGURE 3





DISSOLVED-PHASE BENZENE CONCENTRATIONS
September 27, 2005
 76 Service Station #3135
 845 66th Avenue
 Oakland, California

TRC **FIGURE 5**



MW-8
<0.50

MW-5
0.55

MW-9
<0.50

7-UP
BOTTLING
COMPANY

MW-4
<0.50

MW-1
<0.50

WASTE OIL
TANK

STATION
BUILDING

10

MW-6
24

SAN LEANDRO STREET

MW-7
<0.50

MW-2
45

7-UP
BOTTLING
COMPANY
TRUCK YARD

DISPENSER
ISLAND (TYP.)

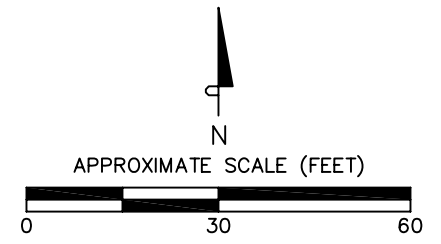
MW-3
3.6

MW-10
5.2

66TH AVENUE

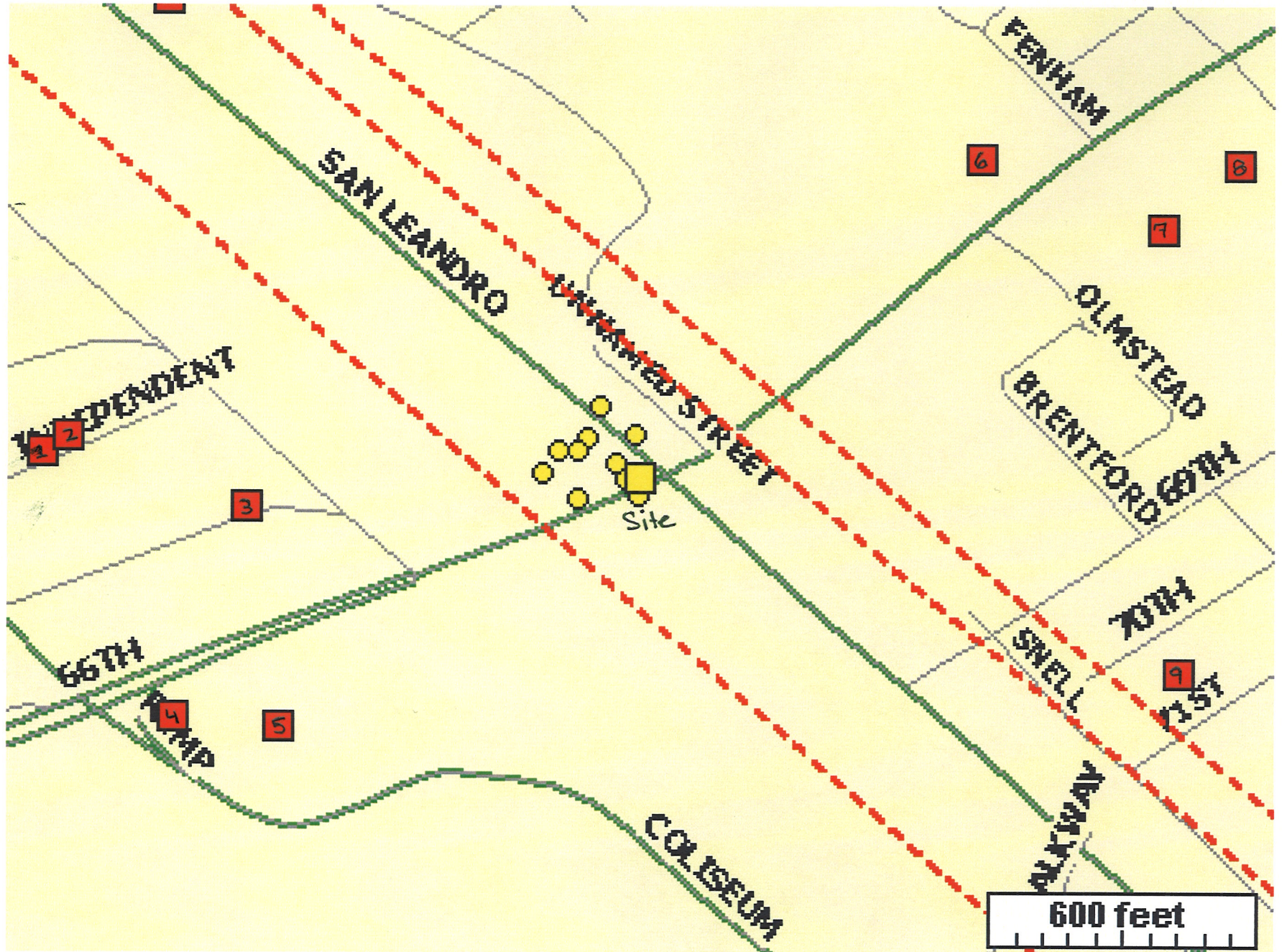
FIRESTONE
BUILDING

MW-11
<0.50
APPROX. 300'
SOUTH OF SITE



SOURCE: Site plan by Gettler-Ryan, April 2001.

Figure 7
Nearby Release Sites



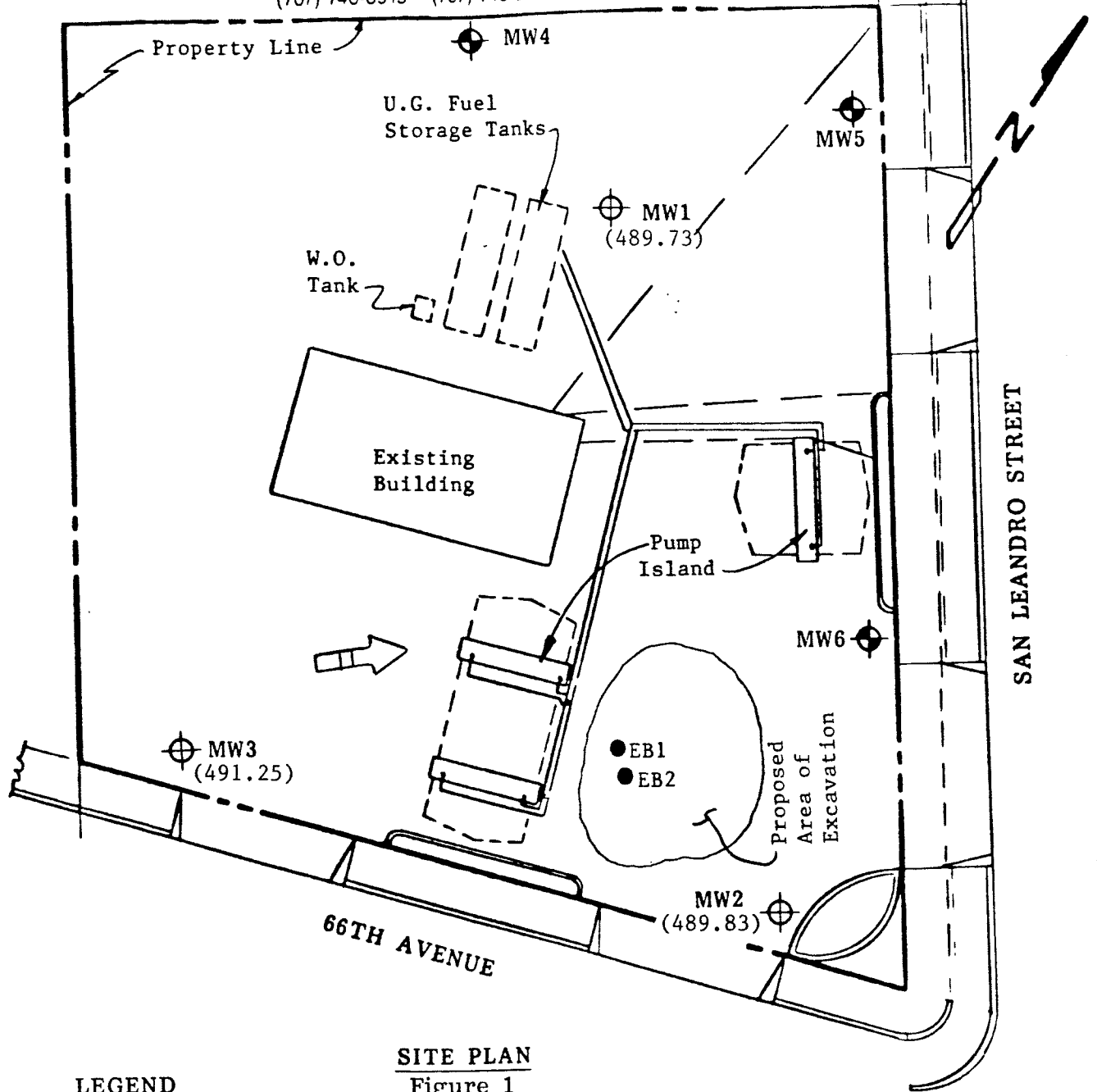


KAPREALIAN ENGINEERING, INC.

Consulting Engineers





PO BOX 996 • BENICIA, CA 94510

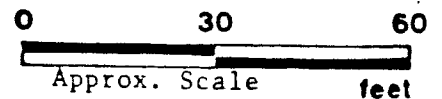
(707) 746-6915 • (707) 746-6916 • FAX (707) 746-5581



SITE PLAN
Figure 1

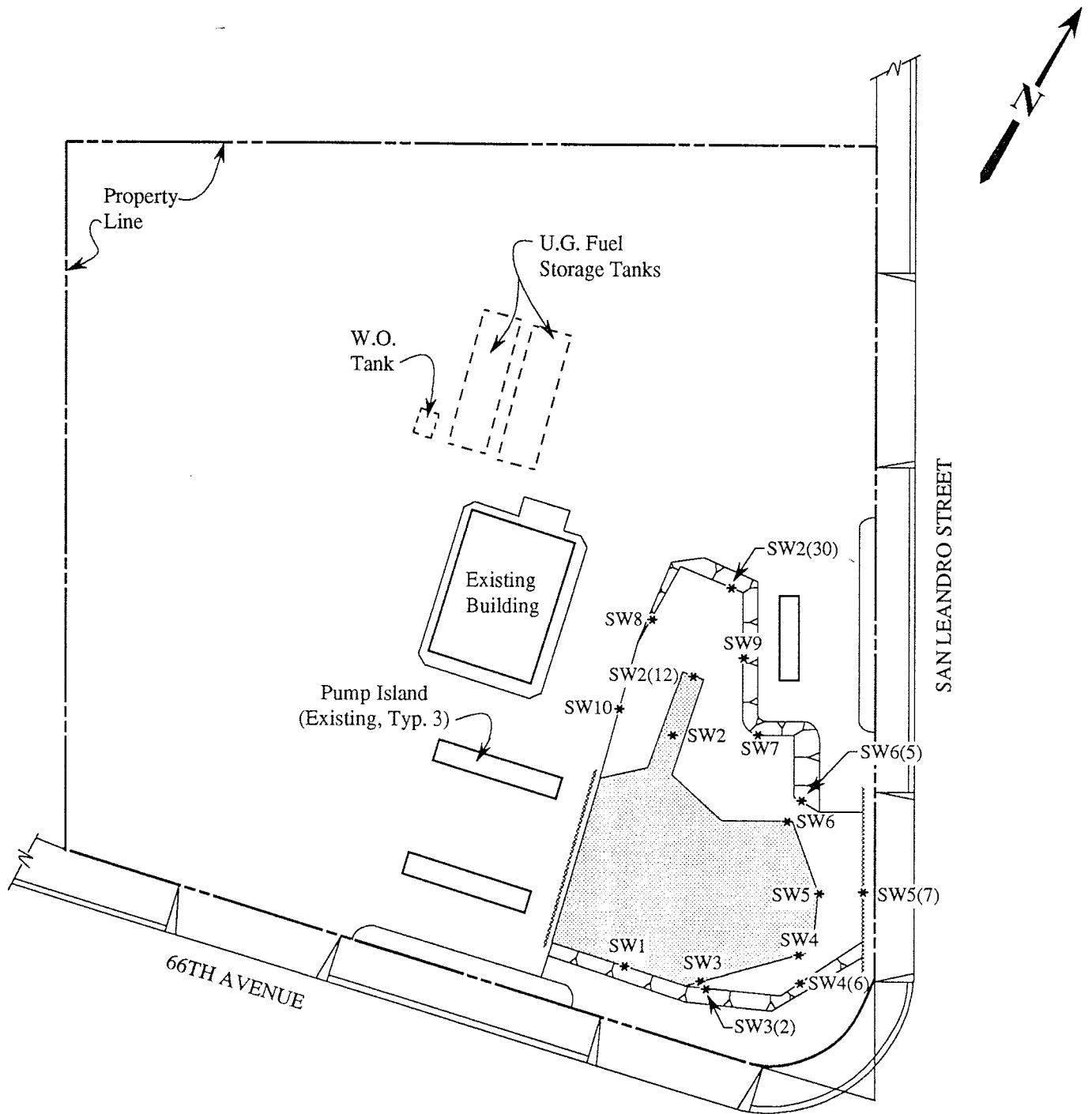
LEGEND

-  Monitoring Well (Proposed)
-  Monitoring Well (Existing)
-  Exploratory Boring
- () Ground Water Elevation in feet
-  Ground Water Flow Direction



NOTE: Elevations are based on an assumed benchmark of 500.00 feet by Kier & Wright Surveyors.

Unocal Service Station #3135
845 - 66th Avenue
Oakland, California

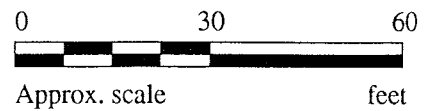


LEGEND

* Sample Point Location

Intermediate excavation boundary

Shoring

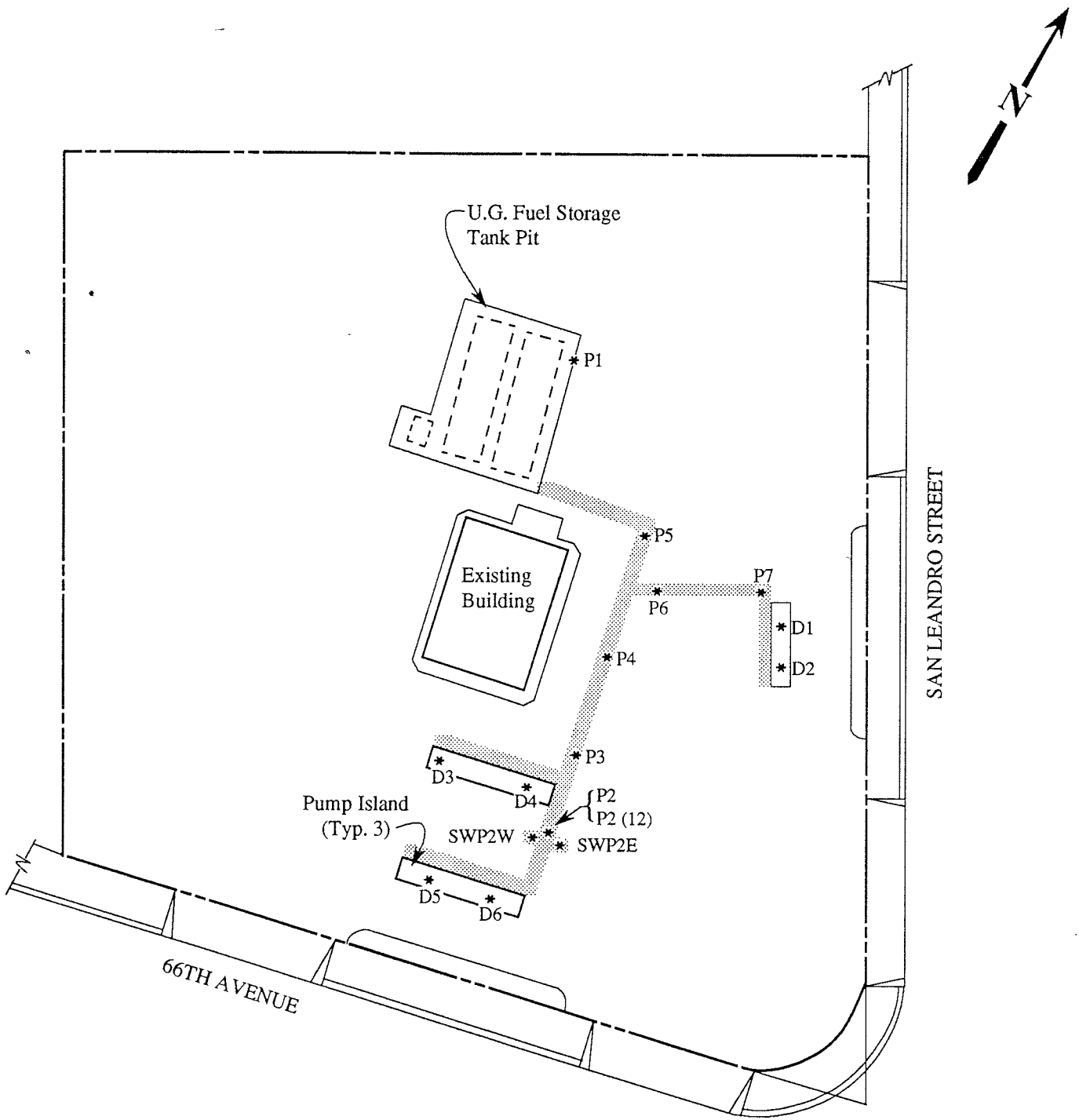


SAMPLE POINT LOCATIONS MAP



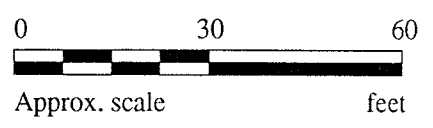
**UNOCAL SERVICE STATION #3135
845 - 66TH AVENUE
OAKLAND, CA**

