

ALAMEDA COUNTY  
**HEALTH CARE SERVICES**  
AGENCY  
ALEX BRISCOE, Director



ENVIRONMENTAL HEALTH DEPARTMENT  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

October 3, 2014

Coliseum Gas & Food Mart, Inc.  
c/o: Tom Huynh  
6535 San Leandro Street  
San Leandro, CA 94621  
[tomhuynh238@yahoo.com](mailto:tomhuynh238@yahoo.com)

ConocoPhillips  
Attn: Ed Ralston  
76 Broadway  
Sacramento, CA 95818  
[ed.c.ralston@66.com](mailto:ed.c.ralston@66.com)

Chevron Environmental Management Company  
Attn: Nicole M. Arceneaux  
6101 Bollinger Canyon Road, Room 5119  
San Ramon, CA 94583  
[nicole.arceneaux@chevron.com](mailto:nicole.arceneaux@chevron.com)

Subject: Case Closure for Fuel Leak Case No. RO0000408 and GeoTracker Global ID T0600101488, Unocal #3135, 845 66<sup>th</sup> Ave. (6535 San Leandro St.), Oakland, CA 94621

Dear Responsible Parties:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25296.10[g]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.waterboards.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

Due to residual contamination, the site was closed with Site Management Requirements that limit future land use to the current commercial land use as an active fueling station. Site Management Requirements are further described in Additional Information of the attached Case Closure Summary.

If you have any questions, please call Matthew Soby at (510) 567-6725. Thank you.

Sincerely,

A handwritten signature in blue ink that reads "Dilan Roe". The signature is written in a cursive, somewhat stylized font.

Dilan Roe, P.E.  
LOP and SCP Program Manager

Enclosures:    1.    Remedial Action Completion Certification  
                  2.    Case Closure Summary

Responsible Parties

RO0000408

October 3, 2014

Page 2

Cc w/enc.:

Leroy Griffin, Oakland Fire Department 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032  
(sent via e-mail to [lgriffin@oaklandnet.com](mailto:lgriffin@oaklandnet.com))

Gopakumar Nair, Oakland Public Works, 250 Frank H. Ogawa Plaza, Suite 4314, Oakland, CA 94612  
(sent via e-mail to [gnair@oaklandnet.com](mailto:gnair@oaklandnet.com))

Kwablah Attiogbe, Alameda County Public Works Agency, Environmental and Clean Water Program, 399  
Elmhurst Street, Hayward, CA 94544 (sent via e-mail to [kwablah@acpwa.org](mailto:kwablah@acpwa.org))

Sandra Rivera, Alameda County Planning Dept., Community Development Agency, 224 West Winton Ave,  
Room 111, Hayward, CA 94544 (sent via e-mail to [sandra.rivera@acgov.org](mailto:sandra.rivera@acgov.org))

Ken Minn, East Bay Municipal Utility District, PO Box 24055, Oakland, CA 94623  
(sent via e-mail to [kminn@ebmud.com](mailto:kminn@ebmud.com))

James Harms and Jessica Law, AECOM, 2020 "L" Street, Suite 400, Sacramento, CA 95811  
(sent via e-mail to: [james.harms@aecom.com](mailto:james.harms@aecom.com))

Case Worker (sent via electronic mail to [matthew.soby@acgov.org](mailto:matthew.soby@acgov.org))

e-File, GeoTracker

ALAMEDA COUNTY  
**HEALTH CARE SERVICES**  
AGENCY  
ALEX BRISCOE, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH  
OFFICE OF THE DIRECTOR  
1131 HARBOR BAY PARKWAY  
ALAMEDA, CA 94502  
(510) 567-6777  
FAX (510) 337-9135

**REMEDIAL ACTION COMPLETION CERTIFICATION**

October 3, 2014

Coliseum Gas & Food Mart, Inc.  
c/o: Tom Huynh  
6535 San Leandro Street  
San Leandro, CA 94621  
[tomhuynh238@yahoo.com](mailto:tomhuynh238@yahoo.com)

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Subject: Case Closure for Fuel Leak Case No. RO0000408 and GeoTracker Global ID T0600101488, Unocal #3135, 845 66<sup>th</sup> Ave. (6535 San Leandro St.), Oakland, CA 94621

Dear *Responsible Parties*:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

Please be aware that claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ariu Levi', written over a horizontal line.

Ariu Levi  
Director

# UST Case Closure Summary Form

## Agency Information

Date: October 03, 2014

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: 510-567-6725
Staff Person: Matthew Soby	Title: Hazardous Materials Technician

## Case Information

Facility Name: Unocal #3135		
Facility Address: 845 66 <sup>th</sup> Avenue (aka 6535 San Leandro St.), Oakland, CA 94621		
RB LUSTIS Case No: ----	Local Case No.: ----	LOP Case No.: RO0000408
URF Filing Date: ----	GeoTracker Global ID: T0600101488	
APN: 41-3916-7-4	Current Land Use: Active Fueling Station (76 ConocoPhillips)	
Responsible Party(s):	Address:	Phone:
<b>Coliseum Gas &amp; Food Mart Inc.</b> c/o: Tom Huynh	<b>6535 San Leandro St.</b> <b>San Leandro, CA 94621</b>	----
<b>Chevron Corp.</b> c/o: Nicole M. Arceneaux	<b>6101 Bollinger Canyon Rd.</b> <b>San Ramon, CA 94583</b>	----
<b>ConocoPhillips</b> c/o: Ed Ralston	<b>76 Broadway</b> <b>Sacramento, CA 95818</b>	----

## Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place/ Removed/Active	Date
1	10,000	Gasoline	Removed	December 1989
2	10,000	Gasoline	Removed	December 1989
3	280	Waste oil	Removed	December 1989

**Conceptual Site Model (Attachment 1, 2 pages)** (GeoTracker CSM Report)

**Closure Criteria Met (Attachment 2, 2 pages)** (GeoTracker LTCP Checklist)

**LTCP Groundwater Specific Criteria (Attachment 3, 2 pages)**

**LTCP Vapor Specific Criteria (Attachment 4, 2 pages)**

**LTCP Direct Contact and Outdoor Air Exposure Criteria (Attachment 5, 1 page)**

**Site Maps and Figures (Attachment 6, 23 pages)**

**Analytical Data (Attachment 7, 25 pages)**



# UST Case Closure Summary Form

## Soil Bore Logs, Well Diagrams (Attachment 8, 30 pages)

### Additional Information:

#### Water Supply Wells in Vicinity (2,000 feet radius utilized in drinking water areas):

- Zero California Department of Public Health (CDPH) wells are located within 1,500 feet of the site.
- Zero nearby impacted wells are reported by GeoTracker Impacted Wells Tool.
- GeoTracker Groundwater Ambient Monitoring & Assessment (GAMA) reports a seven well cluster (noted as USGS water supply wells) located approximately 1,500 feet south-southwest of the site, predominantly down- to cross-gradient.
- Alameda County Public Works Agency (ACPWA) reports one irrigation well (ID # 2S/3W 16L 4) owned by the 7-Up Bottling Company located 180 feet northwest, predominantly up-gradient.
- ACPWA reports two industrial wells located within a 2,000 foot radius: General Electric well (ID# 2S/3W 16G 1) located 1,600 feet northeast; K.D. Company well (ID# 2S/3W 16F 1) located 1,100 feet north. Both wells are located predominantly up-gradient.
- The 2012 Site Conceptual Model identified 92 wells (monitoring, geotechnical, and test wells) within 0.5 miles of the site.
- Sensitive receptor survey and well search report circa 2006 did not identify any municipal or domestic water supply wells within the 0.5 mile search radius.
- Groundwater flow direction is variable to the north-north west, northeast, west-southwest, south-southeast, and (predominantly) to the south.

#### Site Management Requirements:

This fuel leak case has been evaluated for closure consistent with the State Water Resource Control Board (SWRCB) Low-Threat Underground Storage Tank Closure Policy (LTCP).

Due to residual contamination, this case is closed with Site Management Requirements that limit future land use to the current commercial land use as an active fueling station. If a change in land use to any residential, or conservative land use, or if any redevelopment occurs, Alameda County Environmental health (ACEH) must be notified as required by Government Code Section 65850.2.2. ACEH will re-evaluate the case upon receipt of approved development/construction plans

Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.

## UST Case Closure Summary Form

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**RWQCB Notification**

Notification Date: December 19, 2013

RWQCB Staff Name: Cherie McCaulou

Title: Engineering Geologist


**Local Agency Representative**

Prepared by: Matthew Soby

Title: Hazardous Materials Technician

Signature: 

Date: 10/3/2014

Approved by: Dilan Roe, P.E. 

Title: LOP and SCP Program Manager

Signature: 

Date: 10/3/2014

This Case Closure Summary along with the Case Closure Transmittal letter and the Remedial Action Completion Certification provides documentation of the case closure. This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions. The Conceptual Site Model may not contain all available data. Additional information on the case can be viewed in the online case file. The entire case file can be viewed over the Internet on the Alameda County Environmental Health (ACEH) website (<http://www.acgov.org/aceh/lop/ust.htm>) or the State of California Water Resources Control Board GeoTracker website (<http://geotracker.waterboards.ca.gov>). Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the ACEH website.

# ATTACHMENT 1

CSM Report

[GEOTRACKER HOME](#) | [MANAGE PROJECTS](#) | [REPORTS](#) | [SEARCH](#) | [LOGOUT](#)**UNOCAL #3135 (T0600101488) - [MAP THIS SITE](#)**

OPEN - ELIGIBLE FOR CLOSURE

845 66TH AVE.  
OAKLAND, CA 94621  
ALAMEDA COUNTY[ACTIVITIES REPORT](#)[PUBLIC WEBPAGE](#)[VIEW PRINTABLE CASE SUMMARY FOR THIS SITE](#)**CLEANUP OVERSIGHT AGENCIES**

ALAMEDA COUNTY LOP (LEAD) - CASE #: RO0000408

CASEWORKER: [MATTHEW SOBY](#) - SUPERVISOR: DILAN ROE

SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-1613

CASEWORKER: [Cherie McCaulou](#) - SUPERVISOR: Cheryl L. Prowell

CUF Claim #: 6628 CUF Priority Assigned: D CUF Amount Paid: \$0

THIS PROJECT WAS LAST MODIFIED BY [MATTHEW SOBY](#) ON 9/22/2014 11:04:40 AM - [HISTORY](#)THIS SITE HAS SUBMITTALS. CLICK [HERE](#) TO OPEN A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE FOR THIS SITE.**CSM REPORT - [VIEW PUBLIC NOTICING VERSION OF THIS REPORT](#)****UST CLEANUP FUND CLAIM INFORMATION (DATA PULLED FROM SCUFIS)**

## FIVE YEAR REVIEW INFORMATION

CLAIM NO	PRIORITY	CLAIMANT	SITE ADDRESS	AMT REIMB TO DATE	AGE OF LOC	IMPACTED WELLS?	REVIEW NUM	REVIEWER	FUND RECOMMENDATION	TO OVERSIGHT DATE	TO CLAIMANT DATE
6628	D	UNION OIL COMPANY OF CALIFORNIA CHVPKK/K2232, SAN RAMON CA 94583-2324	845 66TH AVE OAKLAND, CA 94621								

**PROJECT INFORMATION (DATA PULLED FROM GEOTRACKER) - [MAP THIS SITE](#)**

SITE NAME / ADDRESS	STATUS	STATUS DATE	RELEASE REPORT DATE	AGE OF CASE	CLEANUP OVERSIGHT AGENCIES
UNOCAL #3135 (Global ID: T0600101488) 845 66TH AVE. OAKLAND, CA 94621	Open - Eligible for Closure	6/11/2013	11/29/1989	25	ALAMEDA COUNTY LOP (LEAD) - CASE #: RO0000408 CASEWORKER: <a href="#">MATTHEW SOBY</a> - SUPERVISOR: DILAN ROE SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-1613 CASEWORKER: <a href="#">Cherie McCaulou</a> - SUPERVISOR: Cheryl L. Prowell

**STAFF NOTES (INTERNAL)**

&lt;NO STAFF NOTES ENTERED&gt;

**SITE HISTORY**

Two 10,000-gallon gasoline USTs, one 280 gallon waste-oil UST and product piping were removed from the site in December 1989. Sampling indicated that hydrocarbons were detected in soil and groundwater.

In April 1990, three monitoring wells and two borings were installed. Subsequently additional wells and borings were installed.

Remediation consisting of soil excavation was conducted in March 1991.

**RESPONSIBLE PARTIES**

NAME	ORGANIZATION	ADDRESS	CITY	EMAIL
TERRY GRAYSON	CONOCOPHILLIPS	76 BROADWAY STREET	SACRAMENTO	

**CLEANUP ACTION INFO**

ACTION TYPE	BEGIN DATE	END DATE	PHASE	CONTAMINANT MASS REMOVED	DESCRIPTION
EXCAVATION	3/1/1991	3/31/1991	Soil		
EXCAVATION	11/29/1989	1/9/1990	Water		

**RISK INFORMATION**[VIEW LTCP CHECKLIST](#)[VIEW PATH TO CLOSURE PLAN](#)[VIEW CASE REVIEWS](#)

CONTAMINANTS OF CONCERN	CURRENT LAND USE	BENEFICIAL USE	DISCHARGE SOURCE	DATE REPORTED	STOP METHOD	NEARBY / IMPACTED WELLS	
Gasoline	Commercial	GW - Municipal and Domestic Supply		11/29/1989	Close and Replace Tank	0	
FREE PRODUCT NO	OTHER CONSTITUENTS NO	NAME OF WATER SYSTEM	LAST REGULATORY ACTIVITY	LAST ESI UPLOAD	LAST EDF UPLOAD	EXPECTED CLOSURE DATE	MOST RECENT CLOSURE REQUEST
		EBMUD	9/11/2014	8/27/2014	3/19/2012		<a href="#">1/2/2013</a>

**CDPH WELLS WITHIN 1500 FEET OF THIS SITE**

NONE

**CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)**

APN	GW BASIN NAME	WATERSHED NAME
No APN Found	Santa Clara Valley - East Bay Plain (2-9.04)	South Bay - East Bay Cities (20420)

**PUBLIC WATER SYSTEM(S)**



COUNTY  
Alameda

• EAST BAY MUD - 375 ELEVENTH STREET, OAKLAND, CA 94607

**MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER - [HIDE](#)**

[VIEW ESI SUBMITTALS](#)

<a href="#">FIELD PT NAME</a>	<a href="#">DATE</a>	<a href="#">TPH<sub>g</sub></a>	<a href="#">BENZENE</a>	<a href="#">TOLUENE</a>	<a href="#">ETHYL-BENZENE</a>	<a href="#">XYLENES</a>	<a href="#">MTBE</a>	<a href="#">TBA</a>
MW-1	2/6/2012		<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">2.6 UG/L</a>	<a href="#">ND</a>
MW-10	2/6/2012		<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">2.7 UG/L</a>	<a href="#">ND</a>
MW-11	2/6/2012		<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">1.2 UG/L</a>	<a href="#">ND</a>	<a href="#">ND</a>
MW-2	2/6/2012		<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">2.3 UG/L</a>	<a href="#">ND</a>	<a href="#">7.5 UG/L</a>	<a href="#">ND</a>
MW-3	2/6/2012		<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">1.6 UG/L</a>	<a href="#">ND</a>
MW-4	2/6/2012		<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>
MW-5	2/6/2012		<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>
MW-6	2/6/2012		<a href="#">0.64 UG/L</a>	<a href="#">ND</a>	<a href="#">23 UG/L</a>	<a href="#">11 UG/L</a>	<a href="#">3.6 UG/L</a>	<a href="#">15 UG/L</a>
MW-7	2/6/2012		<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>
MW-8	2/6/2012		<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>
MW-9	2/6/2012		<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>
QA	3/10/2003		<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>
QCTB	2/22/2002		<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>	<a href="#">ND</a>

**MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN SOIL - [HIDE](#)**

[VIEW ESI SUBMITTALS](#)

NO SOIL DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

**MOST RECENT GEO\_WELL DATA - [HIDE](#)**

[VIEW ESI SUBMITTALS](#)

<a href="#">FIELD PT NAME</a>	<a href="#">DATE</a>	<a href="#">DEPTH TO WATER (FT)</a>	<a href="#">SHEEN</a>	<a href="#">DEPTH TO FREE PRODUCT (FT)</a>
MW-1	2/6/2012	6.38	N	
MW-10	2/6/2012	4.55	N	
MW-11	2/6/2012	5.17	N	
MW-2	2/6/2012	5.42	N	
MW-3	2/6/2012	4.98	N	
MW-4	2/6/2012	7.06	N	
MW-5	2/6/2012	5.95	N	
MW-6	2/6/2012	5.6	N	
MW-7	2/6/2012	6.26	N	
MW-8	2/6/2012	6.1	N	
MW-9	2/6/2012	5.8	N	

LOGGED IN AS MATTSOBY

[CONTACT GEOTRACKER HELP](#)

# ATTACHMENT 2

LTCP Checklist	Go	<a href="#">GEOTRACKER HOME</a>   <a href="#">MANAGE PROJECTS</a>   <a href="#">REPORTS</a>   <a href="#">SEARCH</a>   <a href="#">LOGOUT</a>
<b>UNOCAL #3135</b> (T0600101488) - <a href="#">MAP THIS SITE</a>		OPEN - ELIGIBLE FOR CLOSURE
845 66TH AVE. OAKLAND, CA 94621 ALAMEDA COUNTY <a href="#">VIEW PRINTABLE CASE SUMMARY FOR THIS SITE</a>	<a href="#">ACTIVITIES REPORT</a> <a href="#">PUBLIC WEBPAGE</a>	<b>CLEANUP OVERSIGHT AGENCIES</b> ALAMEDA COUNTY LOP (LEAD) - CASE #: RO0000408 CASEWORKER: <a href="#">MATTHEW SOBY</a> - SUPERVISOR: <a href="#">DILAN ROE</a> SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-1613 CASEWORKER: <a href="#">Cherie McCaulou</a> - SUPERVISOR: <a href="#">Cheryl L. Prowell</a> CUF Claim #: 6628 CUF Priority Assigned: D CUF Amount Paid: \$0
THIS PROJECT WAS LAST MODIFIED BY <a href="#">MATTHEW SOBY</a> ON 9/22/2014 11:04:40 AM - <a href="#">HISTORY</a>		
THIS SITE HAS SUBMITTALS. CLICK <a href="#">HERE</a> TO OPEN A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE FOR THIS SITE.		
<b>CLOSURE POLICY</b>	<b>THIS VERSION IS FINAL AS OF 6/26/2014</b>	CHECKLIST INITIATED ON 7/25/2013 <a href="#">CLOSURE POLICY HISTORY</a>
<b>General Criteria - The site satisfies the policy general criteria - <a href="#">CLEAR SECTION ANSWERS</a></b>		<b>YES</b>
a. Is the unauthorized release located within the service area of a public water system? Name of Water System : <input type="text" value="EBMUD"/>		<input checked="" type="radio"/> YES <input type="radio"/> NO
b. The unauthorized release consists only of petroleum ( <a href="#">info</a> ).		<input checked="" type="radio"/> YES <input type="radio"/> NO
c. The unauthorized ("primary") release from the UST system has been stopped.		<input checked="" type="radio"/> YES <input type="radio"/> NO
d. Free product has been removed to the maximum extent practicable ( <a href="#">info</a> ).		<input checked="" type="radio"/> FP Not Encountered <input type="radio"/> YES <input type="radio"/> NO
e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed ( <a href="#">info</a> ).		<input checked="" type="radio"/> YES <input type="radio"/> NO
f. Secondary source has been removed to the extent practicable ( <a href="#">info</a> ).		<input checked="" type="radio"/> YES <input type="radio"/> NO
g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15.		<input type="radio"/> Not Required <input checked="" type="radio"/> YES <input type="radio"/> NO
h. Does a nuisance exist, as defined by <a href="#">Water Code section 13050</a> .		<input type="radio"/> YES <input checked="" type="radio"/> NO
<b>1. Media-Specific Criteria: Groundwater - The contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent, and meets all of the additional characteristics of one of the five classes of sites listed below. - <a href="#">CLEAR SECTION ANSWERS</a></b>		<b>YES</b>
<b>EXEMPTION - Soil Only Case (Release has <u>not</u> Affected Groundwater - <a href="#">Info</a>)</b>		<input type="radio"/> YES <input checked="" type="radio"/> NO
Does the site meet any of the Groundwater specific criteria scenarios?		<input checked="" type="radio"/> YES <input type="radio"/> NO
1.1 - The contaminant plume that exceeds water quality objectives is <100 feet in length. There is no free product. The nearest existing water supply well or surface water body is >250 feet from the defined plume boundary.		<input checked="" type="radio"/> YES <input type="radio"/> NO
<b>2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathway if site-specific conditions satisfy items 2a, 2b, or 2c - <a href="#">CLEAR SECTION ANSWERS</a></b>		<b>YES</b>
<b>EXEMPTION - Active Commercial Petroleum Fueling Facility</b>		<input checked="" type="radio"/> YES <input type="radio"/> NO
<b>3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below. - <a href="#">CLEAR SECTION ANSWERS</a></b>		<b>NO</b>
<b>EXEMPTION - The upper 10 feet of soil is free of petroleum contamination</b>		<input type="radio"/> YES <input checked="" type="radio"/> NO
Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios?		<input type="radio"/> YES <input checked="" type="radio"/> NO
<b>ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria:</b>		
Exposure Type : <input type="radio"/> Residential <input checked="" type="radio"/> Commercial <input type="radio"/> Utility Worker		
Petroleum Constituents in Soil : <input type="radio"/> ≤ 5 Feet bgs <input type="radio"/> >5 Feet bgs and ≤10 Feet bgs <input type="radio"/> Unknown		
Soil Concentrations of Benzene : <input type="radio"/> > 1.9 mg/kg and ≤ 2.8 mg/kg <input type="radio"/> > 2.8 mg/kg and ≤ 8.2 mg/kg <input type="radio"/> > 8.2 mg/kg and ≤ 12 mg/kg <input type="radio"/> > 12 mg/kg and ≤ 14 mg/kg <input type="radio"/> > 14 mg/kg <input type="radio"/> Unknown		
Soil Concentrations of EthylBenzene : <input type="radio"/> > 21 mg/kg and ≤ 32 mg/kg <input type="radio"/> > 32 mg/kg and ≤ 89 mg/kg <input type="radio"/> > 89 mg/kg and ≤ 134 mg/kg <input type="radio"/> > 134 mg/kg and ≤ 314 mg/kg <input type="radio"/> > 314 mg/kg <input type="radio"/> Unknown		
Soil Concentrations of Naphthalene : <input type="radio"/> > 9.7 mg/kg and ≤ 45 mg/kg <input type="radio"/> > 45 mg/kg <input checked="" type="radio"/> Unknown		
Soil Concentrations of PAH : <input type="radio"/> > 0.063 mg/kg and ≤ 0.68 mg/kg <input type="radio"/> > 0.68 mg/kg and ≤ 4.5 mg/kg <input type="radio"/> > 4.5 mg/kg <input checked="" type="radio"/> Unknown		
Area of Impacted Soil : <input type="radio"/> Area of Impacted Soil > 82 by 82 Feet <input type="radio"/> Unknown		
<b>Additional Information</b>		
Should this case be closed in spite of NOT meeting policy criteria?		
Explain: <input type="text" value="Top 15 feet of soil excavated near gasoline USTs. Concentrations in confirmation samples collected near waste oil UST were low and do not warrant PAH and naphthalene analysis in the upper 10 feet."/>		<input checked="" type="radio"/> YES <input type="radio"/> NO
Has this LTCP Checklist been updated for FY 14/15?		<input type="radio"/> YES <input type="radio"/> NO
<a href="#">SPELL CHECK</a>		
<input type="button" value="Save Form as Partially Completed"/>		

LOGGED IN AS MATTSOBY

[CONTACT GEOTRACKER HELP](#)

# ATTACHMENT 3



**Attachment 3**

ATTACHMENT 3 LTCP GROUNDWATER SPECIFIC CRITERIA						
LTCP Groundwater Specific Scenario under which case was closed: <b>Scenario 1.</b>						
Site Data		LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3 Criteria	LTCP Scenario 4 Criteria	
Plume Length	< 100 feet <sup>a</sup>	<100 feet	<250 feet	<250 feet	<1,000 feet	
Free Product	No free product.	No free product	No free product	Removed to maximum extent practicable	No free product	
Plume Stable or Decreasing	Stable to Decreasing	Stable or decreasing	Stable or decreasing	Stable or decreasing for minimum of 5 Years	Stable or decreasing	
Distance to Nearest Water Supply Well	> 1,000 feet <sup>b</sup>	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet	
Distance to Nearest Surface Water and Direction	> 250 feet <sup>c</sup>	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet	
Property Owner Willing to Accept a Land Use Restriction?	Not Applicable	Not applicable	Not applicable	Yes	Not applicable	
GROUNDWATER CONCENTRATIONS						
Constituent	Historic Site Maximum (ug/L)	Current Site Maximum (ug/L)	LTCP Scenario 1 Criteria (ug/L)	LTCP Scenario 2 Criteria (ug/L)	LTCP Scenario 3 Criteria (ug/L)	LTCP Scenario 4 Criteria (ug/L)
Benzene	5,600 (MW-2, 1992)	< 0.50 (below RLs, all wells, 2012)	No criteria	< 3,000	No criteria	< 1,000
MTBE	2,800 (MW-6, 1998)	8.9 (MW-2, 2012)	No criteria	< 1,000	No criteria	< 1,000
Total Petroleum Hydrocarbons as Gasoline (TPH-g)	110,000 (MW-2, 1991)	970 (MW-6, 2012)	No criteria	No criteria	No criteria	No criteria
Scenario 5: If the site does not meet scenarios 1 through 4, has a <u>determination been made</u> that under current and reasonably expected future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame?				N/A		
<b>COMMENTS:</b>						
<sup>a</sup> Plume length based on distance from impacted wells MW-2 and MW-6 to down-gradient well MW-10 (below laboratory reporting limits (<RLs)), MW-3 (<RLs), and MW-11 (<RLs) using TPH-g isocontours from the 2012 groundwater monitoring event. Historically, the plume footprint has shrank comparing TPH-g isocontours from 2005 and 1995 groundwater monitoring events (RFC_R_2012-12-19).						

### Attachment 3

<sup>b</sup> Domestic and municipal supply wells were not located within 2,000 feet of the site or in the predominantly down-gradient direction (south). This distance satisfies Scenario 1 separation criteria of 250 feet.

<sup>c</sup> Groundwater flow is variable, predominantly to the south. Water bodies of Lion Creek (530 feet south-southeast) and Damon Slough (730 feet south-southwest) are both down-gradient.

# ATTACHMENT 4

**Attachment 4**

ATTACHMENT 4 LTCP VAPOR SPECIFIC CRITERIA							
LTCP Vapor Specific Scenario under which case was closed: <b>Active fueling station exempt from vapor specific criteria.</b>							
Active Fueling Station		Active as of: 24 September 2014					
Site Data		LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3A Criteria	LTCP Scenario 3B Criteria	LTCP Scenario 3C Criteria	LTCP Scenario 4 Criteria
Unweathered LNAPL	No LNAPL	LNAPL in groundwater	LNAPL in soil	No LNAPL	No LNAPL	No LNAPL	No criteria
Thickness of Bioattenuation Zone Beneath Foundation	<5 feet <sup>a, b</sup>	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥5 feet	≥5 feet
Total TPH in Soil in Bioattenuation Zone	<100 mg/kg <sup>a, c</sup>	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg
Maximum Current Benzene Concentration in Groundwater	<100 ug/L <sup>b, d</sup>	No criteria	No criteria	<100 ug/L	≥100 and <1,000 ug/L	<1,000 ug/L	No criteria
Oxygen Data within Bioattenuation Zone	No oxygen data	No criteria	No criteria	No oxygen data or <4%	No oxygen data or <4%	≥4% at lower end of zone	≥4% at lower end of zone
Depth of soil vapor measurement beneath foundation	----	No criteria	No criteria	No criteria	No criteria	No criteria	≥5 feet
SCENARIO 4 DIRECT MEASUREMENT OF SOIL VAPOR CONCENTRATIONS							
Site Soil Vapor Data			No Bioattenuation Zone		Bioattenuation Zone		
Constituent	Historic Maximum (µg/m <sup>3</sup> )	Current Maximum (µg/m <sup>3</sup> )	Residential	Commercial	Residential	Commercial	
Benzene	----	----	<85	<280	<85,000	<280,000	
Ethylbenzene	----	----	<1,100	<3,600	<1,100,000	<3,600,000	
Naphthalene	----	----	<93	<310	<93,000	<310,000	
If the site does not meet scenarios 1 through 4, does a <u>site-specific risk assessment</u> for the vapor intrusion pathway demonstrate that human health is protected?				N/A			
If the site does not meet scenarios 1 through 4, has a <u>determination been made</u> that petroleum vapors from soil or groundwater will have no significant risk of adversely affecting human health?				N/A			
<b>COMMENTS:</b>							
<sup>a</sup> For determination of bio-attenuation zone, maximum soil concentrations of TPH (TPH-g plus TPH as diesel (TPH-d)) exceeding 100 mg/kg remaining on-site after the 1989 underground storage tank (UST) removal, and 1991 UST pit over-excavation are located below 11.0 feet below ground surface (bgs). Remaining TPH soil concentrations are: 340 mg/kg at 11.0 feet bgs (SW2 (30)), 310 mg/kg at 11.0 feet bgs (SW8), 1,460 mg/kg at 11.0 feet bgs (SW10), and 253 mg/kg at 12.5 feet bgs (MW-6). Off-site TPH soil concentration is 249 mg/kg at 10.5 feet bgs at MW-10; of note at 5.0 and 13.0 feet bgs the TPH soil concentrations do not exceed laboratory reporting limits (< 1.0 mg/kg).							

