ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

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

March 25, 2014

Marvin Katz
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039
(*Sent via E-mail to: marvin.katz@shell.com*)

In Sup and Yong Ja Song
1015 Sanders Drive
Moraga, CA 94556-1916

Joseph H. Chan and Ivy T. Wong Trust
21213-B Hawthorne Blvd., #5146
Torrance, CA 94609

Subject: Case Closure for Fuel Leak Case No. RO0000264 and GeoTracker Global ID T0600101265, Shell #12-9452, 500 40th Street, Oakland, CA 94609

Dear Responsible Parties:

Alameda County Environmental Health (ACEH) have reviewed the fuel leak case file and case closure 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.swrcb.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 and existing building configuration only. Site Management Requirements are further described in section IV of the attached Case Closure Summary.

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

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

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

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 2032 (*Sent via E-mail to: lgriffin@oaklandnet.com*)

Peter Schaefer, Conestoga-Rovers & Associates, 5900 Hollis Street, Suite A Emeryville, CA 94608 (*Sent via E-mail to: pschaefer@craworld.com*)

Jerry Wickham, ACEH (*Sent via E-mail to: jerry.wickham@acgov.org*)

GeoTracker, e-File

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

March 25, 2014

Marvin Katz
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039
(*Sent via E-mail to: marvin.katz@shell.com*)

In Sup and Yong Ja Song
1015 Sanders Drive
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Torrance, CA 94609

Subject: Case Closure for Fuel Leak Case No. RO0000264 and GeoTracker Global ID T0600101265, Shell #12-9452, 500 40th Street, Oakland, CA 94609

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,

Anu Levi
Director

Alameda County Environmental Health

CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM

I. AGENCY INFORMATION

Date: September 12, 2013

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Jerry Wickham	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Shell #12-9452		
Site Facility Address: 500 40th Street, Oakland, CA 94609		
RB Case No.: NA	Local Case No.: STID 3613	LOP Case No.: RO0000264
URF Filing Date: ---	Geotracker ID: T0600101265	APN: 12-1012-5-3

Responsible Parties	Addresses	Phone Numbers
In S. & Yong Song	1015 Sanders Drive Moraga, CA 94556-1916	---
Marvin Katz Shell Oil Products US	20945 S. Wilmington Ave. Carson, CA 90810-1039	(310) 550-5846
Joseph Chan & Ivy Wong c/o Chan's Family Trust	Joseph Chan & Ivy Wong Trust, et al. 21213 Hawthorne Blvd., Suite B Torrance, CA 90503-5522	---

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
---	10,000	Gasoline	Removed	September 25, 1986
---	10,000	Gasoline	Removed	September 25, 1986
---	10,000	Gasoline	Removed	September 25, 1986
Piping			Removed	September 25, 1986

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. A leak in the piping over one of the tanks was identified in 1982.		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? Yes	Number: 25	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 8.42 fbgs	Lowest Depth: 19.35 fbgs	Flow Direction: Prevailing groundwater flow direction is to the west southwest; flow direction varies from west to southeast.
Most Sensitive Current Use: Potential drinking water source		

Summary of Production Wells in Vicinity: No water supply wells appear to be located within 2,500 feet of the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: Glen Echo Creek is located approximately 3,300 feet southeast of the site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None identified	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and City of Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	Three 10,000-gallon tanks	Not Reported	September 25, 1986
Piping	Not Reported	Not Reported	September 25, 1986
Free Product	4.2 gallons	Removed by manual bailing and periodic batch extraction using vacuum truck. Disposed off-site	September 1982 through July 1983
Soil	----	---	---
Groundwater	----	---	---

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
(Please see Attachments 1 through 6 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	210	210	35,000 (1)	7,000 (1)
TPH (Diesel)	40	40	27,000 (1)	2,000 (1)
TPH (Motor Oil)	27	27	Not Analyzed	Not Analyzed
Oil and Grease	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
Benzene	0.064	0.064	1,300 (2)	2.3 (2)
Toluene	0.46	0.46	420 (2)	< 0.50 (3)
Ethylbenzene	1.1	1.1	650 (1)	40 (1)
Xylenes	6.3	6.3	1,900 (3)	< 1.0 (3)
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	22 (4)	22 (4)	Not Analyzed	Not Analyzed
MTBE	Not Analyzed (5)	Not Analyzed (5)	14.6 (6)	< 2.0 (7)
Other (8240/8270)	Not Analyzed	Not Analyzed	400 (8)	400 (8)

Notes:

1) The maximum concentration before cleanup is from a groundwater sample from well OMW-6 on 02/15/1992; the maximum concentration after cleanup is from a groundwater sample collected from well OMW-6 on 09/26/2011.
(2) The maximum concentration before cleanup is from a groundwater sample from well OMW-6 on 02/11/1993; the maximum concentration after cleanup is from a groundwater sample collected from well OMW-6 on 09/26/2011.
(3) The maximum concentration before cleanup is from a groundwater sample from well OMW-6 on 08/06/1991; the maximum concentration after cleanup is from a groundwater sample collected from well OMW-6 on 09/26/2011.
(4) Total lead = 22 ppm; no other metals analyzed
(5) No fuel oxygenates analyzed in soil.
(6) MTBE = 500 ppb using EPA Method 8020; 14.6 ppb using EPA Method 8260; DIPE, ETBE, TAME, EDB, and EDC <0.5 ppb; TBA = 13 ppb.
(7) MTBE, DIPE< ETBE, TAME, EDB, and EDC <2.0 ppb and TBA = 20.0 ppb during sampling event on 09/26/2011.
(8) Tetrachloroethene = 400 ppb; Trichloroethene = 40 ppb, can cis-1,2-dichloroethene = 42 ppb. Based on the distribution of the VOC detections, type of VOCs detected, and site history, the VOCs are suspected to be from an off-site source and are not considered part of this closure.

Site History and Description of Corrective Actions:

The site is currently a retail shopping center consisting of commercial buildings and a parking area. Surrounding land use is mixed residential and commercial. Prior to development of the site as a retail shopping center in 1986, the site was a gasoline service station. The MacArthur BART station is located approximately 500 feet west of the site. Construction of a transit village is planned for the BART parking lot, which is approximately 130 feet southwest (downgradient) of the site.

In July 1982, Shell reported a fuel leak at the site. Eight groundwater monitoring wells (B-1 through B-8) were installed on the site in July 1982 to define the potential extent of contamination. From 1982 to 1987, free product was observed in on-site groundwater monitoring wells B-3, B-4, B-6, and B-8, with an increasing thickness trend occurring in the summer when water tables were lower. Up to six feet of free product was observed in well B-4 during the period between 1982 and 1987. Between September 1982 and July 1983, approximately 4.19 gallons of free product was removed by manual bailing and periodic batch extraction using a vacuum truck.

Additional monitoring wells B-9 through B-11 and recovery wells R-1 and R-2 were installed between June and October 1983. No reports document the operation of recovery wells R-1 and R-2, which were subsequently removed in November 1983 during tank removal.

The first-generation tanks were reportedly removed in November 1983, with no reports documenting the excavation. Following the 1983 tank removal, three 10,000-gallon gasoline USTs were installed in 1984 and subsequently removed on September 25, 1986. Shell Oil Company owned the site until 1986. The commercial shopping center which currently occupies the site was constructed in January 1987 and covered previous wells.

Soil lithology consists of silty clay with trace to slight amounts of sand and gravel. The groundwater gradient at the site has varied between the west, south, and southeast. Depth to water has historically varied between 8.42 feet below ground surface (fbgs) and 19.35 fbgs. Residual contamination appears to be typically encountered at a depth of approximately 10 fbgs.

Four soil borings were advanced east of the former USTs in May and September 1989 and completed as groundwater monitoring wells MW-2 through MW-5. Soil samples were collected from the borings between 4 and 16 feet below ground surface (fbgs). The soil sample collected from boring MW-3 at 10 fbgs contained the only reported concentrations of TPHg, benzene, and xylenes at concentrations of 28 ppm, 0.054 ppm, and 0.099 ppm, respectively.

Between October and December 1989, four soil borings were advanced (CSB-1, OMW-6, OMW-9, and OMW-10). The maximum concentration of TPHg in soil was detected off-site in boring OMW-9 at a concentration of 210 ppm. The maximum on-site concentration of TPHg in soil was 18 ppm, collected from boring OMW-6 at a depth of 10 fbgs.

Monitoring well MW-8 and extraction well EW-1 were installed on June 27 and 28, 1990. Soil samples were collected from the borings between 6 and 20 fbgs. Soil collected from boring EW-1 at 10 fbgs contained the only detections of TPHg and TPHd at concentrations of 110 ppm and 4.4 ppm, respectively. The soil from boring EW-1 also contained the only detections of BTEX.

Off-site monitoring wells OMW-11 through OMW-13 were installed on November 20 and 22, 1991. Soil samples were collected from the borings between 5 and 15 fbgs. The only soil contamination detected was 56 ppm TPHmo, collected from boring OMW-12 at a depth of 4.5 fbgs.

No activities other than groundwater monitoring appear to have take place between 1991 and November 2004. On November 18, 2004, wells EW-1, MW-4, MW-5, OMW-10, OMW-11, and OMW-12 were decommissioned.