**FIGURE
5**



LEGEND

* Sample point location

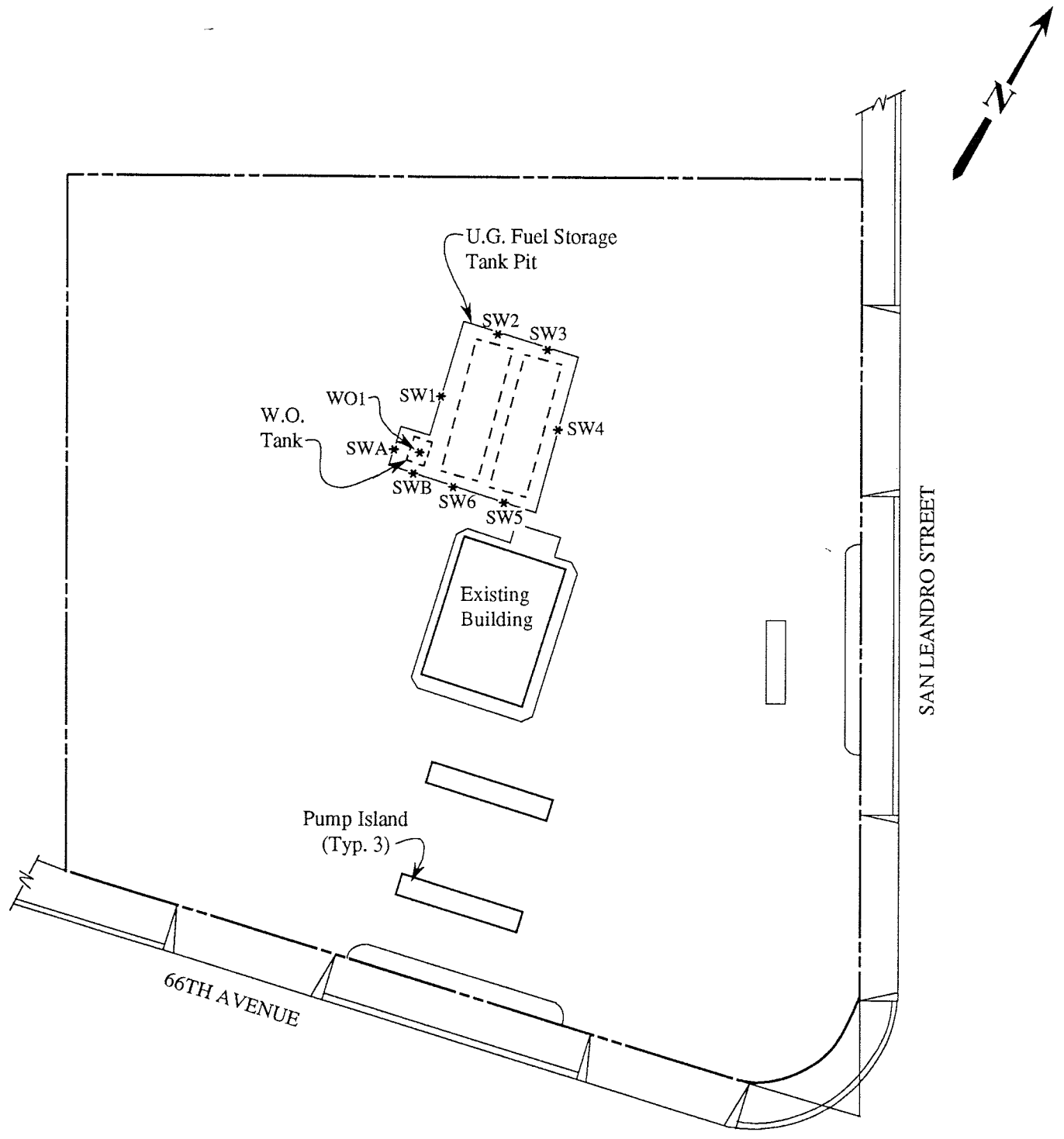


SAMPLE POINT LOCATIONS MAP



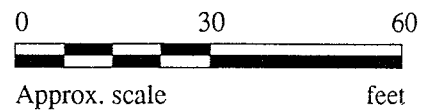
**UNOCAL SERVICE STATION #3135
845 - 66TH AVENUE
OAKLAND, CA**

**FIGURE
6**

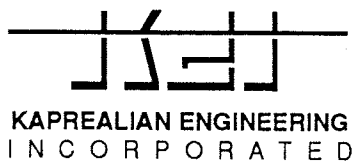


LEGEND

* Sample point location

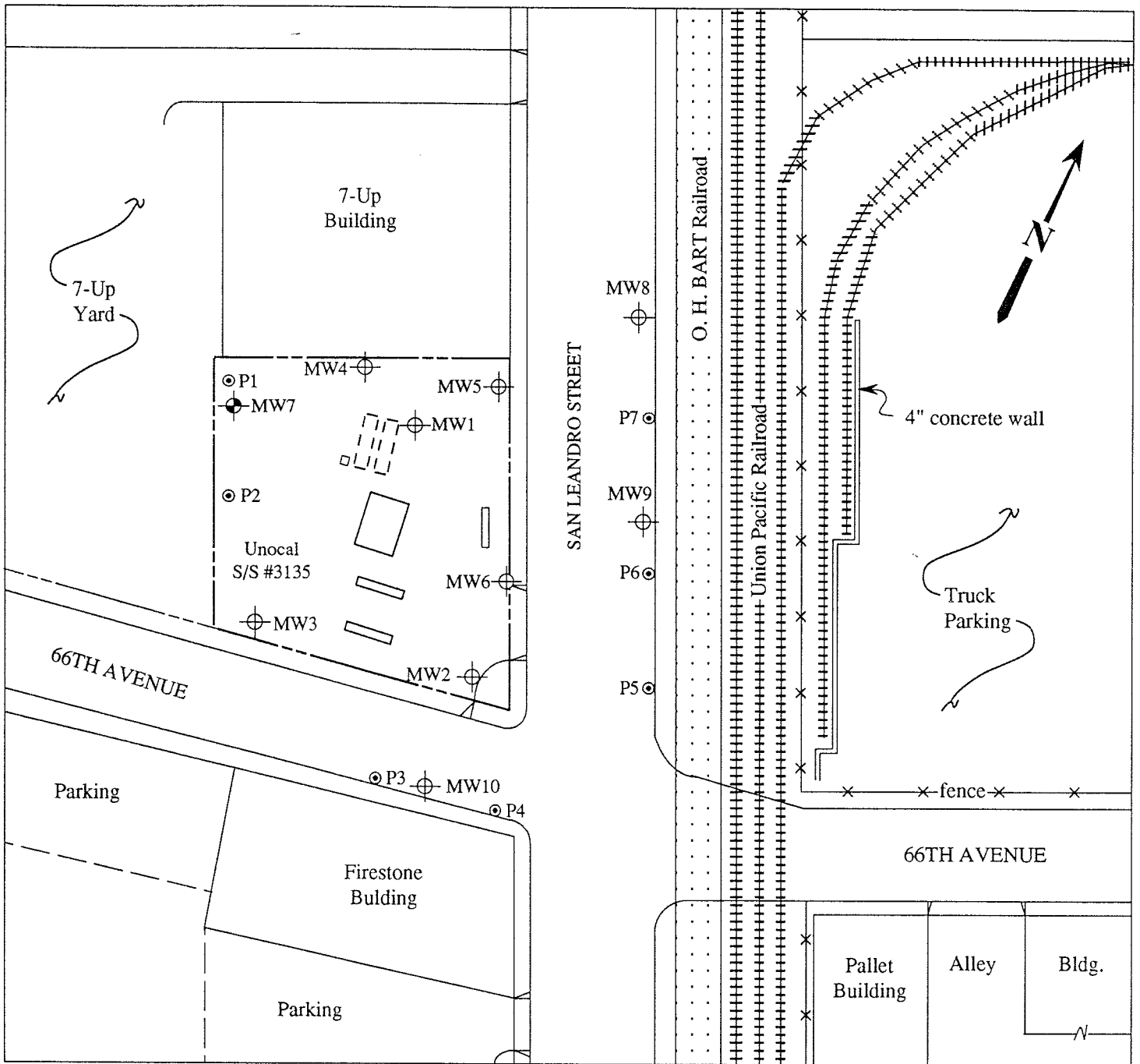


SAMPLE POINT LOCATIONS MAP



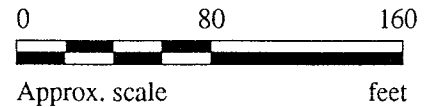
UNOCAL SERVICE STATION #3135
845 - 66TH AVENUE
OAKLAND, CA

FIGURE
7



LEGEND

- ⊕ Monitoring well (existing)
- ⊕ Monitoring well (proposed)
- ⊙ Ground water sample point location



MONITORING WELLS AND SAMPLE POINTS LOCATION MAP



**UNOCAL SERVICE STATION #3135
845 - 66TH AVENUE
OAKLAND, CA**

**FIGURE
9**

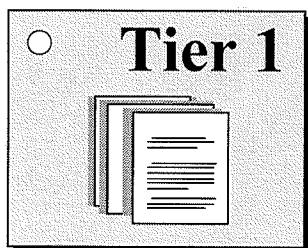
Main Screen

RBCA Tool Kit for Chemical Releases
Version 1.3b © 2000

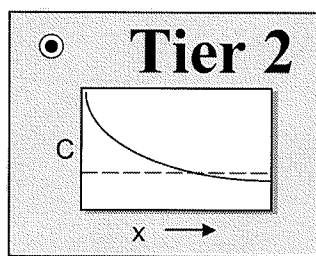
1. Project Information

Site Name:	76 Station No. 3135		
Location:	6535 San Leandro Street, Oakland, Ca.		
Compl. By:	Steve Kemnitz		
Date:	23-Nov-05	Job ID:	42013810

2. Which Type of RBCA Analysis? ?



Generic Values
On-Site
Exposure



Site-Specific Values
On- or Off-Site Exposure

3. Calculation Options ?

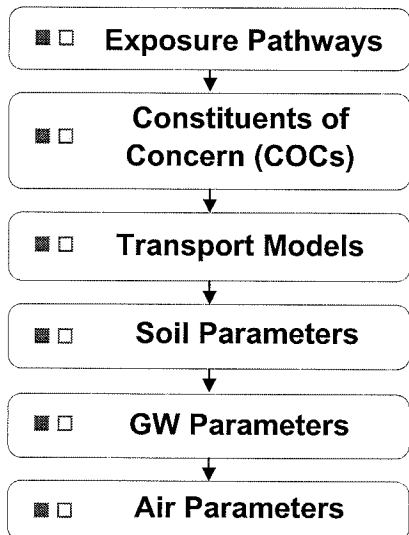
Affects which input data are required

- Baseline Risks (Forward mode)**
- RBCA Cleanup Standards (Backward mode)**

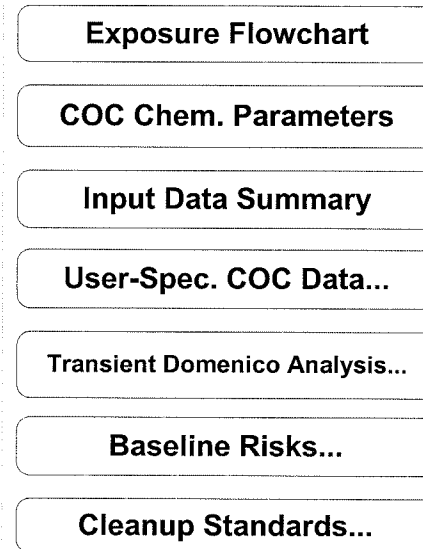
4. RBCA Evaluation Process

Prepare Input Data

Data Complete? (= yes, = no)



Review Output

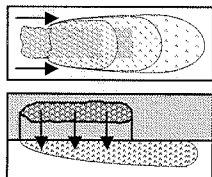


5. Commands and Options

New Site	Load Data...	Save Data As...	Quit
Print Sheet	Set Units	Custom Chem. Data...	Help

Exposure Pathway Identification

1. Groundwater Exposure ?



Groundwater Ingestion/ Surface Water Impact

Receptor: Com. Res. S.W.
 Type: On-site Off-site1 Off-site2

Source Media:

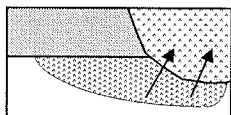
Affected Groundwater

Affected Soils Leaching to Groundwater

Distance to GW receptors

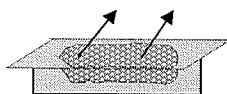
0	239.993	820.21	(ft)
On-site	Off-site1	Off-site2	
0	239.993	820.21	(ft)

GW Discharge to Surface Water Exposure



- Swimming
 Fish Consumption
 Aquatic Life Protection

2. Surface Soil Exposure ?



Direct Ingestion and Dermal Contact

Receptor: Com.
 Type: On-site

Construction Worker

Site Name: 76 Station No. 3135

Location: 6535 San Leandro Street, Oakland, Ca.

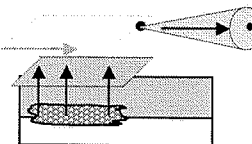
Compl. By: Steve Kernitz

Job ID: 42013810

Date: 23-Nov-05

3. Air Exposure ?

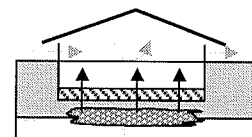
Volatilization and Particulates to Outdoor Air Inhalation



Receptor: Com. Res. Res.
 Type: On-site Off-site1 Off-site2
 0 239.993 239.993 (ft)

Construction worker

- Affected Soils--Volatilization to Ambient Outdoor Air
 Affected Groundwater--Volatilization to Ambient Outdoor Air
 Affected Surface Soils--Particulates to Ambient Outdoor Air



Volatilization to Indoor Air Inhalation

Receptor: Com.
 Type: On-site

- Affected Soils--Volatilization to Enclosed Space
 Affected Groundwater--Volatilization to Enclosed Space

4. Commands and Options

Exposure Factors & Target Risks

Exposure Flowchart

Commands and Options			Site Name: 76 Station No. 3135	Job ID: 42013810
<input type="button" value="Return"/>	<input type="button" value="Print Sheet"/>	<input type="button" value="Help"/>	Location: 6535 San Leandro Street, Oakland, CA	Date: 23-Nov-05
			Compl. By: Steve Kemnitz	

Soil Source Zone Concentration Calculator

Constituent	Detection Limit (mg/kg)	No. of Samples	No. of Detects	Estimated Distribution of Data	UCL Percentile		
					Max. Conc. (mg/kg)	Mean Conc. (mg/kg)	UCL on Mean (mg/kg)
Benzene	#N/A	50	50	Lognormal	6.1E+0	1.0E-2	1.8E-2
Toluene	#N/A	50	50	Lognormal	2.9E+2	9.8E-3	1.7E-2
Ethylbenzene	#N/A	50	50	Lognormal	1.4E+2	1.0E-2	1.9E-2
Xylene (mixed isomers)	#N/A	50	50	Lognormal	7.5E+2	1.9E-2	3.9E-2
Methyl t-Butyl ether	#N/A	50	50	Normal	2.5E-2	2.5E-2	2.5E-2
TPH - Aliph >C05-C06	#N/A	50	50	Lognormal	3.8E+3	2.0E+0	3.1E+0
TPH - Aliph >C06-C08	#N/A	50	50	Lognormal	3.8E+3	2.0E+0	3.1E+0
TPH - Aliph >C08-C10	#N/A	50	50	Lognormal	3.8E+3	2.0E+0	3.1E+0
TPH - Aliph >C10-C12	#N/A	50	50	Lognormal	3.8E+3	2.0E+0	3.1E+0
TPH - Aliph >C12-C16	#N/A	50	50	Lognormal	1.4E+3	3.5E+0	4.6E+0
TPH - Aliph >C16-C21	#N/A	50	50	Lognormal	1.4E+3	3.5E+0	4.6E+0
TPH - Aliph >C21-C34	#N/A	50	50	Lognormal	1.4E+3	3.5E+0	4.6E+0
TPH - Arom >C05-C07	#N/A	50	50	Lognormal	3.8E+3	2.0E+0	3.1E+0
TPH - Arom >C07-C08	#N/A	50	50	Lognormal	3.8E+3	2.0E+0	3.1E+0
TPH - Arom >C08-C10	#N/A	50	50	Lognormal	3.8E+3	2.0E+0	3.1E+0
TPH - Arom >C10-C12	#N/A	50	50	Lognormal	3.8E+3	2.0E+0	3.1E+0
TPH - Arom >C12-C16	#N/A	50	50	Lognormal	1.4E+3	3.5E+0	4.6E+0
TPH - Arom >C16-C21	#N/A	50	50	Lognormal	1.4E+3	3.5E+0	4.6E+0
TPH - Arom >C21-C35	#N/A	50	50	Lognormal	1.4E+3	3.5E+0	4.6E+0

<input type="button" value="Return"/> <input type="button" value="Print Sheet"/> <input type="button" value="Help"/>			Location: 6535 San Leandro Street, Oakland, CA Date: 23-Nov-05 Compl. By: Steve Kemnitz				
<h2>Soil Source Zone Concentration Calculator</h2>							
			<input type="button" value="Paste Defaults"/>		UCL Percentile <input type="text" value="95%"/>		
			Estimated Distribution <input type="button" value="Mean Option"/>				
Constituent	Detection Limit (mg/kg)	No. of Samples	No. of Detects	of Data	Max. Conc. (mg/kg)	Mean Conc. (mg/kg)	UCL on Mean (mg/kg)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