#### Attachment 4

<sup>b</sup> Depth to groundwater has historically fluctuated from approximately 3.8 feet below top of case (bTOC) (at well MW-3 in 1995) to 10.4 feet bTOC (at well MW-8 in 1993). Depth-to-groundwater is one data point used in conjunction with vadose-zone thickness and soil TPH concentrations to ascertain bio-attenuation zone thickness.

<sup>c</sup> Bio-attenuation zone maximum TPH concentrations in soil determined utilizing: 1) 11 mg/kg TPH at 5.0 feet bgs (P3); 2) 32 mg/kg TPH at 9.0 feet bgs (SW4).

<sup>d</sup> Benzene concentration in groundwater is less than the laboratory reporting limit of 0.50 ug/L (August 2012). All monitoring wells benzene concentrations are below 100 ug/L since August 2004.

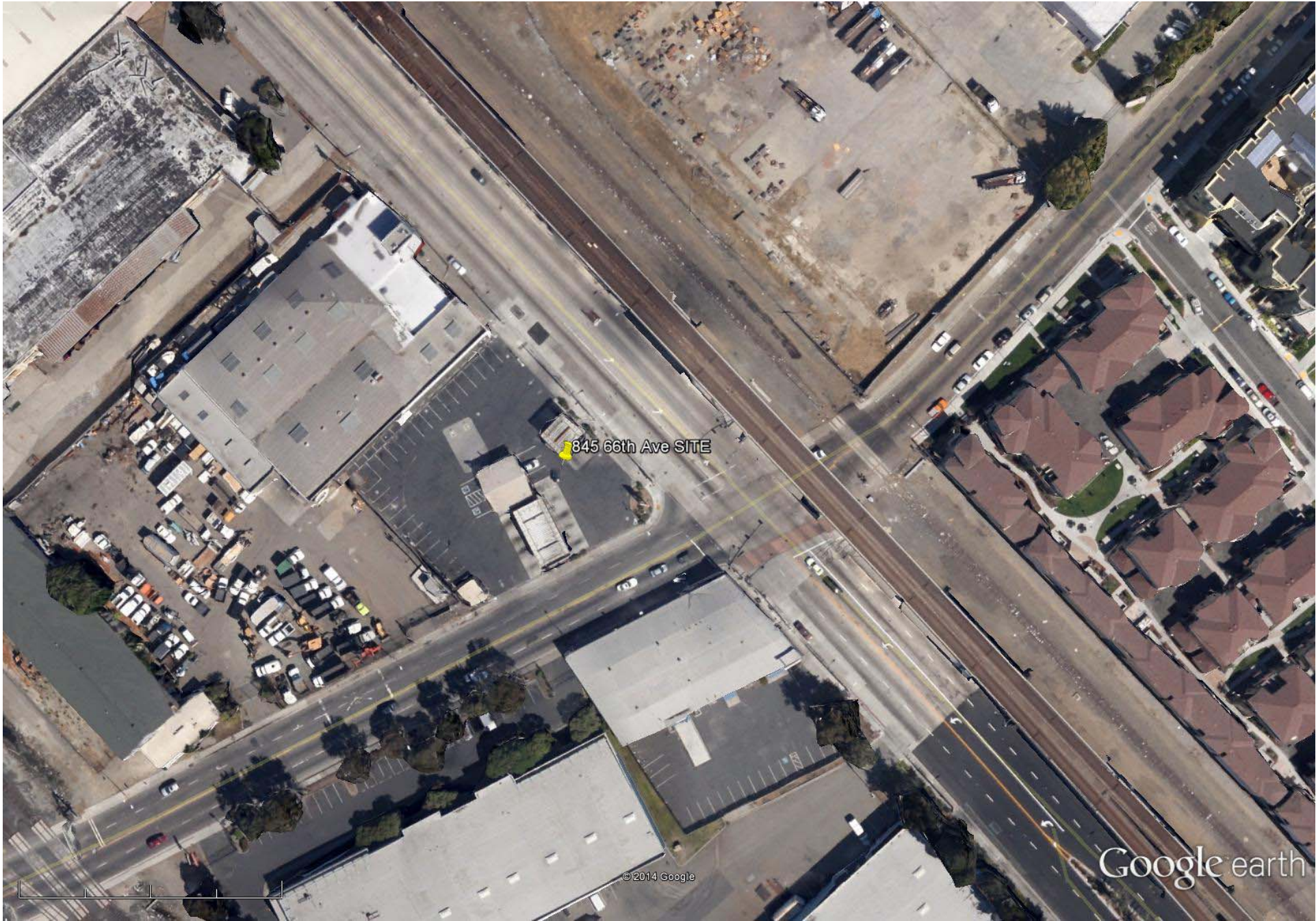


# ATTACHMENT 5

**Attachment 5**

ATTACHMENT 5 LTCP DIRECT CONTACT AND OUTDOOR AIR EXPOSURE CRITERIA						
LTCP Direct Contact and Outdoor Air Exposure Specific Scenario under which case was closed: <b>Maximum concentrations of petroleum hydrocarbons are less than or equal to those in Table 1 below.</b>						
Are maximum soil concentrations less than those in Table 1 below?				<b>Yes</b>		
Constituent		Residential		Commercial/Industrial		Utility Worker
		0 to 5 feet bgs (mg/kg)	Volatilization to outdoor air (5 to 10 feet bgs) mg/kg	0 to 5 feet bgs (mg/kg)	Volatilization to outdoor air (5 to 10 feet bgs) mg/kg	0 to 10 feet bgs (mg/kg)
Site Maximum	Benzene	0.14	1.2	0.14	1.2	1.2
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	0.18	2.1	0.18	2.1	2.1
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314
Site Maximum	Naphthalene <sup>a</sup>	----	----	----	----	----
LTCP Criteria	Naphthalene	≤9.7	≤9.7	≤45	≤45	≤219
Site Maximum	PAHs <sup>a</sup>	----	----	----	----	----
LTCP Criteria	PAHs	≤0.063	NA	≤0.68	NA	≤4.5
If maximum concentrations are <u>greater</u> than those in Table 1, are they less than levels from a <u>site-specific risk assessment</u> ?				N/A		
If maximum concentrations are greater than those in Table 1, has a <u>determination been made</u> that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health as a result of controlling exposure through the use of mitigation measures or through the use of institutional controls?				N/A		
<b>COMMENTS:</b>						
<p><sup>a</sup> Naphthalene and Polyaromatic Hydrocarbons (PAHs) were not analyzed during site investigations. A waste oil UST and two gasoline USTs were excavated from the site, as such, these analysis would have been appropriate. The maximum percent composition of naphthalene in fresh gasoline is 0.36% (California LUFT Manual, Sept. 2012). The maximum TPH-g concentration was 12,000 mg/kg (EB2 at 9.0 feet bgs in the Pre-1967 UST Pit Excavation); therefore, the maximum theoretical naphthalene concentration could be 43.2 mg/kg. This theoretical concentration does not exceed Table 1 criteria for commercial/industrial and utility worker receptors, the current land use and classification. Soil concentrations below the waste oil UST were non-detect above laboratory RLs (&lt;1.0 mg/kg) for TPH-d and maximum TPH-g concentrations were 3.9 mg/kg. These TPH-d and TPH-g concentrations would indicate a potentially insignificant concentration of naphthalene (0.014 mg/kg, theoretically) and PAHs in soil from the waste oil UST.</p> <p>Maximum soil concentrations remaining on-site after the 1989 UST removal, and 1990 UST pit over-excavation are located below 11.0 feet bgs. Remaining TPH-g soil concentrations are: 340 mg/kg at 11.0 feet bgs (SW2 (30)), 310 mg/kg at 11.0 feet bgs (SW8), 1,400 mg/kg at 11.0 feet bgs (SW10), and 160 mg/kg at 12.5 feet bgs (MW-6). Remaining benzene concentrations in soil are: 1.9 mg/kg at 11.0 feet bgs (SW8), and 3.4 mg/kg at 12.5 feet bgs (MW-6). Remaining ethylbenzene concentrations below 10 feet bgs do not appear to exceed Table 1 concentrations.</p>						

# ATTACHMENT 6



Google earth

feet  
meters







Google earth

miles  
km







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Google earth

feet  
meters





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Google earth

Google earth

feet  
meters







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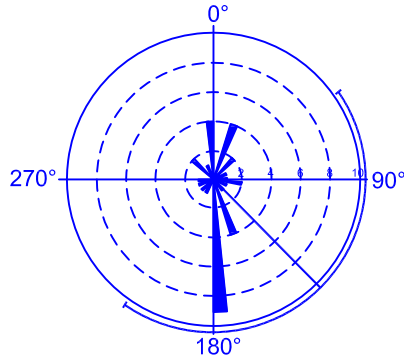
Google earth

Google earth

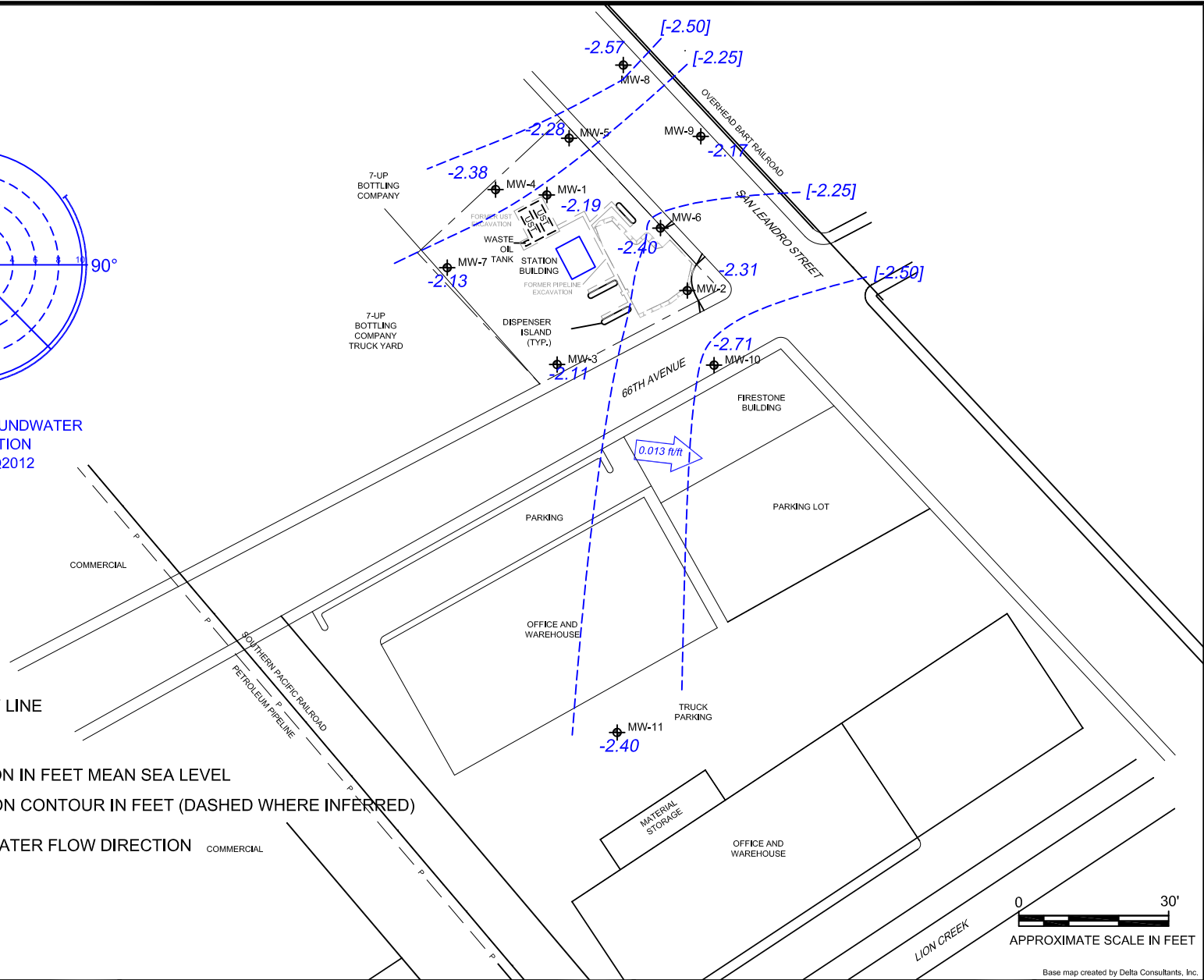
feet  
meters



P:\01231-Chevron\76Products\_transfer\_sites\351643\_3135\_Oakland\7.0 Deliverables\7.2 CADD\3c1q12\Fig2\_site\_map.dwg



APPROXIMATE GROUNDWATER FLOW DIRECTION 3Q1990 TO 3Q2012



**LEGEND:**

- APPROXIMATE PROPERTY LINE
- MW-8 MONITORING WELL
- 2.57 GROUNDWATER ELEVATION IN FEET MEAN SEA LEVEL
- [-2.50] GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

Notes:  
 UST = underground storage tank  
 FT/FT = feet per foot



Base map created by Delta Consultants, Inc.

**GROUNDWATER CONTOUR MAP**

Chevron Site #351643 Former Unocal #3135  
 6535 San Leandro Street/845 66th Avenue  
 Oakland, California

**AECOM**  
 10461 OLD PLACERVILLE ROAD SUITE 170  
 SACRAMENTO, CALIFORNIA 95827  
 PHONE: (916) 361-6400  
 FAX: (916) 361-6401  
 WEB: HTTP://WWW.AECOM.COM



DESIGNED BY:	REVISIONS			
	NO.:	DESCRIPTION:	DATE:	BY:
DRAWN BY:				
RM				
CHECKED BY:				
JH				
APPROVED BY:				
JH				

FIGURE NUMBER:

**2**

SCALE:	DATE:	PROJECT NUMBER:
1" = 30'	10/1/2012	60267099



P:\01231-Chevron\76Products\_transfer\_sites\351643\_3135\_Oakland\7.0 Deliverables\7.2 CADD\3q12\Fig2\_site\_map.dwg

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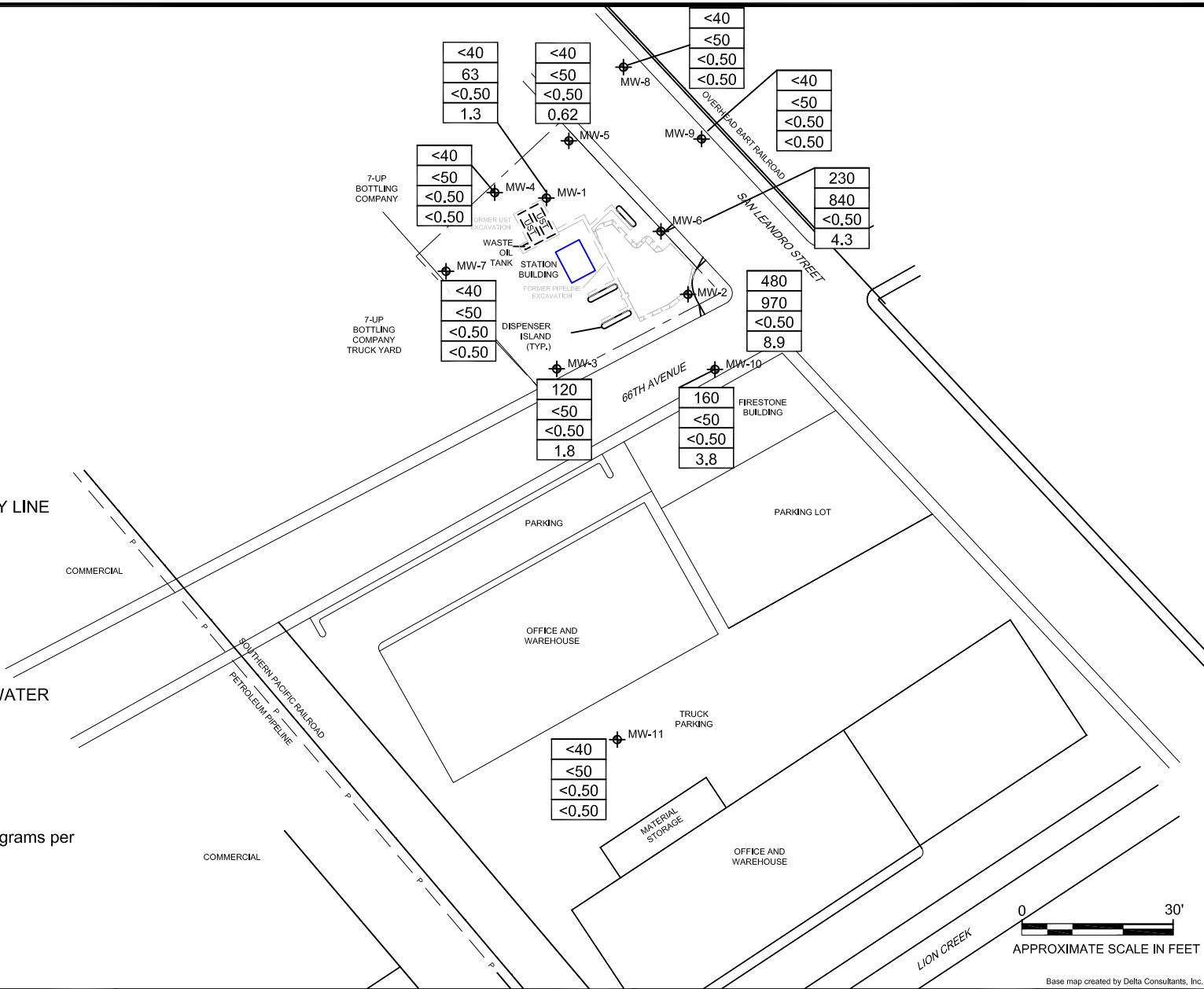
--- APPROXIMATE PROPERTY LINE

MW-A MONITORING WELL

<40	TPH diesel
<50	TPH gasoline
<0.50	BENZENE
<0.50	MTBE

APPROXIMATE GROUNDWATER FLOW DIRECTION

Notes:  
 TPH = Total Petroleum Hydrocarbons  
 MTBE = methyl tertiary-butyl ether  
 UST = underground storage tank  
 Analyte Concentrations expressed in micrograms per liter.



Base map created by Delta Consultants, Inc.

**GROUNDWATER CONCENTRATION MAP**

Chevron Site #351643 Former Unocal #3135  
 6535 San Leandro Street/845 66th Avenue  
 Oakland, California

**AECOM**  
 10461 OLD PLACERVILLE ROAD SUITE 170  
 SACRAMENTO, CALIFORNIA 95827  
 PHONE: (916) 361-6400  
 FAX: (916) 361-6401  
 WEB: HTTP://WWW.AECOM.COM



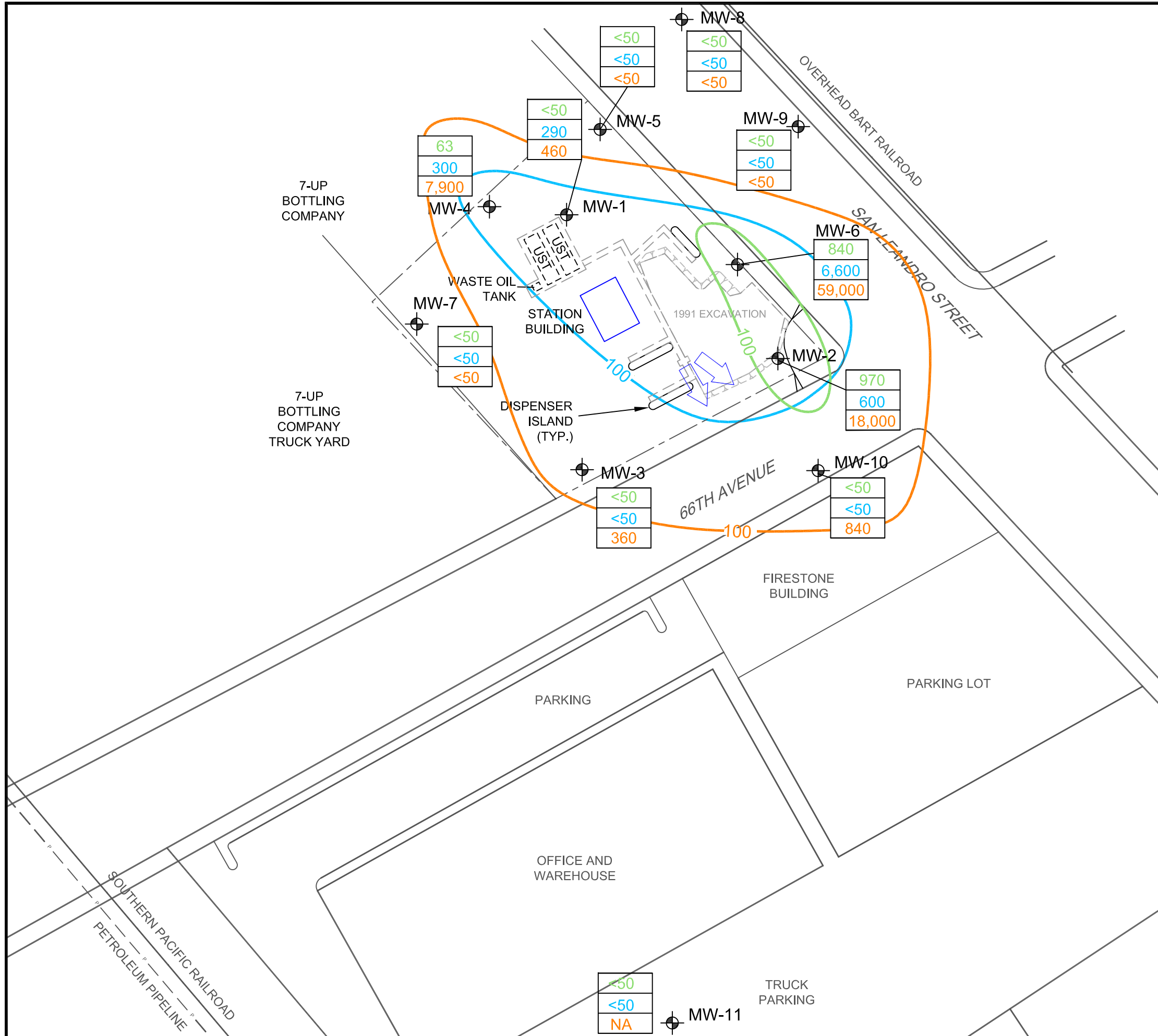
DESIGNED BY:	REVISIONS			
	NO.:	DESCRIPTION:	DATE:	BY:
DRAWN BY:				
RM				
CHECKED BY:				
JH				
APPROVED BY:				
JH				

FIGURE NUMBER:

**3**

SCALE:	DATE:	PROJECT NUMBER:
1" = 30'	10/11/12	60267099





**LEGEND:**

- APPROXIMATE PROPERTY LINE
- MW-11 MONITORING WELL
- TPH gasoline 3Q2012
- TPH gasoline 2005
- TPH gasoline 1995
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- TPH-Gasoline Isocontours 3Q2012
- TPH-Gasoline Isocontours 2005
- TPH-Gasoline Isocontours 1995

Notes:  
 TPH = Total Petroleum Hydrocarbons  
 UST = underground storage tank  
 Analyte Concentrations expressed in micrograms per liter.



Base map created by Delta Consultants, Inc.

DESIGNED BY:		DRAWN BY:		CHECKED BY:		APPROVED BY:	
		JH		CR		JH	

NO.	DESCRIPTION:	DATE:	BY:



**AECOM**  
 10461 OLD PLACERVILLE ROAD SUITE 170  
 SACRAMENTO, CALIFORNIA 95827  
 PHONE: (916) 361-6400  
 FAX: (916) 361-6401  
 WEB: HTTP://WWW.AECOM.COM

**ISOCONTOUR COMPARISON MAP**

Chevron Site #351643 Former Unocal #3135  
 6535 San Leandro Street/845 66th Avenue  
 Oakland, California

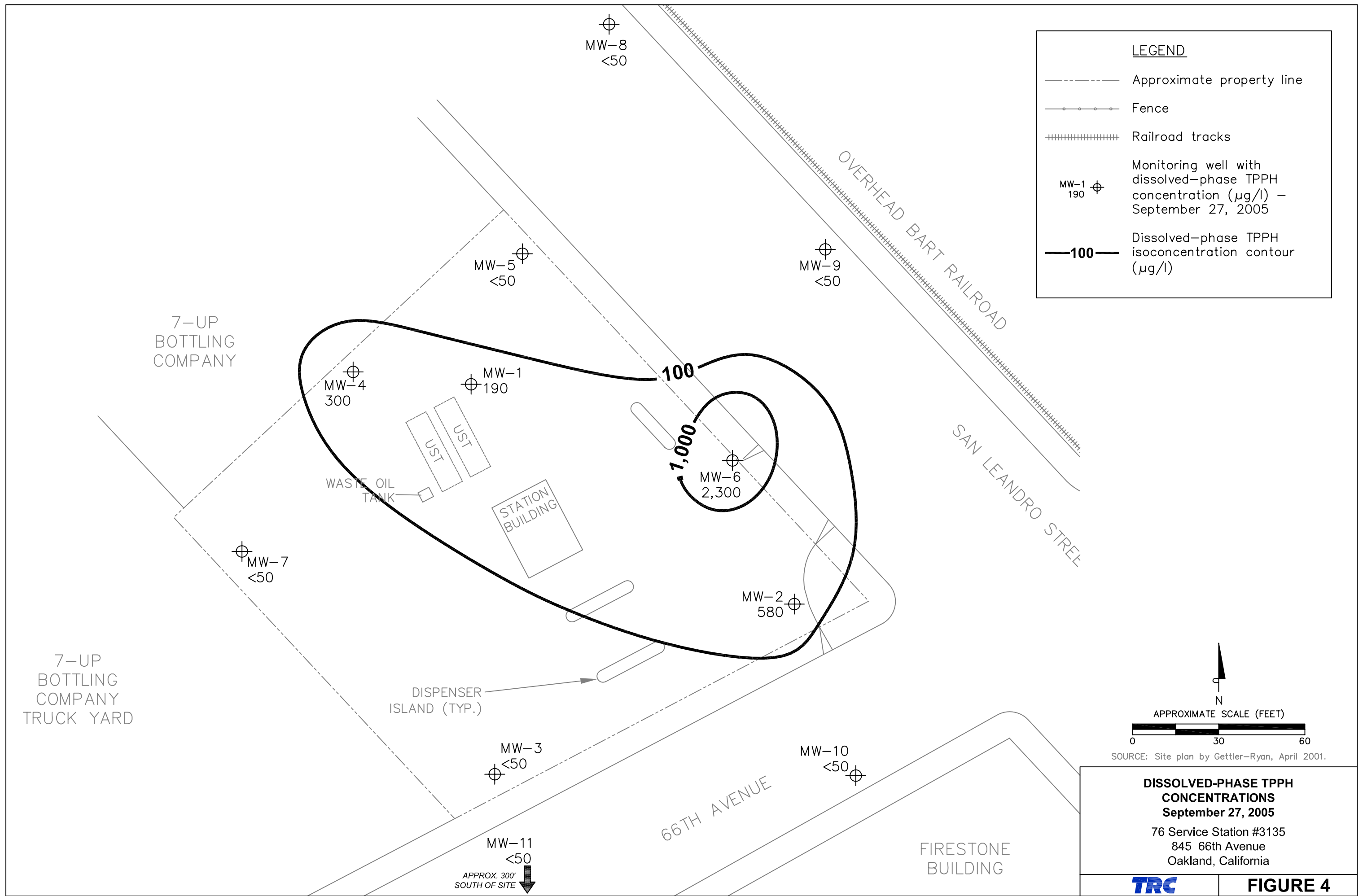
SCALE: as shown

DATE: 12/06/2012

PROJECT NUMBER: 60267099

FIGURE NUMBER:

# 3



MW-8  
<50

MW-5  
<50

MW-9  
<50

7-UP  
BOTTLING  
COMPANY

MW-4  
300

MW-1  
190

100

WASTE OIL TANK  
UST  
UST

STATION BUILDING

1,000

MW-6  
2,300

SAN LEANDRO STREET

MW-7  
<50

MW-2  
580

7-UP  
BOTTLING  
COMPANY  
TRUCK YARD

DISPENSER  
ISLAND (TYP.)