Site History and Description of Corrective Actions (continued):

Two nested soil vapor probes (SVP-1 and SVP-2) and two sub-slab vapor probes (SVP-3 and SVP-4) were installed on October 25, 2011. The probes were sampled on November 30, 2011 and January 18, 2012. Sub-slab probes SVP-3 and SVP-4 did not contain TPHg or benzene at concentrations above reporting limits of 3,800 and 16 micrograms per cubic meter ($\mu g/m^3$), respectively. Toluene, ethylbenzene, and xylenes were detected in sub-slab probes SVP-3 and SVP-4 at maximum concentrations of 20, 82, and 110 $\mu g/m^3$, respectively. These concentrations are below residential and commercial Environmental Screening Levels.

Off-site groundwater was most recently sampled on March 26, 2012. Groundwater samples from wells on the south side of 40th Street contained up to 2,900 ppb TPHg, 1,200 ppb TPHd, and 2.9 ppb benzene. Well OMW-6, the closest off-site boring to the property, was last sampled on November 26, 2011. During the November 26, 2011 sampling event, groundwater from well OMW-6 contained 7,000 ppb TPHg, 2,000 ppb TPHd, and 2.3 ppb benzene.

Groundwater monitoring has been conducted at the site since 1982. The monitoring data indicate that the plume generally appears to be stable with slowly decreasing trends in concentrations. Based on the evidence in provided reports, the residual contamination on-site and off-site of soil, groundwater, and soil vapor is not suspected to pose a threat to human or environmental health.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, closure of this site appears to be consistent with the policies established by the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy which became effective on August 17, 2012.		
Site Management Requirements: This fuel leak case has been evaluated for closure consistent with the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Sub-slab soil vapor data indicate that petroleum vapor intrusion to indoor air does not pose a significant risk to human health for the current commercial buildings. However, the concentrations of ethylbenzene and the reporting limits for benzene in soil vapor samples collected five feet bgs during one or more sampling events have exceeded the numerical media-specific criteria in the LTCP for petroleum vapor intrusion to indoor air (with no bioattenuation zone). If the site were to be redeveloped, there is a potential for vapor intrusion to pose a future risk. Therefore, case closure is granted for the current commercial land use and existing building configuration only. If a change in land use or if any redevelopment occurs, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. Due to the potential for vapor intrusion to indoor air for future buildings, 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.		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? No		Date Recorded: ---
Monitoring Wells Decommissioned: No*	Number Decommissioned: 18	Number Retained: 7
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

*During construction of a retail shopping center, wells R-1, R-2, B-2, B-6, B-7, and B-9 were covered by the building and wells B-1, B-2, B-3, B-4, B-5, and B-8 were covered by the parking lot and rear driveway pavement, The wells are not reported to have been destroyed. Wells EW-1, MW-4, MW-5, OMW-10, OMW-11, and OMW-12 were decommissioned on November 18, 2004.

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

There is no UST removal report for the 1983 UST removal. The presence of separate phase hydrocarbons and removal of SPH between 1984 and 1986 are presented only in progress reports and not in technical reports. There are no reports of a waste oil UST removal for the site.

The site appears to meet the groundwater media-specific criteria for closure under the LTCP:

1. The plume is less than 1,000 feet in length.
2. There is no free product.
3. No water supply wells or surface water bodies are within 1,000 feet of the plume boundary.
4. The dissolved concentrations of benzene and MTBE are less than 1,000 ppb, respectively.

The evaluation of sub-slab soil vapor data in the "*Subsurface Investigation Report*," (Conestoga-Rovers & Associates, March 27, 2012) calculated a soil gas to indoor air attenuation factor of 0.0005 and compared the maximum concentrations for toluene, ethylbenzene, and total xylenes in the sub-slab vapor samples multiplied by 0.0005 with the commercial indoor air Environmental Screening Levels (ESLs). Based on this comparison, Conestoga-Rovers & Associates concluded that petroleum vapors are unlikely to cause indoor air intrusion at concentrations exceeding indoor air ESLs. A comparison of the data using a more conservative attenuation factor of 0.014 (95^{th} percentile attenuation factor for sub-slab to indoor air attenuation from U.S. Environmental Protection Agency (EPA) Vapor Intrusion Database (EPA March 16, 2012) for slab on grade foundations also indicated that indoor air concentrations are unlikely to cause indoor air intrusion at concentrations exceeding indoor air ESLs.

Although vapor intrusion does not appear to pose a risk for the current commercial building, the area outside the building does not meet the media-specific criteria for petroleum vapor intrusion to indoor air under the LTCP for the following reasons:

1. The concentration of oxygen is less than 4% at a depth of 5 fbgs. Therefore, the site is not considered to have a bioattenuation zone under the LTCP.
2. In two soil vapor samples, the concentration of ethylbenzene in soil vapor exceeds the residential and commercial LTCP soil gas criteria of 1,100 and 3,600 micrograms per cubic meter ($\mu g/m^3$), respectively (with no bioattenuation zone).
3. The reporting limit for benzene in two soil vapor samples exceeds the residential and commercial LTCP soil gas criteria of 85 and 280 $\mu g/m^3$, respectively (with no bioattenuation zone).

Although vapor intrusion does not appear to pose a risk for the current commercial building, the potential for vapor intrusion should be re-evaluated if the site is redeveloped in the future. Therefore, a site management requirement has been placed on the site to re-evaluate the site if land use changes or any redevelopment occurs.

Construction of a transit village is planned for the BART parking lot, which is approximately 130 feet southwest (downgradient) of the site. The dissolved petroleum hydrocarbon plume that has moved off-site and likely extends beneath the BART parking lot is not expected to pose a risk for vapor intrusion to indoor air for the planned BART transit village or surrounding residences and commercial buildings for the following reasons:

1. Since, the depth to groundwater is typically 10 to 12 fbgs, there is a bioattenuation zone that is more than 5 feet thick beneath the residences and commercial buildings within the likely extent of the plume.
2. The dissolved concentration of benzene is less than 100 ppb.
3. Based on the above conditions, petroleum vapors are not expected to pose a risk to the planned transit village or surrounding residences or commercial building. The site meets the petroleum vapor intrusion to indoor air media-specific criteria for case closure under the LTCP.

Volatile organic compounds (VOCs) have been detected in groundwater collected from several on-site and off-site groundwater monitoring wells. The highest concentrations of VOCs have generally been detected in off-site wells OMW-11 and OMW-12 more than 150 feet southwest of the site. Based on the distribution of the VOC detections, type of VOCs detected, and site history, the VOCs are suspected to be from an off-site source, and as such are not considered part of this closure.

Conclusion:
Alameda County Environmental Health staff believe that the site meets the conditions for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy. Based upon the information available in our files to date, no further investigation or cleanup for the fuel leak case is necessary at this time. However, as specified in the Site Management Requirements, re-evaluation of this case is required if land uses changes or if any redevelopment occurs.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham, P.G.	Title: Senior Hazardous Materials Specialist
Signature: Jerry Wickham	Date: 09/24/13
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature:	Date: 09/24/13

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.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: 09/19/13	

VIII. MONITORING WELL DECOMMISSIONING

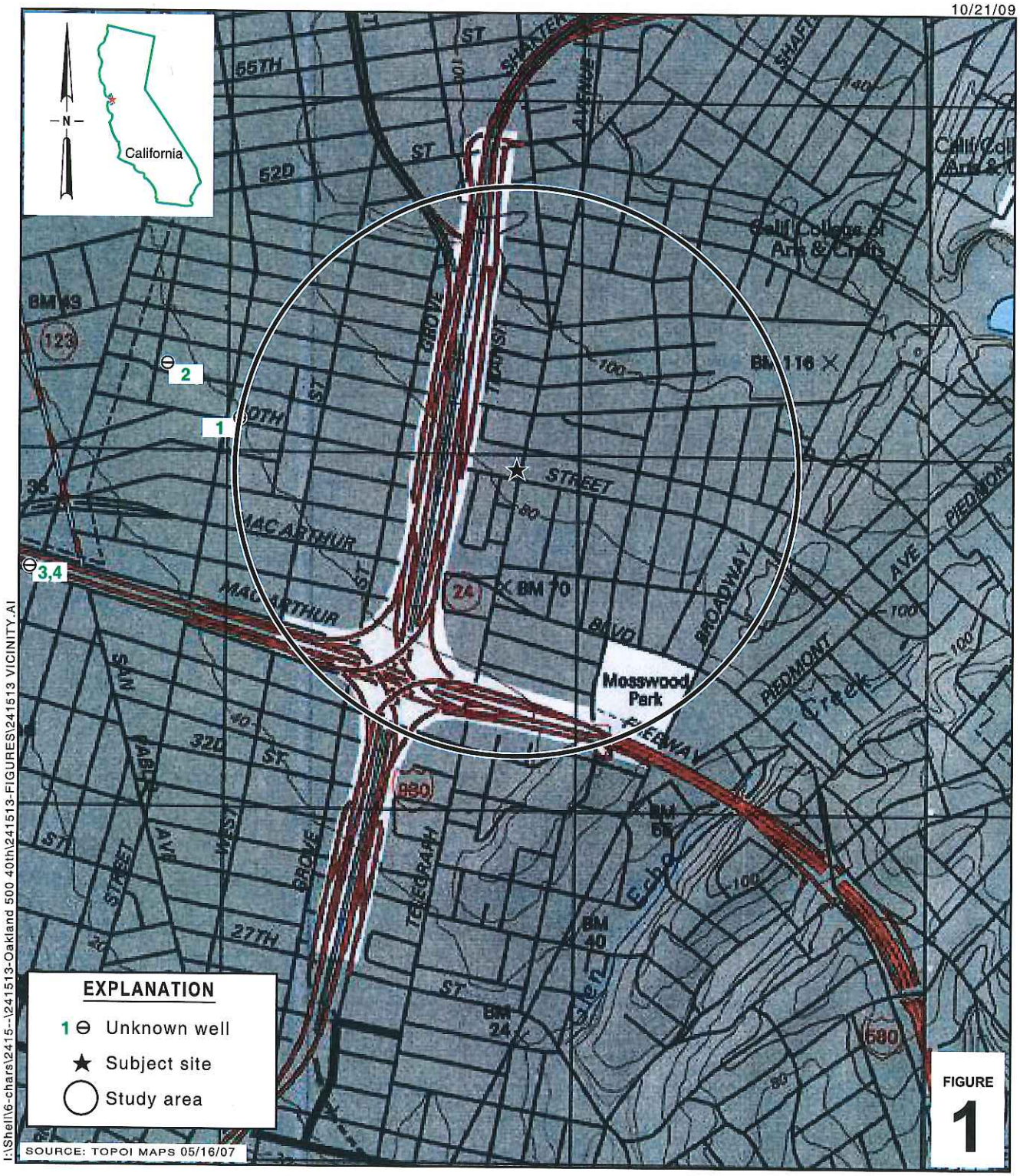
Date Requested by ACEH: 12/02/13	Date of Well Decommissioning Report: 03/21/14	
All Monitoring Wells Decommissioned: (Yes) No	Number Decommissioned: 6	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: Jerry Wickham		Date: 03/25/14