RBCA Tool Kit for Chemical Releases, Version 1.3b

Enter Analytical Data from
Soil Source Zone
(up to 50 Data Points)

Analytical Data

	1	2	3	4	5	6	7	8	9	10	11	12	13
ID	MW1 (5)	MW1 (10)	MW1 (14)	MW2 (5)	MW2 (10)	MW2 (12)	MW3 (5)	MW3 (10)	SW-1(9.0)	SW-2(9.0)	MW4(14.5)	MW5(13)	MW6(5)
Date	27-Apr-90	27-Apr-90	27-Apr-90	27-Apr-90	27-Apr-90	27-Apr-90	27-Apr-90	27-Apr-90	29-Nov-89	29-Nov-89	14-Aug-90	14-Aug-90	14-Aug-90
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	1.20E-2	9.40E-3	7.50E-3	7.50E-2	2.50E-3	2.50E-3	9.40E-3	8.80E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3
	1.60E-1	2.40E-2	3.10E-2	7.10E-3	1.70E-2	2.80E-2	4.80E-2	1.50E-2	2.50E-3	2.50E-3	2.50E-3	1.00E-2	4.20E-2
	2.50E-3	2.50E-3	2.50E-3	2.50E-3	8.80E-3	1.00E-1	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3
	2.50E-3	2.50E-3	2.50E-3	2.50E-3	1.80E-2	1.50E-2	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3
	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2
	5.00E-1	5.00E-1	5.00E-1	2.40E+0	2.20E+0	6.80E+0	5.00E-1	5.00E-1	1.60E+0	3.80E+0	5.00E-1	5.00E-1	5.00E-1
	5.00E-1	5.00E-1	5.00E-1	2.40E+0	2.20E+0	6.80E+0	5.00E-1	5.00E-1	1.60E+0	3.80E+0	5.00E-1	5.00E-1	5.00E-1
	5.00E-1	5.00E-1	5.00E-1	2.40E+0	2.20E+0	6.80E+0	5.00E-1	5.00E-1	1.60E+0	3.80E+0	5.00E-1	5.00E-1	5.00E-1
	5.00E-1	5.00E-1	5.00E-1	2.40E+0	2.20E+0	6.80E+0	5.00E-1	5.00E-1	1.60E+0	3.80E+0	5.00E-1	5.00E-1	5.00E-1
	1.40E+3	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
	1.40E+3	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
	1.40E+3	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
	5.00E-1	5.00E-1	5.00E-1	2.40E+0	2.20E+0	6.80E+0	5.00E-1	5.00E-1	1.60E+0	3.80E+0	5.00E-1	5.00E-1	5.00E-1
	5.00E-1	5.00E-1	5.00E-1	2.40E+0	2.20E+0	6.80E+0	5.00E-1	5.00E-1	1.60E+0	3.80E+0	5.00E-1	5.00E-1	5.00E-1
	5.00E-1	5.00E-1	5.00E-1	2.40E+0	2.20E+0	6.80E+0	5.00E-1	5.00E-1	1.60E+0	3.80E+0	5.00E-1	5.00E-1	5.00E-1
	5.00E-1	5.00E-1	5.00E-1	2.40E+0	2.20E+0	6.80E+0	5.00E-1	5.00E-1	1.60E+0	3.80E+0	5.00E-1	5.00E-1	5.00E-1
	1.40E+3	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
	1.40E+3	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
	1.40E+3	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0

RBCA Tool Kit for Chemical Releases, Version 1.3b

**Enter Analytical Data from
Soil Source Zone
(up to 50 Data Points)**

											Analytical Data		
	1	2	3	4	5	6	7	8	9	10	11	12	13
ID	MW1 (5)	MW1 (10)	MW1 (14)	MW2 (5)	MW2 (10)	MW2 (12)	MW3 (5)	MW3 (10)	SW-1(9.0)	SW-2(9.0)	MW4(14.5)	MW5(13)	MW6(5)
Date	27-Apr-90	27-Apr-90	27-Apr-90	27-Apr-90	27-Apr-90	27-Apr-90	27-Apr-90	27-Apr-90	29-Nov-89	29-Nov-89	14-Aug-90	14-Aug-90	14-Aug-90
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

RBCA Tool Kit for Chemical Releases, Version 1.3b

													Analytical Data	
14	15	16	17	18	19	20	21	22	23	24	25	26		
MW6(10)	MW6(12.5)	MW6(15.5)	MW7(5)	MW8(5)	MW8(10)	MW8(13)	MW9(5.5)	MW9(10)	MW9(13)	MW10(5)	MW10(10.5)	MW10(13)		
14-Aug-90	14-Aug-90	14-Aug-90	28-Apr-93	29-Sep-92	29-Sep-92	29-Sep-92	29-Sep-92	29-Sep-92	29-Sep-92	29-Sep-92	29-Sep-92	29-Sep-92		
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
2.60E-1	3.40E+0	4.30E-1	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	5.80E-1	2.50E-3	
2.20E-1	1.20E+1	4.10E-1	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	3.80E-1	2.50E-3	
3.40E-1	2.00E+1	5.00E-1	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	4.40E+0	9.00E-3	
1.20E+0	3.60E+0	1.20E-1	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	1.00E+1	6.30E-3	
2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	
1.80E+1	1.60E+2	2.50E+0	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	2.10E+2	5.00E-1	
1.80E+1	1.60E+2	2.50E+0	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	2.10E+2	5.00E-1	
1.80E+1	1.60E+2	2.50E+0	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	2.10E+2	5.00E-1	
1.80E+1	1.60E+2	2.50E+0	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	2.10E+2	5.00E-1	
5.10E+0	9.30E+1	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	3.90E+1	2.50E+0	
5.10E+0	9.30E+1	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	3.90E+1	2.50E+0	
5.10E+0	9.30E+1	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	3.90E+1	2.50E+0	
1.80E+1	1.60E+2	2.50E+0	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	2.10E+2	5.00E-1	
1.80E+1	1.60E+2	2.50E+0	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	2.10E+2	5.00E-1	
1.80E+1	1.60E+2	2.50E+0	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	2.10E+2	5.00E-1	
1.80E+1	1.60E+2	2.50E+0	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	5.00E-1	2.10E+2	5.00E-1	
5.10E+0	9.30E+1	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	3.90E+1	2.50E+0	
5.10E+0	9.30E+1	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	3.90E+1	2.50E+0	
5.10E+0	9.30E+1	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	3.90E+1	2.50E+0	

RBCA Tool Kit for Chemical Releases, Version 1.3b

											Analytical Data		
14	15	16	17	18	19	20	21	22	23	24	25	26	
MW6(10)	MW6(12.5)	MW6(15.5)	MW7(5)	MW8(5)	MW8(10)	MW8(13)	MW9(5.5)	MW9(10)	MW9(13)	MW10(5)	MW10(10.5)	MW10(13)	
14-Aug-90	14-Aug-90	14-Aug-90	28-Apr-93	29-Sep-92	29-Sep-92	29-Sep-92	29-Sep-92	29-Sep-92	29-Sep-92	29-Sep-92	29-Sep-92	29-Sep-92	
<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	

RBCA Tool Kit for Chemical Releases, Version 1.3b

Analytical Data												
27	28	29	30	31	32	33	34	35	36	37	38	39
MW11(5)	SW-3 (9.0)	SW-4 (9.0)	SW-5 (9.0)	SW-6 (8.0)	D1(3.5)	D2(3.5)	D3(3.5)	D4(3.5)	D5(3.5)	D6(3.5)	P1(6.0)	P2(5.5)
25-Jul-01	29-Nov-89	29-Nov-89	29-Nov-89	29-Nov-89	5-Dec-89	5-Dec-89	5-Dec-89	5-Dec-89	5-Dec-89	5-Dec-89	29-Dec-89	29-Dec-89
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
1.20E-2	2.50E-3	1.20E+0	2.00E-1	2.50E-3	2.50E-3	8.00E-2	1.40E-1	1.10E-1	2.50E-3	2.50E-3	8.60E-2	6.10E+0
2.10E-2	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	1.70E-1	2.50E-3
2.50E-3	4.20E-1	2.10E+0	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	1.80E-1	1.40E+2
1.50E-2	2.30E+0	1.00E+0	1.10E-1	2.50E-3	2.50E-3	2.50E-3	3.10E-1	1.00E-1	2.50E-3	2.50E-1	8.50E+0	7.50E+2
2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2
5.00E-1	5.60E+0	3.20E+1	4.80E+0	5.00E-1	5.00E-1	1.50E+0	6.60E+0	7.40E+0	1.90E+0	2.00E+0	1.50E+1	3.80E+3
5.00E-1	5.60E+0	3.20E+1	4.80E+0	5.00E-1	5.00E-1	1.50E+0	6.60E+0	7.40E+0	1.90E+0	2.00E+0	1.50E+1	3.80E+3
5.00E-1	5.60E+0	3.20E+1	4.80E+0	5.00E-1	5.00E-1	1.50E+0	6.60E+0	7.40E+0	1.90E+0	2.00E+0	1.50E+1	3.80E+3
5.00E-1	5.60E+0	3.20E+1	4.80E+0	5.00E-1	5.00E-1	1.50E+0	6.60E+0	7.40E+0	1.90E+0	2.00E+0	1.50E+1	3.80E+3
7.90E+1	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
7.90E+1	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
7.90E+1	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
5.00E-1	5.60E+0	3.20E+1	4.80E+0	5.00E-1	5.00E-1	1.50E+0	6.60E+0	7.40E+0	1.90E+0	2.00E+0	1.50E+1	3.80E+3
5.00E-1	5.60E+0	3.20E+1	4.80E+0	5.00E-1	5.00E-1	1.50E+0	6.60E+0	7.40E+0	1.90E+0	2.00E+0	1.50E+1	3.80E+3
5.00E-1	5.60E+0	3.20E+1	4.80E+0	5.00E-1	5.00E-1	1.50E+0	6.60E+0	7.40E+0	1.90E+0	2.00E+0	1.50E+1	3.80E+3
5.00E-1	5.60E+0	3.20E+1	4.80E+0	5.00E-1	5.00E-1	1.50E+0	6.60E+0	7.40E+0	1.90E+0	2.00E+0	1.50E+1	3.80E+3
7.90E+1	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
7.90E+1	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
7.90E+1	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0

RBCA Tool Kit for Chemical Releases, Version 1.3b

Analytical Data												
27	28	29	30	31	32	33	34	35	36	37	38	39
MW11(5)	SW-3 (9.0)	SW-4 (9.0)	SW-5 (9.0)	SW-6 (8.0)	D1(3.5)	D2(3.5)	D3(3.5)	D4(3.5)	D5(3.5)	D6(3.5)	P1(6.0)	P2(5.5)
25-Jul-01	29-Nov-89	29-Nov-89	29-Nov-89	29-Nov-89	5-Dec-89	5-Dec-89	5-Dec-89	5-Dec-89	5-Dec-89	5-Dec-89	29-Dec-89	29-Dec-89
<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>

RBCA Tool Kit for Chemical Releases, Version 1.3b

40	41	42	43	44	45	46	47	48	49	50
P2(12)	P3(5.0)	P4(4.5)	P5(4.5)	P6(3.0)	P7(4.0)	W01(8.5)	WP2E(11.0)	WP2W(11.0)	SWA(9.5)	SWB(9.5)
29-Dec-89	29-Dec-89	29-Dec-89	29-Dec-89	29-Dec-89	29-Dec-89	5-Dec-89	5-Dec-89	5-Dec-89	5-Dec-89	5-Dec-89
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
2.50E-3	1.30E-1	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3
2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	1.60E-1	2.50E-3	2.50E-3	2.50E-3
2.50E-3	1.80E-1	2.50E-3	2.50E-3	2.50E-3	2.50E-3	2.50E-3	5.00E-1	2.50E-3	2.50E-3	2.50E-3
2.50E-3	1.30E+0	2.30E-1	2.50E-3	2.50E-3	2.50E-3	2.50E-3	3.10E+0	2.50E-3	2.50E-3	2.50E-3
2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2
5.00E-1	1.10E+1	1.40E+0	5.00E-1	5.00E-1	5.00E-1	1.60E+0	2.00E+1	5.00E-1	2.10E+0	3.90E+0
5.00E-1	1.10E+1	1.40E+0	5.00E-1	5.00E-1	5.00E-1	1.60E+0	2.00E+1	5.00E-1	2.10E+0	3.90E+0
5.00E-1	1.10E+1	1.40E+0	5.00E-1	5.00E-1	5.00E-1	1.60E+0	2.00E+1	5.00E-1	2.10E+0	3.90E+0
5.00E-1	1.10E+1	1.40E+0	5.00E-1	5.00E-1	5.00E-1	1.60E+0	2.00E+1	5.00E-1	2.10E+0	3.90E+0
2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
5.00E-1	1.10E+1	1.40E+0	5.00E-1	5.00E-1	5.00E-1	1.60E+0	2.00E+1	5.00E-1	2.10E+0	3.90E+0
5.00E-1	1.10E+1	1.40E+0	5.00E-1	5.00E-1	5.00E-1	1.60E+0	2.00E+1	5.00E-1	2.10E+0	3.90E+0
5.00E-1	1.10E+1	1.40E+0	5.00E-1	5.00E-1	5.00E-1	1.60E+0	2.00E+1	5.00E-1	2.10E+0	3.90E+0
5.00E-1	1.10E+1	1.40E+0	5.00E-1	5.00E-1	5.00E-1	1.60E+0	2.00E+1	5.00E-1	2.10E+0	3.90E+0
2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0
2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0	2.50E+0

RBCA Tool Kit for Chemical Releases, Version 1.3b

40	41	42	43	44	45	46	47	48	49	50
P2(12)	P3(5.0)	P4(4.5)	P5(4.5)	P6(3.0)	P7(4.0)	W01(8.5)	WP2E(11.0)	WP2W(11.0)	SWA(9.5)	SWB(9.5)
29-Dec-89	29-Dec-89	29-Dec-89	29-Dec-89	29-Dec-89	29-Dec-89	5-Dec-89	5-Dec-89	5-Dec-89	5-Dec-89	5-Dec-89
<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>	<i>(mg/kg)</i>

Commands and Options			Site Name: 76 Station No. 3135	Job ID: 42013810
<input type="button" value="Return"/>	<input type="button" value="Print Sheet"/>	<input type="button" value="Help"/>	Location: 6535 San Leandro Street, Oakland, Date: 23-Nov-05	
			Compl. By: Steve Kemnitz	

Groundwater Source Zone Concentration Calculator

UCL
Percentile

Constituent	Detection Limit	No. of Samples	No. of Detects	Estimated Distribution of Data	Max. Conc.	Mean Conc.	UCL on Mean
	(mg/L)				(mg/L)	(mg/L)	(mg/L)
Benzene	#N/A	11	11	Lognormal	3.2E-3	3.5E-4	5.6E-4
Toluene	#N/A	11	11	Normal	6.0E-4	2.8E-4	3.4E-4
Ethylbenzene	#N/A	11	11	Lognormal	1.6E-1	6.6E-4	2.2E-3
Xylene (mixed isomers)	#N/A	11	11	Lognormal	2.7E-1	1.2E-3	3.9E-3
Methyl t-Butyl ether	#N/A	11	11	Lognormal	4.5E-2	1.3E-3	3.7E-3
TPH - Aliph >C05-C06	#N/A	11	11	Lognormal	2.3E+0	7.6E-2	1.9E-1
TPH - Aliph >C06-C08	#N/A	11	11	Lognormal	2.3E+0	7.6E-2	1.9E-1
TPH - Aliph >C08-C10	#N/A	11	11	Lognormal	2.3E+0	7.6E-2	1.9E-1
TPH - Aliph >C10-C12	#N/A	11	11	Lognormal	2.3E+0	7.6E-2	1.9E-1
TPH - Aliph >C12-C16	#N/A	11	11	Normal	1.0E-5	1.0E-5	1.0E-5
TPH - Aliph >C16-C21	#N/A	11	11	Normal	1.0E-5	1.0E-5	1.0E-5
TPH - Aliph >C21-C34	#N/A	11	11	Normal	1.0E-5	1.0E-5	1.0E-5
TPH - Arom >C05-C07	#N/A	11	11	Lognormal	2.3E+0	7.6E-2	1.9E-1
TPH - Arom >C07-C08	#N/A	11	11	Lognormal	2.3E+0	7.6E-2	1.9E-1
TPH - Arom >C08-C10	#N/A	11	11	Lognormal	2.3E+0	7.6E-2	1.9E-1
TPH - Arom >C10-C12	#N/A	11	11	Lognormal	2.3E+0	7.6E-2	1.9E-1
TPH - Arom >C12-C16	#N/A	11	11	Normal	1.0E-5	1.0E-5	1.0E-5
TPH - Arom >C16-C21	#N/A	11	11	Normal	1.0E-5	1.0E-5	1.0E-5
TPH - Arom >C21-C35	#N/A	11	11	Normal	1.0E-5	1.0E-5	1.0E-5

<input type="button" value="Return"/> <input type="button" value="Print Sheet"/> <input type="button" value="Help"/>			Location: 6535 San Leandro Street, Oakland, Date: 23-Nov-05 Compl. By: Steve Kemnitz				
<h2 style="text-align: center;">Groundwater Source Zone Concentration Calculator</h2>							
			<input type="button" value="Paste Defaults"/>		UCL Percentile <input type="text" value="95%"/>		
			Estimated Distribution of Data		<input type="button" value="Mean Option"/>		
Constituent	Detection Limit (mg/L)	No. of Samples	No. of Detects	Estimated Distribution of Data	Max. Conc. (mg/L)	Mean Conc. (mg/L)	UCL on Mean (mg/L)