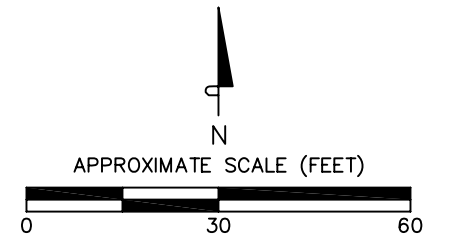
MW-3  
<50

MW-10  
<50

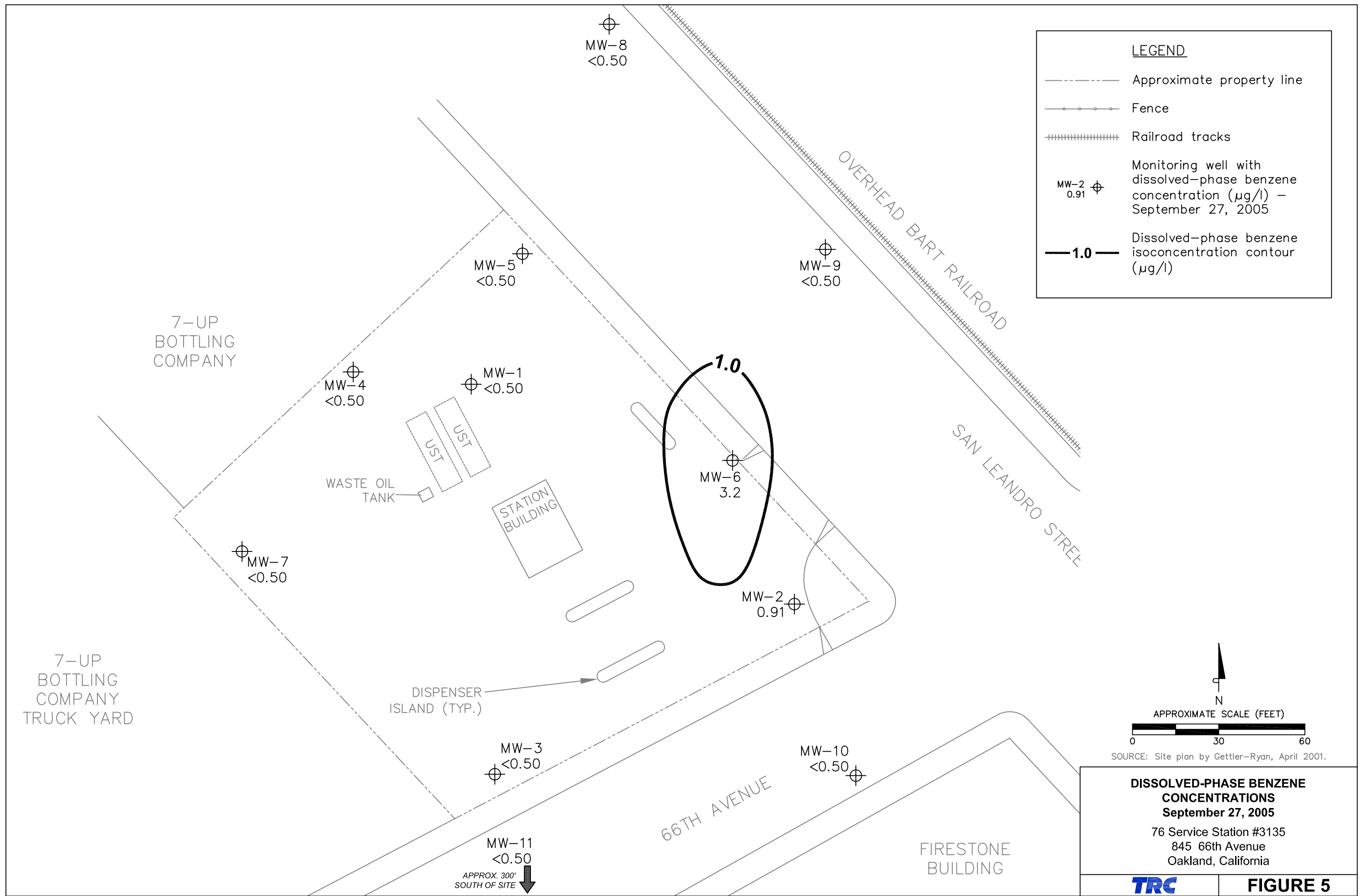
66TH AVENUE

FIRESTONE  
BUILDING

MW-11  
<50  
APPROX. 300'  
SOUTH OF SITE



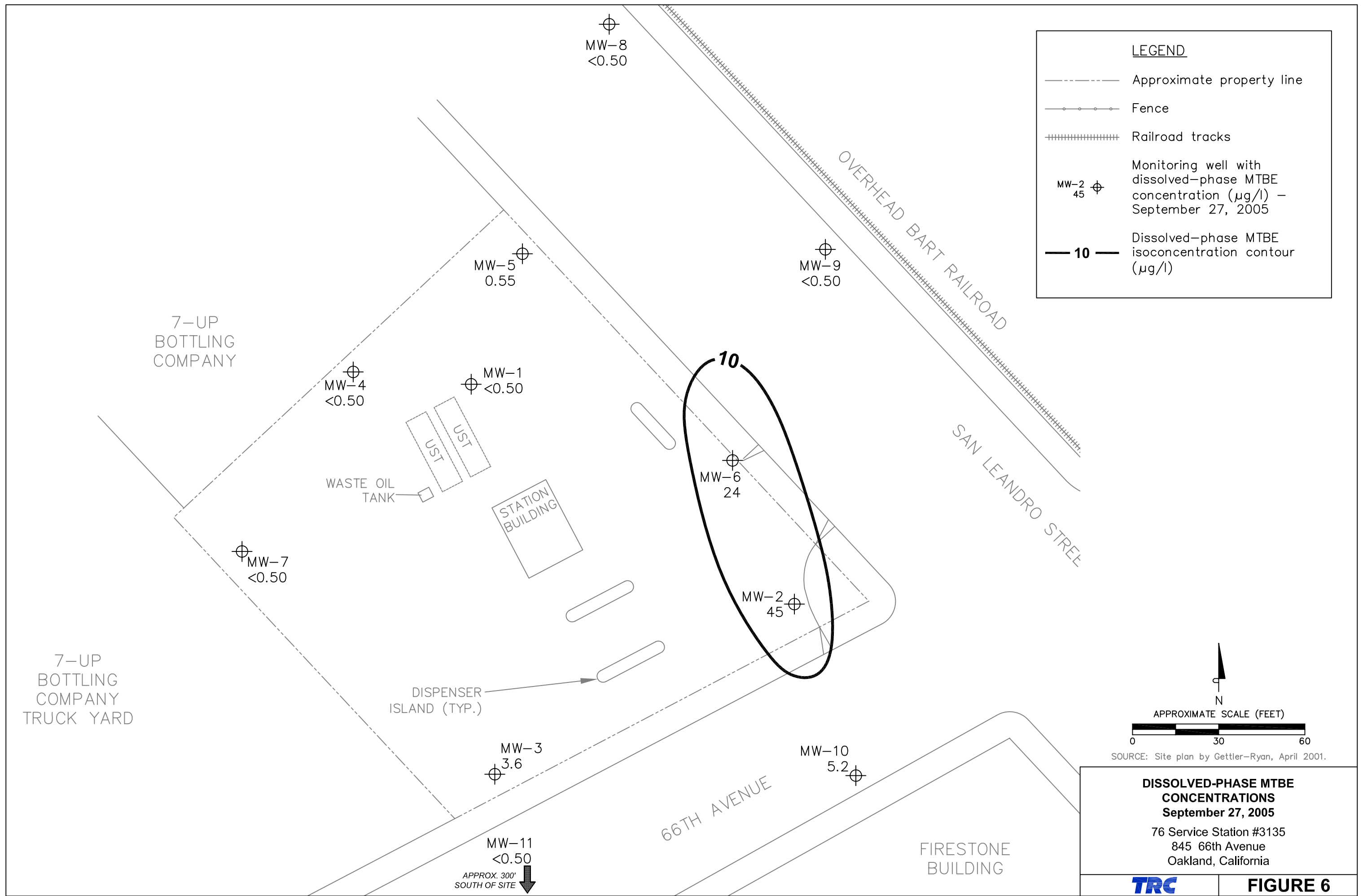
SOURCE: Site plan by Gettler-Ryan, April 2001.



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

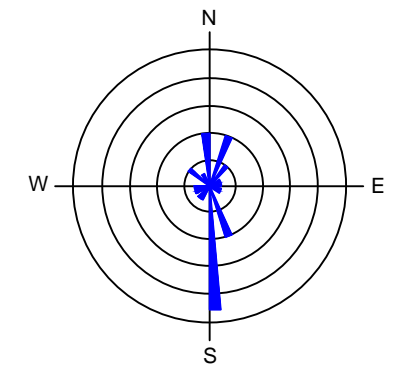
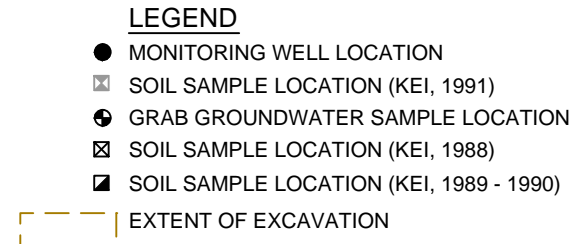
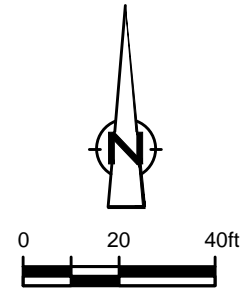
**TRC** **FIGURE 5**





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

**TRC** **FIGURE 6**



HISTORICAL GROUNDWATER FLOW DIRECTION  
3Q1990 TO 1Q2012

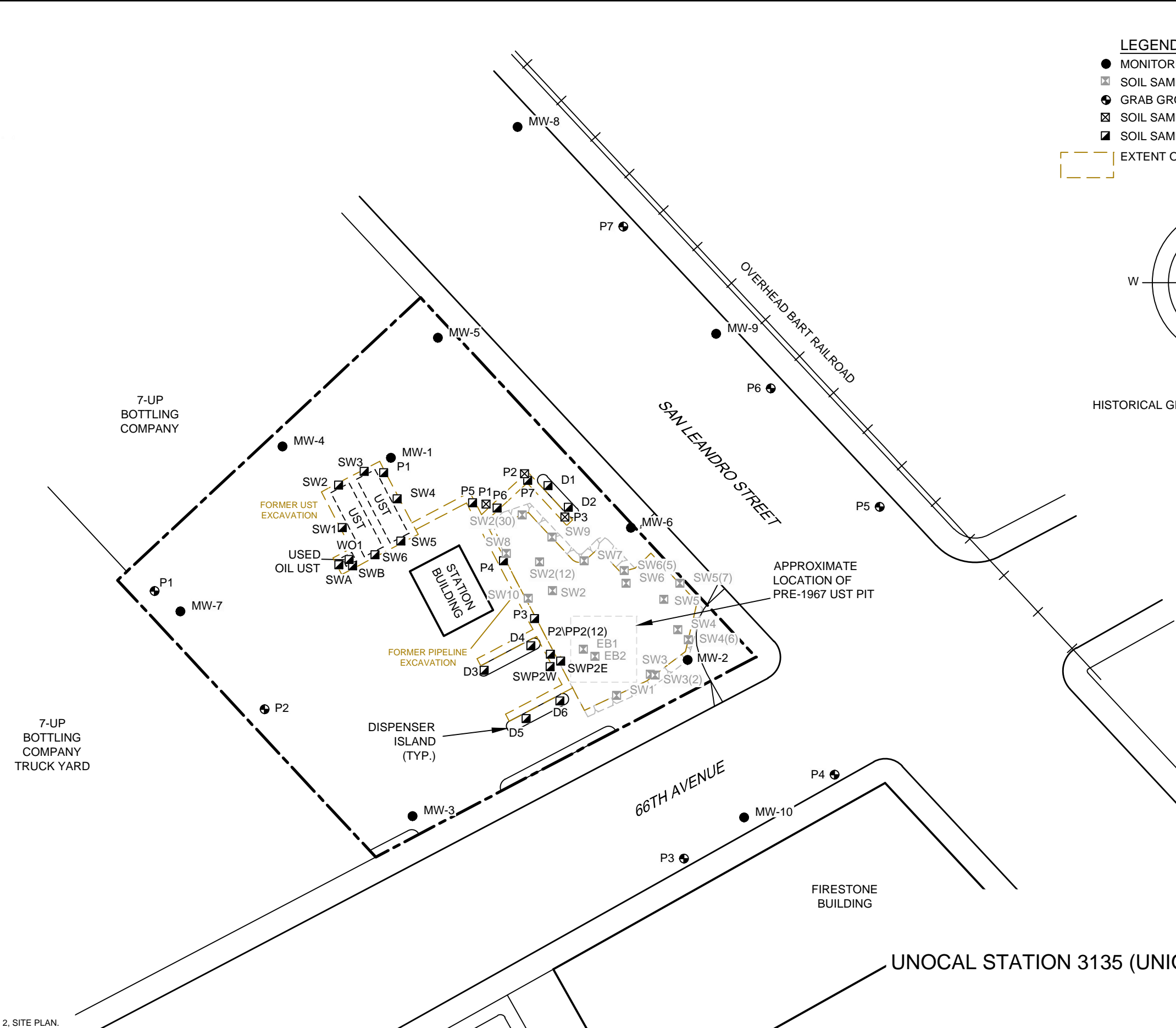
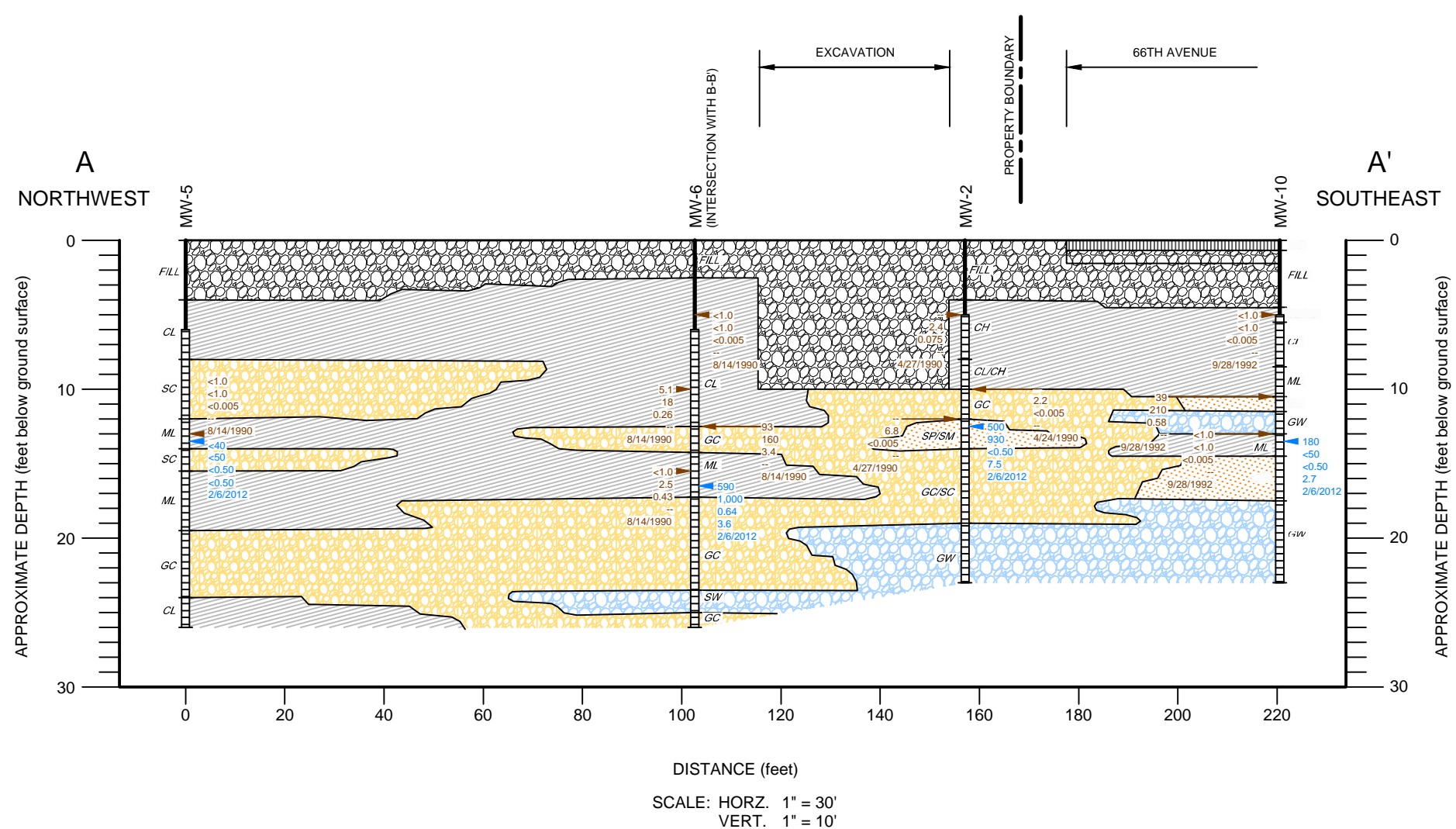


Figure 2

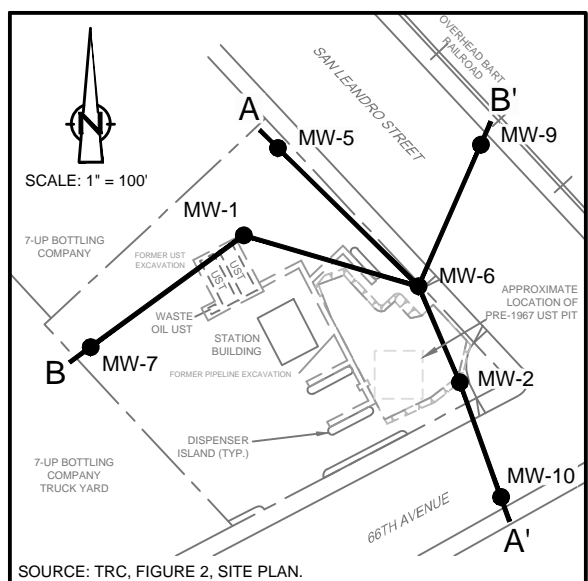
**SITE PLAN**  
UNOCAL STATION 3135 (UNION OIL SITE 351643)  
845 66TH AVENUE  
Oakland, California



SOURCE: TRC, FIGURE 2, SITE PLAN.



SCALE: HORIZ. 1" = 30'  
VERT. 1" = 10'

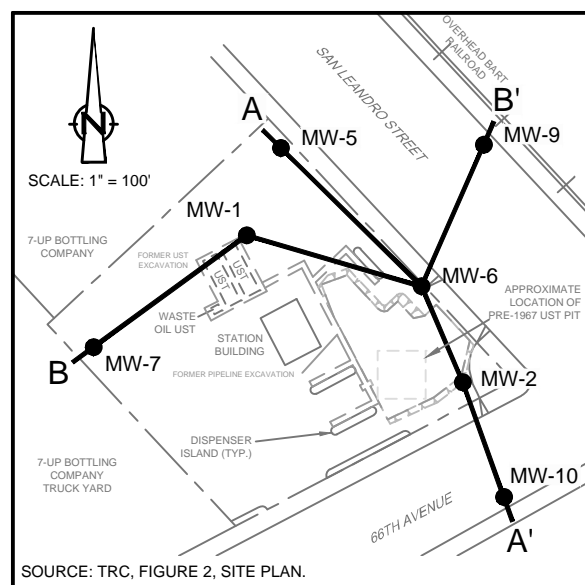
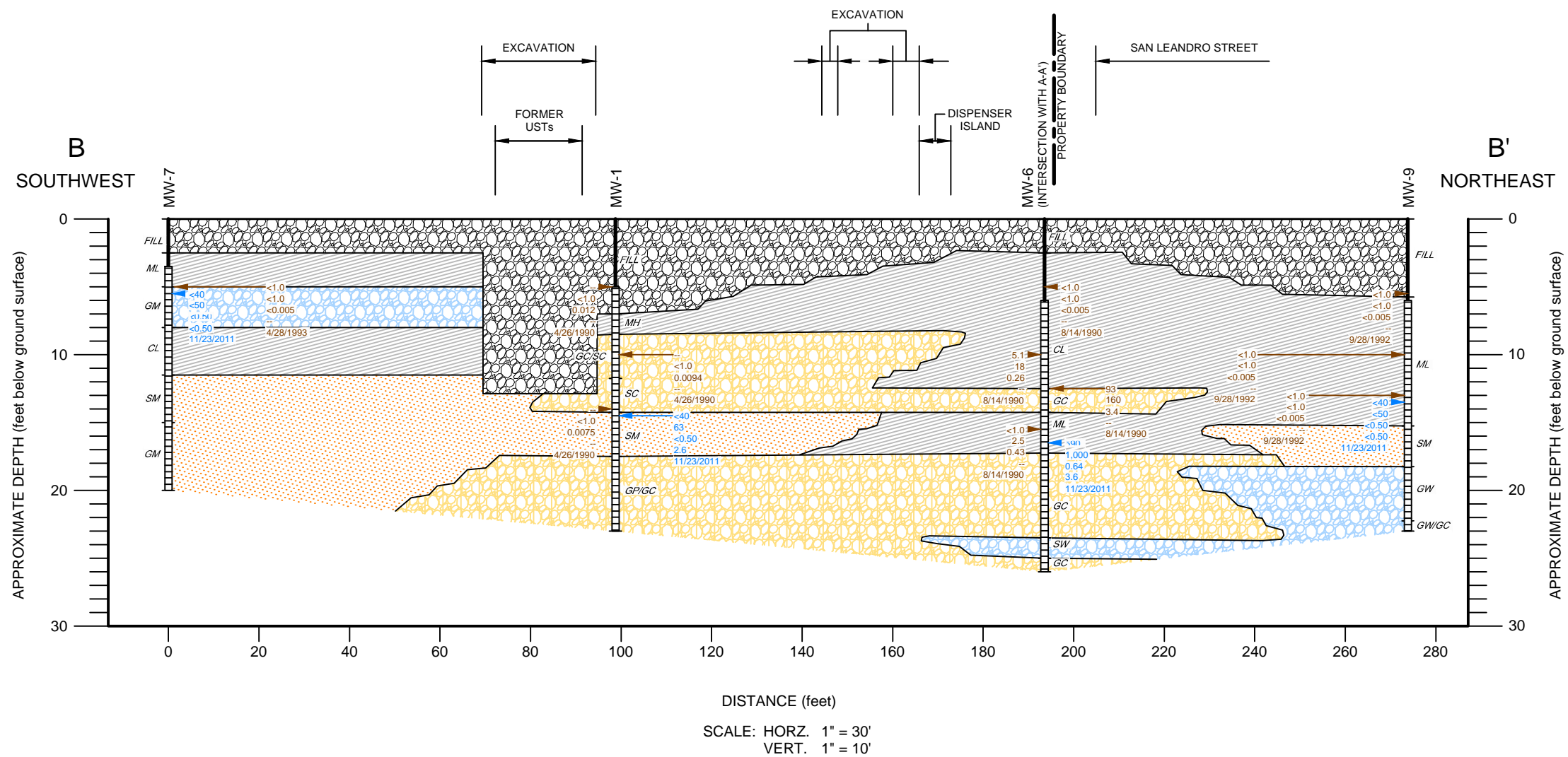


SOURCE: TRC, FIGURE 2, SITE PLAN.