Attachments:

1. Vicinity Map and Plot Plans (6 pp)
2. Groundwater Contour Maps and Soil Vapor Concentration Map (5 pp)
3. Soil and Soil Vapor Analytical Data (4 pp)
4. Groundwater Analytical Data (33 pp)
5. Boring Logs (37 pp)
6. Cross Sections (7 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

10/21/09



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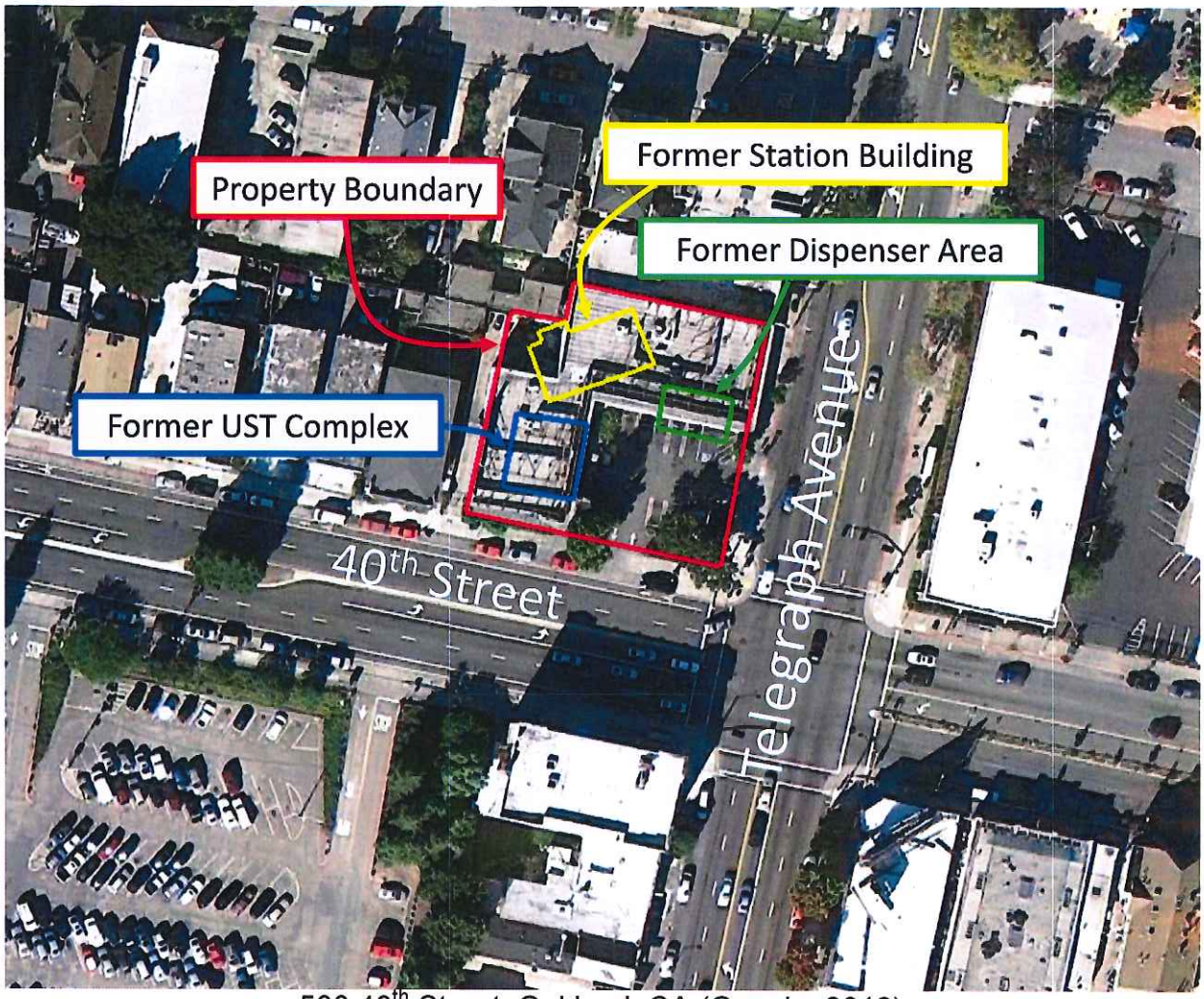
Former Shell Service Station
500 40th Street
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

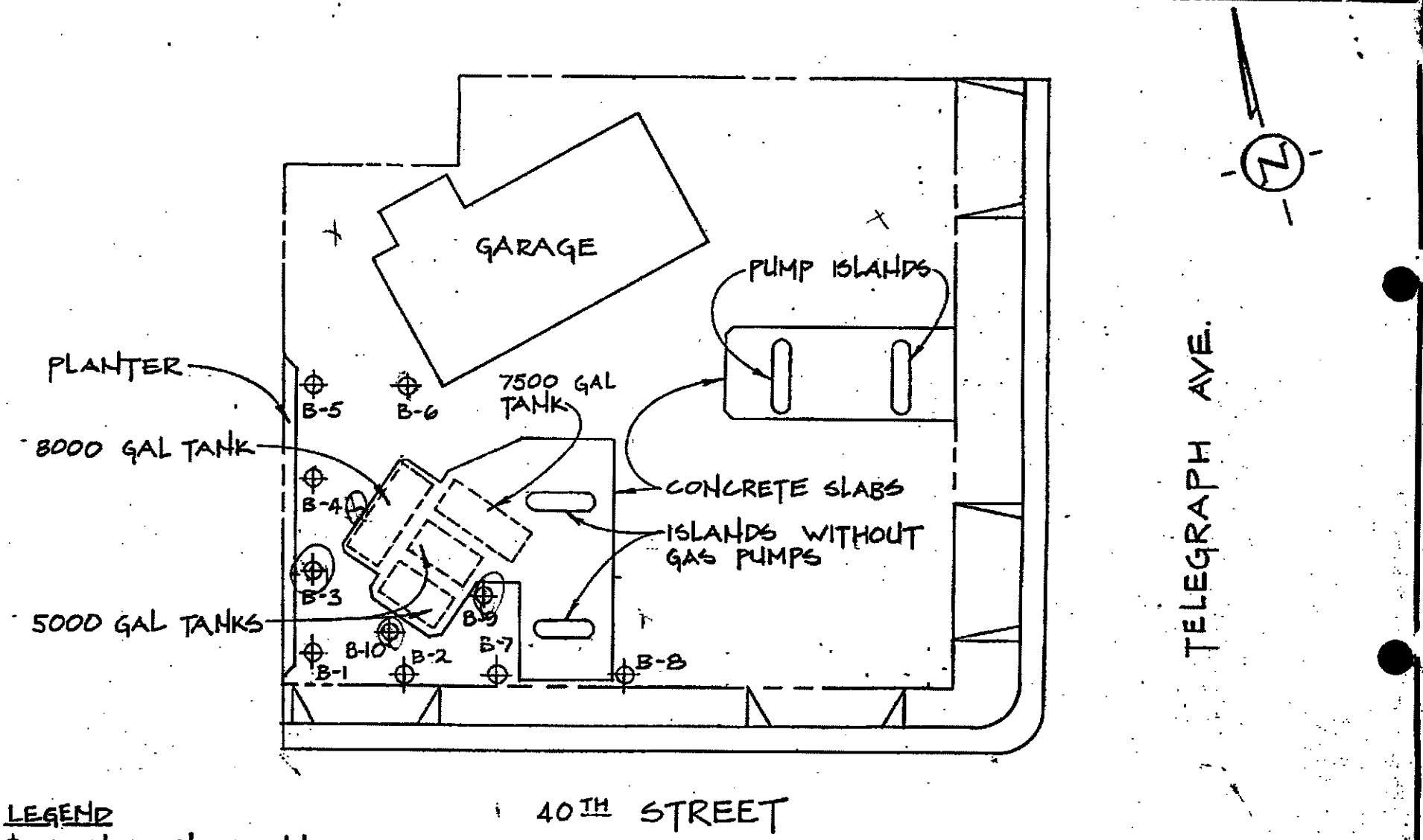
Vicinity Map

ATTACHMENT 1



500 40th Street, Oakland, CA (Google, 2012)