RBCA Tool Kit for Chemical Releases, Version 1.3b

Enter Analytical Data from
Groundwater Source Zone
(up to 50 Data Points)

												Analytical Data	
	1	2	3	4	5	6	7	8	9	10	11	12	13
ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11		
Date	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05		
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	2.50E-4	9.10E-4	2.50E-4	2.50E-4	2.50E-4	3.20E-3	2.50E-4	2.50E-4	2.50E-4	2.50E-4	2.50E-4		
	2.50E-4	2.50E-4	2.50E-4	2.50E-4	2.50E-4	6.00E-4	2.50E-4	2.50E-4	2.50E-4	2.50E-4	2.50E-4		
	2.50E-4	1.60E-2	2.50E-4	2.50E-4	2.50E-4	1.60E-1	2.50E-4	2.50E-4	2.50E-4	2.50E-4	2.50E-4		
	5.00E-4	2.10E-2	5.00E-4	5.00E-4	5.00E-4	2.70E-1	5.00E-4	5.00E-4	5.00E-4	5.00E-4	5.00E-4		
	1.20E-3	4.50E-2	3.60E-3	2.50E-4	5.50E-4	2.40E-2	2.50E-4	2.50E-4	2.50E-4	5.20E-3	2.50E-4		
	1.90E-1	5.80E-1	2.50E-2	3.00E-1	2.50E-2	2.30E+0	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2		
	1.90E-1	5.80E-1	2.50E-2	3.00E-1	2.50E-2	2.30E+0	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2		
	1.90E-1	5.80E-1	2.50E-2	3.00E-1	2.50E-2	2.30E+0	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2		
	1.90E-1	5.80E-1	2.50E-2	3.00E-1	2.50E-2	2.30E+0	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2		
	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5		
	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5		
	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5		
	1.90E-1	5.80E-1	2.50E-2	3.00E-1	2.50E-2	2.30E+0	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2		
	1.90E-1	5.80E-1	2.50E-2	3.00E-1	2.50E-2	2.30E+0	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2		
	1.90E-1	5.80E-1	2.50E-2	3.00E-1	2.50E-2	2.30E+0	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2		
	1.90E-1	5.80E-1	2.50E-2	3.00E-1	2.50E-2	2.30E+0	2.50E-2	2.50E-2	2.50E-2	2.50E-2	2.50E-2		
	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5		
	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5		
	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5	1.00E-5		

RBCA Tool Kit for Chemical Releases, Version 1.3b

**Enter Analytical Data from
Groundwater Source Zone
(up to 50 Data Points)**

											Analytical Data		
	1	2	3	4	5	6	7	8	9	10	11	12	13
ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11		
Date	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05	27-Sep-05		
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)

RBCA Tool Kit for Chemical Releases, Version 1.3b

										Analytical Data		
14	15	16	17	18	19	20	21	22	23	24	25	26
(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)

RBCA Tool Kit for Chemical Releases, Version 1.3b

											Analytical Data	
14	15	16	17	18	19	20	21	22	23	24	25	26
(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)

RBCA Tool Kit for Chemical Releases, Version 1.3b

													Analytical Data	
27	28	29	30	31	32	33	34	35	36	37	38	39		
(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)

RBCA Tool Kit for Chemical Releases, Version 1.3b

Analytical Data												
27	28	29	30	31	32	33	34	35	36	37	38	39
(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)

RBCA Tool Kit for Chemical Releases, Version 1.3b

40	41	42	43	44	45	46	47	48	49	50
(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)

RBCA Tool Kit for Chemical Releases, Version 1.3b

40	41	42	43	44	45	46	47	48	49	50
<i>(mg/L)</i>	<i>(mg/L)</i>	<i>(mg/L)</i>	<i>(mg/L)</i>	<i>(mg/L)</i>	<i>(mg/L)</i>	<i>(mg/L)</i>	<i>(mg/L)</i>	<i>(mg/L)</i>	<i>(mg/L)</i>	<i>(mg/L)</i>

Site Name: 76 Station No. 3135
 Location: 6535 San Leandro Street, Oakland, Ca.
 Compl. By: Steve Kemnitz

Job ID: 42013810
 Date: 23-Nov-05

Commands and Options

Main Screen

Print Sheet

Help

Source Media Constituents of Concern (COCs)

Selected COCs

COC Select: Sort List: (?)

Add/Insert Top MoveUp

Delete Bottom MoveDown

Benzene
 Toluene
 Ethylbenzene
 Xylene (mixed isomers)
 Methyl t-Butyl ether
 TPH - Aliph >C05-C06
 TPH - Aliph >C06-C08
 TPH - Aliph >C08-C10
 TPH - Aliph >C10-C12
 TPH - Aliph >C12-C16
 TPH - Aliph >C16-C21
 TPH - Aliph >C21-C34
 TPH - Arom >C05-C07
 TPH - Arom >C07-C08
 TPH - Arom >C08-C10
 TPH - Arom >C10-C12
 TPH - Arom >C12-C16
 TPH - Arom >C16-C21
 TPH - Arom >C21-C35

Representative COC Concentration (?)

Groundwater Source Zone		Soil Source Zone	
Enter Directly <input type="checkbox"/> Enter Site Data		Enter Directly <input type="checkbox"/> Enter Site Data	
(mg/L)	note	(mg/kg)	note
5.6E-4		1.8E-2	
3.4E-4		1.7E-2	
2.2E-3		1.9E-2	
3.9E-3		3.9E-2	
3.7E-3		2.5E-2	
1.9E-1		3.1E+0	
1.9E-1		3.1E+0	
1.9E-1		3.1E+0	
1.9E-1		3.1E+0	
1.0E-5		4.6E+0	
1.0E-5		4.6E+0	
1.0E-5		4.6E+0	
1.9E-1		3.1E+0	
1.9E-1		3.1E+0	
1.9E-1		3.1E+0	
1.9E-1		3.1E+0	
1.0E-5		4.6E+0	
1.0E-5		4.6E+0	
1.0E-5		4.6E+0	

Apply Raoult's Law (?)
 Mole Fraction in Source Material

(-)

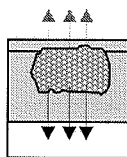


Transport Modeling Options

1. Vertical Transport, Surface Soil Column

Outdoor Air Volatilization Factors ?

- Surface soil volatilization model only
- Combination surface soil/Johnson & Ettinger models
- Thickness of surface soil zone (ft)
- User-specified VF from other model



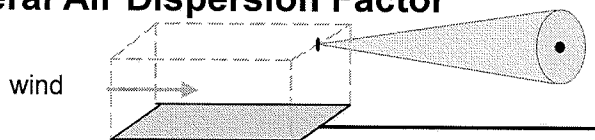
Indoor Air Volatilization Factors ?

- Johnson & Ettinger model
- User-specified VF from other model

Soil-to-Groundwater Leaching Factor ?

- ASTM Model
 - Apply Soil Attenuation Model (SAM)
 - Allow first-order biodecay
- User-specified LF from other model

2. Lateral Air Dispersion Factor ?



- 3-D Gaussian dispersion model
 - Off-site 1
 - Off-site 2 (-)
- User-Specified ADF

Site Name: 76 Station No. 3135

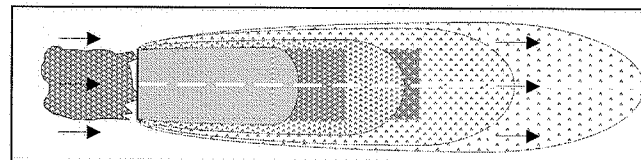
Job ID: 42013810

Location: 6535 San Leandro Street, Oakland, Ca.

Date: 23-Nov-05

Compl. By: Steve Kemnitz

3. Groundwater Dilution Attenuation Factor ?



Calculate DAF using Domenico Model ?

- Domenico equation with dispersion only (no biodegradation)
- Domenico equation first-order decay
- Modified Domenico equation using electron acceptor superposition
- Biodegradation Capacity (mg/L)

— or —

User-Specified DAF Values

- DAF values from other model or site data
- n o

4. Commands and Options

Site-Specific Soil Parameters

1. Soil Source Zone Characteristics (?)

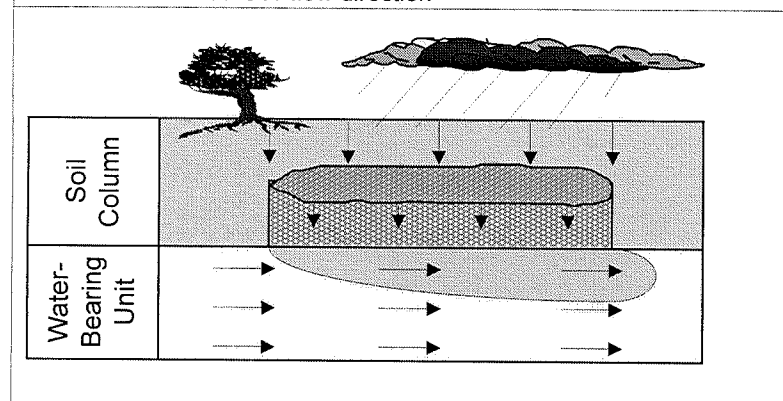
Hydrogeology

General Case Construction

Depth to water-bearing unit (ft)
 Capillary zone thickness (ft)
 Soil column thickness (ft)

Affected Soil Zone

Depth to top of affected soils (ft)
 Depth to base of affected soils (ft)
 Affected soil area (ft^2)
 Length of affected soil parallel to assumed wind direction (ft)
 Length of affected soil parallel to assumed GW flow direction (ft)



Site Name: 76 Station No. 3135 Job ID: 42013810
 Location: 6535 San Leandro Street, Oakland, Ca. Date: 23-Nov-05
 Compl. By: Steve Kernitz

2. Surface Soil Column

Vadose Zone Capillary Fringe

Predominant USCS Soil Type

SM: Silty Sand (?)

or
 Total porosity (-)
 Volumetric water content (-)
 Volumetric air content (-)
 Dry bulk density (kg/L)
 Vertical hydraulic conductivity (ft/d)
 Vapor permeability (ft^2)
 Capillary zone thickness (ft)

Net Rainfall Infiltration

Net infiltration estimate (in/yr)
 or

Average annual precipitation (in/yr)

Partitioning Parameters

Fraction organic carbon (-)
 Soil/water pH (-)

3. Commands and Options

Site-Specific Groundwater Parameters

1. Water-Bearing Unit (?)

Hydrogeology

Groundwater Darcy velocity	2.2E-1	(ft/d)
Groundwater seepage velocity	5.9E-1	(ft/d)
or <input type="button" value="Enter Directly"/>	↑ or	
Hydraulic conductivity	2.2E+1	(ft/d)
Hydraulic gradient	1.0E-2	(-)
Effective porosity	0.38	(-)

Sorption

Fraction organic carbon--saturated zone	0.001	(-)
Groundwater pH	6.20	(-)

2. Groundwater Source Zone (?)

Groundwater plume width at source	147.6377953	(ft)
Plume (mixing zone) thickness at source	6.56167979	(ft)
or <input type="button" value="Calculate"/>	↑ or	
Saturated thickness	10	(ft)
Length of source zone		(ft)

Site Name: 76 Station No. 3135 Job ID: 42013810
 Location: 6535 San Leandro Street, Oakland, Ca. Date: 23-Nov-05
 Compl. By: Steve Kernitz

3. Groundwater Dispersion (?)

Model:

	GW Ingestion	Soil Leaching to GW	
	Off-site 1	Off-site 2	Off-site 1
	Off-site 2	Off-site 1	Off-site 2
Distance to GW receptors	240	820.2	240
	820.2	240	820.2
or <input type="button" value="Enter Directly"/>	↓ or	↓	↓
Longitudinal dispersivity	24	82.02	24
	82.02	24	82.02
Transverse dispersivity	7.92	27.07	7.92
	27.07	7.92	27.07
Vertical dispersivity	1.2	4.101	1.2
	4.101	1.2	4.101

4. Groundwater Discharge to Surface Water (?)

Distance to GW/SW discharge point		Off-site 2
	820.2	(ft)
Plume width at GW/SW discharge	0.033	(ft)
Plume thickness at GW/SW discharge	0.033	(ft)
Surface water flowrate at GW/SW discharge	3.1E-3	(ft ³ /d)

5. Commands and Options

<input type="button" value="Main Screen"/>	<input type="button" value="Use Default Values"/>	<input type="button" value="Print Sheet"/>
<input type="button" value="Set Units"/>		<input type="button" value="Help"/>

Site-Specific Air Parameters

1. Outdoor Air Pathway

Dispersion in Air

Distance to offsite air receptor

or

Horizontal dispersivity

Vertical dispersivity

Air Source Zone

Air mixing zone height

Ambient air velocity in mixing zone

Areal particulate emission flux

Off-site 1	Off-site 2	
239.993	239.993	(ft)
↓	or ↓	
25.66	25.66	(ft)
17.14	17.14	(ft)

6.56167979	(ft)
------------	------

637795.2756	(ft/d)
-------------	--------

6.9E-14	(g/cm ² /s)
---------	------------------------

?

2. Indoor Air Pathway

Building Parameters

Building volume/area ratio

Foundation area

Foundation perimeter

Building air exchange rate

Depth to bottom of foundation slab

Convective air flow through cracks

Foundation thickness

Foundation crack fraction

Volumetric water content of cracks

Volumetric air content of cracks

Indoor/Outdoor differential pressure

Residential	Commercial	
6.56168	9.84252	(ft)
753.474	753.474	(ft ²)
111.549	111.549	(ft)
1.2E+1	2.0E+1	(1/d)
0.49213	0.49213	(ft)
0.0E+0	0.0E+0	(ft ³ /d)
0.492125984		(ft)
0.01		(-)
0.12		(-)
0.26		(-)
0		(psi)

?

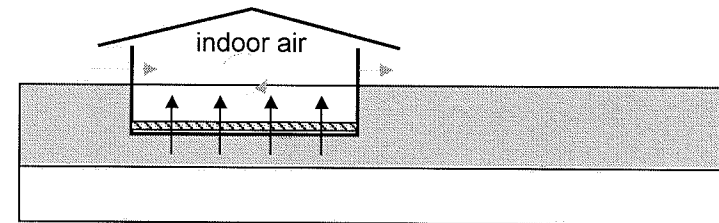
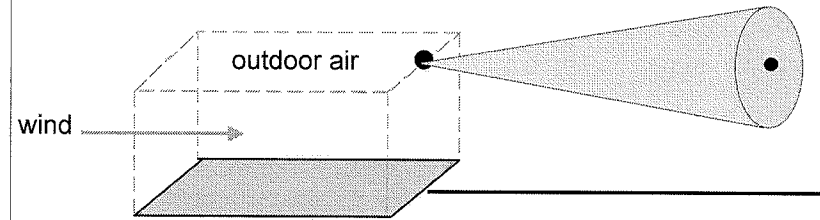
Site Name: 76 Station No. 3135

Job ID: 42013810

Location: 6535 San Leandro Street, Oakland, Ca.

Date: 23-Nov-05

Compl. By: Steve Kemnitz



3. Commands and Options

Main Screen

Use Default Values

Print Sheet

Set Units

Help

RBCA SITE ASSESSMENT

Site Name: 76 Station No. 3135

Completed By: Steve Kemnitz

Job ID: 42013810

Site Location: 6535 San Leandro Street, Oakland, Ca.