**LEGEND**

- WELL DESIGNATION
- GROUND SURFACE
- OBSERVATION WELL INSTALLATION
- STRATIGRAPHIC BOUNDARY
- TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- ▲ APPROXIMATE SOIL SAMPLE LOCATION  
TPHd  
TPHg  
BENZENE  
MTBE  
DATE
- ▲ APPROXIMATE GROUNDWATER SAMPLE LOCATION  
TPHd  
TPHg  
BENZENE  
MTBE  
DATE
- NOT ANALYZED
- FILL
- AS - ASPHALT
- GC/SC - CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES AND CLAYEY SANDS, SAND-CLAY MIXTURES
- ML/CL/CH - SILTS, FINE GRAINED CLAYS AND SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY, INORGANIC CLAYS OF HIGH PLASTICITY, INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- GW/SW - WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES AND WELL-GRADED SAND, GRAVELLY SANDS, LITTLE OR NO FINES
- SP/SM - POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES AND SILTY SANDS, SAND-SILT MIXTURES

**Figure 4**  
**GEOLOGIC CROSS SECTION A-A'**  
**UNOCAL STATION 3135 (UNION OIL SITE 351643)**  
**845 66TH AVENUE**  
**Oakland, California**



**LEGEND**

- |   |   |
|---|---|
| <p>— WELL DESIGNATION</p> <p>— GROUND SURFACE</p> <p>— OBSERVATION WELL INSTALLATION</p> <p>— STRATIGRAPHIC BOUNDARY</p> <p>CL — TYPICAL SOIL CLASSIFICATION</p> <p>— SCREENED INTERVAL</p> <p>— BOTTOM OF BORING</p> <p>▲ APPROXIMATE SOIL SAMPLE LOCATION<br/>HYDROCARBON CONCENTRATIONS<br/>IN SOIL (mg/kg)</p> <p>▲ APPROXIMATE GROUNDWATER<br/>SAMPLE LOCATION<br/>HYDROCARBON CONCENTRATIONS<br/>IN GROUNDWATER</p> <p>— NOT ANALYZED</p> | <p> FILL</p> <p> GP/GC/SC - POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES AND CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES AND CLAYEY SANDS, MIXTURES AND CLAYEY SANDS, SAND-CLAY MIXTURES</p> <p> ML/CL - INORGANIC SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY, INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS</p> <p> GW/SW - WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES AND WELL-GRADED SAND, GRAVELLY SANDS, CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES</p> <p> GM/SM - SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES AND SILTY SANDS, SAND-SILT MIXTURES</p> |
|---|---|

Figure 5  
**GEOLOGIC CROSS SECTION B-B'**  
**UNOCAL STATION 3135 (UNION OIL SITE 351643)**  
845 66TH AVENUE  
Oakland, California



NW  
A

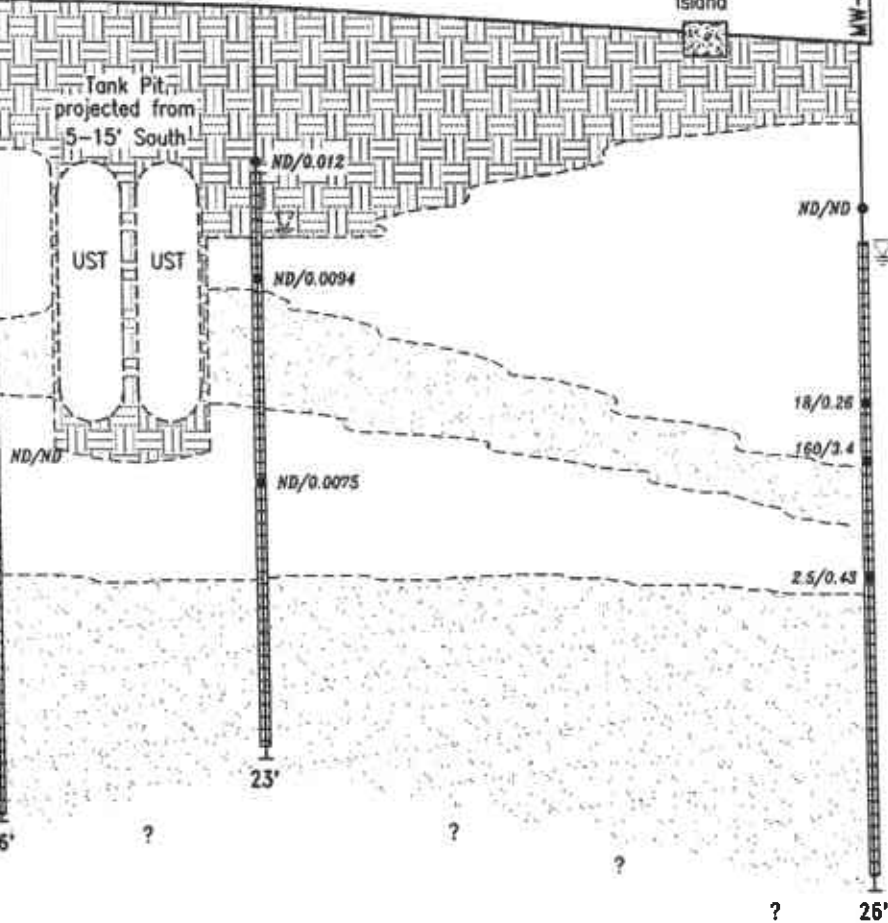
PROPERTY LINE

ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL

5  
0  
-5  
-10  
-15  
-20

MW-4

MW-1



PROPERTY LINE  
LINE OF CROSS SECTION B-B'

Dispenser Island

UST

UST

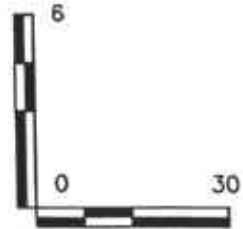
SE  
A'

0  
5  
10  
15  
20  
25

DEPTH IN FEET BELOW GROUND SURFACE

**EXPLANATION**

- Soil sample from boring
- ND/ND TPHg/Benzene concentrations in soil in ppm (1990)
- ND Not Detected
- ▽ Water Level (2/2/00)
- ▨ Fill
- ▤ Clay with silt, sand or gravel
- Clay
- ⊞ Well screen interval
- 23' Total Depth of Boring



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Dublin, CA 94588

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

FIGURE

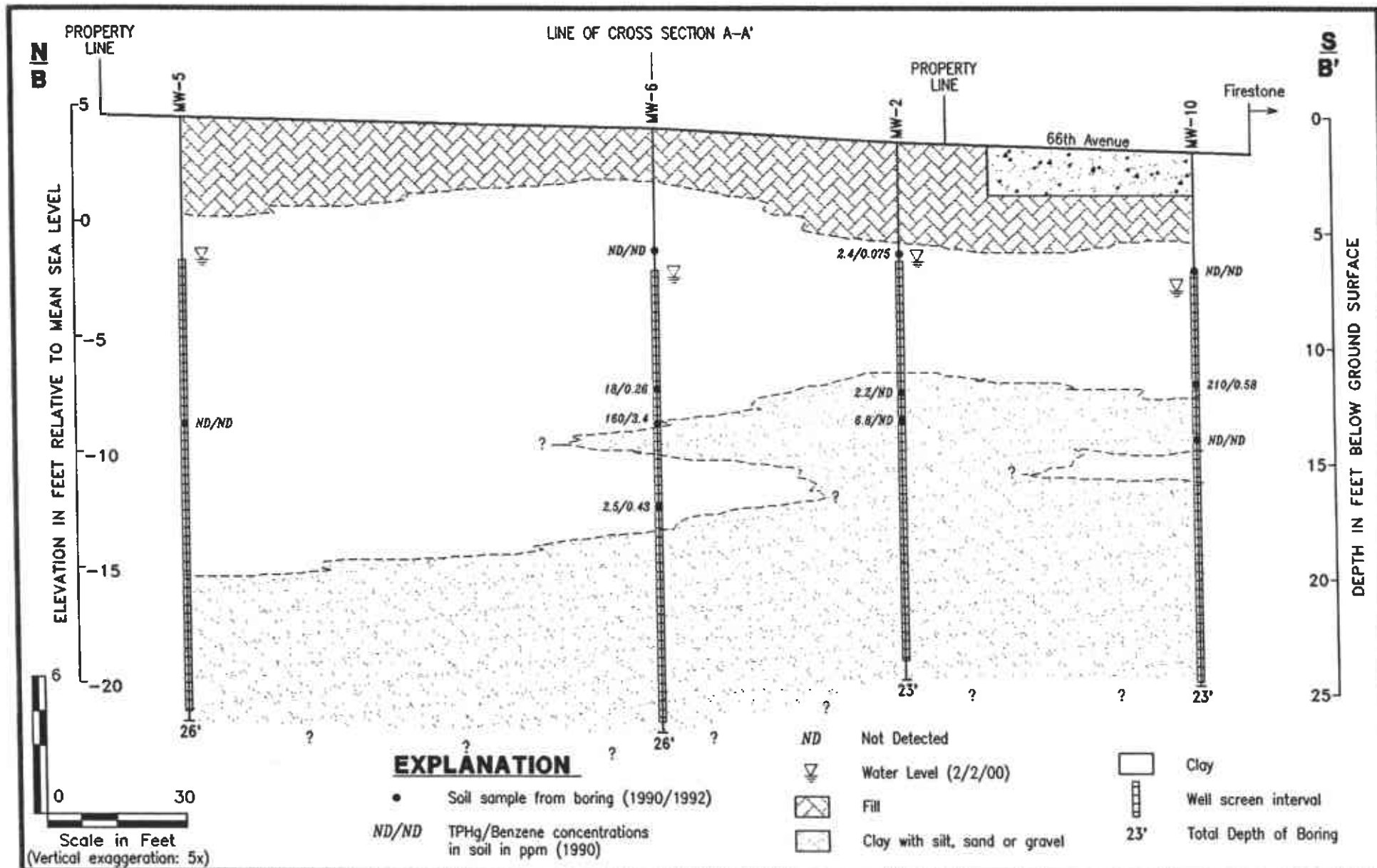
**3**

JOB NUMBER  
140070.03

REVIEWED BY

DATE  
02/00

REVISED DATE



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

FIGURE

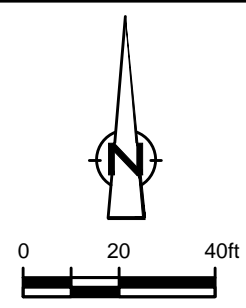
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JOB NUMBER  
140070.03

REVIEWED BY

DATE  
02/00

REVISED DATE

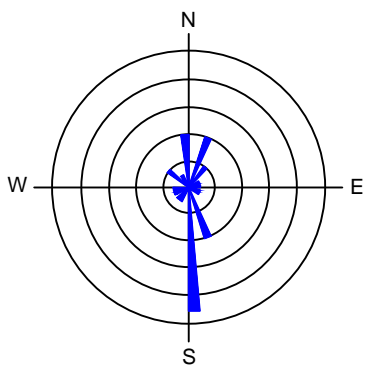


**LEGEND**

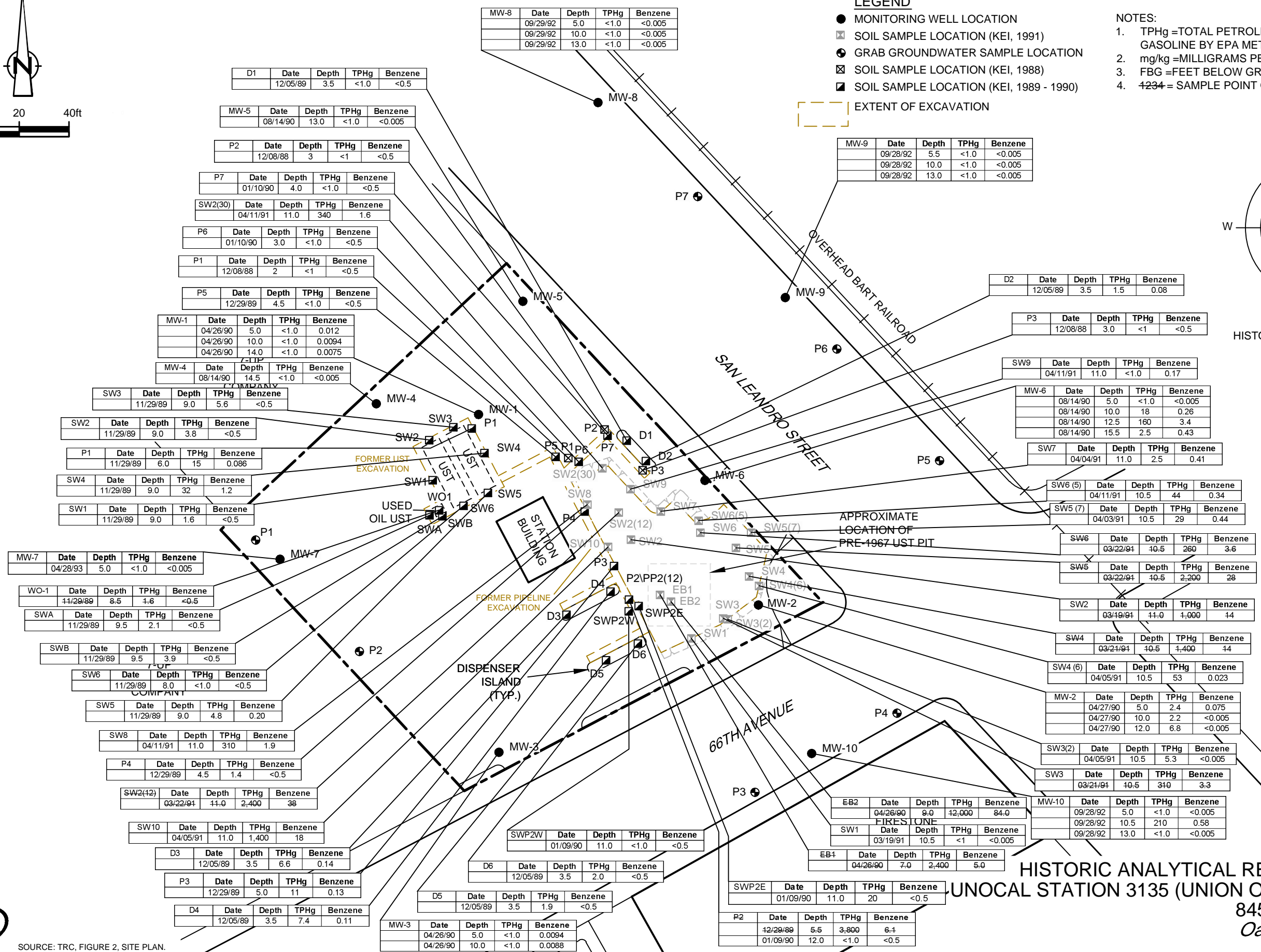
- MONITORING WELL LOCATION
- ⊠ SOIL SAMPLE LOCATION (KEI, 1991)
- ⊕ GRAB GROUNDWATER SAMPLE LOCATION
- ⊡ SOIL SAMPLE LOCATION (KEI, 1988)
- ⊣ SOIL SAMPLE LOCATION (KEI, 1989 - 1990)
- EXTENT OF EXCAVATION

**NOTES:**

1. TPHg =TOTAL PETROLEUM HYDROCARBONS AS GASOLINE BY EPA METHOD 8015
2. mg/kg =MILLIGRAMS PER KILOGRAM
3. FBG =FEET BELOW GRADE
4. 4234 = SAMPLE POINT OVEREXCAVATED



HISTORICAL GROUNDWATER FLOW DIRECTION 3Q1990 TO 1Q2012



**Figure 8**  
**HISTORIC ANALYTICAL RESULTS IN SOIL**  
**UNOCAL STATION 3135 (UNION OIL SITE 351643)**  
**845 66TH AVENUE**  
**Oakland, California**



SOURCE: TRC, FIGURE 2, SITE PLAN.

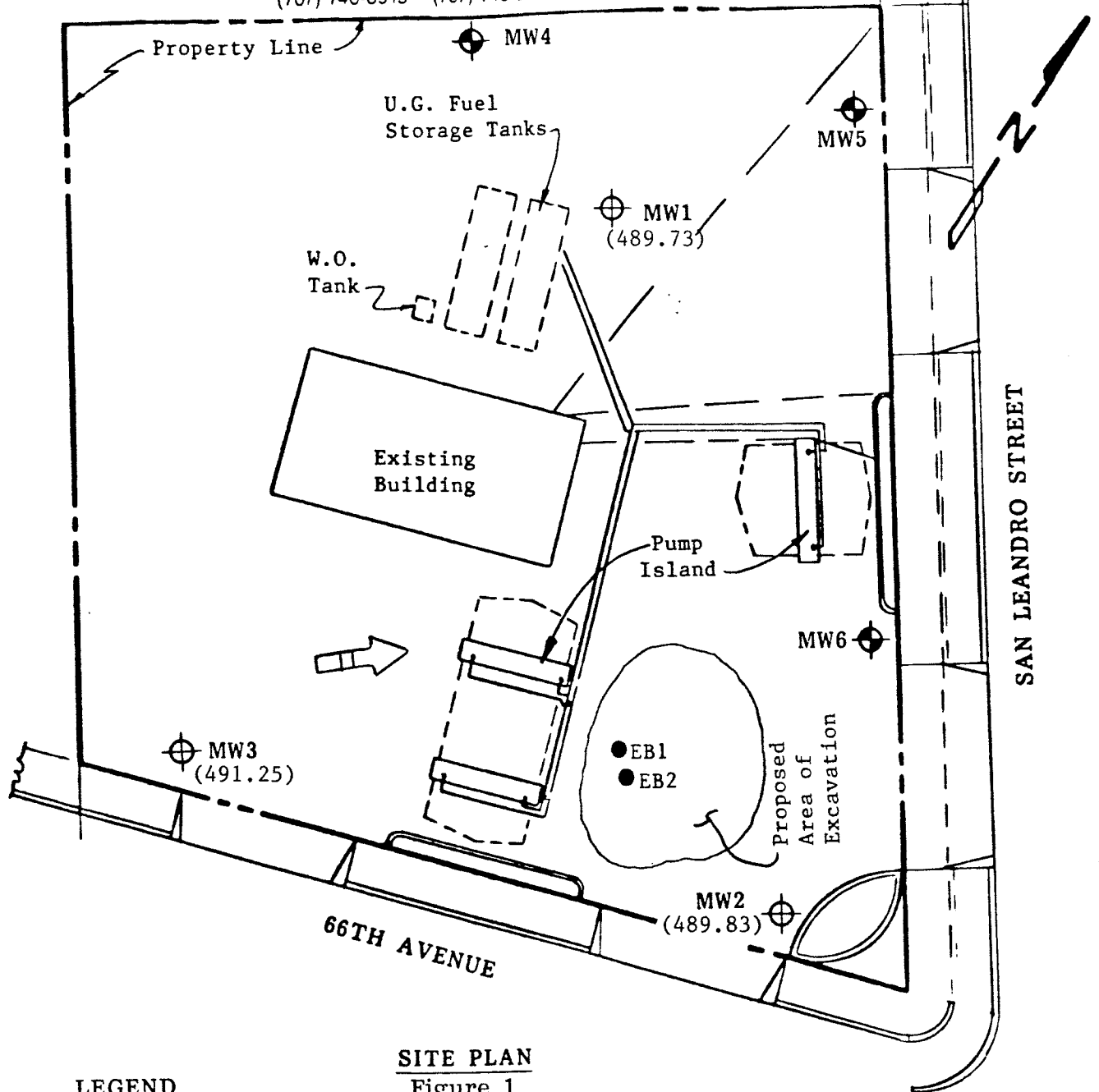


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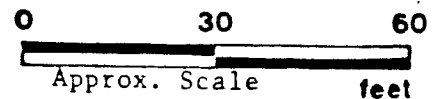


**SITE PLAN**  
Figure 1

### 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

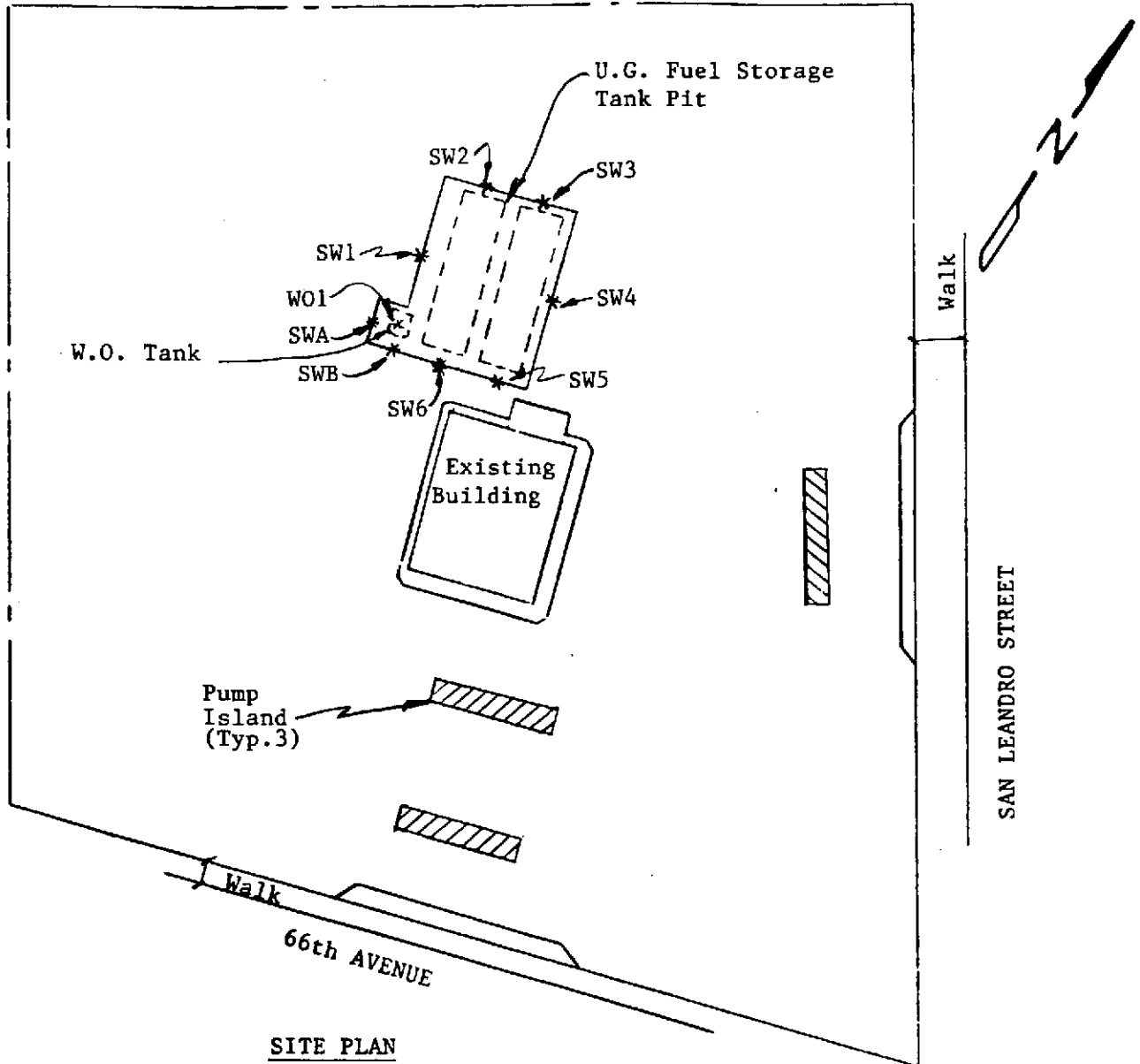




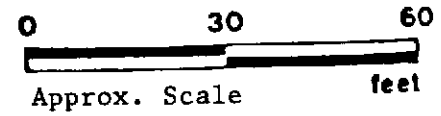
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SITE PLAN  
Figure 2



LEGEND

\* Sample Point Location

Unocal SS #3135  
845 66th AVENUE  
OAKLAND, CALIFORNIA

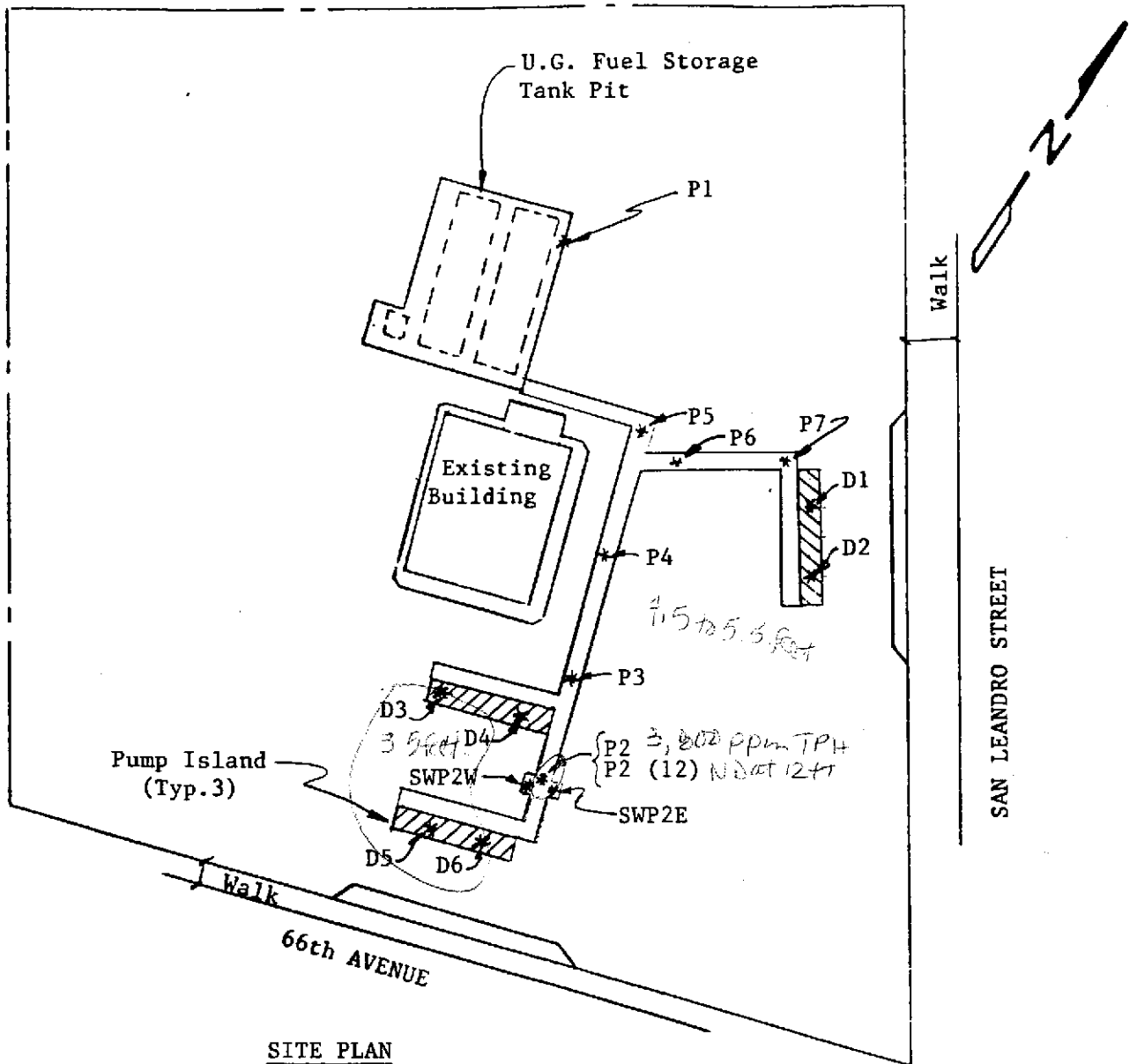


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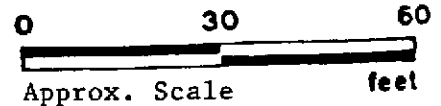
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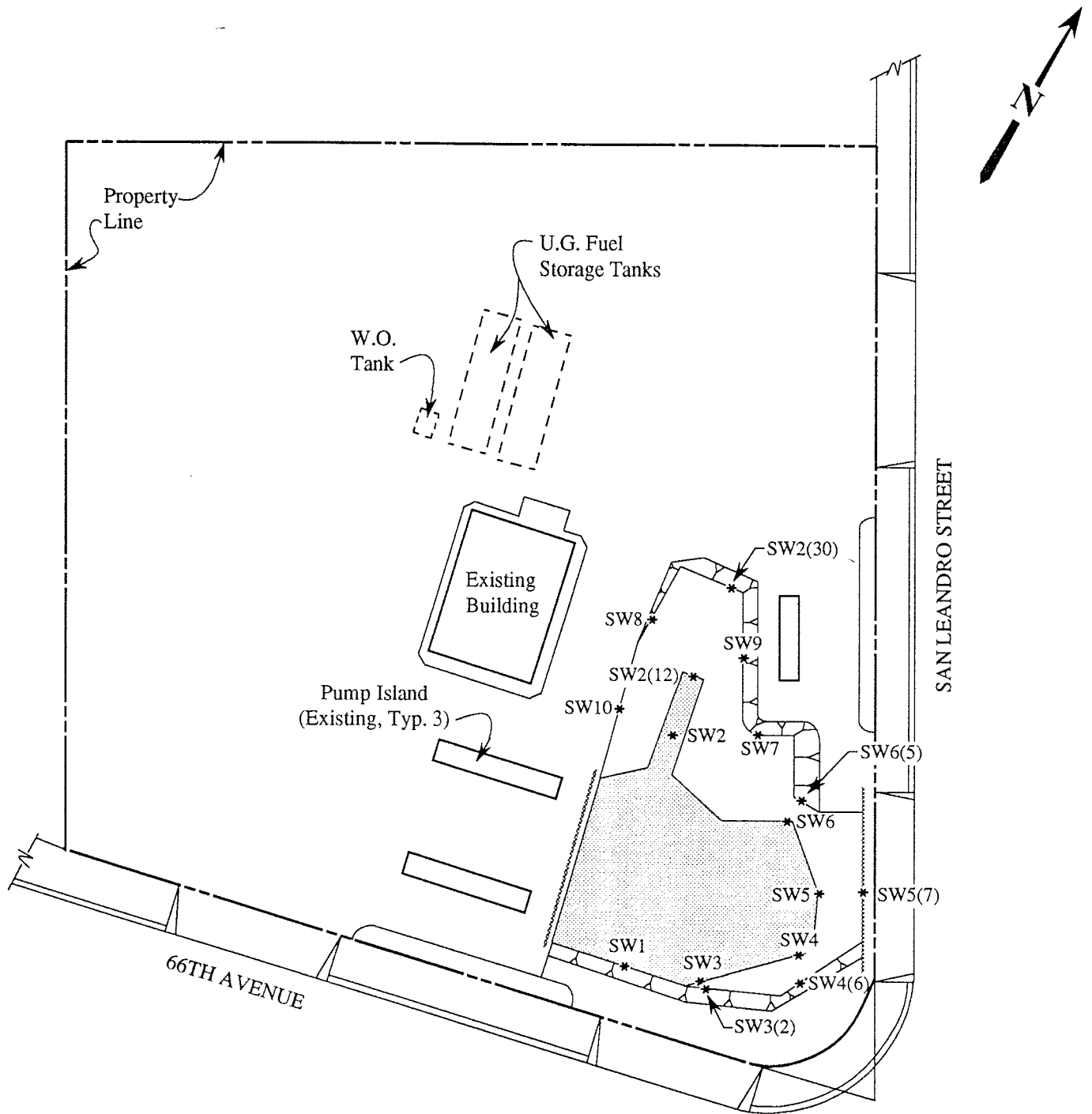
SITE PLAN  
Figure 3