1-3532-A01002-0



LEGEND
⊕ MONITORING WELL

ENVIROSCIENCE

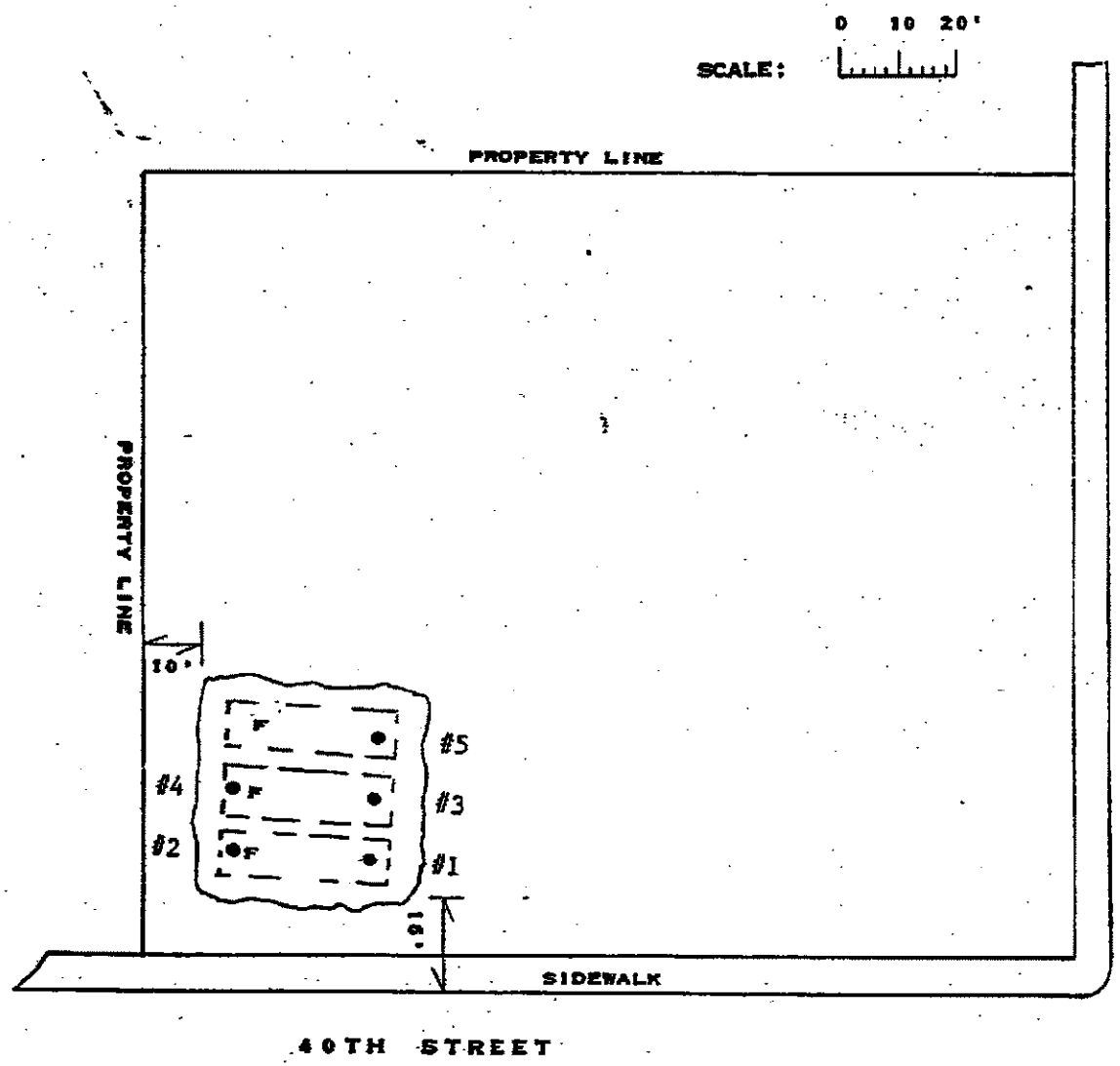
MONITORING WELL LOCATIONS
SHELL OIL
500 40TH STREET
OAKLAND, CA. 94609

FIGURE 2

DESIGNED BY :
DRAWN BY : C. HEINRITZ
PROJECT NO : 1-3532
SCALE : 1"=30'-0"
DATE : 7-19-82

BLAINE
TECH SERVICES

SAMPLING REPORT 86268F1 9-25-86 JACK QUARLE, 40TH STREET & TELEGRAPH AVE., OAKLAND, CA



MAP REF: THOMAS BROS., ALAMEDA COUNTY P. 4 C-2

LEGEND: F = FILL PIPE

#1 SOIL FROM 10'
500 PPM-VAPOR
ANALYSIS FOR GASOLINE AT
SOIL AND WATER LABORATORY
S & W LAB NO. 268B6-1

#2 SOIL FROM 9.5'
ANALYSIS FOR GASOLINE
S & W LAB NO. 286B6-2

#3 SOIL FROM 10'
2,000 PPM-VAPOR
ANALYSIS FOR GASOLINE
S & W LAB NO. 268B6-3

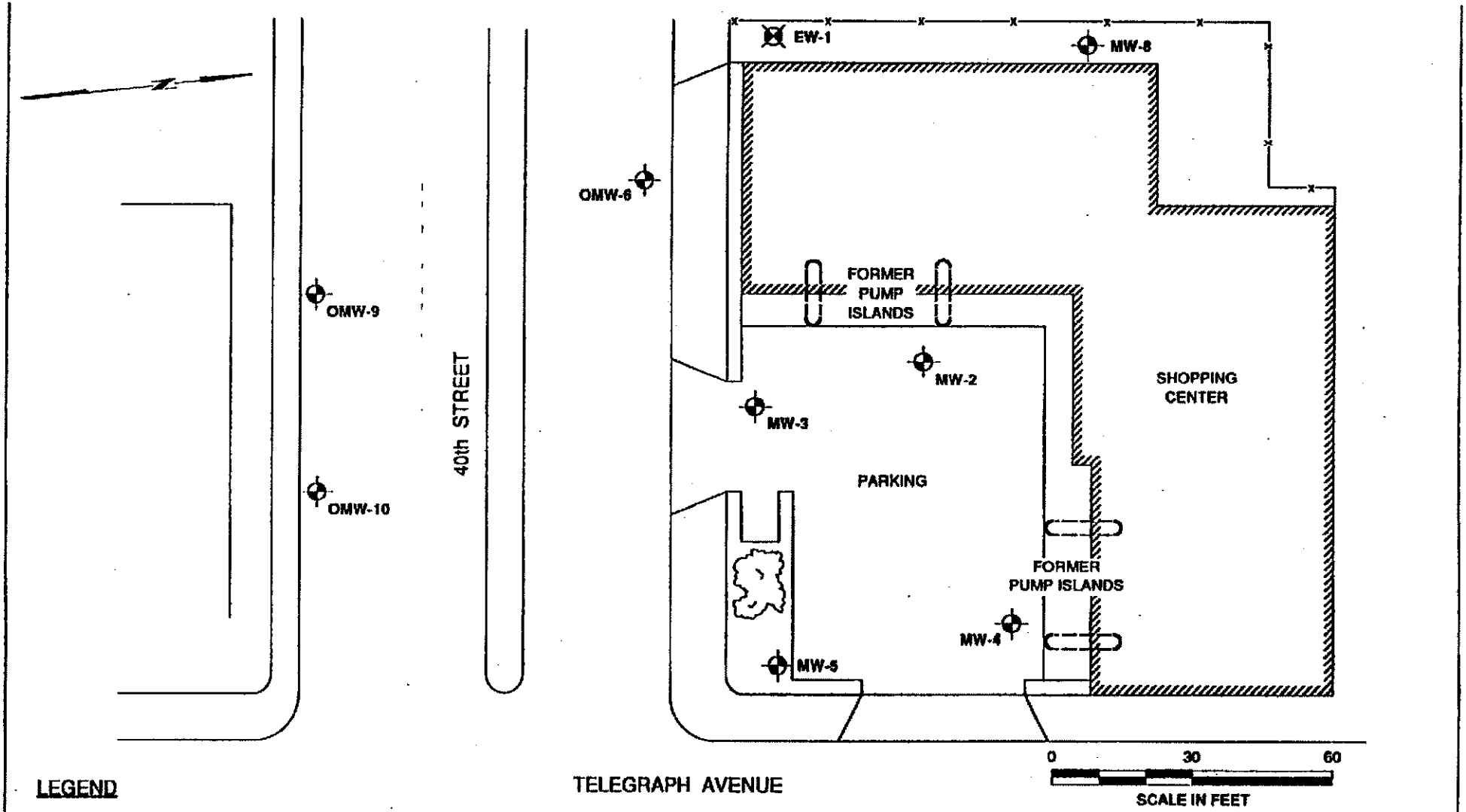
#4 SOIL FROM 9.5'
ANALYSIS FOR GASOLINE
S & W LAB NO. 268B6-4