Date Completed: 23-Nov-05

SOIL (0 - 7 ft) SSTL VALUES

Target Risk (Class A & B) 1.0E-6
 Target Risk (Class C) 1.0E-5
 Target Hazard Quotient 1.0E+0

Groundwater DAF Option: Domenico - No Decay
 (One-directional vert. dispersion)

SSTL Results For Complete Exposure Pathways ("X" if Complete)

CAS No.	Name	Representative Concentration (mg/kg)	SSTL Results For Complete Exposure Pathways ("X" if Complete)										Applicable SSTL (mg/kg)	SSTL Exceeded ? "■" if yes	Required CRF Only if "yes" left
			Soil Leaching to Groundwater Ingestion / Discharge to Surface Water			Soil Vol. to Indoor Air	Soil Volatilization to Outdoor Air				Surface Soil Inhalation, Ingestion, Dermal Contact				
			On-site (0 ft)	Off-site 1 (240 ft)	Off-site 2 (820.2 ft)	On-site (0 ft)	On-site (0 ft)		Off-site 1 (240 ft)	Off-site 2 (240 ft)	On-site (0 ft)				
Commercial	Residential	Surf. Water	Commercial	Commercial	Construction Worker	Residential	Residential	Commercial	Construction Worker						
71-43-2	Benzene	1.8E-2	3.2E-2	5.8E-2	2.3E+2	7.4E-2	1.1E+1	1.0E+1	1.8E+1	1.8E+1	2.5E+0	9.4E+0	3.2E-2	<input type="checkbox"/>	<1
108-88-3	Toluene	1.7E-2	1.4E+2	3.0E+2	>7.5E+2	8.8E+1	>7.5E+2	>7.5E+2	>7.5E+2	>7.5E+2	3.8E+3	7.0E+2	8.8E+1	<input type="checkbox"/>	<1
100-41-4	Ethylbenzene	1.9E-2	1.8E+2	3.8E+2	>6.3E+2	3.0E+2	>6.3E+2	>6.3E+2	>6.3E+2	>6.3E+2	3.0E+3	1.6E+3	1.8E+2	<input type="checkbox"/>	<1
1330-20-7	Xylene (mixed isomers)	3.9E-2	>5.0E+2	>5.0E+2	>5.0E+2	>5.0E+2	>5.0E+2	>5.0E+2	>5.0E+2	>5.0E+2	4.9E+4	1.5E+4	1.5E+4	<input type="checkbox"/>	<1
1634-04-4	Methyl t-Butyl ether	2.5E-2	9.3E-1	2.0E+0	NC	6.6E+2	>9.4E+3	7.5E+3	>9.4E+3	>9.4E+3	2.8E+2	2.7E+2	9.3E-1	<input type="checkbox"/>	<1
0-00-0	TPH - Aliph >C05-C06	3.1E+0	>4.9E+2	>4.9E+2	NC	>4.9E+2	>4.9E+2	>4.9E+2	>4.9E+2	>4.9E+2	1.3E+5	2.7E+4	2.7E+4	<input type="checkbox"/>	<1
0-00-0	TPH - Aliph >C06-C08	3.1E+0	>2.6E+2	>2.6E+2	NC	>2.6E+2	>2.6E+2	>2.6E+2	>2.6E+2	>2.6E+2	1.3E+5	2.7E+4	2.7E+4	<input type="checkbox"/>	<1
0-00-0	TPH - Aliph >C08-C10	3.1E+0	>1.4E+2	>1.4E+2	NC	>1.4E+2	>1.4E+2	>1.4E+2	>1.4E+2	>1.4E+2	3.1E+3	1.2E+3	1.2E+3	<input type="checkbox"/>	<1
0-00-0	TPH - Aliph >C10-C12	3.1E+0	>8.6E+1	>8.6E+1	NC	>8.6E+1	>8.6E+1	>8.6E+1	>8.6E+1	>8.6E+1	3.1E+3	1.7E+3	1.7E+3	<input type="checkbox"/>	<1
0-00-0	TPH - Aliph >C12-C16	4.6E+0	>3.8E+1	>3.8E+1	NC	>3.8E+1	>3.8E+1	>3.8E+1	>3.8E+1	>3.8E+1	3.1E+3	2.4E+3	2.4E+3	<input type="checkbox"/>	<1
0-00-0	TPH - Aliph >C16-C21	4.6E+0	>1.6E+1	>1.6E+1	NC	NC	NC	NC	NC	NC	NC	NC	>1.6E+1	<input type="checkbox"/>	NA
0-00-0	TPH - Aliph >C21-C34	4.6E+0	>1.6E+1	>1.6E+1	NC	NC	NC	NC	NC	NC	NC	NC	>1.6E+1	<input type="checkbox"/>	NA
0-00-0	TPH - Arom >C05-C07	3.1E+0	1.3E+0	2.8E+0	NC	1.3E+0	1.9E+2	1.0E+1	3.8E+2	3.8E+2	6.7E+1	9.4E+0	1.3E+0	<input checked="" type="checkbox"/>	2.4E+0
0-00-0	TPH - Arom >C07-C08	3.1E+0	2.5E+2	5.4E+2	NC	8.8E+1	>1.4E+3	9.6E+2	>1.4E+3	>1.4E+3	4.5E+3	8.4E+2	8.8E+1	<input type="checkbox"/>	<1
0-00-0	TPH - Arom >C08-C10	3.1E+0	3.0E+2	6.6E+2	NC	1.3E+2	>1.0E+3	9.0E+2	>1.0E+3	>1.0E+3	1.1E+3	5.4E+2	1.3E+2	<input type="checkbox"/>	<1
0-00-0	TPH - Arom >C10-C12	3.1E+0	4.8E+2	>6.3E+2	NC	>6.3E+2	>6.3E+2	>6.3E+2	>6.3E+2	>6.3E+2	1.2E+3	8.3E+2	4.8E+2	<input type="checkbox"/>	<1
0-00-0	TPH - Arom >C12-C16	4.6E+0	>2.9E+2	>2.9E+2	NC	>2.9E+2	>2.9E+2	>2.9E+2	>2.9E+2	>2.9E+2	1.3E+3	1.1E+3	1.1E+3	<input type="checkbox"/>	<1
0-00-0	TPH - Arom >C16-C21	4.6E+0	>1.0E+2	>1.0E+2	NC	NC	NC	NC	NC	NC	NC	NC	>1.0E+2	<input type="checkbox"/>	NA
0-00-0	TPH - Arom >C21-C35	4.6E+0	>8.3E+0	>8.3E+0	NC	NC	NC	NC	NC	NC	NC	NC	>8.3E+0	<input type="checkbox"/>	NA

">" indicates risk-based target concentration greater than constituent residual saturation value. NA = Not applicable. NC = Not calculated.

RBCA SITE ASSESSMENT

Site Name: 76 Station No. 3135

Completed By: Steve Kernitz

Job ID: 42013810

Site Location: 6535 San Leandro Street, Oakland, Ca.

Date Completed: 23-Nov-05

1 OF 1

GROUNDWATER SSTL VALUES

Target Risk (Class A & B) 1.0E-6

Target Risk (Class C) 1.0E-5

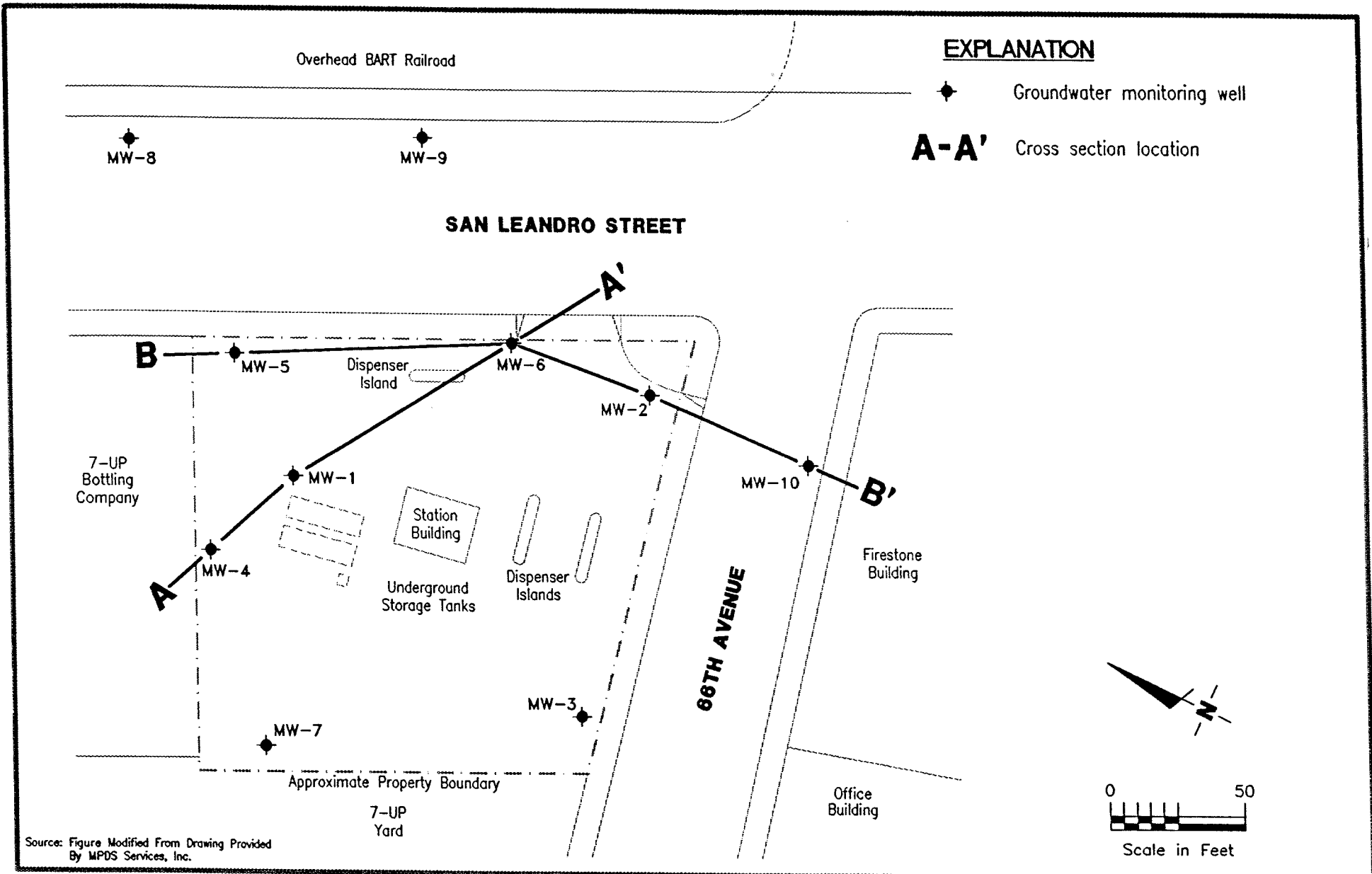
Target Hazard Quotient 1.0E+0

Groundwater DAF Option: Domenico - No Decay
(One-directional vert. dispersion)

SSTL Results For Complete Exposure Pathways ("X" if Complete)

CONSTITUENTS OF CONCERN		Representative Concentration (mg/L)	Groundwater Ingestion / Discharge to Surface Water			GW Vol. to Indoor Air	Groundwater Volatilization to Outdoor Air			Applicable SSTL (mg/L)	SSTL Exceeded? "■" if yes	Required CRF Only if "yes" left		
			X	On-site (0 ft)	Off-site 1 (240 ft)	Off-site 2 (820.2 ft)	X	On-site (0 ft)	Off-site 1 (240 ft)				Off-site 2 (240 ft)	
														Commercial
71-43-2	Benzene	5.6E-4	X	9.9E-3	1.8E-2	7.0E+1	X	9.8E-2	9.4E+0	9.2E+0	9.2E+0	9.9E-3	<input type="checkbox"/>	<1
108-88-3	Toluene	3.4E-4	X	2.0E+1	4.4E+1	>5.2E+2	X	1.1E+2	>5.2E+2	>5.2E+2	>5.2E+2	2.0E+1	<input type="checkbox"/>	<1
100-41-4	Ethylbenzene	2.2E-3	X	1.0E+1	2.2E+1	>1.7E+2	X	>1.7E+2	>1.7E+2	>1.7E+2	>1.7E+2	1.0E+1	<input type="checkbox"/>	<1
1330-20-7	Xylene (mixed isomers)	3.9E-3	X	>2.0E+2	>2.0E+2	>2.0E+2	X	>2.0E+2	>2.0E+2	>2.0E+2	>2.0E+2	>2.0E+2	<input type="checkbox"/>	NA
1634-04-4	Methyl t-Butyl ether	3.7E-3	X	1.0E+0	2.2E+0	NC	X	3.5E+3	>4.8E+4	>4.8E+4	>4.8E+4	1.0E+0	<input type="checkbox"/>	<1
0-00-0	TPH - Aliph >C05-C06	1.9E-1	X	>3.6E+1	>3.6E+1	NC	X	>3.6E+1	>3.6E+1	>3.6E+1	>3.6E+1	>3.6E+1	<input type="checkbox"/>	NA
0-00-0	TPH - Aliph >C06-C08	1.9E-1	X	>5.4E+0	>5.4E+0	NC	X	>5.4E+0	>5.4E+0	>5.4E+0	>5.4E+0	>5.4E+0	<input type="checkbox"/>	NA
0-00-0	TPH - Aliph >C08-C10	1.9E-1	X	>4.3E-1	>4.3E-1	NC	X	>4.3E-1	>4.3E-1	>4.3E-1	>4.3E-1	>4.3E-1	<input type="checkbox"/>	NA
0-00-0	TPH - Aliph >C10-C12	1.9E-1	X	>3.4E-2	>3.4E-2	NC	X	>3.4E-2	>3.4E-2	>3.4E-2	>3.4E-2	>3.4E-2	<input type="checkbox"/>	NA
0-00-0	TPH - Aliph >C12-C16	1.0E-5	X	>7.6E-4	>7.6E-4	NC	X	>7.6E-4	>7.6E-4	>7.6E-4	>7.6E-4	>7.6E-4	<input type="checkbox"/>	NA
0-00-0	TPH - Aliph >C16-C21	1.0E-5	X	>2.5E-6	>2.5E-6	NC	X	NC	NC	NC	NC	>2.5E-6	<input type="checkbox"/>	NA
0-00-0	TPH - Aliph >C21-C34	1.0E-5	X	>2.5E-6	>2.5E-6	NC	X	NC	NC	NC	NC	>2.5E-6	<input type="checkbox"/>	NA
0-00-0	TPH - Arom >C05-C07	1.9E-1	X	3.1E-1	6.6E-1	NC	X	1.5E+0	1.5E+2	1.8E+2	1.8E+2	3.1E-1	<input type="checkbox"/>	<1
0-00-0	TPH - Arom >C07-C08	1.9E-1	X	2.0E+1	4.4E+1	NC	X	9.0E+1	>5.2E+2	>5.2E+2	>5.2E+2	2.0E+1	<input type="checkbox"/>	<1
0-00-0	TPH - Arom >C08-C10	1.9E-1	X	4.1E+0	8.8E+0	NC	X	2.9E+1	>6.5E+1	>6.5E+1	>6.5E+1	4.1E+0	<input type="checkbox"/>	<1
0-00-0	TPH - Arom >C10-C12	1.9E-1	X	4.1E+0	8.8E+0	NC	X	>2.5E+1	>2.5E+1	>2.5E+1	>2.5E+1	4.1E+0	<input type="checkbox"/>	<1
0-00-0	TPH - Arom >C12-C16	1.0E-5	X	4.1E+0	>5.8E+0	NC	X	>5.8E+0	>5.8E+0	>5.8E+0	>5.8E+0	4.1E+0	<input type="checkbox"/>	<1
0-00-0	TPH - Arom >C16-C21	1.0E-5	X	>6.5E-1	>6.5E-1	NC	X	NC	NC	NC	NC	>6.5E-1	<input type="checkbox"/>	NA
0-00-0	TPH - Arom >C21-C35	1.0E-5	X	>6.6E-3	>6.6E-3	NC	X	NC	NC	NC	NC	>6.6E-3	<input type="checkbox"/>	NA

">" indicates risk-based target concentration greater than constituent solubility value. NA = Not applicable. NC = Not calculated.



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

SITE PLAN AND CROSS SECTION LOCATIONS
Tosco (76) Service Station No. 3135
845 66th Avenue
Oakland, California

FIGURE

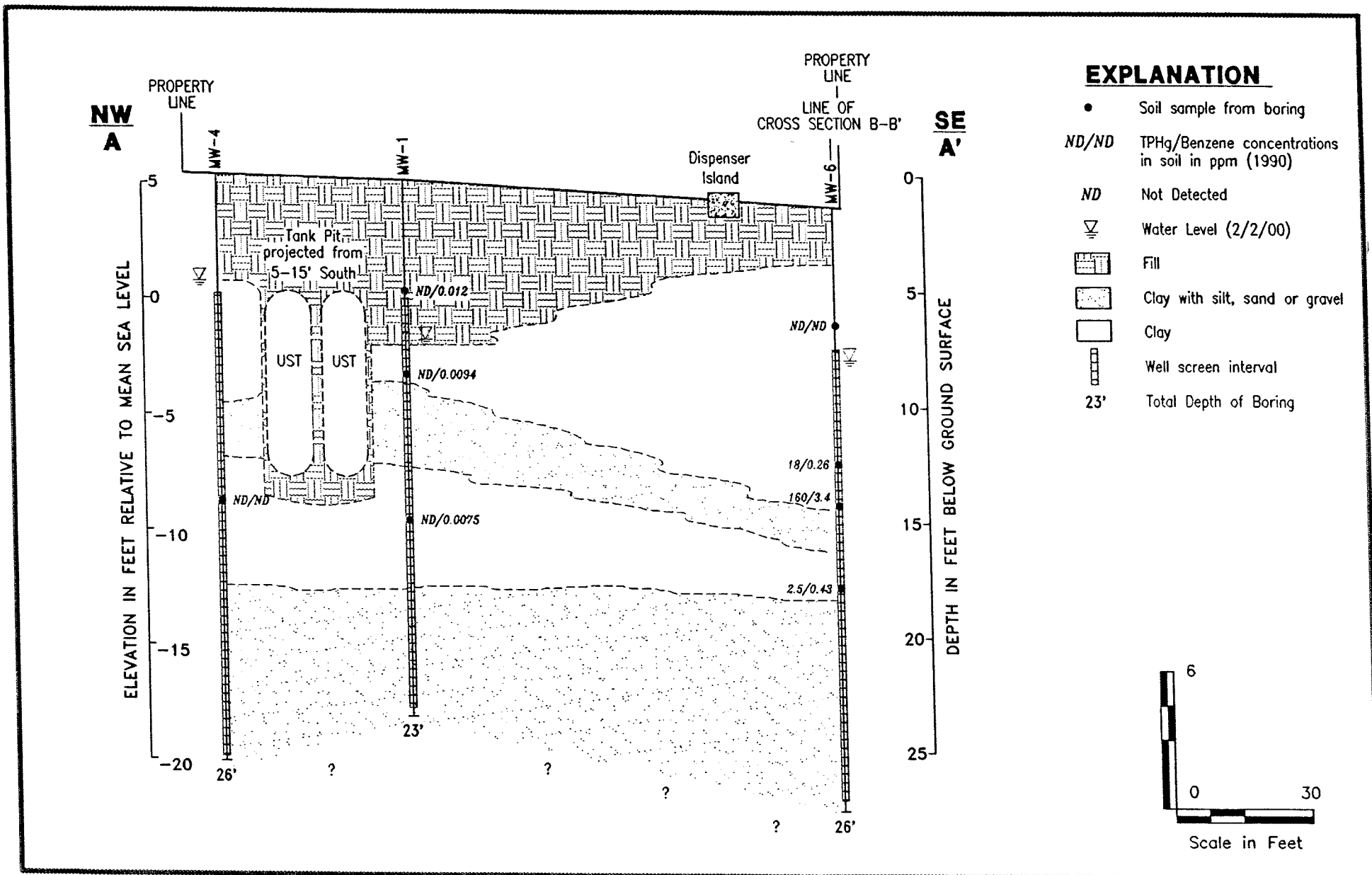
2

JOB NUMBER
140070.03

REVIEWED BY

DATE
03/00

REVISED DATE



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

CROSS SECTION A-A'
Tosco (76) Service Station No. 3135
845 66th Avenue
Oakland, California