### LEGEND

\* Sample Point Location



Unocal SS #3135  
845 66th AVENUE  
OAKLAND, CALIFORNIA

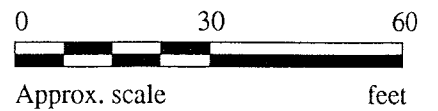


**LEGEND**

\* Sample Point Location

Intermediate excavation boundary

Shoring

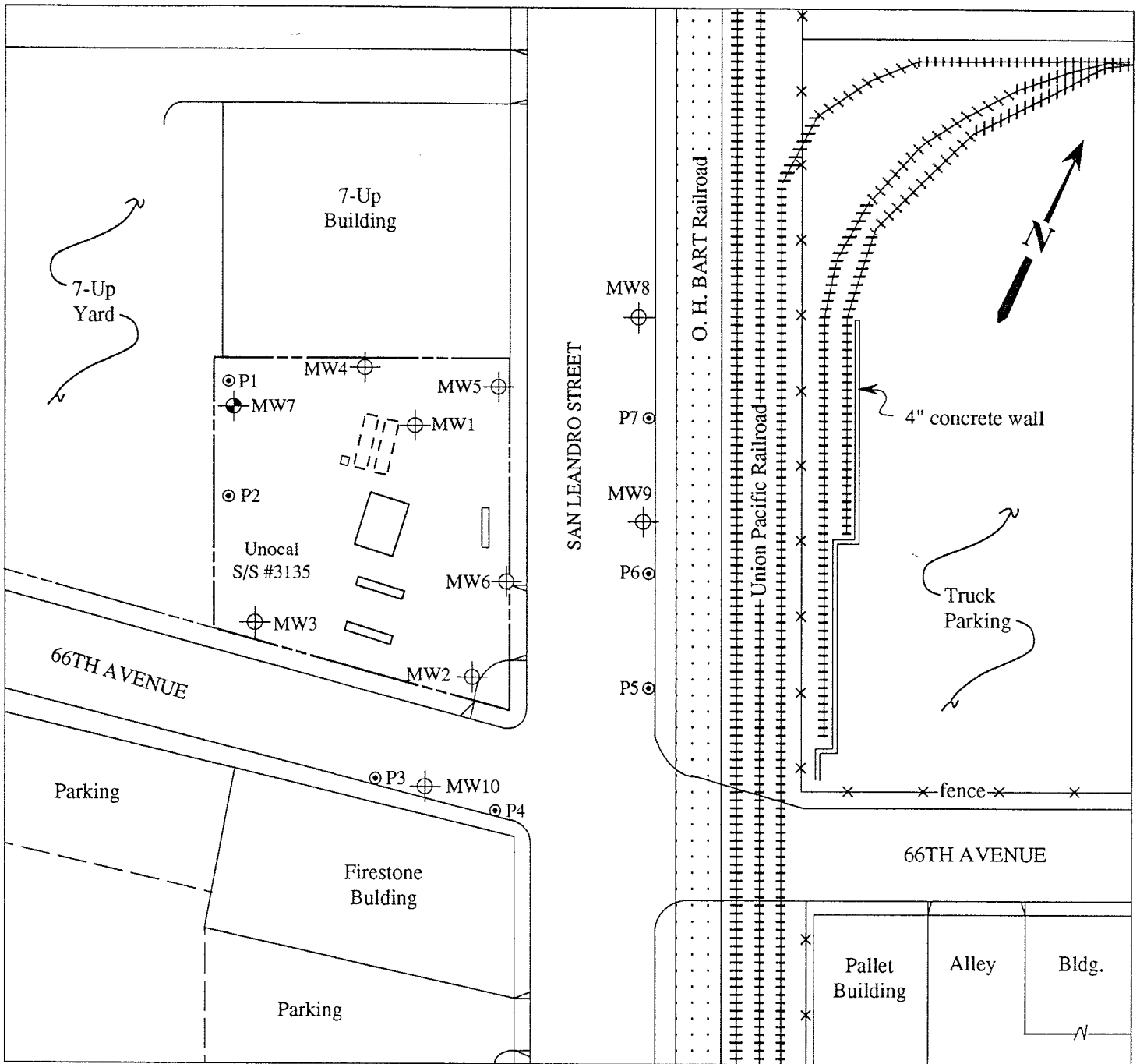


**SAMPLE POINT LOCATIONS MAP**



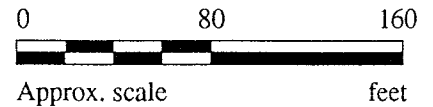
**UNOCAL SERVICE STATION #3135  
845 - 66TH AVENUE  
OAKLAND, CA**

**FIGURE  
5**



**LEGEND**

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



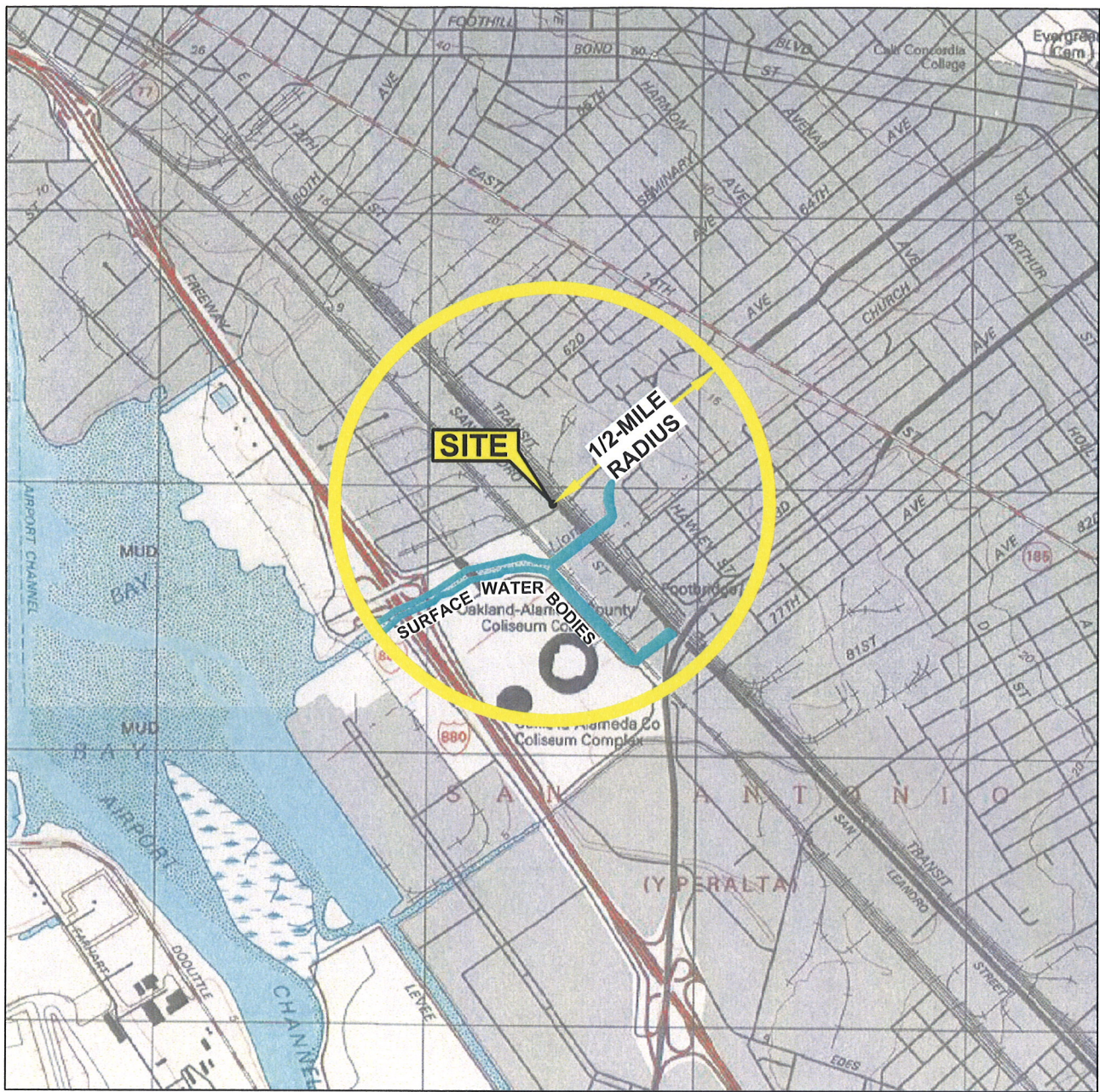
**MONITORING WELLS AND SAMPLE POINTS LOCATION MAP**



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

**FIGURE  
9**





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**

# ATTACHMENT 7

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA  
 CHEVRON STATION # 351643, FORMER UNOCAL STATION #3135  
 6535 SAN LEANDRO STREET  
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS		PRIMARY VOCS										GENERAL CHEMISTRY						
					TPH Diesel	TPPH (TPHg)	Benzene	Toluene	Ethylbenzene	Total Xylene	MTBE by SW8260	TBA	ETBE	DIPE	TAME	EDB	EDC	Ethanol	Ferrous iron	Nitrate	Sulfate		
		ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Environmental Screening Level (ESL) <sup>1</sup>					100	100	1	40	30	20	5	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/14/2012	4.96	7.15	-2.19	<40	63	<0.50	<0.50	<0.50	<1.0	1.3	10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	13000	<0.20	29		
MW-2	8/14/2012	3.56	5.87	-2.31	480	970	<0.50	<0.50	32	15	8.9	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	84000	<0.10	10		
MW-3	8/14/2012	3.12	5.23	-2.11	120	<50	<0.50	<0.50	<0.50	<1.0	1.8	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	5100	<0.10	62		
MW-4	8/14/2012	5.01	7.39	-2.38	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	330	1.9	46		
MW-5	8/14/2012	4.31	6.59	-2.28	<40	<50	<0.50	<0.50	<0.50	<1.0	0.62	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	6300	0.48	53		
MW-6	8/14/2012	4.05	6.45	-2.40	230	840	<0.50	<0.50	15	9.6	4.3	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	3600	<0.10	42		
MW-7	8/14/2012	4.45	6.58	-2.13	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	2200	<0.10	20		
MW-8	8/14/2012	4.43	7.00	-2.57	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	<0.10	37		
MW-9	8/14/2012	4.60	6.77	-2.17	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	<100	7.2	25		
MW-10	8/14/2012	2.69	5.40	-2.71	160	<50	<0.50	<0.50	<0.50	<1.0	3.8	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	2000	<0.10	28		
MW-11	8/14/2012	2.63	5.03	-2.40	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	--		
<b>Abbreviations and Notes:</b>																							
DTW = Depth to Water					EDB = 1,2-Dibromoethane (Ethylene dibromide)					TPPH= Total Purgeable Petroleum Hydrocarbons (TPHg)													
GWE = Groundwater elevation					EDC= 1,2-DCA or 1,2-Dichloroethane					VOCS = Volatile Organic Compounds													
(ft-amsl) = Feet Above Mean sea level					ETBE = Tert-Butyl ethyl ether					shaded = exceeds ESL													
ft = Feet					DIPE = Diisopropyl ether					<sup>1</sup> = Environmental Screening Level (Table F-1a) for groundwater that is a current or potential drinking water resource; Screening for Environmental Concerns at site with Contaminated Soil and Groundwater;													
µg/L = Micrograms per Liter					TAME = Tert-Amyl methyl ether					California Regional Water Quality Control Board - San Francisco Bay Region;													
-- = Not available / not applicable					TBA = Tert- butyl alcohol					Interim Final November 2007; revised May 2008.													
<x = Not detected above laboratory method detection limit.					TPH = Total Petroleum Hydrocarbons																		
TOC = Top of Casing					TPHg = Total Petroleum Hydrocarbons as Gasoline																		



TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
<b>MW-1</b>	5/11/1990	--	--	--	22000	--	590	42	1200	3600	--	--	--	--	--	--
	8/28/1990	--	--	--	1700	--	140	1.4	180	150	--	--	--	--	--	--
	11/26/1990	--	--	--	2900	--	160	2.3	330	320	--	--	--	--	--	--
	2/21/1991	--	--	--	26000	--	280	39	1200	1900	--	--	--	--	--	--
	8/5/1991	--	--	--	1200	--	95	6.2	230	80	--	--	--	--	--	--
	11/5/1991	--	--	--	4900	--	80	ND	150	160	--	--	--	--	--	--
	2/7/1992	--	--	--	220	--	2.1	ND	10	16	--	--	--	--	--	--
	5/5/1992	--	--	--	310	--	5.7	ND	7.1	15	--	--	--	--	--	--
	8/3/1992	--	--	--	980	--	22	0.69	77	82	--	--	--	--	--	--
	11/3/1992	--	--	--	1100	--	28	ND	80	78	--	--	--	--	--	--
	2/3/1993	--	--	--	94	--	ND	ND	1.4	1.6	--	--	--	--	--	--
	3/1/1993	5.18	7.30	-2.12	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	5.18	7.12	-1.94	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	5.18	8.25	-3.07	960	--	39	ND	57	60	--	--	--	--	--	--
	6/15/1993 <sup>1</sup>	5.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	5.18	9.48	-4.30	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	5.18	10.00	-4.82	860	--	3.5	ND	17	20	--	--	--	--	--	--
	9/13/1993	5.18	10.40	-5.22	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	5.18	10.73	-5.55	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.99	10.80	-5.81	930	--	7.3	ND	25	19	--	--	--	--	--	--
	12/14/1993	4.99	9.50	-4.51	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.99	9.80	-4.81	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.99	8.58	-3.59	170	--	0.9	2.3	ND	ND	--	--	--	--	--	--
	3/14/1994	4.99	7.73	-2.74	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	4.99	8.28	-3.29	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	4.99	8.11	-3.12	96	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/7/1994	4.99	8.09	-3.10	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	4.99	8.43	-3.44	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	4.99	8.76	-3.77	700	--	13	0.62	2	3.6	--	--	--	--	--	--
	11/7/1994	4.99	8.26	-3.27	890	--	16	ND	31	21	--	--	--	--	--	--
	12/3/1994	4.99	6.59	-1.60	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	4.99	6.12	-1.13	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	4.99	6.04	-1.05	120	--	1.7	ND	ND	ND	--	--	--	--	--	--
	3/3/1995	4.99	6.73	-1.74	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	4.99	6.57	-1.58	460	--	14	ND	14	13	--	--	--	--	--	--
	8/1/1995	4.99	7.70	-2.71	190	--	4	ND	3.7	2.4	--	--	--	--	--	--
	11/1/1995	4.99	9.08	-4.09	160	--	2.5	ND	0.82	0.57	280	--	--	--	--	--
	2/1/1996	4.99	6.22	-1.23	240	--	8.7	2	ND	0.66	250	--	--	--	--	--
	2/4/1997	4.99	8.48	-3.49	120	--	0.58	ND	ND	ND	150	--	--	--	--	--
	2/5/1998	4.99	5.50	-0.51	130	--	1.3	ND	2.7	11	220	--	--	--	--	--
	2/4/1999	4.99	6.58	-1.59	1600	--	74	16	ND	ND	680	850	--	7.0	4.4	-54



TABLE 2

**GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA**

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
<b>MW-1</b>	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	3300	--	--	470
	2/2/2000	4.99	6.69	-1.70	174	--	5.70	1.41	ND	ND	839	787	45.6	ND	13.7	484
	3/5/2001	4.99	6.58	-1.59	510	--	12.7	0.875	2.57	ND	572	585	16.1	3.41	7.12	492
	8/10/2001	4.99	7.31	-2.32	--	--	--	--	--	--	--	--	--	--	--	--
	2/22/2002	4.96	6.25	-1.29	910	--	2	<1.0	2.3	<1.0	410	500	<100	<0.50	3.4	210
	3/10/2003	4.96	6.89	-1.93	--	<500	<5.0	<5.0	<5.0	<10	--	480	4200	<1.0	8.3	180
	2/5/2004	4.96	6.40	-1.44	--	600	<0.50	<0.50	<0.50	2.7	--	36	3000	<1.0	3.4	--
	8/26/2004	4.96	7.60	-2.64	--	290	<0.5	<0.5	<0.5	<1	--	4.6	3200	<0.88	11	--
	2/14/2005	4.96	6.53	-1.57	--	230	<0.50	<0.50	<0.50	<1.0	--	26	2000	<1.0	41	-89
	9/27/2005	4.96	7.93	-2.97	--	190	<0.50	<0.50	<0.50	<1.0	--	1.2	6200	<0.10	52	--
	3/27/2006	4.96	5.41	-0.45	--	460	<0.50	<0.50	0.91	<1.0	--	4.7	2700	<1.0	22	--
	9/20/2006	4.96	7.70	-2.74	--	220	<0.50	<0.50	<0.50	<0.50	--	1.8	4900	<0.10	23	--
	3/20/2007	4.96	6.45	-1.49	--	300	<0.50	<0.50	<0.50	<0.50	--	2.6	4700	<0.10	26	--
	9/26/2007	4.96	7.94	-2.98	--	69	<0.50	<0.50	<0.50	<0.50	--	3.1	2200	<0.10	65	--
	3/24/2008	4.96	6.61	-1.65	--	250	<0.50	<0.50	<0.50	<1.0	--	2.2	2800	<0.10	24	--
	9/17/2008	4.96	7.84	-2.88	--	140	<0.50	<0.50	<0.50	<1.0	--	2.5	18000	<0.10	68	--
	3/24/2009	4.96	6.16	-1.20	--	460	<0.50	<0.50	<0.50	<1.0	--	1.9	5600	<0.10	20	--
	9/23/2009	4.96	7.74	-2.78	--	110	<0.50	<0.50	<0.50	<1.0	--	2.2	5100	<0.10	58	--
	3/22/2010	4.96	5.94	-0.98	--	290	<0.50	<0.50	0.52	<1.0	--	1.4	2000	<0.10	18	--
	9/27/2010	4.96	7.73	-2.77	--	89	<0.50	<0.50	0.52	<1.0	--	1.8	12000	<0.10	33	--
	3/22/2011	4.96	5.34	-0.38	--	540	<0.50	<0.50	0.52	<1.0	--	1.4	12000	<0.10	12	--
	09/07/2011	4.96	7.04	-2.08	--	140	<0.50	<0.50	<0.50	<1.0	--	0.92	17000	<0.10	16	--
	02/06/2012	4.96	6.38	-1.42	--	63	<0.50	<0.50	<0.50	<1.0	--	2.6	11000	<0.10	33	--
<b>MW-2</b>	5/11/1990	--	--	--	65000	--	3300	3300	4100	12000	--	--	--	--	--	--
	8/28/1990	--	--	--	27000	--	2600	1300	1900	3000	--	--	--	--	--	--
	11/26/1990	--	--	--	15000	--	1600	450	1100	2100	--	--	--	--	--	--
	2/21/1991	--	--	--	3400	--	160	61	200	490	--	--	--	--	--	--
	8/5/1991	--	--	--	33000	--	2900	190	3400	7900	--	--	--	--	--	--
	11/5/1991	--	--	--	110000	--	4200	200	3400	8600	--	--	--	--	--	--
	2/7/1992	--	--	--	11000	--	1400	30	1900	1400	--	--	--	--	--	--
	5/5/1992	--	--	--	26000	--	2300	110	2700	6900	--	--	--	--	--	--
	8/3/1992	--	--	--	37000	--	4500	480	3300	9700	--	--	--	--	--	--
	11/3/1992	--	--	--	40000	--	5600	130	3000	6100	--	--	--	--	--	--
	2/3/1993	--	--	--	9300	--	780	68	830	1200	--	--	--	--	--	--
	3/1/1993	3.83	5.92	-2.09	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	3.83	5.76	-1.93	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	3.83	7.08	-3.25	46000	--	4400	510	2900	9900	--	--	--	--	--	--
	6/15/1993	3.83	7.02	-3.19	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	3.83	8.13	-4.30	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	3.83	8.64	-4.81	44000	--	5100	600	2900	8500	--	--	--	--	--	--

TABLE 2

**GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA**

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
<b>MW-2</b>	9/13/1993	3.83	9.00	-5.17	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	3.83	9.03	-5.20	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	3.57	9.22	-5.65	36000	--	4800	970	3000	8100	--	--	--	--	--	--
	12/14/1993	3.57	8.05	-4.48	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	3.57	8.29	-4.72	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	3.57	6.93	-3.36	12000	--	1000	17	880	940	--	--	--	--	--	--
	3/14/1994	3.57	6.41	-2.84	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	3.57	6.66	-3.09	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	3.57	6.38	-2.81	36000	--	3200	670	2700	9600	--	--	--	--	--	--
	6/7/1994	3.57	6.33	-2.76	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	3.57	6.52	-2.95	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	3.57	6.75	-3.18	32000	--	2400	2200	2900	12000	--	--	--	--	--	--
	11/7/1994	3.57	6.04	-2.47	49000	--	1700	2000	3000	10000	--	--	--	--	--	--
	12/3/1994	3.57	4.95	-1.38	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	3.57	4.59	-1.02	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	3.57	4.54	-0.97	9300	--	300	210	630	2600	--	--	--	--	--	--
	3/3/1995	3.57	5.17	-1.60	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	3.57	5.03	-1.46	5600	--	150	ND	150	180	--	--	--	--	--	--
	8/1/1995	3.57	6.16	-2.59	13000	--	700	140	1400	5500	--	--	--	--	--	--
	11/1/1995	3.57	7.30	-3.73	18000	--	490	110	1300	4600	190	--	--	--	--	--
	2/1/1996	3.57	4.57	-1.00	22000	--	470	77	1400	5900	ND	--	--	--	--	--
	2/4/1997	3.57	7.10	-3.53	100	--	ND	0.89	ND	ND	81	--	--	--	--	--
	2/5/1998	3.57	4.12	-0.55	330	--	2.6	2.6	17	58	5.5	--	--	--	--	--
	8/28/1998	3.57	6.26	-2.69	--	--	--	--	--	--	--	--	--	--	--	--
	2/4/1999	3.57	5.01	-1.44	ND	--	ND	0.54	0.6	1.5	19	16	--	ND	12	-104
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	4300	--	--	380
	2/2/2000	3.57	5.35	-1.78	ND	--	ND	ND	ND	ND	163	150	1700	ND	15.2	55.3
	3/5/2001	3.57	5.26	-1.69	658	--	5.53	ND	70	152	108	--	81.2	2.91	53.7	480
	8/10/2001	3.57	6.03	-2.46	--	--	--	--	--	--	--	--	--	--	--	--
	2/22/2002	3.56	4.81	-1.25	<50	--	<0.50	<0.50	<0.50	<0.50	16	18	<100	<0.50	38	270
	3/10/2003	3.56	6.72	-3.16	--	430	2.8	<0.50	48	76	--	68	11000	<1.0	34	110
	2/5/2004	3.56	4.65	-1.09	--	<50	<0.50	<0.50	<0.50	<1.0	--	10	7600	<1.0	26	--
	8/26/2004	3.56	5.86	-2.30	--	210	<0.5	<0.5	0.62	1.1	--	1.7	7000	<0.44	3.3	--
	2/14/2005	3.56	5.39	-1.83	--	290	<0.50	<0.50	1.8	1.9	--	5.7	4600	<1.0	24	--
	9/27/2005	3.56	6.53	-2.97	--	580	0.91	<0.50	16	21	--	45	32000	<0.10	4.2	--
	3/27/2006	3.56	5.25	-1.69	--	1800	4.3	<0.50	81	84	--	32	37000	<0.10	15	--
	9/20/2006	3.56	6.39	-2.83	--	520	<0.50	<0.50	2.8	1.9	--	32	24000	<0.10	9.4	--
	3/20/2007	3.56	5.17	-1.61	--	2100	2.2	<0.50	62	52	--	31	64000	<0.10	2.7	--
	9/26/2007	3.56	6.52	-2.96	--	790	2.3	<0.50	49	47	--	25	21000	<0.10	<1.0	--
	3/24/2008	3.56	5.31	-1.75	--	1600	1.5	<0.50	56	35	--	35	20000	<0.10	27	--
	9/17/2008	3.56	6.45	-2.89	--	710	<0.50	<0.50	7.5	3.7	--	23	140000	<0.10	2.1	--

TABLE 2

**GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA**

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
<b>MW-2</b>	3/24/2009	3.56	5.74	-2.18	--	2000	1.5	<0.50	39	21	--	18	78000	<0.10	21	--
	9/23/2009	3.56	6.43	-2.87	--	1400	2.1	<0.50	62	56	--	11	63000	<0.10	2.6	--
	3/22/2010	3.56	5.41	-1.85	--	1400	<0.50	<0.50	13	5.9	--	13	32000	<0.10	33	--
	9/27/2010	3.56	6.46	-2.90	--	910	0.52	<0.50	25	13	--	13	110000	<0.10	4.5	--
	3/22/2011	3.56	4.93	-1.37	--	1100	<0.50	<0.50	18	5.9	--	10	26000	<0.10	15	--
	09/07/2011	3.56	4.98	-1.42	--	480	<0.50	<0.50	6.4	2.5	--	8.9	44000	<0.10	<1.0	--
	02/06/2012	3.56	5.42	-1.86	--	930	<0.50	<0.50	2.3	<1.0	--	7.5	49000	<0.10	6.0	--
<b>MW-3</b>	5/11/1990	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	8/28/1990	--	--	--	ND	--	ND	ND	ND	0.7	--	--	--	--	--	--
	11/26/1990	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	2/21/1991	--	--	--	ND	--	ND	ND	ND	0.64	--	--	--	--	--	--
	8/5/1991	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/5/1991	--	--	--	31	--	ND	ND	ND	0.65	--	--	--	--	--	--
	2/7/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	5/5/1992	--	--	--	ND	--	ND	ND	0.43	1.8	--	--	--	--	--	--
	8/3/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/3/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	2/3/1993	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/1/1993	3.30	4.84	-1.54	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	3.30	4.60	-1.30	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	3.30	5.47	-2.17	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/15/1993	3.30	5.57	-2.27	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	3.30	6.92	-3.62	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	3.30	7.85	-4.55	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	9/13/1993	3.30	8.42	-5.12	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	3.30	8.90	-5.60	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	3.12	8.92	-5.80	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/14/1993	3.12	7.36	-4.24	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	3.12	7.54	-4.42	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	3.12	6.23	-3.11	ND	--	ND	ND	ND	0.84	--	--	--	--	--	--
	3/14/1994	3.12	5.56	-2.44	--	--	--	--	--	--	--	--	--	--	--	--
4/23/1994	3.12	7.72	-4.60	--	--	--	--	--	--	--	--	--	--	--	--	
5/5/1994	3.12	5.50	-2.38	62	--	ND	ND	ND	ND	--	--	--	--	--	--	
6/7/1994	3.12	5.35	-2.23	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/1994	3.12	5.46	-2.34	--	--	--	--	--	--	--	--	--	--	--	--	
8/2/1994	3.12	5.84	-2.72	150	--	ND	ND	ND	ND	--	--	--	--	--	--	
11/7/1994	3.12	6.05	-2.93	94	--	ND	ND	ND	ND	--	--	--	--	--	--	
12/3/1994	3.12	4.51	-1.39	--	--	--	--	--	--	--	--	--	--	--	--	
1/10/1995	3.12	3.82	-0.70	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/1995	3.12	3.84	-0.72	100	--	ND	ND	ND	ND	--	--	--	--	--	--	