#5 SOIL FROM 10'
2,000 PPM-VAPOR
ANALYSIS FOR GASOLINE
S & W LAB NO. 268B6-5

SAMPLING PERFORMED BY
FRANK A. CLINE

DIAGRAM PREPARED BY
TAMMIE STALLINGS

Tammie Stallings



LEGEND

MW-1 GROUNDWATER MONITORING WELL

OMW-6 OFFSITE GROUNDWATER MONITORING WELL

EW-1 GROUNDWATER EXTRACTION WELL

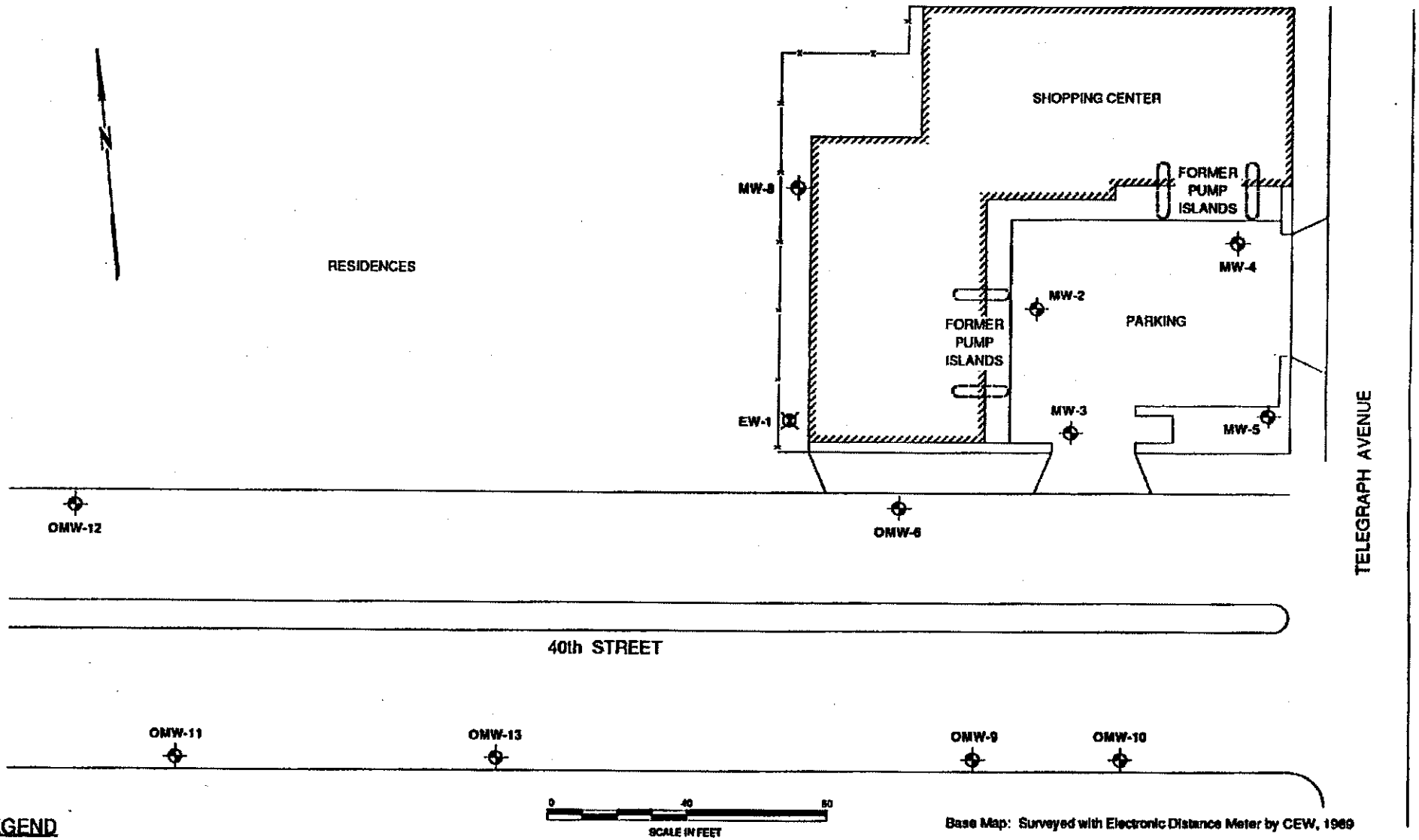
Base Map: Surveyed with Electronic Distance Meter by CEW, 1989

PLOT PLAN

SHELL OIL COMPANY
500 40th Street
Oakland, California

Converse Environmental West

Scale: AS SHOWN	Project No.: 88-44-361-20
Prepared by: LOL	Date: 9/17/91
Approved by: DS	Drawing No.: 2
WIC No.: 204-5508-4903	



Base Map: Surveyed with Electronic Distance Meter by CEW, 1989

LEGEND

MW-1 GROUNDWATER MONITORING WELL

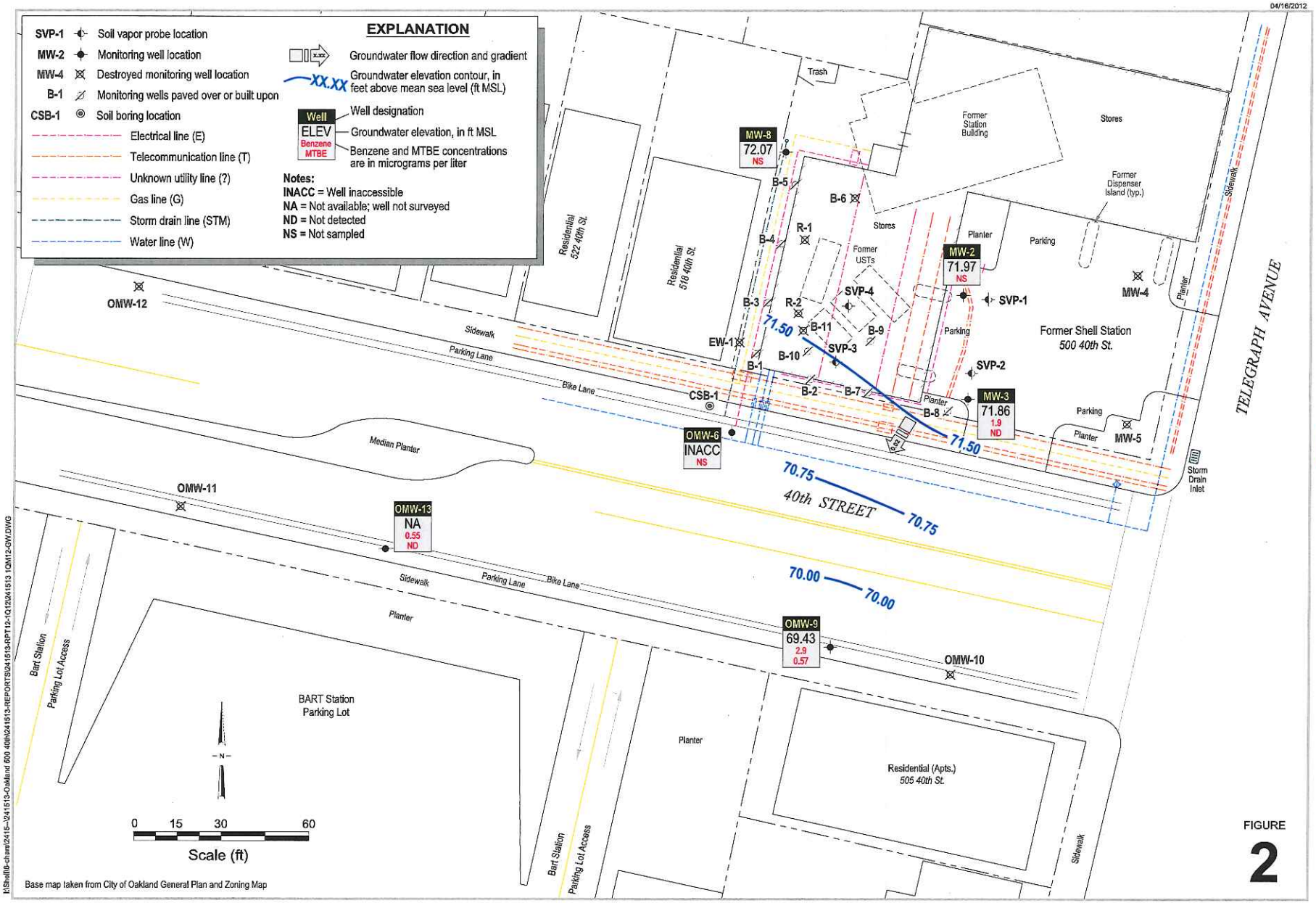
OMW-1 OFFSITE GROUNDWATER MONITORING WELL

OFFSITE PLOT PLAN

SHELL OIL COMPANY
500 40th Street
Oakland, California

Converse Environmental West

Scale	AS SHOWN
Project No.	88-44-361-20
Prepared by	LOL
Date	12/30/91
Approved by	DS
Drawing No.	3
WIC No.	204-5508-4903



I:\Shell\5-chars\2415--\241513-Oakland 500 40th\241513-REPORTS\241513-RPT12-1Q12\241513 1QM12-GW.DWG