FIGURE

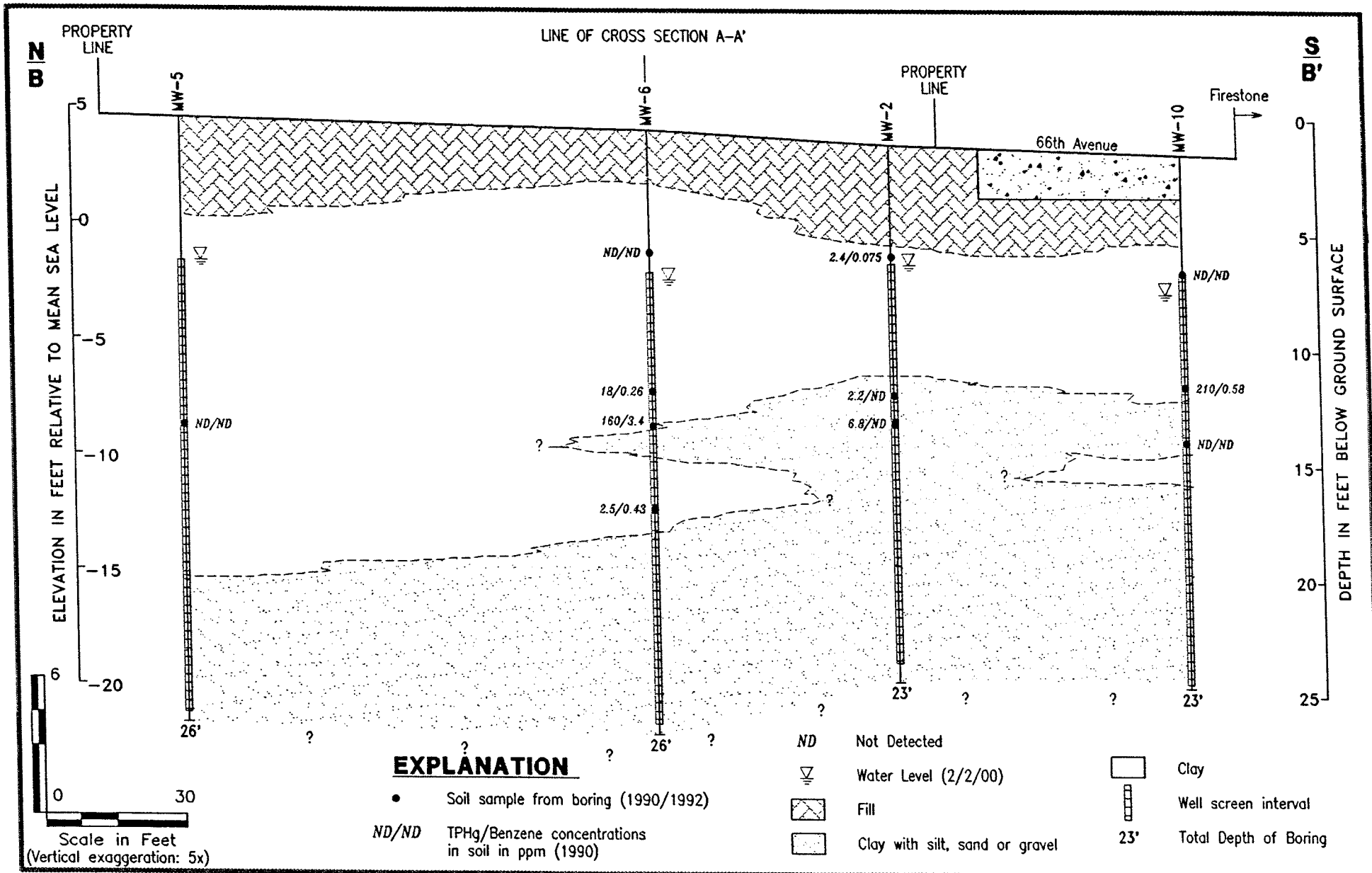
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JOB NUMBER
140070.03

REVIEWED BY

DATE
02/00

REVISED DATE



Gertler - Ryan Inc.

6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

CROSS SECTION B-B'
Tosco (76) Service Station No. 3135
845 66th Avenue
Oakland, California

FIGURE

4

JOB NUMBER
140070.03

REVIEWED BY

DATE
02/00

REVISED DATE

B O R I N G L O G

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By D.L. <i>DRB</i>
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 4/26/90
Boring No. MW1	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		A. C. Pavement Clay, sand and gravel: fill.
50-5 3/4"		5	GC	Fill: Clayey gravel with sand, gravel to 1 1/2" diameter, dense, moist, black. Gravel to 4" diameter, minor debris. Clayey gravel with sand, gravel to 1/2" diameter, medium dense, moist, dark olive.
5/7/7			MH	—BASE OF FILL— Clayey silt, 5-10% coarse sand, stiff, moist, black.
11/15/19		10	GC/ SC	Clayey gravel with sand, gravel to 5/8" diameter, 15-20% clay, dense, moist, dark greenish gray, occasionally grading to clayey sand, with gravel, dark yellowish brown below 10.5 feet.
13/16/20			SC	Clayey sand, with silt, predominantly fine-grained, very dense, moist, olive gray and dark gray, mottled.
7/10/14	▼	15	SM	Silty sand, trace clay, sand is fine-grained, medium dense, wet, dark olive gray.
15/30/21		20	GP- GC	Poorly graded gravel with clay and sand, very dense, wet, olive brown.

B O R I N G L O G

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By D.L. <i>DLB</i>
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 4/26/90
Boring No. MW1	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
			GP- GC	Poorly graded gravel with clay and sand, very dense, wet, olive brown.
		25		
		30		
		35		
		40		
				TOTAL DEPTH: 23'

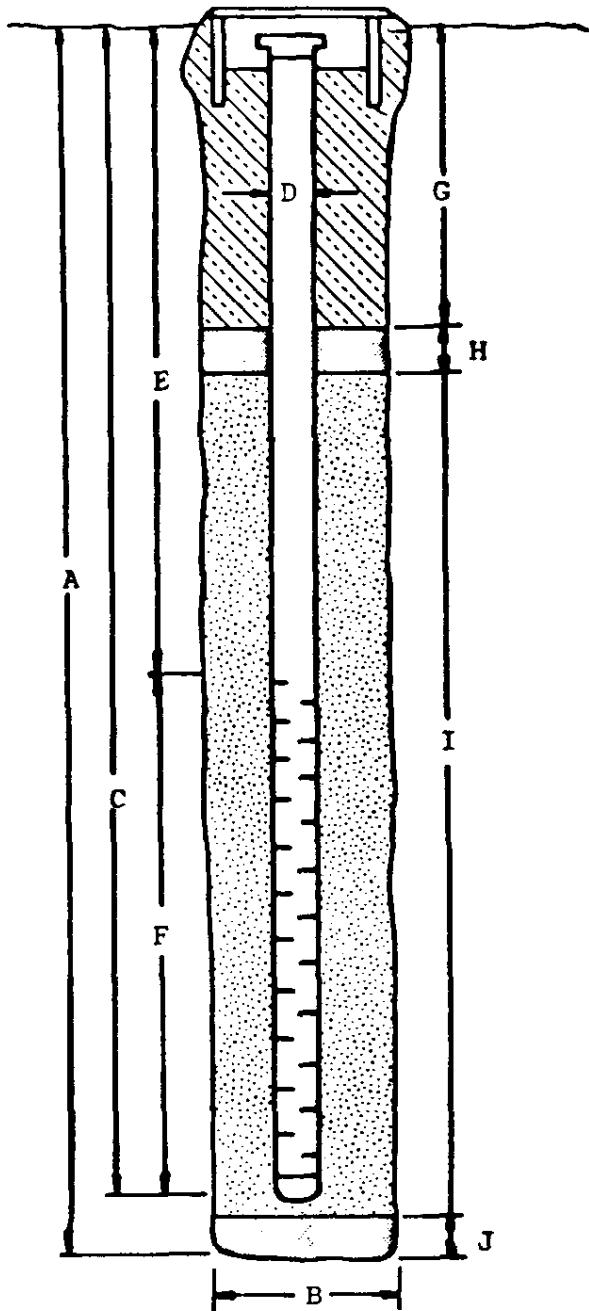
W E L L C O M P L E T I O N D I A G R A M

PROJECT NAME: Unocal - Oakland - 66th Avenue BORING/WELL NO. MW1

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: 90096

Flush-mounted Well Cover



A. Total Depth: 23'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem
Auger

C. Casing Length: 23'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 5'

F. Perforated Length: 18'

Perforation Type: Machined
Slot

Perforation Size: 0.020"

G. Surface Seal: 2'

Seal Material: Concrete

H. Seal: 2'

Seal Material: Bentonite

I. Gravel Pack: 19'

Pack Material: RMC Lonestar
Sand

Size: #3

J. Bottom Seal: None

Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

B O R I N G L O G

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By D.L. <i>DLB</i>
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 4/27/90
Boring No. MW2	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		A. C. Pavement Sand and gravel: fill.
			GC	Fill: Clayey gravel with sand, medium dense, moist, black, with bricks.
6/7/8		5	CH	Clay, 5-10% sand and gravel to 1/4" diameter, trace silt, stiff, moist, black. Base of Fill?
4/7/10			CL/ CH	Clay with silt, 5-10% fine-grained sand, stiff, moist, dark greenish gray and olive, mottled.
7/14/20		10	GC	Clayey gravel with sand, gravel to 1/2" diameter, dense, moist, olive and olive brown, mottled.
9/20/18	▼		SP- SM	Poorly graded sand with silt, sand is medium grained, dense, wet, olive brown.
7/14/21		15	GC/ SC	Clayey gravel with sand, gravel to 1" diameter, 15-20% clay, occasionally grading to clayey sand with gravel, dense, wet, olive brown.
			GW	Well graded gravel with sand, trace- 10% fines, gravel to 1-1/2" diameter, dense, wet, olive brown.
		20		

B O R I N G L O G

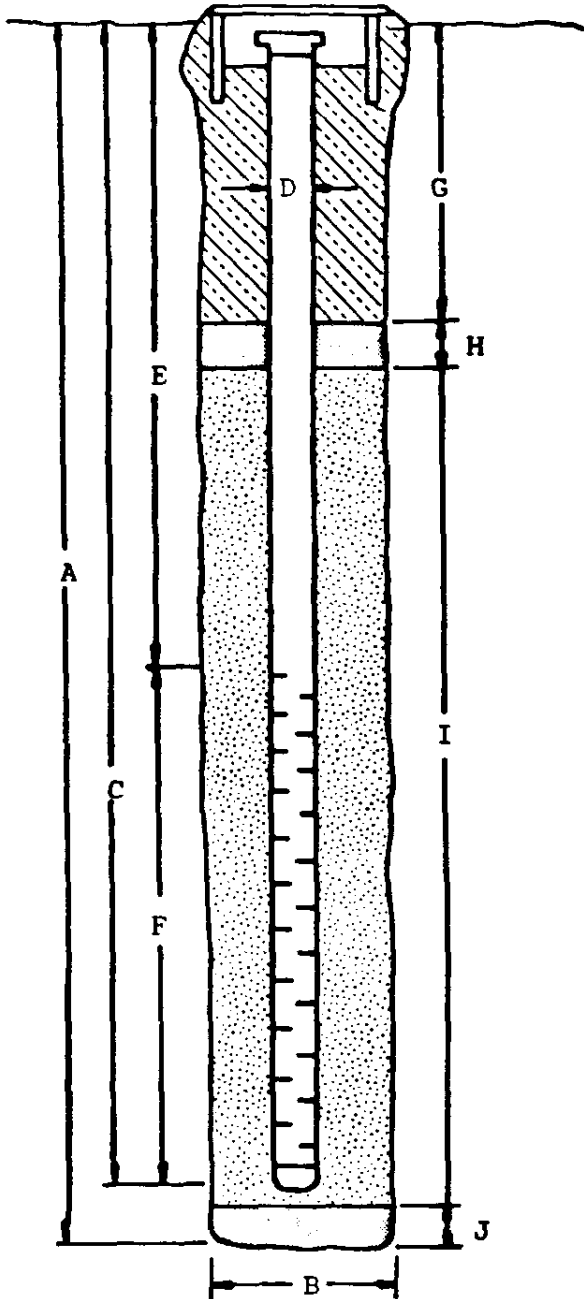
Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By D.L. <i>DLB</i>
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 4/27/90
Boring No. MW2	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
			GW	Well graded gravel with sand, dense, wet, olive brown.
		25		
		30		
		35		
		40		
				TOTAL DEPTH: 23'

W E L L C O M P L E T I O N D I A G R A M

PROJECT NAME: Unocal - Oakland - 66th Avenue BORING/WELL NO. MW2
 PROJECT NUMBER: KEI-P88-1203
 WELL PERMIT NO.: 90096

Flush-mounted Well Cover




- A. Total Depth: 23'
- B. Boring Diameter*: 9"
 Drilling Method: Hollow Stem Auger
- C. Casing Length: 23'
 Material: Schedule 40 PVC
- D. Casing Diameter: OD = 2.375"
ID = 2.067"
- E. Depth to Perforations: 5'
- F. Perforated Length: 18'
 Perforation Type: Machined Slot
 Perforation Size: 0.020"
- G. Surface Seal: 2'
 Seal Material: Concrete
- H. Seal: 2'
 Seal Material: Bentonite
- I. Gravel Pack: 21'
 Pack Material: CISCO White Silica Sand
 Size: 8/20
- J. Bottom Seal: None
 Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

B O R I N G L O G

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By D.L. <i>DB</i>
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 4/26/90
Boring No. MW3	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		A. C. Pavement Clay, sand and gravel, black, with bricks: fill.
4/4/7		5	GC	Fill: Clayey gravel with sand, firm to stiff, moist to very moist, black. Base of Fill?
			SC	Clayey sand, trace gravel, sand is coarse-to fine-grained, 30-35% clay, gravel to 1/8" diameter, medium dense, moist, dark yellowish brown.
9/12/12		10	SM	Silty sand, 5-10% clay, sand is medium to fine-grained, medium dense, very moist to wet, dark grayish brown and yellowish brown, streaked.
7/30/31		15	GP- GC	Poorly graded gravel with clay and sand, gravel to 3/4" diameter, very dense, wet, dark yellowish brown.
50-5 1/2"		20	GW	Well graded gravel with sand, 5% fines, gravel to 1-3/4" diameter, very dense, wet, dark yellowish brown

B O R I N G L O G

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By D.L. <i>DLB</i>
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 4/26/90
Boring No. MW3	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
			GW	Well graded gravel with sand, very dense, wet, dark yellowish brown.
		25		
		30		
		35		
		40		
				TOTAL DEPTH: 22'

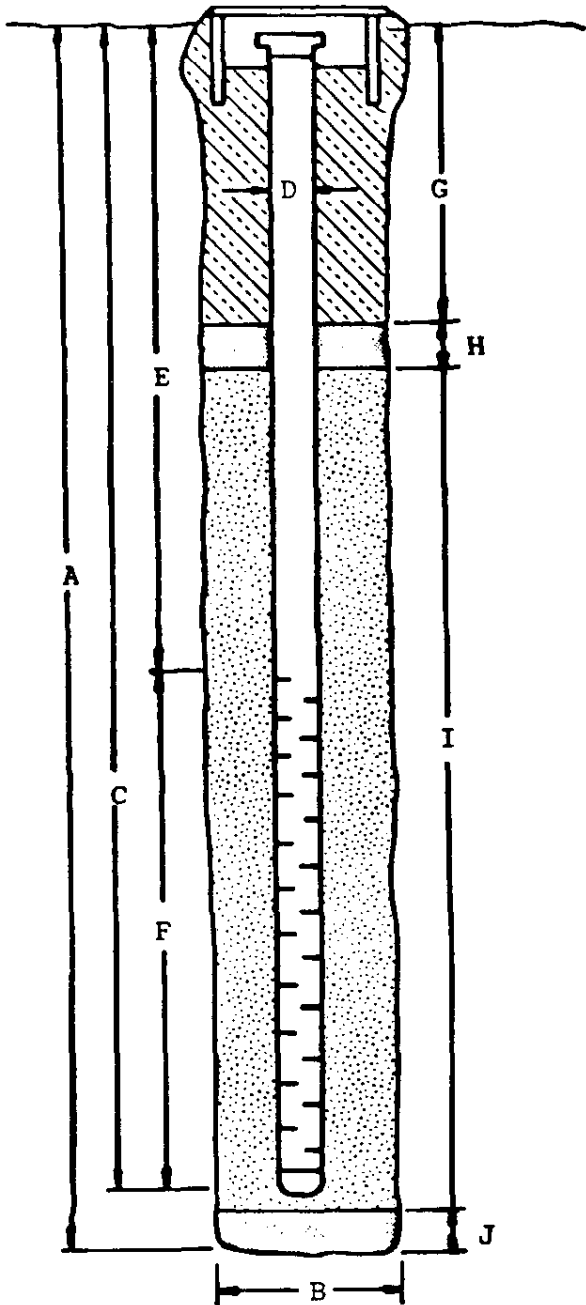
W E L L C O M P L E T I O N D I A G R A M