TABLE 2

**GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA**

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
<b>MW-3</b>	3/3/1995	3.12	4.27	-1.15	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	3.12	4.11	-0.99	360	--	ND	ND	ND	ND	--	--	--	--	--	--
	8/1/1995	3.12	5.10	-1.98	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/1/1995	3.12	6.65	-3.53	ND	--	ND	ND	ND	ND	200	--	--	--	--	--
	2/1/1996	3.12	4.29	-1.17	ND	--	ND	ND	ND	ND	190	--	--	--	--	--
	2/4/1997	3.12	6.43	-3.31	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/5/1998	3.12	4.68	-1.56	ND	--	ND	ND	ND	ND	490	--	--	--	--	--
	2/4/1999	3.12	4.62	-1.50	ND	--	ND	ND	ND	ND	480	530	--	ND	47	-064
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	1400	--	--	460
	2/2/2000	3.12	5.16	-2.04	ND	--	ND	ND	ND	ND	250	346	123	ND	26	45
	3/5/2001	3.12	5.07	-1.95	ND	--	ND	ND	ND	ND	167	--	27.9	3.52	70.1	476
	8/10/2001	3.12	5.82	-2.70	--	--	--	--	--	--	--	--	--	--	--	--
	2/22/2002	3.12	4.58	-1.46	<50	--	<0.50	<0.50	<0.50	<0.50	240	280	<100	<0.50	49	250
	3/10/2003	3.12	4.73	-1.61	--	<50	<0.50	<0.50	<0.50	<1.0	--	100	10000	<1.0	76	200
	2/5/2004	3.12	4.20	-1.08	--	<50	<0.50	<0.50	<0.50	<1.0	--	11	7300	<1.0	68	--
	8/26/2004	3.12	5.61	-2.49	--	<50	<0.5	<0.5	<0.5	<1	--	2.9	7200	<0.44	15	--
	2/14/2005	3.12	4.98	-1.86	--	<50	<0.50	<0.50	<0.50	<1.0	--	5.2	2200	<1.0	50	-58
	9/27/2005	3.12	6.05	-2.93	--	<50	<0.50	<0.50	<0.50	<1.0	--	3.6	7900	<0.10	34	--
	3/27/2006	3.12	5.22	-2.10	--	<50	<0.50	<0.50	<0.50	<1.0	--	3.3	7300	<0.20	120	--
	9/20/2006	3.12	5.82	-2.70	--	<50	<0.50	<0.50	<0.50	<0.50	--	4.3	6100	<0.10	94	--
	3/20/2007	3.12	5.25	-2.13	--	<50	<0.50	<0.50	<0.50	<0.50	--	3.2	7900	<0.10	95	--
	9/26/2007	3.12	6.05	-2.93	--	<50	<0.50	<0.50	<0.50	<0.50	--	3.8	8000	<0.10	57	--
	3/24/2008	3.12	5.30	-2.18	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.4	7400	<0.10	76	--
	9/17/2008	3.12	5.94	-2.82	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.5	12000	<0.10	39	--
	3/24/2009	3.12	5.19	-2.07	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.2	6500	<0.10	110	--
	9/23/2009	3.12	5.82	-2.70	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.6	3900	<0.10	52	--
	3/22/2010	3.12	5.00	-1.88	--	<50	<0.50	<0.50	<0.50	<1.0	--	0.90	1100	<0.10	53	--
9/27/2010	3.12	5.83	-2.71	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.2	4400	<0.10	32	--	
3/22/2011	3.12	4.85	-1.73	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.0	9100	<0.10	89	--	
09/07/2011	3.12	5.15	-2.03	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.4	11000	<0.10	42	--	
02/06/2012	3.12	4.98	-1.86	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.6	9700	<0.10	38	--	
<b>MW-4</b>	8/28/1990	--	--	--	62000	--	810	72	4400	4600	--	--	--	--	--	--
	11/26/1990	--	--	--	49000	--	360	36	3800	11000	--	--	--	--	--	--
	2/21/1991	--	--	--	33000	--	210	21	3800	12000	--	--	--	--	--	--
	8/5/1991	--	--	--	37000	--	310	70	3600	9700	--	--	--	--	--	--
	11/5/1991	--	--	--	140000	--	320	ND	4800	13000	--	--	--	--	--	--
	2/7/1992	--	--	--	8100	--	24	4.9	1800	3200	--	--	--	--	--	--
	5/5/1992	--	--	--	15000	--	82	12	2000	5600	--	--	--	--	--	--
	8/3/1992	--	--	--	24000	--	61	ND	2100	5400	--	--	--	--	--	--
	11/3/1992	--	--	--	36000	--	69	ND	3000	7400	--	--	--	--	--	--

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA

	Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	Ground- Water Elevation (feet)	TPH-G (8015) (µg/l)	TPH-G (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Iron Ferrous (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Redox Potential (ORP-Lab)
MW-4	2/3/1993	--	--	--	370	--	2.6	ND	1.2	53	--	--	--	--	--	--
	3/1/1993	5.27	7.63	-2.36	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	5.27	7.25	-1.98	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	5.27	8.46	-3.19	2500	--	ND	ND	170	410	--	--	--	--	--	--
	6/15/1993	5.27	9.00	-3.73	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	5.27	9.74	-4.47	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	5.27	10.23	-4.96	19000	--	ND	ND	1600	4100	--	--	--	--	--	--
	9/13/1993	5.27	10.62	-5.35	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	5.27	10.84	-5.57	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.93	10.88	-5.95	16000	--	110	12	1800	3800	--	--	--	--	--	--
	12/14/1993	4.93	9.60	-4.67	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.93	9.92	-4.99	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.93	8.79	-3.86	830	--	3.5	1.4	36	80	--	--	--	--	--	--
	3/14/1994	4.93	7.91	-2.98	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	4.93	8.41	-3.48	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	4.93	8.27	-3.34	6900	--	17	ND	480	1300	--	--	--	--	--	--
	6/7/1994	4.93	8.27	-3.34	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	4.93	8.58	-3.65	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	4.93	8.91	-3.98	17000	--	38	ND	1800	4300	--	--	--	--	--	--
	11/7/1994	4.93	8.64	-3.71	20000	--	84	17	1500	3000	--	--	--	--	--	--
	12/3/1994	4.93	6.78	-1.85	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	4.93	6.35	-1.42	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	4.93	5.73	-0.80	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/3/1995	4.93	6.82	-1.89	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	4.93	5.74	-0.81	5400	--	36	ND	130	710	--	--	--	--	--	--
	8/1/1995	4.93	7.78	-2.85	7900	--	21	ND	210	860	--	--	--	--	--	--
	11/1/1995	4.93	9.16	-4.23	4900	--	12	ND	190	710	210	--	--	--	--	--
	2/1/1996	4.93	4.64	0.29	91	--	2.7	ND	1.2	6.8	7.8	--	--	--	--	--
	2/4/1997	4.93	8.65	-3.72	130	--	0.58	ND	ND	ND	150	--	--	--	--	--
	2/5/1998 <sup>2</sup>	4.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/4/1999	4.93	4.04	0.89	ND	--	ND	ND	ND	ND	ND	--	5.4	15	7	7
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	6000	--	--	610
	2/2/2000	4.93	4.07	0.86	ND	--	ND	ND	ND	ND	ND	--	3000	10.3	38.4	61
	3/5/2001	4.93	4.14	0.79	ND	--	ND	ND	ND	ND	2.55	--	114	4.63	5.65	474
	8/10/2001	4.93	4.77	0.16	--	--	--	--	--	--	--	--	--	--	--	--
	2/22/2002	5.01	3.87	1.14	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	260	15	27	590
	3/10/2003	5.01	4.12	0.89	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	1200	15	42	230
	2/5/2004	5.01	5.30	-0.29	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	<200	<1.0	25	--
	8/26/2004	5.01	7.68	-2.67	--	<50	<0.5	<0.5	<0.5	<1	--	0.50	160	0.64	87	--
	2/14/2005	5.01	5.33	-0.32	--	240	<0.50	<0.50	<0.50	<1.0	--	<0.50	67	37	54	15
	9/27/2005	5.01	7.97	-2.96	--	300	<0.50	<0.50	<0.50	<1.0	--	<0.50	120	0.46	63	--



TABLE 2

**GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA**

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
<b>MW-4</b>	3/27/2006	5.01	5.31	-0.30	--	230	<0.50	<0.50	<0.50	<1.0	--	<0.50	160	14	51	--
	9/20/2006	5.01	7.74	-2.73	--	490	<0.50	<0.50	0.52	<0.50	--	<0.50	250	0.39	50	--
	3/20/2007	5.01	4.16	0.85	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	540	7.3	40	--
	9/26/2007	5.01	8.02	-3.01	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	<100	0.47	52	--
	3/24/2008	5.01	5.47	-0.46	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	160	6.9	42	--
	9/17/2008	5.01	8.06	-3.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	15000	<0.10	49	--
	3/24/2009	5.01	5.64	-0.63	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<500	9.0	45	--
	9/23/2009	5.01	7.95	-2.94	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<500	0.66	46	--
	3/22/2010	5.01	5.60	-0.59	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	13	50	--
	9/27/2010	5.01	7.95	-2.94	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<1000	2.3	51	--
	3/22/2011	5.01	4.93	0.08	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<200	12	52	--
	09/07/2011	5.01	7.15	-2.14	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<200	4.7	56	--
	02/06/2012	5.01	7.06	-2.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	200	1.8	55	--
<b>MW-5</b>	8/28/1990	--	--	--	ND	--	ND	ND	ND	1.2	--	--	--	--	--	--
	11/26/1990	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	2/21/1991	--	--	--	56	--	ND	ND	ND	4.7	--	--	--	--	--	--
	8/5/1991	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/5/1991	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	2/7/1992	--	--	--	ND	--	ND	ND	0.36	0.94	--	--	--	--	--	--
	5/5/1992	--	--	--	ND	--	ND	ND	0.42	1.4	--	--	--	--	--	--
	8/3/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/3/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	2/3/1993	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/1/1993	4.61	6.68	-2.07	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	4.61	6.51	-1.90	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	4.61	7.75	-3.14	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/15/1993	4.61	8.18	-3.57	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	4.61	8.98	-4.37	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	4.61	9.49	-4.88	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	9/13/1993	4.61	9.88	-5.27	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	4.61	10.04	-5.43	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.27	10.13	-5.86	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/14/1993	4.27	8.85	-4.58	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.27	9.10	-4.83	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.27	7.71	-3.44	ND	--	ND	ND	ND	0.59	--	--	--	--	--	--
	3/14/1994	4.27	7.02	-2.75	--	--	--	--	--	--	--	--	--	--	--	--
4/23/1994	4.27	7.57	-3.30	--	--	--	--	--	--	--	--	--	--	--	--	
5/5/1994	4.27	7.38	-3.11	--	--	--	--	--	--	--	--	--	--	--	--	
6/7/1994	4.27	7.39	-3.12	--	--	--	--	--	--	--	--	--	--	--	--	
7/5/1994	4.27	7.72	-3.45	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 2

**GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA**

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>	
<b>MW-5</b>	8/2/1994	4.27	8.05	-3.78	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	
	11/7/1994	4.27	7.56	-3.29	--	--	--	--	--	--	--	--	--	--	--	--	
	12/3/1994	4.27	5.80	-1.53	--	--	--	--	--	--	--	--	--	--	--	--	
	1/10/1995	4.27	5.37	-1.10	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	4.27	5.24	-0.97	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--
	3/3/1995	4.27	5.99	-1.72	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	4.27	5.85	-1.58	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/1995	4.27	7.00	-2.73	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--
	11/1/1995	4.27	8.40	-4.13	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1996	4.27	5.45	-1.18	ND	--	ND	ND	ND	ND	0.72	--	--	--	--	--	--
	2/4/1997	4.27	7.82	-3.55	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	2/5/1998	4.27	3.85	0.42	ND	--	ND	ND	ND	ND	490	--	--	--	--	--	--
	2/4/1999	4.27	5.85	-1.58	ND	--	ND	ND	ND	ND	23	26	--	10	79	102	--
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	160	--	--	480
	2/2/2000	4.27	5.94	-1.67	ND	--	ND	ND	ND	ND	ND	--	--	20.8	12.1	98.4	83.7
	3/5/2001	4.27	5.85	-1.58	ND	--	ND	ND	ND	ND	ND	--	--	123	3.49	5.43	470
	8/10/2001	4.27	6.53	-2.26	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/22/2002	4.31	5.54	-1.23	<50	--	<0.50	<0.50	<0.50	<0.50	9.6	11	<100	<0.50	39	630	--
	3/10/2003	4.31	6.93	-2.62	--	<50	<0.50	<0.50	<0.50	<1.0	--	6.6	2400	<1.0	47	230	--
	2/5/2004	4.31	6.72	-2.41	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.7	6900	<1.0	33	--	--
	8/26/2004	4.31	6.90	-2.59	--	<50	<0.5	2.8	0.56	3.2	--	2.9	3100	1.8	36	--	--
	2/14/2005	4.31	5.83	-1.52	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.4	1700	2.7	54	-64	--
	9/27/2005	4.31	7.51	-3.20	--	<50	<0.50	<0.50	<0.50	<1.0	--	0.55	2500	1.4	68	--	--
	3/27/2006	4.31	4.63	-0.32	--	<50	<0.50	<0.50	<0.50	<1.0	--	0.92	2700	0.75	59	--	--
	9/20/2006	4.31	6.96	-2.65	--	<50	<0.50	<0.50	<0.50	<0.50	--	1.0	3300	0.38	42	--	--
	3/20/2007	4.31	5.77	-1.46	--	<50	<0.50	<0.50	<0.50	<0.50	--	0.62	4800	0.71	54	--	--
	9/26/2007	4.31	7.22	-2.91	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	750	1.1	62	--	--
	3/24/2008	4.31	5.94	-1.63	--	<50	<0.50	<0.50	<0.50	<1.0	--	0.63	2800	0.45	43	--	--
	9/17/2008	4.31	7.30	-2.99	--	<50	<0.50	<0.50	<0.50	<1.0	--	0.72	4700	<0.10	17	--	--
	3/24/2009	4.31	5.70	-1.39	--	51	<0.50	<0.50	<0.50	<1.0	--	0.92	6000	0.25	42	--	--
	9/23/2009	4.31	7.21	-2.90	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	4200	0.65	55	--	--
	3/22/2010	4.31	5.52	-1.21	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	5600	0.28	24	--	--
9/27/2010	4.31	7.21	-2.90	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	9,100	0.27	30	--	--	
3/22/2011	4.31	4.88	-0.57	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	5,600	0.18	19	--	--	
09/07/2011	4.31	6.40	-2.09	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	7,200	0.43	38	--	--	
02/06/2012	4.31	5.95	-1.64	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	3,900	0.49	39	--	--	
<b>MW-6</b>	8/28/1990	--	--	--	12000	--	1700	1400	230	2100	--	--	--	--	--	--	
	11/26/1990	--	--	--	4000	--	800	120	250	440	--	--	--	--	--	--	
	2/21/1991	--	--	--	750	--	77	14	23	140	--	--	--	--	--	--	
	8/5/1991	--	--	--	860	--	130	11	92	150	--	--	--	--	--	--	

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
MW-6	11/5/1991	--	--	--	7100	--	200	ND	190	580	--	--	--	--	--	--
	2/7/1992	--	--	--	180	--	22	0.68	22	20	--	--	--	--	--	--
	5/5/1992	--	--	--	ND	--	ND	ND	ND	1.3	--	--	--	--	--	--
	8/3/1992	--	--	--	1100	--	180	1.1	62	78	--	--	--	--	--	--
	11/3/1992	--	--	--	920	--	45	0.76	12	110	--	--	--	--	--	--
	2/3/1993	--	--	--	ND	--	1.2	ND	ND	ND	--	--	--	--	--	--
	3/1/1993	4.31	6.20	-1.89	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	4.31	6.04	-1.73	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	4.31	7.50	-3.19	4900	--	890	46	210	530	--	--	--	--	--	--
	6/15/1993	4.31	7.76	-3.45	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	4.31	8.69	-4.38	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	4.31	9.20	-4.89	2300	--	330	ND	95	40	--	--	--	--	--	--
	9/13/1993	4.31	9.59	-5.28	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	4.31	9.75	-5.44	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.03	9.87	-5.84	3000	--	470	ND	220	270	--	--	--	--	--	--
	12/14/1993	4.03	8.60	-4.57	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.03	8.81	-4.78	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.03	7.23	-3.20	ND	--	3.5	ND	1.5	ND	--	--	--	--	--	--
	3/14/1994	4.03	6.68	-2.65	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	4.03	7.24	-3.21	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	4.03	7.01	-2.98	2600	--	430	99	24	420	--	--	--	--	--	--
	6/7/1994	4.03	7.02	-2.99	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	4.03	7.41	-3.38	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	4.03	7.66	-3.63	28000	--	2200	940	1600	7500	--	--	--	--	--	--
	11/7/1994	4.03	6.78	-2.75	23000	--	3800	970	1400	4700	--	--	--	--	--	--
	12/3/1994	4.03	5.44	-1.41	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	4.03	5.00	-0.97	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	4.03	4.98	-0.95	55000	--	7700	9100	4500	20000	--	--	--	--	--	--
	3/3/1995	4.03	5.71	-1.68	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	4.03	5.58	-1.55	59000	--	4700	4400	4000	18000	--	--	--	--	--	--
	8/1/1995	4.03	6.76	-2.73	23000	--	1400	510	940	7300	--	--	--	--	--	--
	11/1/1995	4.03	8.10	-4.07	24000	--	1100	200	1900	6000	170	--	--	--	--	--
	2/1/1996	4.03	5.09	-1.06	58000	--	2700	1800	4200	17000	ND	--	--	--	--	--
	2/4/1997	4.03	7.61	-3.58	95	--	ND	1	ND	ND	96	--	--	--	--	--
	2/5/1998	4.03	4.55	-0.52	44000	--	2100	1600	5200	20000	2800	--	--	--	--	--
	8/28/1998	4.03	6.95	-2.92	--	--	--	--	--	--	--	--	--	--	--	--
	2/4/1999	4.03	5.59	-1.56	37000	--	480	250	2900	10000	ND	--	--	--	--	--
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	ND	4.8	-034
	2/2/2000	4.03	6.24	-2.21	24300	--	313	42	1880	5490	604	357	3200	--	--	400
	3/5/2001	4.03	6.29	-2.26	29300	--	272	66.8	2180	7380	1120	--	217	ND	8.91	71.5
	8/10/2001	4.03	7.11	-3.08	--	--	--	--	--	--	--	--	79.1	2.95	ND	467

TABLE 2

**GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA**

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
<b>MW-6</b>	2/22/2002	4.05	5.37	-1.32	22000	--	180	<50	1300	3100	760	790	--	--	--	--
	3/10/2003	4.05	5.95	-1.90	--	1200	13	<1.0	53	45	--	150	<100	<0.50	<0.50	540
	2/5/2004	4.05	5.45	-1.40	--	8400	100	12	770	980	--	270	1700	<1.0	38	230
	8/26/2004	4.05	6.76	-2.71	--	4700	15	1.2	390	470	--	180	1100	<1.0	<1.0	--
	2/14/2005	4.05	5.75	-1.70	--	6600	44	8.5	640	750	--	160	5600	<0.88	1.8	--
	9/27/2005	4.05	7.19	-3.14	--	2300	3.2	0.60	160	270	--	24	1500	<1.0	11	-97
	3/27/2006	4.05	4.70	-0.65	--	12000	73	16	750	2300	--	90	2000	<0.10	48	--
	9/20/2006	4.05	7.02	-2.97	--	2900	10	<2.5	240	160	--	47	7500	<0.10	4.6	--
	3/20/2007	4.05	5.82	-1.77	--	2400	9.4	<2.5	160	290	--	28	5700	<0.10	12	--
	9/26/2007	4.05	7.13	-3.08	--	780	<2.5	<2.5	74	81	--	13	6700	<0.10	38	--
	3/24/2008	4.05	5.91	-1.86	--	3400	9.8	0.99	160	370	--	23	3200	<0.10	48	--
	9/17/2008	4.05	7.12	-3.07	--	1600	3.5	<0.50	79	50	--	24	2500	<0.10	36	--
	3/24/2009	4.05	5.56	-1.51	--	7400	33	3.7	490	1000	--	22	5800	<0.10	4.5	--
	9/23/2009	4.05	6.99	-2.94	--	1100	2.7	<0.50	59	49	--	9.0	8400	<0.10	5.7	--
	3/22/2010	4.05	5.27	-1.22	--	5200	15	1.4	220	480	--	10	3800	<0.10	33	--
	9/27/2010	4.05	6.91	-2.86	--	850	0.89	<0.50	25	18	--	7.2	1100	<0.10	18	--
	3/22/2011	4.05	4.56	-0.51	--	2000	6.9	1.0	160	350	--	4.1	5,900	<0.10	15	--
09/07/2011	4.05	6.37	-2.32	--	940	0.58	<0.50	21	9.9	--	3.3	9,500	0.16	2.2	--	
02/06/2012	4.05	5.60	-1.55	--	1000	0.64	<0.50	23	11	--	3.6	6,300	<0.10	19	--	
													5,600	<0.10	26	--
<b>MW-7</b>	5/11/1993	4.84	4.52	0.32	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	4.84	7.00	-2.16	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/15/1993	4.84	7.47	-2.63	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	4.84	8.55	-3.71	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	4.84	9.23	-4.39	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	9/13/1993	4.84	10.08	-5.24	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	4.84	10.25	-5.41	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.42	10.27	-5.85	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/14/1993	4.42	8.52	-4.10	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.42	9.30	-4.88	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.42	7.93	-3.51	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/14/1994	4.42	6.78	-2.36	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994 <sup>1</sup>	4.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	4.42	7.13	-2.71	--	--	--	--	--	--	--	--	--	--	--	--
	6/7/1994	4.42	7.09	-2.67	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	4.42	7.49	-3.07	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	4.42	7.98	-3.56	ND	--	ND	ND	ND	0.63	--	--	--	--	--	--
11/7/1994	4.42	7.86	-3.44	--	--	--	--	--	--	--	--	--	--	--	--	
12/3/1994	4.42	5.95	-1.53	--	--	--	--	--	--	--	--	--	--	--	--	
1/10/1995	4.42	5.50	-1.08	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/1995	4.42	5.43	-1.01	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	

TABLE 2

**GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA**

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
<b>MW-7</b>	3/3/1995	4.42	5.97	-1.55	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	4.42	5.73	-1.31	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/1995	4.42	7.62	-3.20	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/1/1995	4.42	8.58	-4.16	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1996	4.42	5.77	-1.35	ND	--	ND	ND	ND	ND	1.4	--	--	--	--	--
	2/4/1997	4.42	7.64	-3.22	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/5/1998 <sup>2</sup>	4.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/4/1999	4.42	5.54	-1.12	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	ND	4.6	-71
	2/2/2000	4.42	5.75	-1.33	ND	--	ND	ND	ND	ND	ND	--	1800	--	--	450
	3/5/2001	4.42	5.66	-1.24	ND	--	ND	ND	ND	ND	ND	--	812	ND	6.43	84
	8/10/2001	4.42	6.28	-1.86	--	--	--	--	--	--	--	--	124	3.2	ND	464
	2/22/2002	4.45	4.98	-0.53	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	--
	3/10/2003	4.45	5.39	-0.94	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	<100	<0.50	2.4	610
	2/5/2004	4.45	5.10	-0.65	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	5300	<1.0	14	230
	8/26/2004	4.45	6.98	-2.53	--	<50	<0.5	<0.5	<0.5	<1	--	<0.5	2600	<1.0	31	--
	2/14/2005	4.45	6.19	-1.74	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	2900	<0.44	6.7	--
	9/27/2005	4.45	7.45	-3.00	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	870	<1.0	41	-63
	3/27/2006	4.45	4.72	-0.27	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	5700	<0.10	12	--
	9/20/2006	4.45	7.20	-2.75	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	5600	<0.10	51	--
	3/20/2007	4.45	6.04	-1.59	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	3600	<0.10	12	--
	9/26/2007	4.45	7.51	-3.06	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	3900	<0.10	25	--
	3/24/2008	4.45	4.92	-0.47	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	2900	<0.10	1.5	--
	9/17/2008	4.45	7.53	-3.08	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	2200	0.21	36	--
	3/24/2009	4.45	5.63	-1.18	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	13000	<0.10	3.0	--
	9/23/2009	4.45	7.41	-2.96	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	12000	<0.10	27	--
	3/22/2010	4.45	5.30	-0.85	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	12000	<0.10	5.2	--
	9/27/2010	4.45	7.35	-2.90	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	3700	0.22	35	--
3/22/2011	4.45	4.80	-0.35	--	<50	<0.50	<0.50	0.59	1.6	--	<0.50	9300	<0.10	12	--	
09/07/2011	4.45	6.25	-1.8	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	3500	0.35	30	--	
02/06/2012	4.45	6.26	-1.81	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	8100	<0.10	21	--	
													7100	<0.10	8.1	--
<b>MW-8</b>	11/3/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	2/3/1993	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/1/1993	5.12	6.64	-1.52	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	5.12	6.55	-1.43	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	5.12	8.25	-3.13	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/15/1993	5.12	8.67	-3.55	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	5.12	9.47	-4.35	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	5.12	10.00	-4.88	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	9/13/1993	5.12	10.40	-5.28	--	--	--	--	--	--	--	--	--	--	--	--

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**GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA**

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
<b>MW-8</b>	10/14/1993	5.12	10.23	-5.11	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.43	10.22	-5.79	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/14/1993	4.43	9.00	-4.57	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.43	9.17	-4.74	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.43	7.23	-2.80	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/14/1994	4.43	6.94	-2.51	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	4.43	7.63	-3.20	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	4.43	7.39	-2.96	--	--	--	--	--	--	--	--	--	--	--	--
	6/7/1994	4.43	7.44	-3.01	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	4.43	7.86	-3.43	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	4.43	8.23	-3.80	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/7/1994	4.43	6.56	-2.13	--	--	--	--	--	--	--	--	--	--	--	--
	12/3/1994	4.43	5.60	-1.17	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	4.43	4.90	-0.47	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	4.43	5.02	-0.59	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/3/1995	4.43	5.81	-1.38	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	4.43	5.73	-1.30	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/1995	4.43	7.11	-2.68	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/1/1995	4.43	8.98	-4.55	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1996	4.43	5.52	-1.09	ND	--	ND	ND	ND	ND	1.3	--	--	--	--	--
	2/4/1997	4.43	8.07	-3.64	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/5/1998	4.43	4.97	-0.54	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/4/1999	4.43	6.12	-1.69	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	ND	41	90
	2/2/2000	4.43	6.11	-1.68	ND	--	ND	ND	ND	ND	ND	--	150	--	--	470
	3/5/2001	4.43	6.05	-1.62	ND	--	ND	ND	ND	ND	ND	--	ND	ND	47.5	111
	2/22/2002	4.43	5.90	-1.47	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	ND	25	28.8	455
	3/10/2003	4.43	6.56	-2.13	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	<100	0.56	37	630
	2/5/2004	4.43	6.25	-1.82	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	<200	<1.0	50	280
	8/26/2004	4.43	7.33	-2.90	--	<50	<0.5	<0.5	<0.5	<1	--	<0.5	<200	<1.0	46	--
	2/14/2005	4.43	6.09	-1.66	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	<0.44	50	--
	9/27/2005	4.43	7.47	-3.04	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	110	<1.0	49	25
	3/27/2006	4.43	5.48	-1.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.4	<100	<0.10	51	--
	9/20/2006	4.43	7.23	-2.80	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	<100	<0.10	42	--
	3/20/2007	4.43	6.37	-1.94	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	<100	<0.10	46	--
	9/26/2007	4.43	7.67	-3.24	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	<100	<0.10	45	--
	3/24/2008	4.43	6.49	-2.06	--	<50	<0.50	<0.50	<0.50	<1.0	--	0.53	<100	<0.10	46	--
	9/17/2008	4.43	7.65	-3.22	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	160	<0.10	47	--
	3/24/2009	4.43	5.94	-1.51	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	140	<0.10	46	--
	9/23/2009	4.43	7.64	-3.21	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<500	0.11	41	--
	3/22/2010	4.43	5.74	-1.31	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	<0.10	42	--



TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
<b>MW-8</b>	9/27/2010	4.43	7.62	-3.19	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	<0.10	38	--
	3/22/2011	4.43	4.97	-0.54	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	250	<0.10	42	--
	09/07/2011	4.43	6.87	-2.44	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	<0.10	30	--
	02/06/2012	4.43	6.1	-1.67	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	130	<0.10	38	--
													<100	<0.10	34	--
<b>MW-9</b>	11/3/1992	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	2/3/1993	--	--	--	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/1/1993	4.84	6.22	-1.38	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	4.84	6.17	-1.33	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	4.84	7.95	-3.11	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/15/1993	4.84	8.34	-3.50	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	4.84	9.13	-4.29	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	4.84	9.69	-4.85	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	9/13/1993	4.84	10.10	-5.26	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	4.84	10.23	-5.39	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	4.60	10.39	-5.79	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/14/1993	4.60	9.14	-4.54	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	4.60	9.27	-4.67	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	4.60	7.20	-2.60	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/14/1994	4.60	7.06	-2.46	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	4.60	7.79	-3.19	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	4.60	7.52	-2.92	--	--	--	--	--	--	--	--	--	--	--	--
	6/7/1994	4.60	7.54	-2.94	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	4.60	7.98	-3.38	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	4.60	8.34	-3.74	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/7/1994	4.60	6.44	-1.84	--	--	--	--	--	--	--	--	--	--	--	--
	12/3/1994	4.60	5.68	-1.08	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1995	4.60	4.98	-0.38	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	4.60	5.18	-0.58	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/3/1995	4.60	5.90	-1.30	--	--	--	--	--	--	--	--	--	--	--	--
5/2/1995	4.60	5.86	-1.26	--	--	--	--	--	--	--	--	--	--	--	--	
8/1/1995	4.60	7.30	-2.70	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	
11/1/1995	4.60	8.66	-4.06	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/1996	4.60	5.14	-0.54	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--	
2/4/1997	4.60	8.12	-3.52	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--	
2/5/1998	4.60	4.95	-0.35	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--	
2/4/1999	4.60	5.81	-1.21	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--	
2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	22	30	78	
2/2/2000	4.60	5.71	-1.11	ND	--	ND	ND	ND	ND	ND	--	--	260	--	--	470
3/5/2001	4.60	5.67	-1.07	ND	--	ND	ND	ND	ND	ND	--	--	ND	20.6	36.5	172
2/22/2002	4.60	5.61	-1.01	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	ND	27.1	30.5	468

TABLE 2

**GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA**

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
<b>MW-9</b>	3/10/2003	4.60	6.16	-1.56	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	<100	22	28	620
	2/5/2004	4.60	5.58	-0.98	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	<200	27	29	250
	8/26/2004	4.60	7.13	-2.53	--	<50	<0.5	<0.5	<0.5	<1	--	<0.5	<200	<1.0	32	--
	2/14/2005	4.60	5.92	-1.32	--	<50	<0.50	<0.50	0.72	1.0	--	<0.50	<100	28.6	27	--
	9/27/2005	4.60	7.43	-2.83	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	55	32	30	-64
	3/27/2006	4.60	5.14	-0.54	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	7.0	27	--
	9/20/2006	4.60	7.25	-2.65	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	160	8.2	28	--
	3/20/2007	4.60	5.97	-1.37	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	100	6.8	28	--
	9/26/2007	4.60	7.43	-2.83	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	320	7.0	26	--
	3/24/2008	4.60	6.21	-1.61	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	6.4	25	--
	9/17/2008	4.60	7.38	-2.78	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	170	7.8	27	--
	3/24/2009	4.60	5.74	-1.14	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	160	8.2	28	--
	9/23/2009	4.60	7.37	-2.77	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<500	7.9	29	--
	3/22/2010	4.60	5.46	-0.86	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<200	8.8	30	--
	9/27/2010	4.60	7.37	-2.77	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<100	9.0	32	--
	3/22/2011	4.60	4.78	-0.18	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<1000	8.5	28	--
	09/07/2011	4.60	6.63	-2.03	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<200	7.2	29	--
	02/06/2012	4.60	5.8	-1.2	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<200	7.4	27	--
													<100	5.8	26	--
<b>MW-10</b>	11/3/1992	--	--	--	740	--	11	2.1	32	56	--	--	--	--	--	--
	2/3/1993	--	--	--	1200	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/1/1993	3.34	5.82	-2.48	--	--	--	--	--	--	--	--	--	--	--	--
	4/1/1993	3.34	5.69	-2.35	--	--	--	--	--	--	--	--	--	--	--	--
	5/17/1993	3.34	7.04	-3.70	1200	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/15/1993	3.34	7.22	-3.88	--	--	--	--	--	--	--	--	--	--	--	--
	7/14/1993	3.34	8.01	-4.67	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/1993	3.34	8.42	-5.08	1500	--	ND	ND	41	21	--	--	--	--	--	--
	9/13/1993	3.34	8.74	-5.40	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/1993	3.34	8.57	-5.23	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/1993	2.69	8.59	-5.90	1600	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/14/1993	2.69	7.50	-4.81	--	--	--	--	--	--	--	--	--	--	--	--
	1/10/1994	2.69	7.69	-5.00	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1994	2.69	8.21	-5.52	1480	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/14/1994	2.69	5.56	-2.87	--	--	--	--	--	--	--	--	--	--	--	--
	4/23/1994	2.69	6.22	-3.53	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/1994	2.69	6.03	-3.34	1000	--	ND	ND	ND	ND	--	--	--	--	--	--
	6/7/1994	2.69	6.10	-3.41	--	--	--	--	--	--	--	--	--	--	--	--
	7/5/1994	2.69	6.38	-3.69	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1994	2.69	6.67	-3.98	95	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/7/1994	2.69	6.08	-3.39	1100	--	ND	ND	ND	ND	--	--	--	--	--	--
	12/3/1994	2.69	4.68	-1.99	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2

GROUNDWATER MONITORING AND SAMPLING DATA  
UNOCAL 3135 (UNION OIL FACILITY 351643)  
6535 SAN LEANDRO STREET (aka 845 66th Street)  
Oakland, CA

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
<b>MW-10</b>	1/10/1995	2.69	4.21	-1.52	--	--	--	--	--	--	--	--	--	--	--	--
	2/1/1995	2.69	4.26	-1.57	560	--	ND	ND	ND	ND	--	--	--	--	--	--
	3/3/1995	2.69	4.94	-2.25	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/1995	2.69	4.80	-2.11	840	--	ND	ND	ND	9.5	--	--	--	--	--	--
	8/1/1995	2.69	5.79	-3.10	ND	--	ND	ND	ND	ND	--	--	--	--	--	--
	11/1/1995	2.69	6.95	-4.26	ND	--	ND	ND	ND	ND	830	--	--	--	--	--
	2/1/1996	2.69	4.31	-1.62	ND	--	ND	ND	ND	ND	1300	--	--	--	--	--
	2/4/1997	2.69	6.59	-3.90	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--
	2/5/1998	2.69	3.76	-1.07	ND	--	ND	ND	ND	ND	500	--	--	--	--	--
	2/4/1999	2.69	4.68	-1.99	ND	--	ND	ND	ND	ND	620	850	--	--	--	--
	2/12/1999	--	--	--	--	--	--	--	--	--	--	--	--	ND	36	94
	2/2/2000	2.69	4.85	-2.16	ND	--	ND	ND	ND	ND	737	696	240	--	--	470
	3/5/2001	2.69	4.81	-2.12	ND	--	ND	ND	ND	ND	121	--	16.5	ND	40.1	110
	2/22/2002	2.69	4.53	-1.84	<50	--	<0.50	<0.50	<0.50	<0.50	870	780	24.8	3.17	66.7	461
	3/10/2003	2.69	4.98	-2.29	--	370	<2.5	<2.5	<2.5	<5.0	--	320	<100	<0.50	30	590
	2/5/2004	2.69	5.32	-2.63	--	320	<2.5	<2.5	<2.5	<5.0	--	300	<200	<1.0	45	270
	8/26/2004	2.69	5.45	-2.76	--	<50	<0.5	<0.5	<0.5	<1	--	13	<200	<1.0	45	--
	2/14/2005	2.69	4.81	-2.12	--	<50	<0.50	<0.50	<0.50	<1.0	--	10	1100	<0.44	49	--
	9/27/2005	2.69	5.97	-3.28	--	<50	<0.50	<0.50	<0.50	<1.0	--	5.2	490	<1.0	31	-17
	3/27/2006	2.69	3.87	-1.18	--	<50	<0.50	<0.50	<0.50	<1.0	--	6.8	120	<0.10	35	--
	9/20/2006	2.69	6.77	-4.08	--	<50	<0.50	<0.50	<0.50	<0.50	--	5.3	290	<0.10	38	--
	3/20/2007	2.69	4.88	-2.19	--	<50	<0.50	<0.50	<0.50	<0.50	--	3.7	2000	<0.10	35	--
	9/26/2007	2.69	5.70	-3.01	--	<50	<0.50	<0.50	<0.50	<0.50	--	7.5	990	<0.10	36	--
	3/24/2008	2.69	4.99	-2.30	--	<50	<0.50	<0.50	<0.50	<1.0	--	3.6	1000	<0.10	38	--
	9/17/2008	2.69	5.05	-2.36	--	<50	<0.50	<0.50	<0.50	<1.0	--	6.0	830	<0.10	37	--
	3/24/2009	2.69	5.64	-2.95	--	<50	<0.50	<0.50	<0.50	<1.0	--	3.1	1400	<0.10	42	--
	9/23/2009	2.69	5.93	-3.24	--	<50	<0.50	<0.50	<0.50	<1.0	--	4.4	980	<0.10	37	--
	3/22/2010	2.69	4.59	-1.90	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.9	2200	<0.10	31	--
9/27/2010	2.69	5.98	-3.29	--	<50	<0.50	<0.50	<0.50	<1.0	--	4.4	620	<0.10	29	--	
3/22/2011	2.69	4.10	-1.41	--	<50	<0.50	<0.50	<0.50	<1.0	--	3.7	2700	<0.10	27	--	
09/07/2011	2.69	5.35	-2.66	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.7	7700	<0.10	27	--	
02/06/2012	2.69	4.55	-1.86	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.7	3700	<0.10	30	--	
													850	<0.10	29	--
<b>MW-11</b>	8/10/2001	2.63	5.70	-3.07	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	<2.0	--	--	--	--
	2/22/2002	2.63	5.43	-2.80	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	<2.0	--	--	--	--
	3/10/2003	2.63	5.41	-2.78	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--
	2/5/2004 <sup>3</sup>	2.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/26/2004	2.63	5.35	-2.72	--	<50	<0.5	<0.5	<0.5	<1	--	<0.5	--	--	--	--
	2/14/2005	2.63	5.12	-2.49	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	9/27/2005	2.63	5.18	-2.55	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
3/27/2006	2.63	4.88	-2.25	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	

GROUNDWATER MONITORING AND SAMPLING DATA  
 UNOCAL 3135 (UNION OIL FACILITY 351643)  
 6535 SAN LEANDRO STREET (aka 845 66th Street)  
 Oakland, CA

	<i>Date Sampled</i>	<i>TOC Elevation (feet)</i>	<i>Depth to Water (feet)</i>	<i>Ground- Water Elevation (feet)</i>	<i>TPH-G (8015) (µg/l)</i>	<i>TPH-G (8260) (µg/l)</i>	<i>Benzene (µg/l)</i>	<i>Toluene (µg/l)</i>	<i>Ethyl- benzene (µg/l)</i>	<i>Total Xylenes (µg/l)</i>	<i>MTBE (8021B) (µg/l)</i>	<i>MTBE (8260B) (µg/l)</i>	<i>Iron Ferrous (µg/l)</i>	<i>Nitrate (mg/l)</i>	<i>Sulfate (mg/l)</i>	<i>Redox Potential (ORP-Lab)</i>
<b>MW-11</b>	9/20/2006	2.63	5.53	-2.90	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--
	3/20/2007	2.63	5.28	-2.65	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--
	9/26/2007	2.63	4.98	-2.35	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	--	--	--	--
	3/24/2008	2.63	5.23	-2.60	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	9/17/2008	2.63	5.41	-2.78	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	3/24/2009	2.63	4.95	-2.32	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	9/23/2009	2.63	5.46	-2.83	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	3/22/2010	2.63	4.92	-2.29	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	9/27/2010	2.63	5.32	-2.69	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	3/22/2011	2.63	4.74	-2.11	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	09/07/2011	2.63	4.94	-2.31	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--
	02/06/2012	2.63	5.17	-2.54	--	<50	<0.50	<0.50	<0.50	1.2	--	<0.50	--	--	--	--
													--	--	--	--

**Abbreviations and Notes:**

- TOC = Top of casing
- µg/L = Micrograms per liter
- mg/L = Micrograms per liter
- TPH-G - Total Petroleum Hydrocarbons as Gasoline
- MTBE = Methyl tert butyl ether
- = Not available / not applicable
- <x = Not detected at or above laboratory method detection limit indicated
- ND = Not detected
- ORP = Oxygen reduction potential
- 1 = Well inaccessible
- 2 = Well paved over
- 3 = Well inaccessible due to locked gate

**GRAB-GROUNDWATER DATA  
UNOCAL 3135 (UNION OIL 351643)  
6535 SAN LEANDRO STREET (AKA 845 66TH STREET)  
OAKLAND, CA**

<i>Sample Location</i>	<i>Date</i>	<i>Sample Depth (fbg)</i>	<i>TPHd (ug/l)</i>	<i>TPHg (ug/l)</i>	<i>Benzene (ug/l)</i>	<i>Toluene (ug/l)</i>	<i>Ethylbenzene (ug/l)</i>	<i>Total Xylenes (ug/l)</i>	<i>HVOC (ug/l)</i>
<b>Gasoline UST Removal</b>									
W-1	12/05/89	9.0	--	7,900	850	150	<1.5	720	ND*
<b>Hydropunch Study</b>									
P-1	01/09/91	15.0	<1000	90	0.8	0.6	0.5	2.4	--
P-2	01/09/91	15.0	<1000	<50	<0.5	<0.5	<0.5	0.6	--
P-3	01/09/91	16.0	<1000	<50	<0.5	<0.5	<0.5	<0.5	--
P-4	01/09/91	17.0	<1000	<50	<0.5	<0.5	<0.5	<0.5	--
P-5	01/09/91	14.0	<1000	<50	<0.5	<0.5	<0.5	<0.5	--
P-6	01/09/91	15.0	<1000	<50	<0.5	<0.5	<0.5	<0.5	--
P-7	01/09/91	14.0	<1000	<50	<0.5	<0.5	<0.5	<0.5	--

**Abbreviations & Notes:**

TPHd =	Total petroleum hydrocarbons as diesel by EPA Method 8015
TPHg =	Total petroleum hydrocarbons as gasoline by EPA Method 8015
	Benzene, toluene ethylbenzene and total xylenes by EPA Method 8020
HVOC =	Halogenated Volatile Organic Compounds
ug/l =	Micrograms per liter
-- =	Not analyzed
fbg =	Feet below grade
*=	HVOC analyses returned non-detections for all analytes at variable detection limits
ND =	Not detected at or above laboratory detection limits
<x.xx =	Not detected at or above laboratory detection limit indicated

TABLE 4

CUMULATIVE SOIL DATA  
UNOCAL 3135 (UNION OIL 351643)  
6535 SAN LEANDRO STREET (AKA 845 66TH STREET)  
OAKLAND, CA

Sample Location	Sample Date	Sample Depth (fbg)	TOG (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	HVOC (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Zinc (mg/kg)
<b>Dispenser Upgrade</b>															
P1	12/08/88	2	--	--	<1	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P2	12/08/88	3	--	--	<1	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P3	12/08/88	3	--	--	<1	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
<b>Gasoline UST Removal</b>															
SW1	11/29/89	9.0	--	--	1.6	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
SW2	11/29/89	9.0	--	--	3.8	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
SW3	11/29/89	9.0	--	--	5.6	<0.5	<0.1	0.42	2.3	--	--	--	--	--	--
SW4	11/29/89	9.0	--	--	32	1.2	<0.1	2.1	1.0	--	--	--	--	--	--
SW5	11/29/89	9.0	--	--	4.8	0.20	<0.1	<0.1	0.11	--	--	--	--	--	--
SW6	11/29/89	8.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
<b>Dispenser Islands</b>															
D1	12/05/89	3.5	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
D2	12/05/89	3.5	--	--	1.5	0.08	<0.1	<0.1	<0.1	--	--	--	--	--	--
D3	12/05/89	3.5	--	--	6.6	0.14	<0.1	<0.1	0.31	--	--	--	--	--	--
D4	12/05/89	3.5	--	--	7.4	0.11	<0.1	<0.1	0.1	--	--	--	--	--	--
D5	12/05/89	3.5	--	--	1.9	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
D6	12/05/89	3.5	--	--	2.0	<0.5	0.17	<0.1	0.25	--	--	--	--	--	--
<b>Product Lines</b>															
P1	11/29/89	6.0	--	--	15	0.086	<0.1	0.18	8.5	--	--	--	--	--	--
<del>P2</del>	<del>12/29/89</del>	<del>5.5</del>	--	--	<del>3,800</del>	<del>6.1</del>	<del>290</del>	<del>140</del>	<del>750</del>	--	--	--	--	--	--
P2	01/09/90	12.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P3	12/29/89	5.0	--	--	11	0.13	<0.1	0.18	1.3	--	--	--	--	--	--
P4	12/29/89	4.5	--	--	1.4	<0.5	<0.1	<0.1	0.23	--	--	--	--	--	--
P5	12/29/89	4.5	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P6	01/10/90	3.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
P7	01/10/90	4.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
SWP2E	01/09/90	11.0	--	--	20	<0.5	0.16	0.5	3.1	--	--	--	--	--	--
SWP2W	01/09/90	11.0	--	--	<1.0	<0.5	<0.1	<0.1	<0.1	--	--	--	--	--	--
<b>Used Oil UST</b>															
<del>WO1</del>	<del>11/29/89</del>	<del>8.5</del>	--	--	<del>&lt;1.0</del>	<del>1.6</del>	<del>&lt;0.5</del>	<del>&lt;0.1</del>	<del>&lt;0.1</del>	--	<del>ND**</del>	<del>&lt;0.5</del>	<del>15</del>	<del>5.0</del>	<del>39</del>
SWA	11/29/89	9.5	--	<1.0	2.1	<0.5	<0.1	<0.1	<0.1	--	ND**	<0.5	20	7.5	65
SWB	11/29/89	9.5	--	<1.0	3.9	<0.5	<0.1	<0.1	<0.1	--	ND**	<0.5	20	5.9	44
<b>Pre 1967 UST Pit - Excavated Area</b>															
EB1	04/26/90	7.0	--	--	2,400	5.0	16	62	230	--	--	--	--	--	--
EB2	04/26/90	9.0	7,000	1,400	12,000	84	12	360	860	--	--	--	--	--	--
SW1	03/19/91	10.5	<30	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
SW2	03/19/91	11.0	58	--	1,000	14	65	19	98	--	--	--	--	--	--
SW2 (12)	03/22/91	11.0	<30	--	2,400	38	180	54	280	--	--	--	--	--	--
SW2 (30)	04/11/91	11.0	--	--	340	1.6	1.2	9.9	21	--	--	--	--	--	--
SW3	03/21/91	10.5	<30	--	310	3.3	4.8	6.5	26	--	--	--	--	--	--



TABLE 4

CUMULATIVE SOIL DATA  
UNOCAL 3135 (UNION OIL 351643)  
6535 SAN LEANDRO STREET (AKA 845 66TH STREET)  
OAKLAND, CA

Sample Location	Sample Date	Sample Depth (fbg)	TOG (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	HVOC (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Zinc (mg/kg)
SW3 (2)	04/05/91	10.5	<30	--	5.3	<0.005	<0.005	0.13	0.14	--	--	--	--	--	--
<del>SW4</del>	<del>03/21/91</del>	<del>10.5</del>	<del>160</del>	--	<del>1,400</del>	<del>14</del>	<del>41</del>	<del>30</del>	<del>110</del>	--	--	--	--	--	--
SW4 (6)	04/05/91	10.5	<30	--	53	0.023	1.4	0.85	4.1	--	--	--	--	--	--
<del>SW5</del>	<del>03/22/91</del>	<del>10.5</del>	<del>85</del>	--	<del>2,200</del>	<del>28</del>	<del>140</del>	<del>52</del>	<del>260</del>	--	--	--	--	--	--
SW5 (7)	04/03/91	10.5	<30	--	29	0.44	0.052	0.89	2.8	--	--	--	--	--	--
<del>SW6</del>	<del>03/22/91</del>	<del>10.5</del>	<del>&lt;30</del>	--	<del>260</del>	<del>3.6</del>	<del>7.5</del>	<del>7.2</del>	<del>29</del>	--	--	--	--	--	--
SW6 (5)	04/11/91	10.5	--	--	44	0.34	0.32	1.1	2.5	--	--	--	--	--	--
SW7	04/04/91	11.0	<30	--	2.5	0.41	0.0070	0.15	0.018	--	--	--	--	--	--
SW8	04/11/91	11.0	<30	--	310	1.9	2.9	2.8	8.1	--	--	--	--	--	--
SW9	04/11/91	11.0	<30	--	<1.0	0.17	<0.005	0.0062	0.0052	--	--	--	--	--	--
SW10	04/05/91	11.0	60	--	1,400	18	130	36	200	--	--	--	--	--	--
<b>Monitoring Wells</b>						--									
MW-1	04/26/90	5.0	--	--	<1.0	0.012	0.16	<0.005	<0.005	--	--	--	--	--	--
MW-1	04/26/90	10.0	--	--	<1.0	0.0094	0.024	<0.005	<0.005	--	--	--	--	--	--
MW-1	04/26/90	14.0	--	--	<1.0	0.0075	0.031	<0.005	<0.005	--	--	--	--	--	--
MW-2	04/27/90	5.0	--	--	2.4	0.075	0.0071	<0.005	<0.005	--	--	--	--	--	--
MW-2	04/27/90	10.0	--	--	2.2	<0.005	0.017	0.0088	0.018	--	--	--	--	--	--
MW-2	04/27/90	12.0	--	--	6.8	<0.005	0.028	0.10	0.015	--	--	--	--	--	--
MW-3	04/26/90	5.0	--	--	<1.0	0.0094	0.048	<0.005	<0.005	--	--	--	--	--	--
MW-3	04/26/90	10.0	--	--	<1.0	0.0088	0.015	<0.005	<0.005	--	--	--	--	--	--
MW-4	08/14/90	14.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-5	08/14/90	13.0	--	--	<1.0	<0.005	0.010	<0.005	<0.005	--	--	--	--	--	--
MW-6	08/14/90	5.0	<30	<1.0	<1.0	<0.005	0.042	<0.005	<0.005	--	--	--	--	--	--
MW-6	08/14/90	10.0	<30	5.1	18	0.26	0.22	0.34	1.2	--	--	--	--	--	--
MW-6	08/14/90	12.5	200	93	160	3.4	12	20	3.6	--	--	--	--	--	--
MW-6	08/14/90	15.5	<30	<1.0	2.5	0.43	0.41	0.50	0.12	--	--	--	--	--	--
MW-7	04/28/93	5.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-8	09/29/92	5.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-8	09/29/92	10.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-8	09/29/92	13.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-9	09/28/92	5.5	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-9	09/28/92	10.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-9	09/28/92	13.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--

TABLE 4

CUMULATIVE SOIL DATA  
UNOCAL 3135 (UNION OIL 351643)  
6535 SAN LEANDRO STREET (AKA 845 66TH STREET)  
OAKLAND, CA

<i>Sample Location</i>	<i>Date</i>	<i>Sample Depth (fbg)</i>	<i>TOG (mg/kg)</i>	<i>TPHd (mg/kg)</i>	<i>TPHg (mg/kg)</i>	<i>Benzene (mg/kg)</i>	<i>Toluene (mg/kg)</i>	<i>Ethylbenzene (mg/kg)</i>	<i>Total Xylenes (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>HVOC (mg/kg)</i>	<i>Cadmium (mg/kg)</i>	<i>Chromium (mg/kg)</i>	<i>Lead (mg/kg)</i>	<i>Zinc (mg/kg)</i>
MW-10	09/28/92	5.0	--	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--
MW-10	09/28/92	10.5	--	39	210	0.58	0.38	4.4	10	--	--	--	--	--	--
MW-10	09/28/92	13.0	--	<1.0	<1.0	<0.005	<0.005	0.0090	0.0063	--	--	--	--	--	--
MW-11	07/25/01	5.0	--	79*	<1.0	0.012	0.021	<0.005	0.015	<0.05	--	--	--	--	--

**Abbreviations & Notes:**

TOG =	Total oil and grease by Method SM 503
TPHd =	Total petroleum hydrocarbons as diesel by EPA Method 8015
TPHg =	Total petroleum hydrocarbons as gasoline by EPA Method 8015
Benzene, toluene ethylbenzene and total xylenes by EPA Method 8020	
MTBE =	Methyl tert butyl ether by EPA Method 8020
HVOC =	Halogenated Volatile Organic Compounds by EPA Method 8010
fbg =	Feet below grade
mg/kg =	Milligrams per kilogram
ND =	Not detected at or above laboratory detection limits
<x.xx =	Not detected at or above laboratory detection limit indicated
-- =	Not analyzed
*=	Lab reports that the hydrocarbon pattern present in the requested fuel quantitation range does not resemble the pattern of the requested fuel
**=	HVOC analyses returned non-detections for all analytes at variable detection limits
4234=	Sample point overexcavated

KEI-P88-1203.R2  
January 15, 1990

TABLE 1

SUMMARY OF LABORATORY ANALYSES  
SOIL

(Results in ppm)  
(Samples collected on December 8, 1988)

<u>Sample #</u>	<u>Depth (feet)</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethylbenzene</u>
P1	2.0	ND	ND	ND	ND	ND
P2	3.0	ND	ND	ND	ND	ND
P3	3.0	ND	ND	ND	ND	ND

ND = Non-detectable.

KEI-P88-1203.R2  
 January 15, 1990

TABLE 2

SUMMARY OF LABORATORY ANALYSES  
 SOIL

(Results in ppm)  
 (Samples Collected on November 29, and  
 December 5 & 29, 1989)

<u>Sample</u>	<u>Depth (feet)</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethyl- benzene</u>
SW1	9.0	--	1.6	ND	ND	ND	ND
SW2	9.0	--	3.8	ND	ND	ND	ND
SW3	9.0	--	5.6	ND	ND	2.3	0.42
SW4	9.0	--	32	1.2	ND	1.0	2.1
SW5	9.0	--	4.8	0.20	ND	0.11	ND
SW6	8.0	--	ND	ND	ND	ND	ND
D1	3.5	--	ND	ND	ND	ND	ND
D2	3.5	--	1.5	0.08	ND	ND	ND
D3	3.5	--	6.6	0.14	ND	0.31	ND
D4	3.5	--	7.4	0.11	ND	0.1	ND
D5	3.5	--	1.9	ND	ND	ND	ND
D6	3.5	--	2.0	ND	0.17	0.25	ND
P1	6.0	--	15	0.086	ND	8.5	0.18
P2	5.5	--	3,800	6.1	290	750	140
P2 (12)	12.0	--	ND	ND	ND	ND	ND
P3	5.0	--	11	0.13	ND	1.3	0.18
P4	4.5	--	1.4	ND	ND	0.23	ND
P5	4.5	--	ND	ND	ND	ND	ND
P6	3.0	--	ND	ND	ND	ND	ND
P7	4.0	--	ND	ND	ND	ND	ND
P7	4.0	--	ND	ND	ND	ND	ND
SWP2E	11.0	--	2	ND	0.16	3.1	0.50
SWP2W	11.0	--	ND	ND	ND	ND	ND

KEI-P88-1203.R2  
January 15, 1990

TABLE 2 (Continued)

SUMMARY OF LABORATORY ANALYSES  
SOIL

(Results in ppm)  
(Samples Collected on November 29, and  
December 5 & 29, 1989)

<u>Sample</u>	<u>Depth (feet)</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethyl- benzene</u>
WO1*	8.5	ND	1.6	ND	ND	ND	ND
SWA**	9.5	ND	2.1	ND	ND	ND	ND
SWB***	9.5	ND	3.9	ND	ND	ND	ND
Detection Limits		1.0	1.0	0.05	0.1	0.1	0.1

\* TOG was <50 ppm, and all 8010 constituents were non-detectable. Metal concentrations were as follows: cadmium non-detectable, chromium 20 ppm, lead 75 ppm, and zinc 65 ppm.

\*\* TOG was <50 ppm, and all 8010 constituents were non-detectable. Metals concentrations were as follows: cadmium non-detectable, chromium 20 ppm, lead 5.9 ppm and zinc 44 ppm.

\*\*\* TOG was <50 ppm and all 8010 constituents were non-detectable. Metals concentrations were as follows: cadmium non-detectable, chromium 15 ppm, lead 5.0 ppm, an zinc 39 ppm.

ND = Non-detectable.

KEI-P88-1203.P1  
January 15, 1990

TABLE 3

SUMMARY OF LABORATORY ANALYSES  
WATER

(Results in ppb)  
(Samples collected on December 5, 1989)

<u>Sample #</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethylbenzene</u>
W1	7,900	850	150	720	ND
Detection Limits	30.0	0.3	0.3	0.3	0.3

NOTE: All 8010 constituents were non-detectable.