Groundwater Contour and Chemical Concentration Map

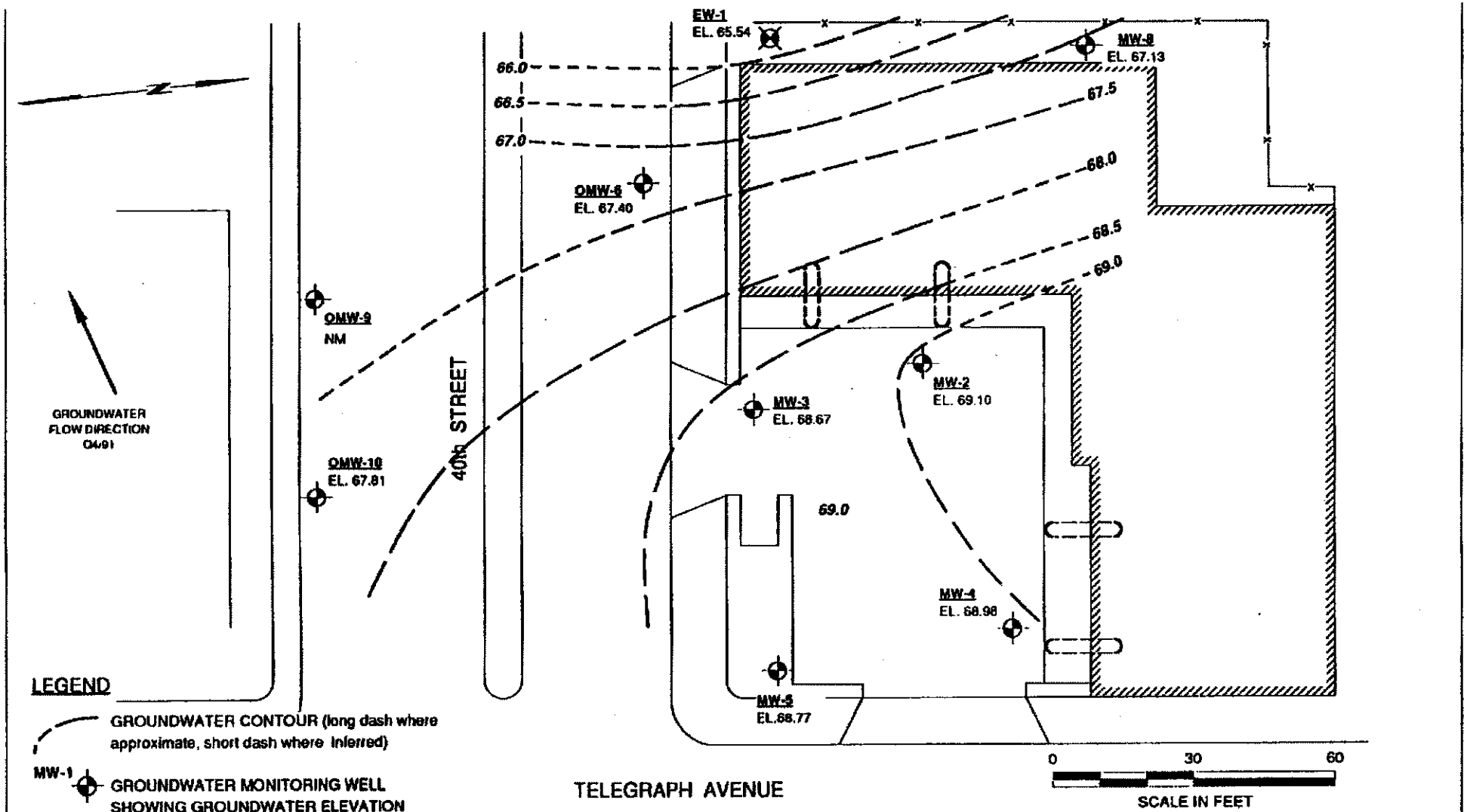
March 26, 2012

CONESTOGA-ROVERS & ASSOCIATES

Former Shell Service Station
500 40th Street
Oakland, California

FIGURE
2

ATTACHMENT 2



Base Map: Surveyed with Electronic Distance Meter by CEW, 1989

LEGEND

- GROUNDWATER CONTOUR (long dash where approximate, short dash where inferred)
- MW-1 — GROUNDWATER MONITORING WELL SHOWING GROUNDWATER ELEVATION
- OMW-5 — OFFSITE GROUNDWATER MONITORING WELL
- EW-1 — GROUNDWATER EXTRACTION WELL
- NM = NOT MEASURED
- NOTE: GROUNDWATER ELEVATIONS GIVEN IN FEET ABOVE MEAN SEA LEVEL.

GROUNDWATER CONTOUR MAP Q4/91

SHELL OIL COMPANY
500 40th Street
Oakland, California

Converse Environmental West

Scale	AS SHOWN
Project No.	88-44-361-20
Prepared by	LOL/TNW
Date	12/12/91
Approved by	DS
Drawing No.	4
WIC No.	204 5508 4903

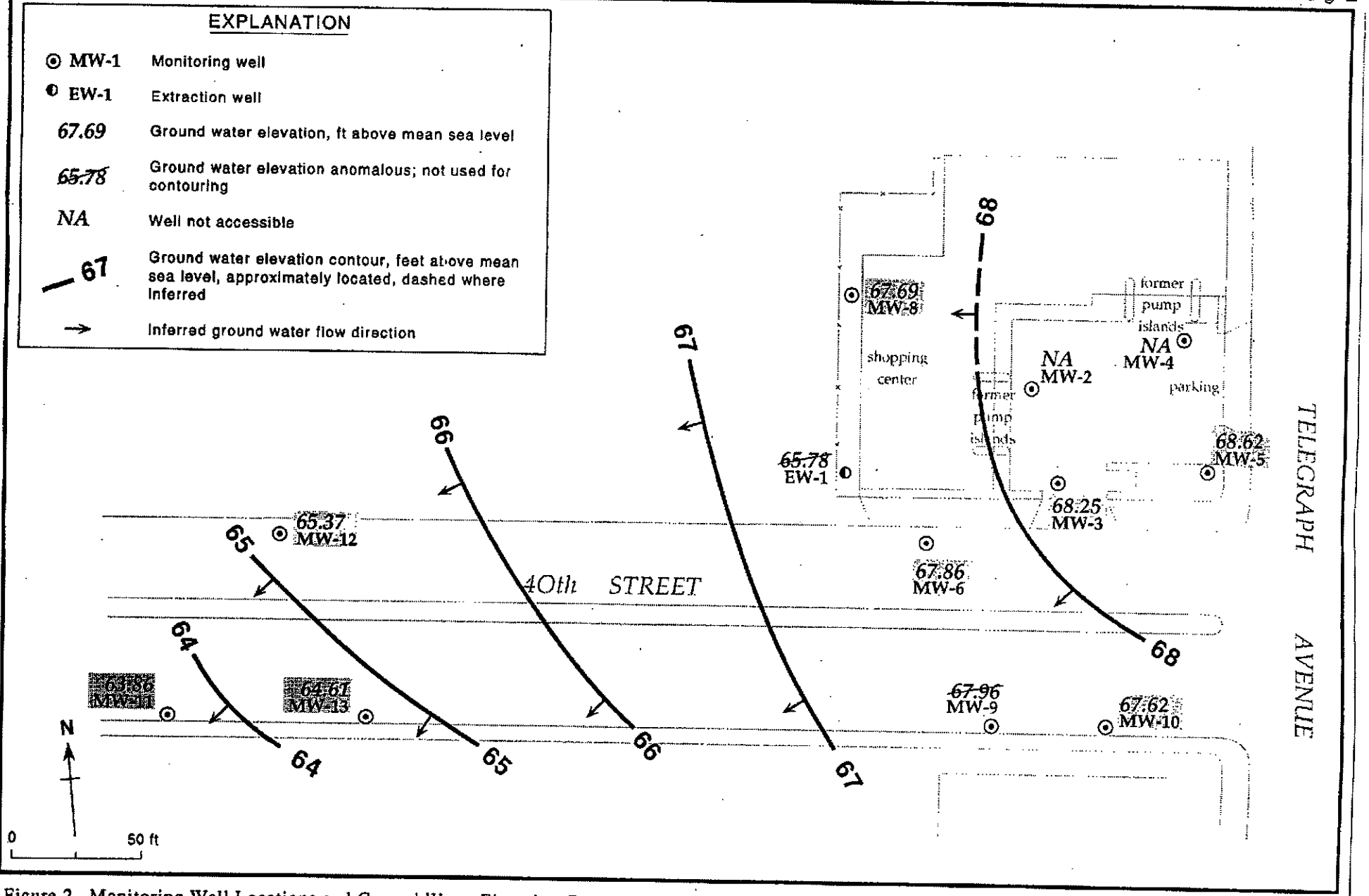
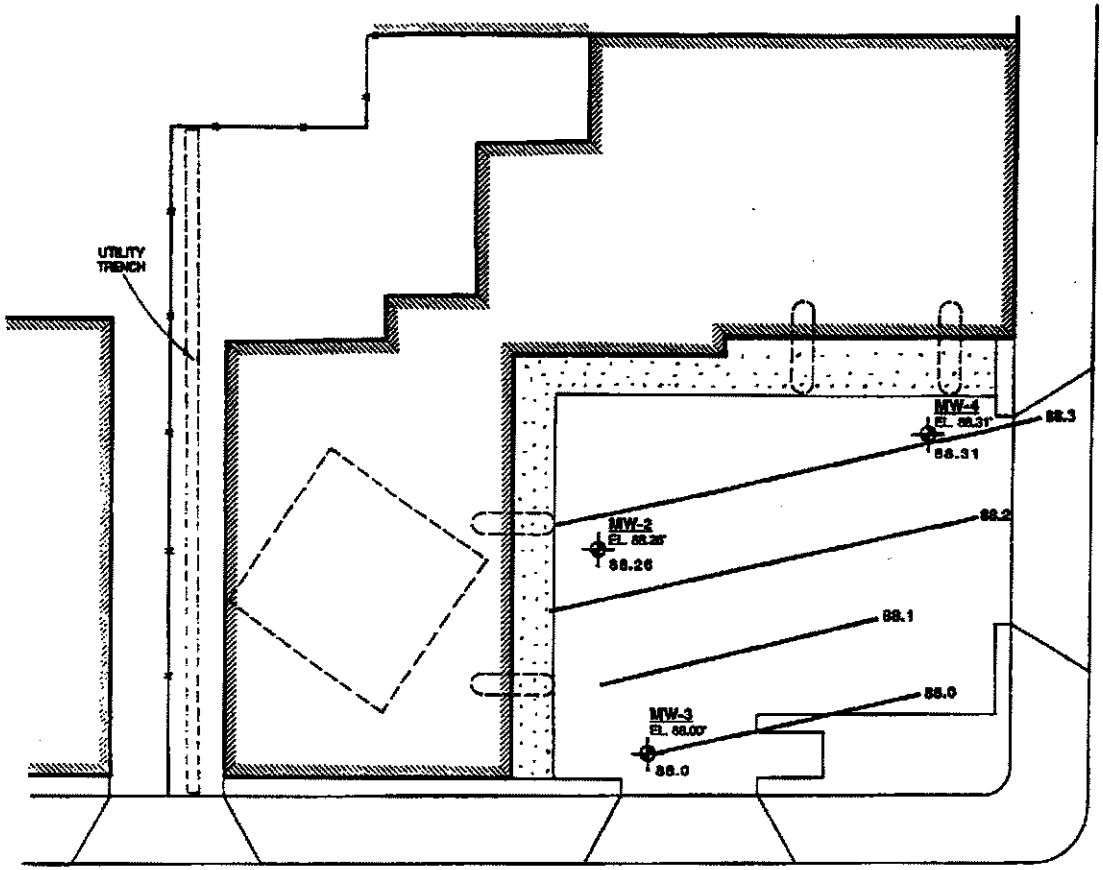