PROJECT NAME: Unocal - Oakland - 66th Avenue BORING/WELL NO. MW3

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: 90096

Flush-mounted Well Cover



A. Total Depth: 22'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem
Auger

C. Casing Length: 22'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"
ID = 2.067"

E. Depth to Perforations: 4'

F. Perforated Length: 18'

Perforation Type: Machined
Slot
Perforation Size: 0.020"

G. Surface Seal: 1.5'

Seal Material: Concrete

H. Seal: 1.5'

Seal Material: Bentonite

I. Gravel Pack: 19'


Pack Material: RMC Lonestar
Sand
Size: #3

J. Bottom Seal: None


Seal Material: N/A


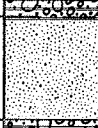

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

B O R I N G L O G

Project No. KEI-P88-1203		Boring & Casing Diameter 9" 2"		Logged By W.W. DRB
Project Name Unocal Oakland - 66th Ave.		Well Head Elevation N/A		Date Drilled 8/14/90
Boring No. MW4		Drilling Method	Hollow-stem Auger	Drilling Company EGI
Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		A.C. Pavement over clay, sand and gravel fill, trace cobbles to 5" dia. moist, dense, orangish brown.
2/3/6		5	CL	Silty clay, trace to 10% gravel to 1/2" dia., 5% sand, moist to very moist, stiff, gray with slight mottling of greenish gray, trace organic matter.
9/15/24		10	GC	Clayey gravel, trace sand, olive green grading to orange, subangular gravel to 1/2" dia., moist, dense.
9/15/18			SC	Clayey sand, sand is fine-grained, moist, olive green, dense, grading to orangish brown with trace organic matter.
			ML	
8/11/14		15	SM	Clayey silt, trace organic matter, orangish brown mottled with olive gray, very moist, very stiff.
			GW	Silty sand trace clay, sand is fine-grained, medium dense, wet, dark olive gray.
6/14/15		20	GC	Well graded gravel with sand, trace to 10% fines, gravel to 1-1/4" dia., medium dense, wet, dark yellowish brown.
			GC	Clayey gravel with sand, subangular

B O R I N G L O G

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By W.W. 
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 8/14/90
Boring No. MW4	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
15/32/32			GC 	gravel to 1-1/2" dia., sand wet, medium dense to dense, dark yellowish brown.
			SW 	Sand, well stratified, fining upward from very coarse-grained to very fine grained, saturated, dense, gray.
		25	GC 	Clayey gravel with sand, gravel to 1-1/2" dia., wet, very dense, orangish brown.
		30		
		35		
		40		
				TOTAL DEPTH: 26'

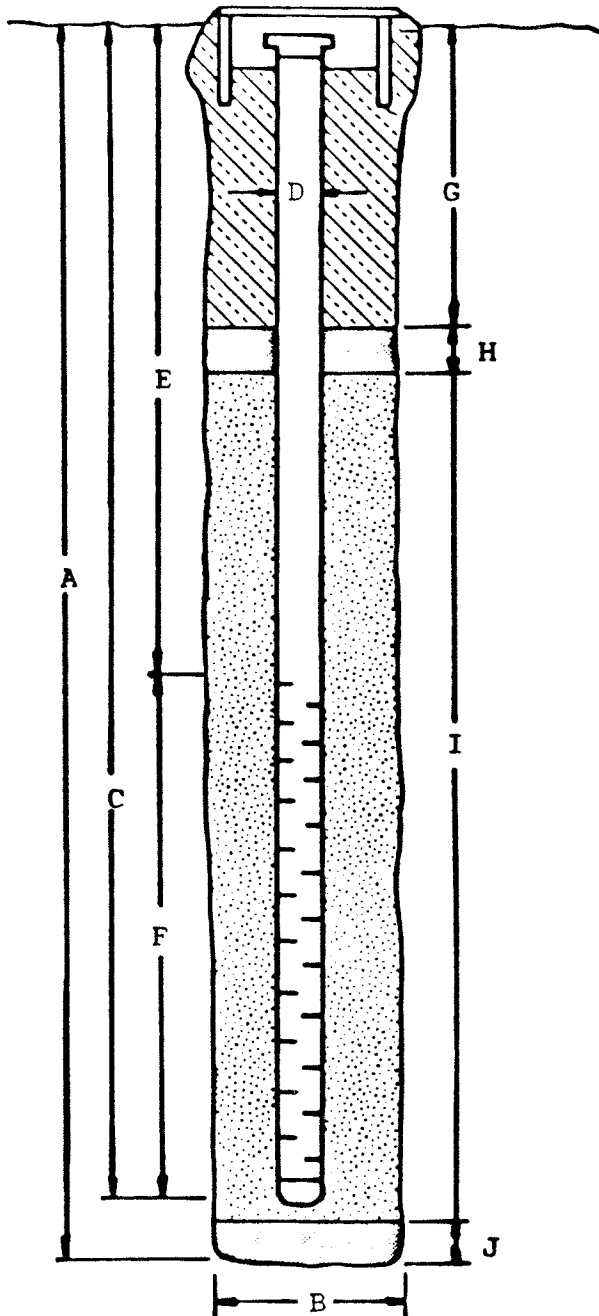
W E L L C O M P L E T I O N D I A G R A M

PROJECT NAME: Unocal - Oakland - 845 66th Ave. BORING/WELL NO. MW4

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: _____

Flush-mounted Well Cover




- A. Total Depth: 26'
- B. Boring Diameter*: 9"
Drilling Method: Hollow Stem Auger
- C. Casing Length: 25'
Material: Schedule 40 PVC
- D. Casing Diameter: OD = 2.375"
ID = 2.067"
- E. Depth to Perforations: 5'
- F. Perforated Length: 20'
Perforation Type: Machined Slot
Perforation Size: 0.020"
- G. Surface Seal: 3'
Seal Material: Concrete
- H. Seal: 1'
Seal Material: Bentonite
- I. Gravel Pack: 22'
Pack Material: RMC Lonestar Sand
Size: #3
- J. Bottom Seal: None
Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.


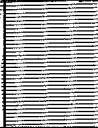
B O R I N G L O G

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By W.W. <i>DRB</i>
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 8/14/90
Boring No. MW5	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		A.C. Pavement underlain by clay, sand and gravel fill, orangish brown.
			GC	Clayey gravel with sand, gravel to 3/4" dia., trace organic matter, trace debris, dense, moist, black. <u>Base of Fill Materials</u>
4/5/6		5	CL	Clay, trace to 10% fine gravel to 1/4" dia., trace to 5% fine-grained sand, moist, stiff, olive gray grading to olive brown.
7/9/11		10	SC	Clayey sand with gravel, trace organic matter, fine gravel to 1/4" dia., sand is predominantly coarse-grained with 5% fine-grained, trace caliche, moist, medium dense, orangish brown, trace olive gray.
12/15/18			ML	Clayey silt, trace organic matter, moist, very stiff, dark yellowish brown, grading to silt with fine-grained sand, orangish brown with bluish green mottling.
13/15/13		15	SC	Clayey sand, fine-to medium-grained, trace gravel to 3/4" dia., saturated, medium dense, olive brown.
			ML	Clayey silt, trace to 5% fine-grained sand, very moist, medium dense, orangish brown and olive gray.
		20	GC	Clayey gravel with sand.

B O R I N G L O G

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By W.W. <i>DRB</i>
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 8/14/90
Boring No. MW5	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
7/14/17			 GC	Clayey gravel with sand, subangular to rounded gravel to 1-1/4" dia., saturated, dense, gray and olive brown.
		25	 CL	Clay, trace to 5% fine-grained sand, moist, very stiff, dark yellowish brown.
		30		
		35		
		40		
				TOTAL DEPTH: 26'

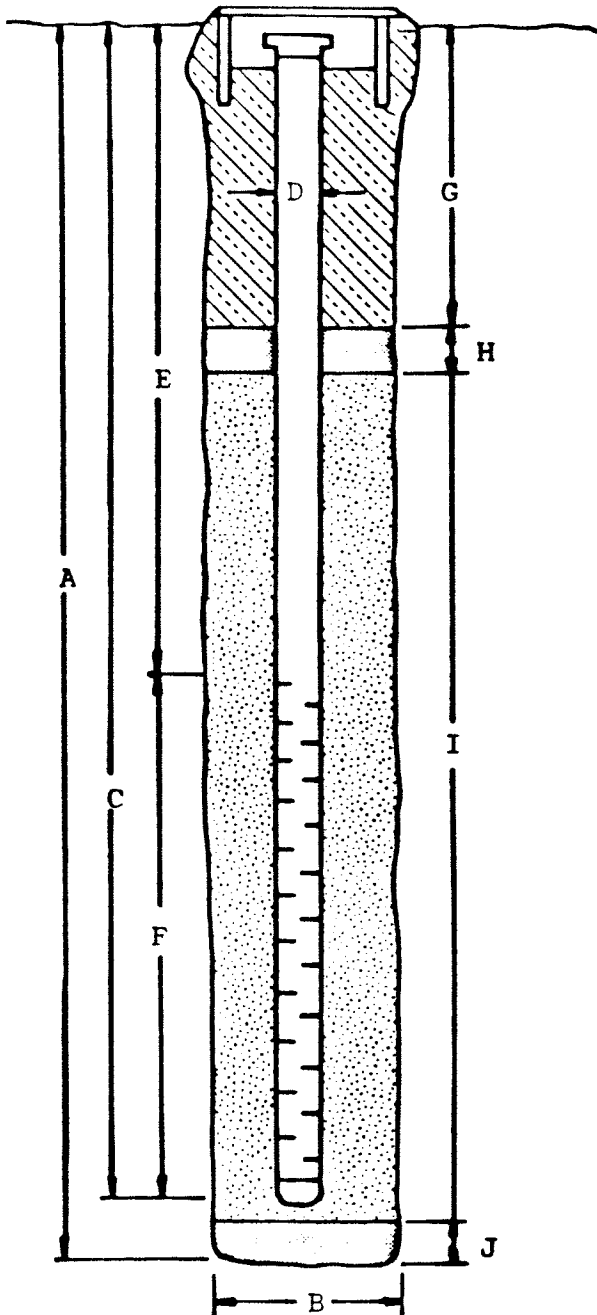
W E L L C O M P L E T I O N D I A G R A M

PROJECT NAME: Unocal - Oakland - 845 66th Ave. BORING/WELL NO. MW5

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: _____

Flush-mounted Well Cover



A. Total Depth: 26'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 26'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 6'

F. Perforated Length: 20'

Perforation Type: Machined Slot

Perforation Size: 0.020"

G. Surface Seal: 4'

Seal Material: Concrete

H. Seal: 1'

Seal Material: Bentonite

I. Gravel Pack: 21'

Pack Material: RMC Lonestar Sand

Size: #3

J. Bottom Seal: None

Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

B O R I N G L O G

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By W.W. <i>DRB</i>
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 8/14/90
Boring No. MW6	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		A.C. Pavement underlain by clay, sand and gravel: fill.
4/4/7		5	CL	Silty clay, trace gravel to 1/2" dia., trace organic matter, trace caliche, moist, stiff, olive gray, traces of bluish green clay lenses.
3/4/6		10		Silty clay, trace caliche, moist, stiff, trace fine-grained sand, bluish gray with slight dark yellowish brown mottling.
8/11/11				Silty clay, as above, dark yellowish brown with slight blue gray mottling, very moist, very stiff.
			GC	Clayey gravel with sand, subrounded gravel to 1/2" dia., very moist, medium dense, orangish brown.
8/14/21		15	ML	Clayey silt, trace organic matter, moist, hard, orangish brown mottled with olive brown grading to bluish gray.
12/17/13	▼		GC	Clayey gravel with sand, gravel to 3/4" dia., saturated, dense, bluish gray with orangish brown below 18 feet.
		20		

B O R I N G L O G

Project No. KEI-P88-1203	Boring & Casing Diameter 9" 2"	Logged By W.W. <i>DRB</i>
Project Name Unocal Oakland - 66th Ave.	Well Head Elevation N/A	Date Drilled 8/14/90
Boring No. MW6	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
8/15/48			GC	Clayey gravel, as above.
			SW	Sand, well stratified, fining upward sequence, from very-coarse-grained to very fine-grained, saturated, medium dense, gray.
			GC	Clayey gravel with sand, gravel to 3/4" dia., saturated, very dense, orangish brown.
				TOTAL DEPTH: 26'

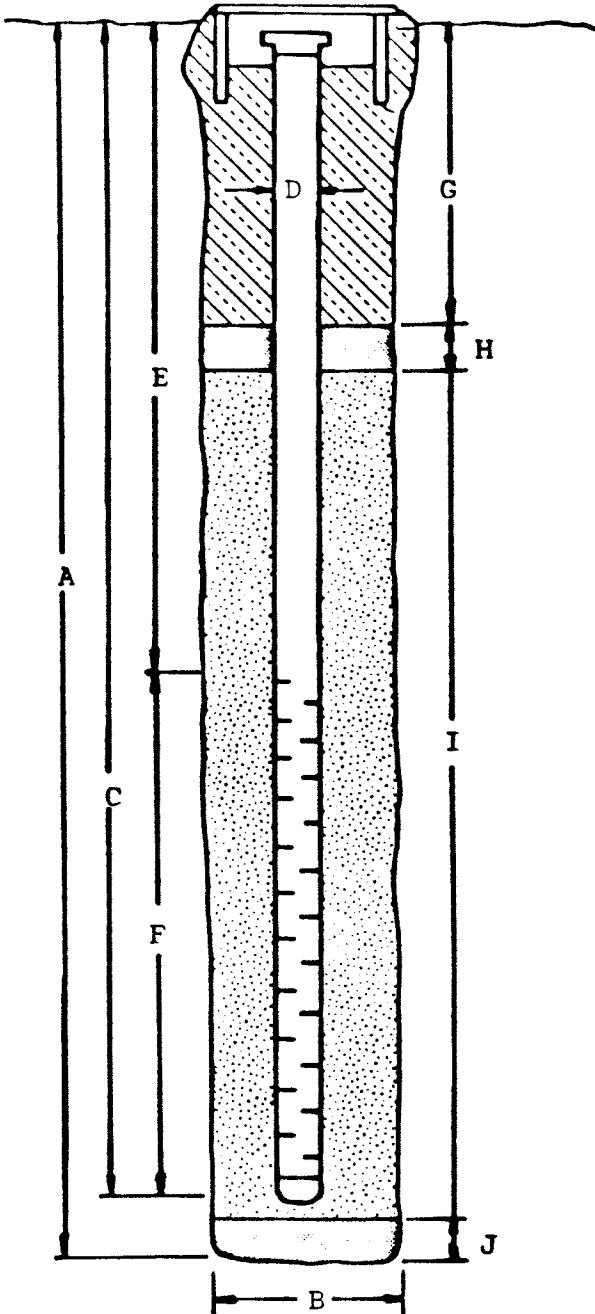
W E L L C O M P L E T I O N D I A G R A M

PROJECT NAME: Unocal - Oakland - 845 66th Ave. BORING/WELL NO. MW6

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: _____

Flush-mounted Well Cover



- A. Total Depth: 26'
- B. Boring Diameter*: 9"
Drilling Method: Hollow Stem Auger
- C. Casing Length: 26'
Material: Schedule 40 PVC
- D. Casing Diameter: OD = 2.375"
ID = 2.067"
- E. Depth to Perforations: 6'
- F. Perforated Length: 20'
Machined Perforation Type: Slot
Perforation Size: 0.020"
- G. Surface Seal: 4'
Seal Material: Concrete
- H. Seal: 1'
Seal Material: Bentonite
- I. Gravel Pack: 21'
Pack Material: RMC Lonestar Sand
Size: #3
- J. Bottom Seal: None
Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

BORING LOG

Project No. KEI-P90-0209	Boring Diameter 8.5"	Logged By D.L.
	Casing Diameter 2"	
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	Well Cover Elevation	Date Drilled 4/28/93
Boring No. MW7	Drilling Method Hollow-stem Auger	Drilling Company Woodward Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		Asphalt pavement over silt, sand, and gravel base.
			CL	Sandy clay, estimated 10-15% gravel, stiff, moist, light olive brown (fill).
			ML	Gravelly silt with sand, trace clay, stiff, moist to wet, very dark grayish brown, grades to black (fill?).
3/6/8/11	▼	5	GM	Silty gravel with sand, trace clay, very stiff, moist to wet, black (fill?).
			CL	Silty clay, estimated at 5-10% fine-grained sand, firm to stiff, moist, olive brown and dark greenish gray, mottled.
3/4/5/9		10	SM	Silty sand, fine-grained, estimated at 30-40% silt, dense, very moist, cohesive, dark olive brown and dark greenish gray, mottled.
			GM	Silty gravel with sand, estimated at 15-20% silt, trace clay, dense to very dense, wet, dark olive gray.
7/16/28/45		15	GM	Silty gravel with sand, estimated at 15% silt, angular to subrounded gravel, very dense, saturated, dark yellowish brown.
		20		TOTAL DEPTH: 20'
22/30/50				