ND = Non-detectable.



# ATTACHMENT 8

**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
		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.

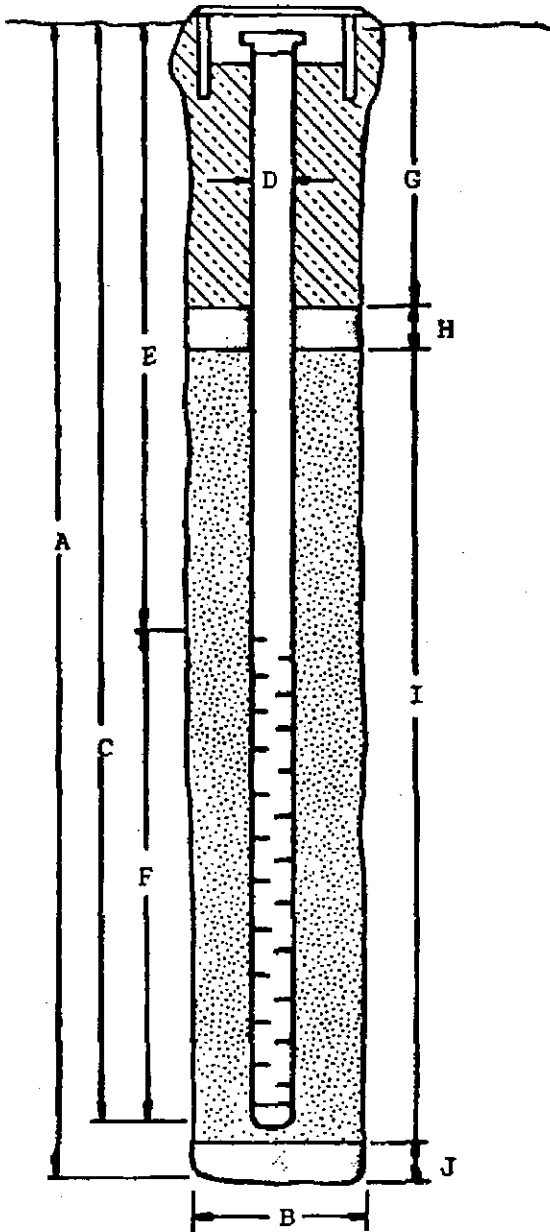
**B O R I N G   L O G**

<b>Project No.</b> KEI-P88-1203		<b>Boring &amp; Casing Diameter</b> 9"                      2"		<b>Logged By</b> D.L. <i>[Signature]</i>
<b>Project Name</b> Unocal Oakland - 66th Ave.		<b>Well Head Elevation</b> N/A		<b>Date Drilled</b> 4/26/90
<b>Boring No.</b> MW1		<b>Drilling Method</b> Hollow-stem Auger	<b>Drilling Company</b> 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		
				<b>TOTAL DEPTH: 23'</b>

**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



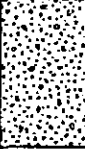
- A. Total Depth: 23'
- B. Boring Diameter\*: 9"  
 Drilling Method: Hollow Stem Auger
- C. Casing Length: 23'  
 Material: Schedule 40 PVC
- D. Casing Diameter: OD = 2.375"  
ID = 2.067"
- E. Depth to Perforations: 5'
- F. Perforated Length: 18'  
 Perforation Type: Machined Slot  
 Perforation Size: 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**

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

<b>Project No.</b> KEI-P88-1203		<b>Boring &amp; Casing Diameter</b> 9"                          2"		<b>Logged By</b> D.L. <i>[Signature]</i>
<b>Project Name</b> Unocal Oakland - 66th Ave.		<b>Well Head Elevation</b> N/A		<b>Date Drilled</b> 4/27/90
<b>Boring No.</b> MW2		<b>Drilling Method</b>	<b>Hollow-stem Auger</b>	<b>Drilling Company</b> EGI
Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		25	GW 	Well graded gravel with sand, dense, wet, olive brown.
		30		
		35		
		40		
				<b>TOTAL DEPTH: 23'</b>



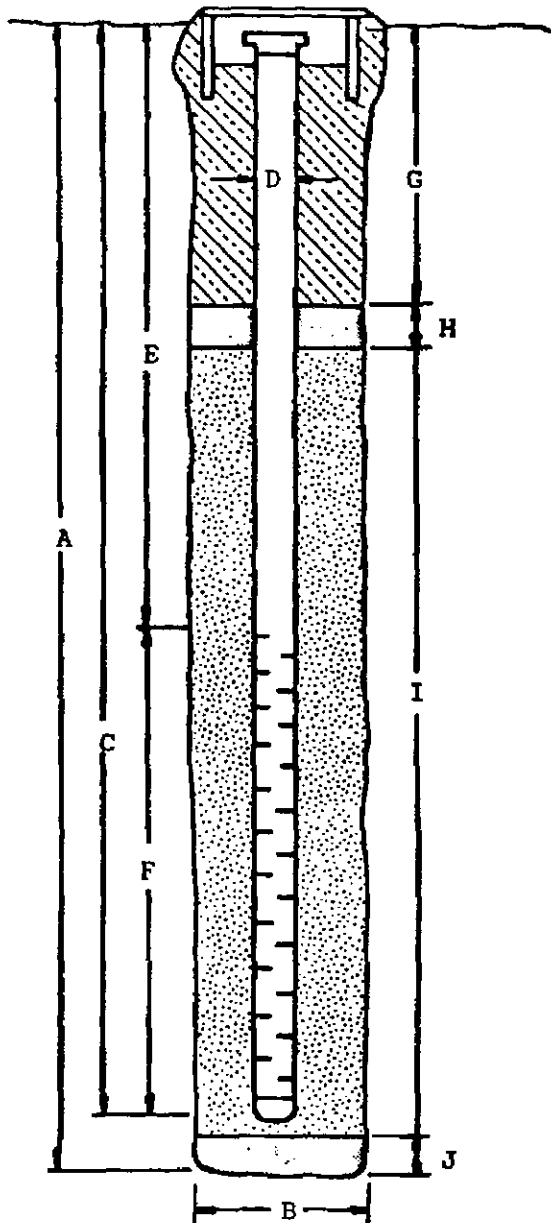
## W E L L   C O M P L E T I O N   D I A G R A M

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>DL</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?
9/12/12		10	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.
			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



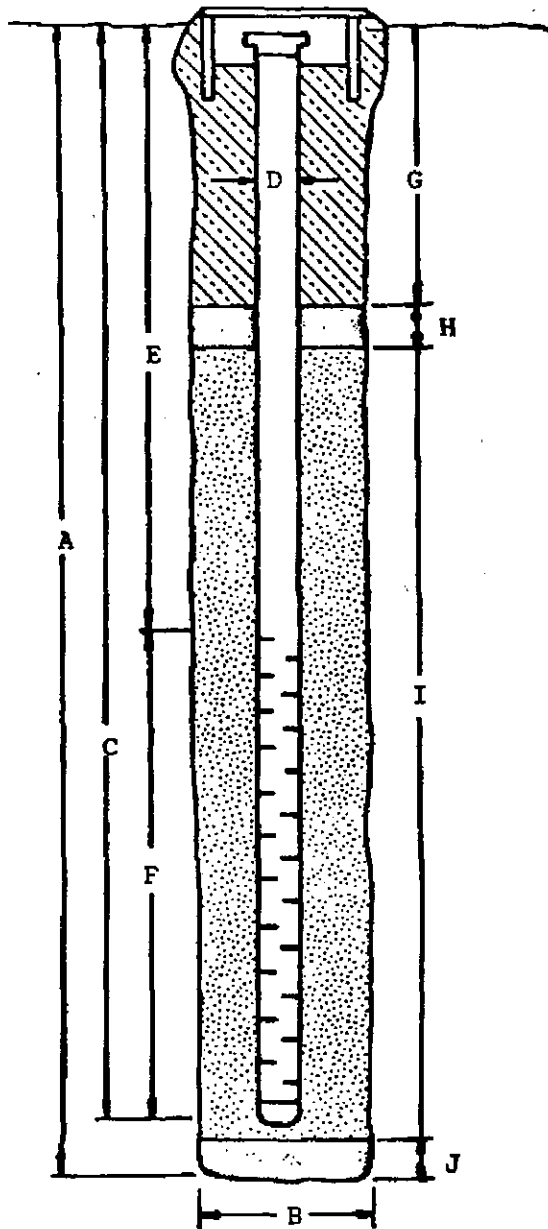
**WELL COMPLETION DIAGRAM**

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. <i>DRB</i>
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.
			SM	Silty sand trace clay, sand is fine-grained, medium dense, wet, dark olive gray.
			GW	Well graded gravel with sand, trace to 10% fines, gravel to 1-1/4" dia., medium dense, wet, dark yellowish brown.
6/14/15		20	GC	Clayey gravel with sand, subangular



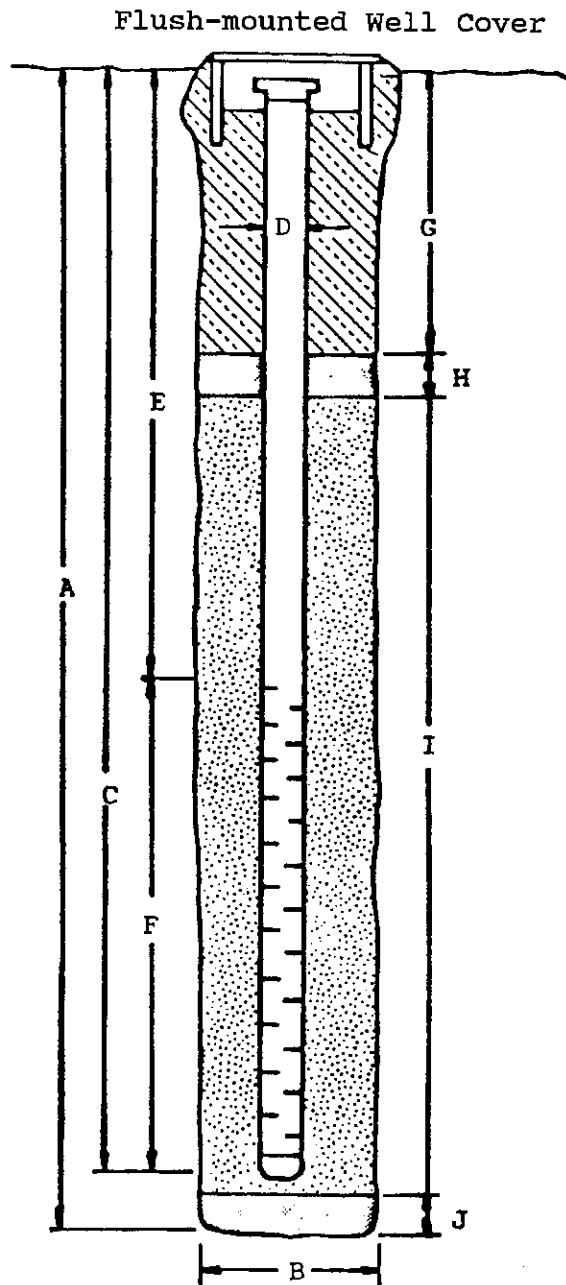


W E L L   C O M P L E T I O N   D I A G R A M

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

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: \_\_\_\_\_



- 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'  
Machined Perforation Type: 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.
			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.
7/9/11		10		
			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.
12/15/18	▼		SC	Clayey sand, fine-to medium-grained, trace gravel to 3/4" dia., saturated, medium dense, olive brown.
		15		
13/15/13			ML	Clayey silt, trace to 5% fine-grained sand, very moist, medium dense, orangish brown and olive gray.
			GC	Clayey gravel with sand.
		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. 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		25	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'

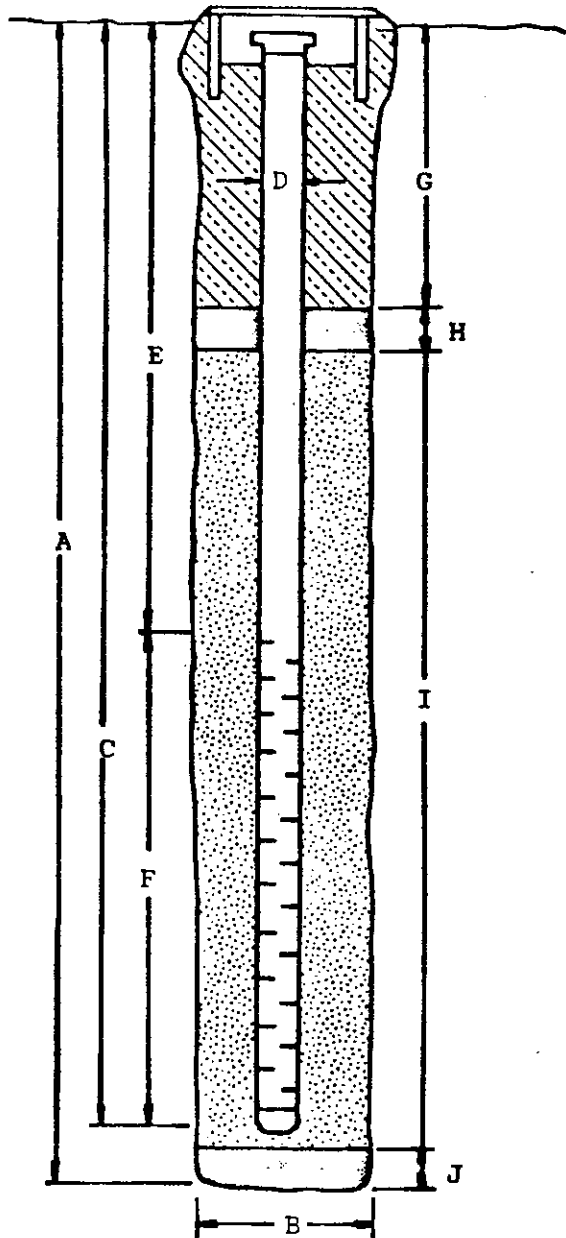
W E L L   C O M P L E T I O N   D I A G R A M

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.

BORING LOG					
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			

## BORING LOG

Project No. KEI-P88-1203		Boring & Casing Diameter 9"                      2"		Logged By W.W. <span style="float: right;"><i>DRP</i></span>
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		25	GC	Clayey gravel, as above.
		25	SW	Sand, well stratified, fining upward sequence, from very-coarse-grained to very fine-grained, saturated, medium dense, gray.
		25	GC	Clayey gravel with sand, gravel to 3/4" dia., saturated, very dense, orangish brown.
		30		
		35		
		40		
				TOTAL DEPTH: 26'



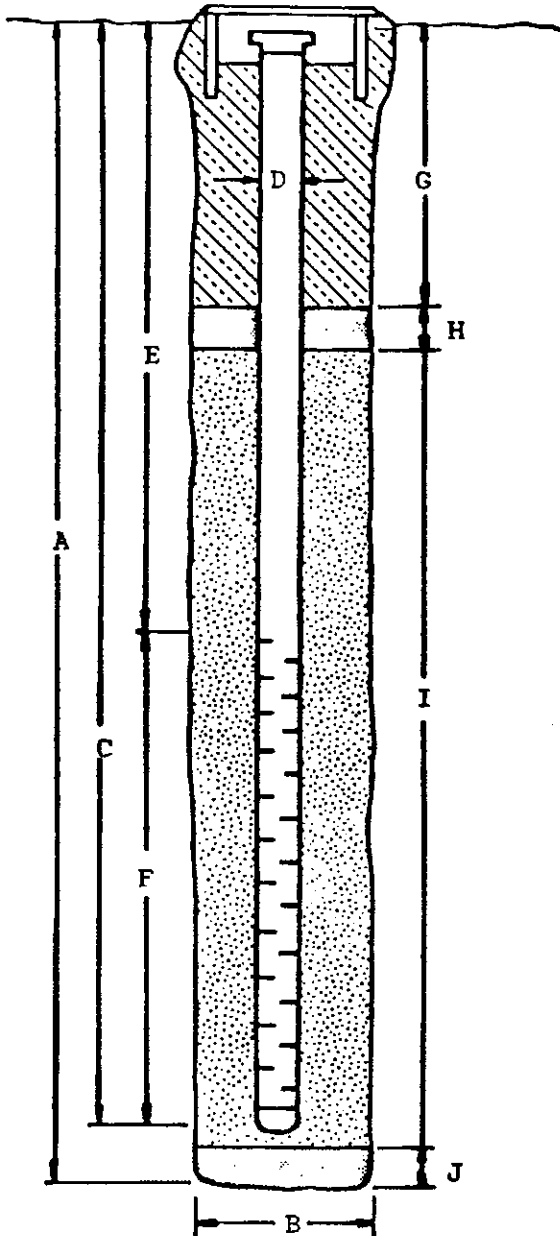
## W E L L   C O M P L E T I O N   D I A G R A M

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

BORING LOG				
Project No. KEI-P90-0209		Boring Diameter 8.5" Casing Diameter 2"		Logged By D.L.
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).
3/6/8/11			ML	Gravelly silt with sand, trace clay, stiff, moist to wet, very dark grayish brown, grades to black (fill?).
		5	GM	Silty gravel with sand, trace clay, very stiff, moist to wet, black (fill?).
3/4/5/9			CL	Silty clay, estimated at 5-10% fine-grained sand, firm to stiff, moist, olive brown and dark greenish gray, mottled.
7/16/28/45			SM	Silty sand, fine-grained, estimated at 30-40% silt, dense, very moist, cohesive, dark olive brown and dark greenish gray, mottled.
		15	GM	Silty gravel with sand, estimated at 15-20% silt, trace clay, dense to very dense, wet, dark olive gray.
22/30/50			GM	Silty gravel with sand, estimated at 15% silt, angular to subrounded gravel, very dense, saturated, dark yellowish brown.
		20		TOTAL DEPTH: 20'

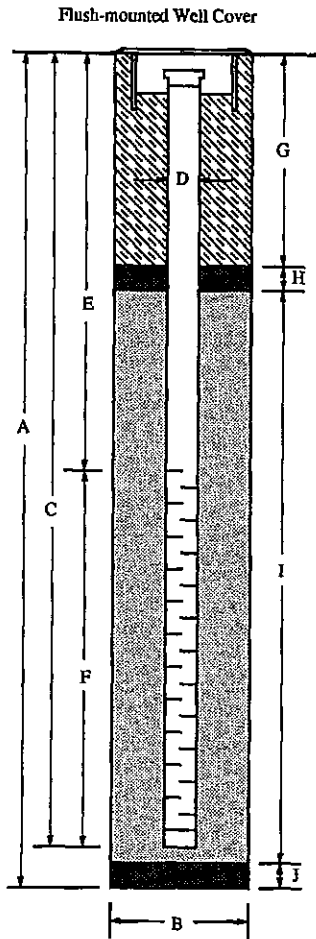
**WELL CONSTRUCTION DIAGRAM**

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

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

<b>Project No.</b> KEI-P88-1203		<b>Boring Diameter</b> 9" <b>Casing Diameter</b> 2"		<b>Logged By</b> JGG W.W. CEG 1633	
<b>Project Name</b> Unocal S/S #3135 845 - 66th Ave., Oakland		<b>Well Cover Elevation</b>		<b>Date Drilled</b> 9/29/92	
<b>Boring No.</b> MW8		<b>Drilling Method</b> Hollow-stem Auger		<b>Drilling Company</b> Woodward Drilling	
Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati-graphy 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.  TOTAL DEPTH: 23'	

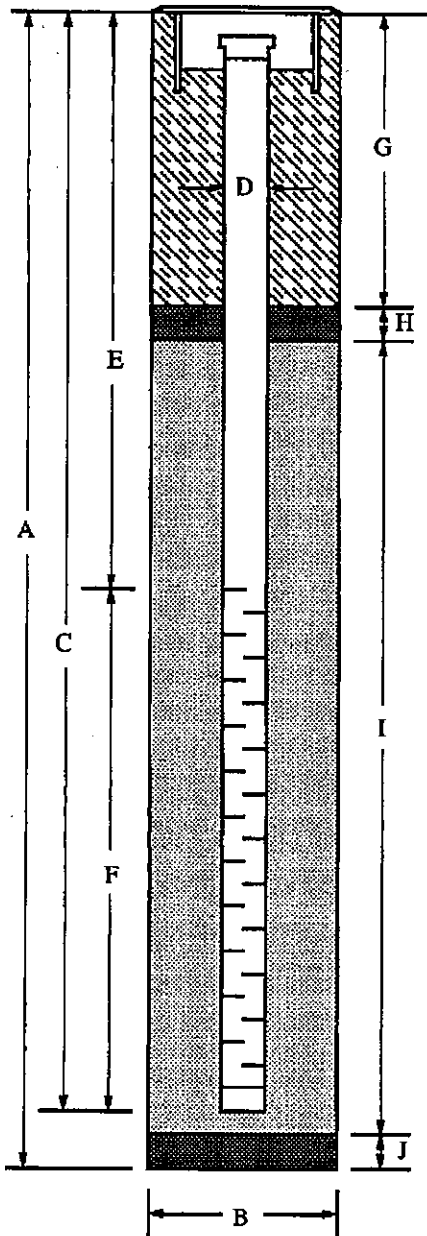
## WELL COMPLETION DIAGRAM

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

PROJECT NUMBER: KEJ-P88-1203

WELL PERMIT NO.: 92354

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: 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

<b>Project No.</b> KEI-P88-1203	<b>Boring Diameter</b> 9" <b>Casing Diameter</b> 2"	<b>Logged By</b> JGG <b>W.W.</b> CEG 1633
<b>Project Name</b> Unocal S/S #3135 845 - 66th Ave., Oakland	<b>Well Cover Elevation</b>	<b>Date Drilled</b> 9/28/92
<b>Boring No.</b> MW9	<b>Drilling Method</b> Hollow-stem Auger	<b>Drilling Company</b> 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.  Clayey silt as above, estimated at 5-10% sand, very moist to saturated below 13 feet.
4/6/9	▼	15		Clayey silt as above, estimated at 10% sand, trace gravel, saturated, yellowish brown (10YR)
5/8/11		15	SM	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).
12/17/24		20	GW	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).
14				



### BORING LOG

Project No. KEI-P88-1203		Boring Diameter 9" Casing Diameter 2"		Logged By <i>JGG</i> W.W. <i>CE61633</i>	
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	
15/15		25	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'	
		30			
		35			
		40			

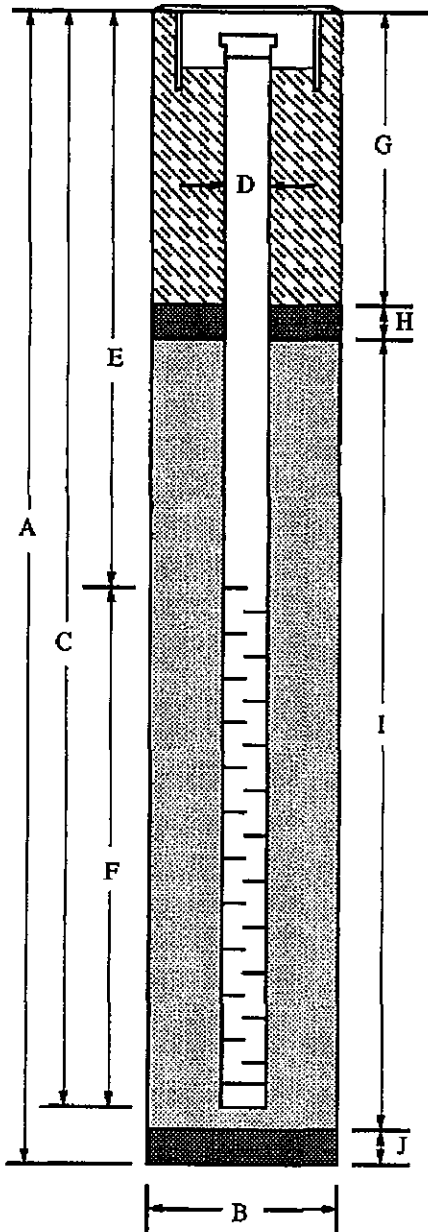
## WELL COMPLETION DIAGRAM

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

PROJECT NUMBER: KEI-P88-1203

WELL PERMIT NO.: 92354

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: 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

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

Penetration blows/6"	G. W. level	Depth (feet) Samples	Stratigraphy 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.
			SM	Silty sand, estimated at 30% silt, sand is fine-grained, medium dense, very moist, greenish gray (5GY 5/1), trace pores.
12/19/21	▼		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).
		15	ML	Silt, estimated at 10-15% fine-grained sand, trace clay, hard, very moist to saturated, greenish gray (5GY 5/1).
4/7/11			SM	Silty sand, estimated at 15% silt, sand is fine grained, medium dense, saturated, yellowish brown (10YR 5/4).
8/15/21		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).

### BORING LOG

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

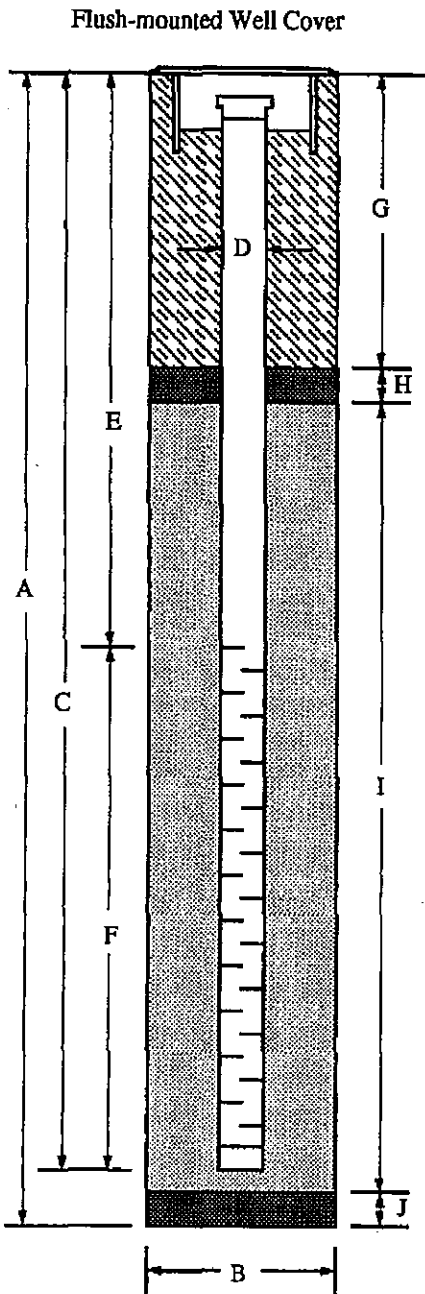
Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		25	GW	Well graded sandy gravel, estimated at 5-10% clay and 5% silt, dense, saturated, yellowish brown (10YR 5/4).  TOTAL DEPTH: 23'
		30		
		35		
		40		

## 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 (78) 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*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
0 - 1.5					[Solid black]		Asphalt and base rock.	<p>2" blank schedule 40 PVC</p> <p>2" machine stitched PVC (0.910 inch)</p> <p>cap</p> <p>#2/#2 Lonestar sand</p> <p>rest cement</p> <p>native material</p>
1.5 - 4.5					[Dotted pattern]	fill	Gravel and sand (fill).	
4.5 - 7.5	0	4	MW-11-5.5	[Diagonal lines]	[Dotted pattern]	SW	WELL GRADED SAND WITH GRAVEL (SW) - very dark gray (10YR 3/1), saturated, very loose; 75% fine to coarse sand, 25% fine to coarse gravel.	
7.5 - 12.5	0	7	MW-11-10	[Diagonal lines]	[Dotted pattern]	SW	WELL GRADED SAND (SW) - black (N2.5), saturated, loose; 100% fine to coarse sand.	
12.5 - 16.5	0	20	MW-11-15	[Diagonal lines]	[Dotted pattern]	SW	Color changes to brown (10YR 5/3), becomes medium dense; 90% fine to coarse sand. 10% fine gravel.	
16.5 - 20.5	0	15	MW-11-20	[Diagonal lines]	[Diagonal hatching]	CL	CLAY WITH SAND (CL) - dark yellowish brown (10YR 4/4), moist, stiff; 80% clay, 15% fine to coarse sand, 5% fine gravel.	
20.5 - 21.5							Bottom of boring at 21.5 feet bgs. (* = Converted to equivalent standard penetration blows/foot.)	