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - August 18, 1993 - Shell Service Station, WIC #204-5508-4903, 500 40th Street, Oakland, California

S601-004

10/1/93



GROUNDWATER GRADIENT

LEGEND

MW-2 GROUNDWATER MONITORING WELL

NOTE: GROUNDWATER ELEVATIONS ARE IN FEET ABOVE ARBITRARY DATUM

0 20 40
SCALE FEET

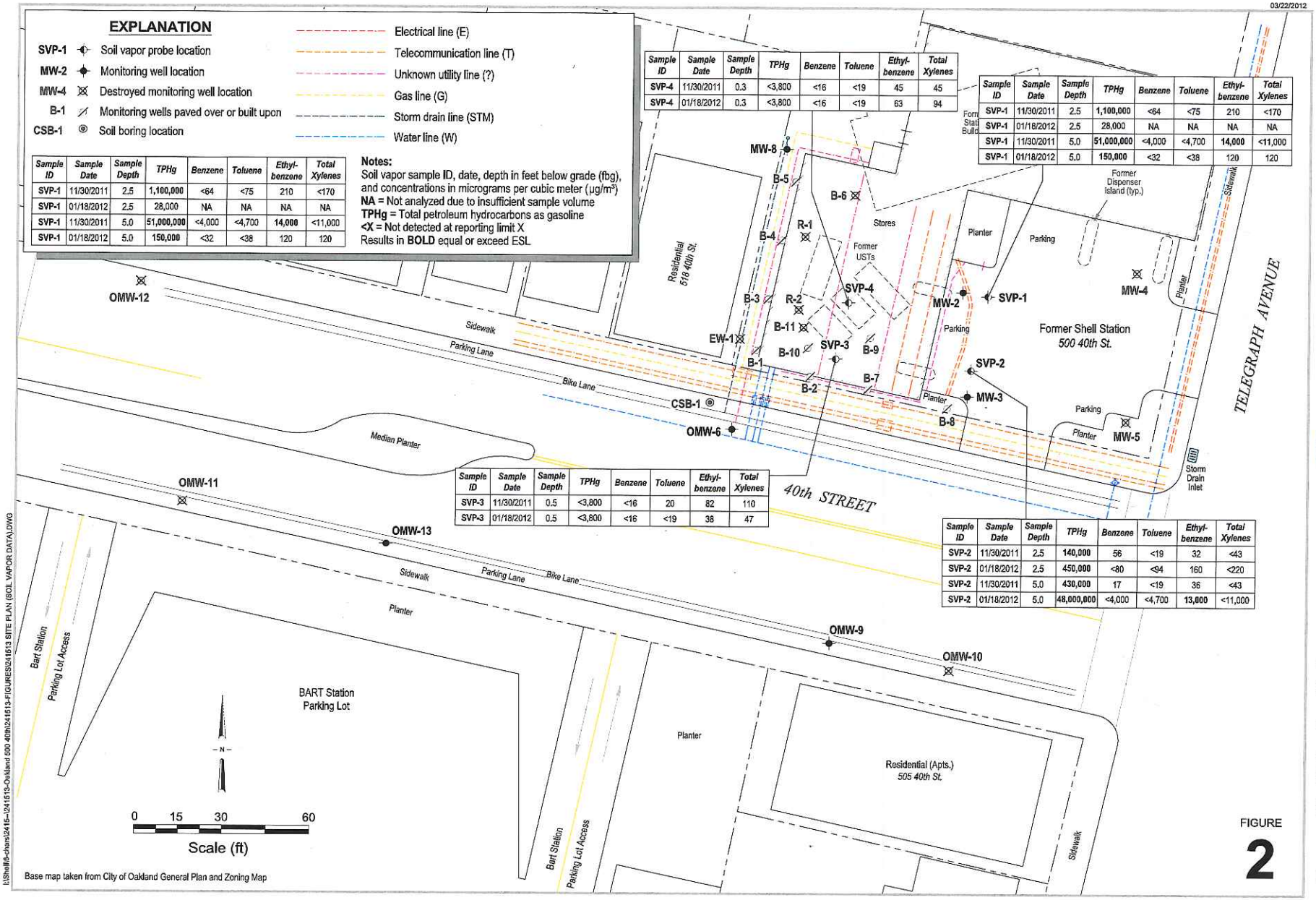
GROUNDWATER GRADIENT AUGUST 1989

SHELL OIL COMPANY
500 40th Street
Oakland, California

Converse Environmental Consultants California

Scale	AS SHOWN
Date	9/11/89
Prepared By	MLL
Checked By	MIY
Approved By	DMC
Project No	88-44-361-01
Drawing No	6

Base Map Surveyed with EDM Converse '089



Soil Vapor Concentration Map

CONESTOGA-ROVERS & ASSOCIATES

Former Shell Service Station
500 40th Street
Oakland, California

FIGURE
2

Table 1. Historical Soil Analytical Results - Former Shell Station, Incident #97093400
500 40th St, Oakland, California

Sample ID	Sample Depth (fbg)	Sample Date	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylene	Total Lead
			←			(parts per million)			→
1 (tank pit)	10	9/25/1986	**99**	NA	NA	NA	NA	NA	NA
2 (tank pit)	9.5	9/25/1986	**8**	NA	NA	NA	NA	NA	NA
3 (tank pit)	10	9/25/1986	**27**	NA	NA	NA	NA	NA	NA
4 (tank pit)	9.5	9/25/1986	**74**	NA	NA	NA	NA	NA	NA
5 (tank pit)	10	9/25/1986	**86**	NA	NA	NA	NA	NA	NA
EW-1	6	6/28/1990	< 1.0	< 1.0	< 0.0025	< 0.0025	< 0.0025	**0.0081**	**9.1**
EW-1	10	6/28/1990	**110**	**4.4**	**0.028**	**0.380**	**0.410**	**1.600**	**3.3**
EW-1	15	6/28/1990	< 1.0	< 1.0	< 0.0025	**0.005**	< 0.0025	**0.0029**	**3.0**
EW-1	20	6/28/1990	< 1.0	< 1.0	< 0.0025	< 0.0025	< 0.0025	< 0.0025	**4.8**
MW-2	5, 10, 15	5/22/89	< 10	< 10	< 0.025	**0.028**	< 0.075	< 0.075	**0.4**
MW-3	5, 10	5/23/89	< 10	< 10	**0.054**	**0.032**	< 0.075	**0.099**	< 0.2
MW-4	5, 10	5/23/89	< 10	< 10	< 0.025	< 0.025	< 0.075	< 0.075	< 0.2
MW-5	4	9/19/89	< 10	< 10	< 0.025	< 0.025	< 0.075	< 0.075	**12**
MW-5	8	9/19/89	< 10	< 10	< 0.025	< 0.025	< 0.075	< 0.075	**5.3**
MW-5	12	9/19/89	< 10	< 10	< 0.025	< 0.025	< 0.075	< 0.075	**3.3**
MW-5	16	9/19/89	< 10	< 10	< 0.025	< 0.025	< 0.075	< 0.075	**5.7**
OMW-6	5	10/16/89	< 10	**1.0**	< 0.025	< 0.025	< 0.075	< 0.075	**4.3**
OMW-6	10	10/16/89	**18**	**17**	**0.028**	**0.040**	**0.10**	**0.45**	**3.2**
OMW-6	15	10/16/89	< 10	< 1	< 0.025	< 0.025	< 0.075	< 0.075	**3.6**