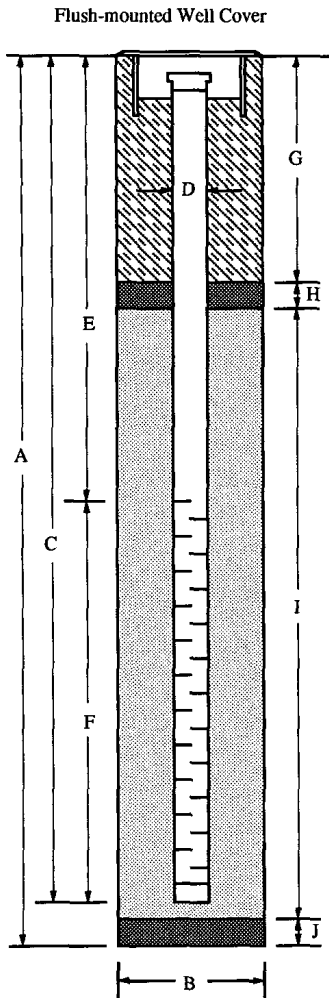
WELL CONSTRUCTION DIAGRAM

PROJECT NAME: Unocal #3135, 845 - 66th Ave., Oakland

WELL NO.: MW7

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: ACFC & WCD #93158



- A. Total Depth : 20'
- B. Boring Diameter: 8.5"
- Drilling Method: Hollow Stem Auger
- C. Casing Length: 20'
- Material: Schedule 40 PVC
- D. Casing Diameter: OD = 2.375"
- ID = 2.067"
- E. Depth to Perforations: 3.5'
- F. Perforated Length: 16.5'
- Perforation Type: Machined Slot
- Perforation Size: 0.010"
- G. Surface Seal: 2'
- Seal Material: Neat Cement
- H. Seal: 1'
- Seal Material: Bentonite
- I. Filter Pack: 17'
- Pack Material: RMC Lonestar Sand
- Size: #2/12
- J. Bottom Seal: None
- Seal Material: N/A

BORING LOG

Project No. KEI-P88-1203	Boring Diameter 9"	Logged By <i>JGG</i> W.W. <i>CEG 1633</i>
	Casing Diameter 2"	
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	Well Cover Elevation	Date Drilled 9/29/92
Boring No. MW8	Drilling Method Hollow-stem Auger	Drilling Company Woodward Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		10 inches of concrete over sand and gravel base.
5/10/11		5		Silty gravel with sand and clay, estimated at 15-20% silt, 10-15% clay, and 10-15% sand, subangular gravel to 1 inch in diameter, medium dense, moist, yellowish brown (10 YR 5/4), (fill).
			ML	Clayey silt, estimated at 20% clay and 10-15% sand, stiff to very stiff, moist, black (10YR 2/1).
4/6/9		10	CL	Silty clay, estimated at 10-15% silt and 5% sand, stiff, moist, brown (10YR 5/3) with greenish gray (5G 5/1) mottling around common pores.
7/11/21	▼			Sandy silt, estimated at 20% fine-grained sand and 5% clay, very stiff, very moist to saturated, greenish gray (5GY 5/1).
6/14/27		15	ML	Sandy silt as above, estimated at 15-20% sand, 5-10% gravel, and 5% clay, gravel to 3/4 inch in diameter, hard, saturated, greenish gray (5GY 5/1).
9/17/27		20	GM	Sandy gravel with silt, estimated at 20% sand and 15% silt, trace clay, subangular gravel to 1-3/4 inches in diameter, dense, saturated, yellowish brown (10YR 5/4) with greenish gray (5GY 5/1) mottling.
12/			GW	

BORING LOG

Project No. KEI-P88-1203	Boring Diameter 9"	Logged By JGG W.W. CEG 1633
	Casing Diameter 2"	
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	Well Cover Elevation	Date Drilled 9/29/92
Boring No. MW8	Drilling Method Hollow-stem Auger	Drilling Company Woodward Drilling

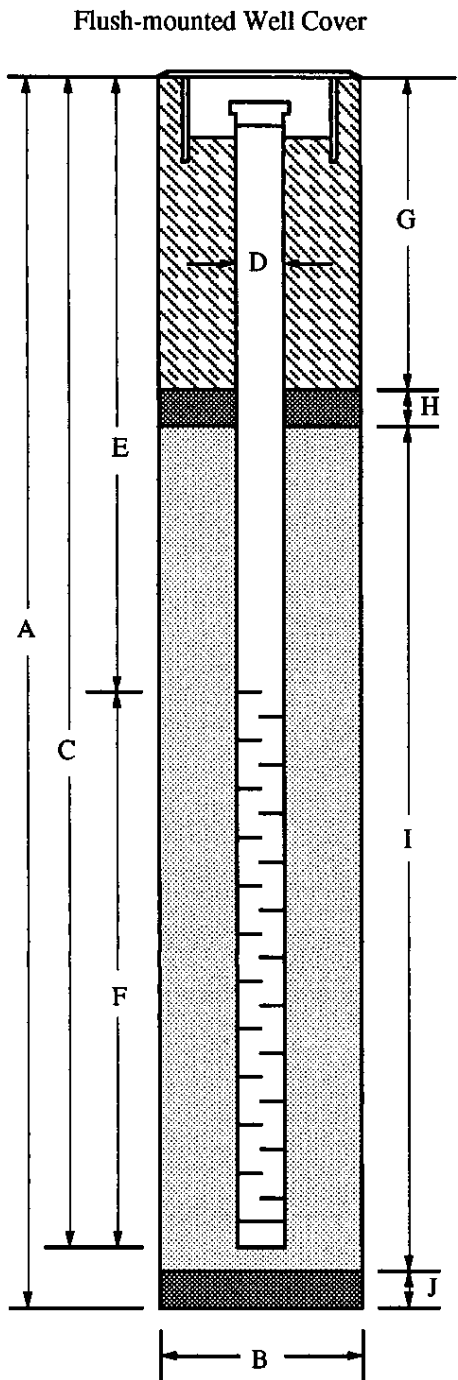
Penetration blows/6"	G. W. level	Depth (feet) Samples	Stratigraphy USCS	Description
16/26			GW	Sandy gravel, trace silt, subangular gravel to 2 inches in diameter, dense, saturated, yellowish brown (10YR 5/4) with greenish gray (5GY 5/1) mottling. <div style="text-align: center; border: 1px solid black; padding: 5px;">TOTAL DEPTH: 23'</div>

WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal #3135, 845 - 66th Ave., Oakland WELL NO. MW8

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: 92354



- A. Total Depth : 23'
- B. Boring Diameter* : 9"
- Drilling Method: Hollow Stem Auger
- C. Casing Length: 23'
- Material: Schedule 40 PVC
- D. Casing Diameter: OD = 2.375"
- ID = 2.067"
- E. Depth to Perforations: 6'
- F. Perforated Length: 17'
- Perforation Type: Machined Slot
- Perforation Size: 0.010"
- G. Surface Seal: 4'
- Seal Material: Neat Cement
- H. Seal: 1'
- Seal Material: Bentonite
- I. Filter Pack: 18'
- Pack Material: RMC Lonestar Sand
- Size: 2/12
- J. Bottom Seal: None
- Seal Material: N/A

* Boring diameter can vary from 8-1/4" to 9" depending on bit wear.


BORING LOG

Project No. KEI-P88-1203	Boring Diameter 9"	Logged By <i>JGG</i> W.W. <i>CEG 1633</i>
	Casing Diameter 2"	
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	Well Cover Elevation	Date Drilled 9/28/92
Boring No. MW9	Drilling Method Hollow-stem Auger	Drilling Company Woodward Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		10 inches of concrete pavement over sand and gravel base.
7/8/3		5	GW-GC	Sandy gravel with clay, estimated at 15% clay and 10% silt, well graded gravel to 1-1/2 inches in diameter, medium dense, moist, yellowish brown (10YR 5/6), (fill).
4/6/7		10	ML	Clayey silt, estimated at 15% clay and 5-10% sand, silt is fine-grained, stiff, moist, black (5Y 2.5/1). Clayey silt, estimated at 20% clay and trace fine-grained sand, stiff, moist to very moist, yellowish brown (10YR 5/4), trace pores.
4/6/9	▼	15		Clayey silt as above, estimated at 5-10% sand, very moist to saturated below 13 feet.
5/8/11		15	SM	Clayey silt as above, estimated at 10% sand, trace gravel, saturated, yellowish brown (10YR)
12/17/24		20	GW	Silty sand, estimated at 15% silt, trace clay, trace gravel to 1/2 inch in diameter, sand is predominantly fine-grained, medium dense, saturated, light yellowish brown (10YR 6/4).
14				Well graded gravel with sand, estimated at 5% silt, subrounded gravel to 2-1/2 inches in diameter, dense, saturated, light yellowish brown (10YR 6/4).

BORING LOG

Project No. KEI-P88-1203	Boring Diameter 9" Casing Diameter 2"	Logged By JGG W.W. CEG 1633
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	Well Cover Elevation	Date Drilled 9/28/92
Boring No. MW9	Drilling Method Hollow-stem Auger	Drilling Company Woodward Drilling

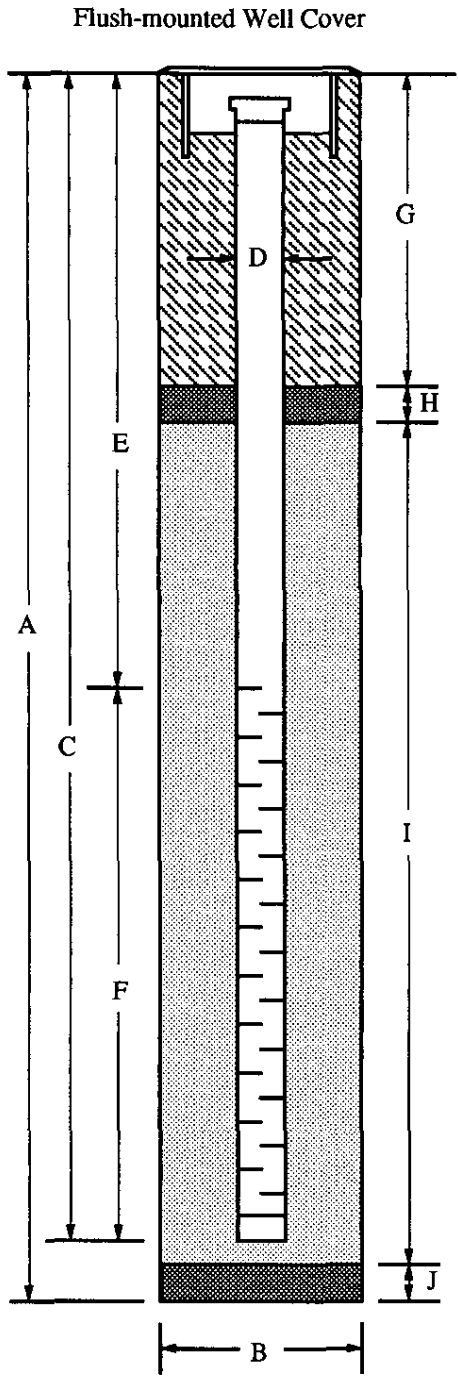
Penetration blows/6"	G. W. level	Depth (feet) Samples	Stratigraphy USCS	Description
15/15		GW GW-GC		Well graded sand and gravel with clay, estimated at 15-20% sand, 10-15% clay, and 5% silt, dense, saturated, light yellowish brown (10YR 6/4). TOTAL DEPTH: 23'
		25		
		30		
		35		
		40		

WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal #3135, 845 - 66th Ave., Oakland WELL NO. MW9

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: 92354



- A. Total Depth : 23'
- B. Boring Diameter* : 9"
- Drilling Method: Hollow Stem Auger
- C. Casing Length: 23'
- Material: Schedule 40 PVC
- D. Casing Diameter: OD = 2.375"
ID = 2.067"
- E. Depth to Perforations: 6'
- F. Perforated Length: 17'
- Perforation Type: Machined Slot
- Perforation Size: 0.010"
- G. Surface Seal: 4'
- Seal Material: Neat Cement
- H. Seal: 1'
- Seal Material: Bentonite
- I. Filter Pack: 18'
- Pack Material: RMC Lonestar Sand
- Size: 2/12
- J. Bottom Seal: None
- Seal Material: N/A

* Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

BORING LOG

Project No. KEI-P88-1203	Boring Diameter 9"	Logged By JGG W.W. CEG 1633
	Casing Diameter 2"	
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	Well Cover Elevation	Date Drilled 9/28/92
Boring No. MW10	Drilling Method Hollow-stem Auger	Drilling Company Woodward Drilling

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		8 inches of asphalt pavement over sand and gravel base.
			GM	Silty gravel, traces of brick and concrete, moist, yellowish brown (10YR 5/4), (fill).
4/4/5		5	CL-ML	Silty clay, estimated at 30% silt and 5-10% sand, stiff, moist, black (5Y 2.5/1).
			CL	Clay, estimated at 5% silt and 5% sand, stiff, moist, olive gray (5Y 5/2), trace root pores and caliche.
		10	ML	Clayey silt, estimated at 30% clay, very stiff, moist, greenish gray (5GY 5/1), trace pores.
7/10/15			SM	Silty sand, estimated at 30% silt, sand is fine-grained, medium dense, <u>very moist, greenish gray (5GY 5/1), trace pores.</u>
	▼		GW	Sandy gravel, estimated at 5% silt, trace clay, gravel is subangular to 1 inch in diameter, dense, very moist, greenish gray (5GY 5/1).
12/19/21			ML	Silt, estimated at 10-15% fine-grained sand, trace clay, hard, very moist to saturated, greenish gray (5GY 5/1).
		15	SM	Silty sand, estimated at 15% silt, sand is fine grained, medium dense, saturated, yellowish brown (10YR 5/4).
4/7/11				
		20	GW	Sandy gravel, estimated at 5% silt, sand and gravel well graded to 1-3/4 inches in diameter, dense, saturated, yellowish brown (10YR 5/4).
8/15/21				

BORING LOG

Project No. KEI-P88-1203	Boring Diameter 9" Casing Diameter 2"	Logged By JGG W.W. LEG1633
Project Name Unocal S/S #3135 845 - 66th Ave., Oakland	Well Cover Elevation	Date Drilled 9/28/92
Boring No. MW10	Drilling Method Hollow-stem Auger	Drilling Company Woodward Drilling

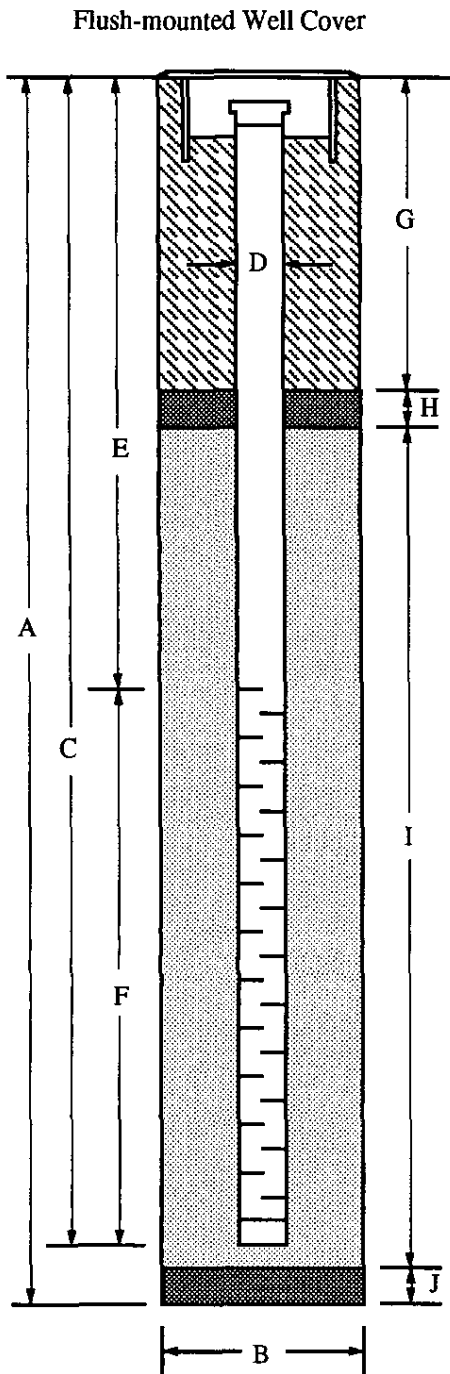
Penetration blows/6"	G. W. level	Depth (feet) Samples	Stratigraphy USCS	Description
			GW	Well graded sandy gravel, estimated at 5-10% clay and 5% silt, dense, saturated, yellowish brown (10YR 5/4). <p style="text-align: center;">TOTAL DEPTH: 23'</p>

WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal #3135, 845 - 66th Ave., Oakland WELL NO. MW10

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: 92354



- A. Total Depth : 23'
- B. Boring Diameter* : 9"
 Drilling Method: Hollow Stem Auger
- C. Casing Length: 23'
 Material: Schedule 40 PVC
- D. Casing Diameter: OD = 2.375"
ID = 2.067"
- E. Depth to Perforations: 5'
- F. Perforated Length: 18'
 Perforation Type: Machined Slot
 Perforation Size: 0.010"
- G. Surface Seal: 3'
 Seal Material: Neat Cement
- H. Seal: 1'
 Seal Material: Bentonite
- I. Filter Pack: 19'
 Pack Material: RMC Lonestar Sand
 Size: 2/12
- J. Bottom Seal: None
 Seal Material: N/A

* Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

Gettler-Ryan, Inc.

Log of Boring MW-11

PROJECT: *Tosco (76) Service Station No. 3135*

LOCATION: *845 66th Avenue, Oakland, California*

GR PROJECT NO.: *140070.03*

CASING ELEVATION: *2.63 Ft. (MSL)*

DATE STARTED: *07/25/01*

WL (ft. bgs): *5.5* DATE: *07/25/01* TIME: *10:45*

DATE FINISHED: *07/25/01*

WL (ft. bgs): *5.7* DATE: *08/10/01* TIME: *14:35*

DRILLING METHOD: *8 in. Hollow Stem Auger*

TOTAL DEPTH: *21.5 feet*

DRILLING COMPANY: *Woodward Drilling*

GEOLOGIST: *Jed Douglas*