ATTACHMENT 3

Table 1. **Historical Soil Analytical Results** - Former Shell Station, Incident #97093400
500 40th St, Oakland, California

Sample ID	Sample Depth (fbg)	Sample Date	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylene	Total Lead
			←			(parts per million)			→
MW-8	6	6/27/90	< 1.0	< 1.0	< 0.0025	< 0.0025	< 0.0025	< 0.0025	**5.4**
MW-8	10	6/27/90	< 1.0	< 1.0	< 0.0025	< 0.0025	< 0.0025	< 0.0025	**5.4**
MW-8	15	6/27/90	< 1.0	< 1.0	< 0.0025	0.0027	< 0.0025	< 0.0025	**4.4**
MW-8	20	6/27/90	< 1.0	< 1.0	< 0.0025	< 0.0025	< 0.0025	< 0.0025	**5.8**
CSB-1	5		< 10	< 1	< 0.025	< 0.025	< 0.075	< 0.075	**22**
CSB-1	10		< 10	< 1	< 0.025	< 0.025	< 0.075	< 0.075	**3.2**
CSB-1	15		< 10	< 1	< 0.025	< 0.025	< 0.075	< 0.075	**4.0**
CSB-1	20		< 10	< 1	< 0.025	< 0.025	< 0.075	< 0.075	**4.9**
OMW-9	5	11/13/89	< 10	< 1	< 0.025	< 0.025	< 0.075	< 0.075	**3.7**
OMW-9	10	11/13/89	**210**	**40**	**0.064**	**0.46**	**1.1**	**6.3**	**2.6**
OMW-9	15	11/13/89	**11**	< 1	< 0.025	< 0.025	< 0.075	< 0.075	**4.3**
OMW-9	20	11/13/89	< 10	< 1	< 0.025	< 0.025	< 0.075	< 0.075	**3.1**
OMW-10	5	11/13/89	< 1	< 1	< 0.0025	< 0.0025	< 0.0025	< 0.0025	**5.5**
OMW-10	10	11/13/89	< 1	< 1	**0.020**	**0.0044**	**0.0084**	**0.024**	**4.3**
OMW-10	15	11/13/89	< 1	< 1	< 0.0025	< 0.0025	< 0.0025	< 0.0025	**6.9**
OMW-11	5	11/21/91	< 1	< 1	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA
OMW-11	10	11/21/91	< 1	< 1	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA
OMW-11	14	11/21/91	< 1	< 1	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA
OMW-12	4.5	11/20/91	< 1	< 1	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA
OMW-12	10	11/20/91	< 1	< 1	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA
OMW-12	15	11/20/91	< 1	< 1	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA
OMW-13	5	11/21/91	< 1	< 1	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA
OMW-13	9	11/21/91	< 1	< 1	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA
OMW-13	15	11/21/91	< 1	< 1	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA

Table 1. Historical Soil Analytical Results - Former Shell Station, Incident #97093400
500 40th St, Oakland, California

Abbreviations and Notes:

TBA = Tert-butanol, analyzed by modified EPA Method 8260B.

MTBE = Methyl tertiary-butyl ether. Analyzed by EPA Method 8260B and 8260B C6-12. Highest concentration reported.

DIPE = Di-isopropyl ether, analyzed by modified EPA Method 8260B.

ETBE = Ethyl tert butyl ether, analyzed by modified EPA Method 8260B.

TAME = Tert-amyl methyl ether, analyzed by modified EPA Method 8260B.

Ethanol analyzed by modified EPA Method 8260B.

Methanol analyzed by analyzed by EPA Method 8015Mod.

fbg = Feet below grade.

<n = Below laboratory detection limit of n ppm.

TABLE 1

HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg ($\mu g/m^3$)*	*B ($\mu g/m^3$)*	*T ($\mu g/m^3$)*	*E ($\mu g/m^3$)*	*X ($\mu g/m^3$)*	*Naphthalene ($\mu g/m^3$)*	*Methane (%v)*	*Carbon Dioxide (%v)*	*Oxygen + Argon (%v)*	*Helium (%v)*
SVP-1	11/30/2011	2.5	1,100,000	<64	<75	210	<170	---	0.559	4.78	2.52	<0.0100
SVP-1	1/18/2012	2.5	28,000	--- a	--- a	--- a	--- a	---	2.61	10.7	11.3	0.123
SVP-1	7/9/2013	2.5	**4,500,000**	<640	<750	<870	<870	<2,100	0.712	12.0	2.72	<0.0100
SVP-1	11/30/2011	5.0	**51,000,000**	<4,000	<4,700	**14,000**	<11,000	---	7.38	37.4	1.42	<0.0100
SVP-1	1/18/2012	5.0	150,000	<32	<38	120	120	---	3.28	28.2	2.80	0.0945
SVP-1	7/9/2013	5.0	**72,000,000**	<16,000	<19,000	<22,000	<22,000	<52,000	6.08	35.1	4.51	0.772
SVP-2	11/30/2011	2.5	140,000	56	<19	32	<43	---	2.29	17.2	10.5	10.8
SVP-2	1/18/2012	2.5	450,000	<80	<94	160	<220	---	<0.500	5.14	3.00	0.0710
SVP-2	7/9/2013	2.5	130,000	<51	<60	<69	<69	<170	1.85	27.3	2.69	0.0151
SVP-2	11/30/2011	5.0	430,000	17	<19	36	<43	---	3.25	32.8	2.04	0.0125
SVP-2	1/18/2012	5.0	**48,000,000**	<4,000	<4,700	**13,000**	<11,000	---	5.04	30.6	3.25	0.0710
SVP-2	7/9/2013	5.0	250,000	<80	<94	<110	<110	<260	1.95	30.4	2.70	0.0154
SVP-3	11/30/2011	0.5	<3,800	<16	20	82	110	---	<0.500	5.43	16.3	2.19
SVP-3	1/18/2012	0.5	<3,800	<16	<19	38	47	---	<0.500	5.38	18.0	0.686
SVP-4	11/30/2011	0.3	<3,800	<16	<19	45	45	---	<0.500	<0.500	22.9	32.7
SVP-4	1/18/2012	0.3	<3,800	<16	<19	63	94	---	<0.500	1.01	22.1	1.29
ESLs -Commercial[b]:			***1,200,000***	***420***	***1,300,000***	***4,900***	***440,000***	***360***	***NA***	***NA***	***NA***	***NA***
ESLs - Residential[b]:			***150,000***	***42***	***160,000***	***490***	***52,000***	***36***	***NA***	***NA***	***NA***	***NA***

Notes:
fbg = Feet below grade
$\mu g/m^3$ = Micrograms per cubic meter
%v = Percent by volume
TPHg = Total petroleum hydrocarbons as gasoline analyzed by Modified EPA Method TO-3M
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B (M)
Naphthalene analyzed by EPA Method 8260B (M)
Methane, carbon disulfide, and oxygen + argon analyzed by ASTM-D1946 (M)
Helium analyzed by ASTM-D1946 (M)
<x = Not detected at reporting limit x
--- = Not analyzed
ESL = Environmental screening level
NA = No applicable ESL
Results in **bold** equal or exceed ESL
Shading indicates invalid sample due to helium in sample

a = Not analyzed due to insufficient sample volume
b = San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) shallow soil gas screening level for evaluation of potential vapor intrusion concerns from Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater, SFBRWQCB, Interim Final - November 2007 (Revised May 2008) - Updated May 2013.

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
EW-1	08/06/1991	<50	180	5.4	<0.5	0.9	0.7	—	—	—	—	—	—	—	—	78.26	—	—	—
EW-1	10/30/1991	<50	70	2.6	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	78.26	12.72	65.54	—
EW-1	02/15/1992	—	<50	2.1	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	78.26	—	—	—
EW-1	03/18/1992	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	11.71	66.55	—
EW-1	05/22/1992	—	99	4.1	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	78.26	12.84	65.42	—
EW-1	08/19/1992	—	140	6.6	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	78.26	13.04	65.22	—
EW-1	11/18/1992	—	56	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	78.26	12.90	65.36	—
EW-1	02/11/1993	—	63	<0.5	<0.5	<0.5	0.9	—	—	—	—	—	—	—	—	78.26	11.28	66.98	—
EW-1 (D)	02/11/1993	—	63	<0.5	<0.5	<0.5	0.8	—	—	—	—	—	—	—	—	78.26	—	—	—
EW-1	05/19/1993	—	60 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	78.26	12.52	65.74	—
EW-1	08/18/1993	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	12.48	65.78	—
EW-1	11/17/1993	—	170	17	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	78.26	12.63	65.63	—
EW-1 (D)	11/17/1993	—	190	17	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	78.26	—	—	—
EW-1	02/18/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	11.38	66.88	—
EW-1	05/26/1994	—	<50	3.5	<0.5	<0.5	0.51	—	—	—	—	—	—	—	—	78.26	12.02	66.24	—
EW-1	08/29/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	12.76	65.50	—
EW-1	11/11/1994	—	200	13	0.88	<0.5	<0.5	—	—	—	—	—	—	—	—	78.26	11.08	67.18	—
EW-1	02/03/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	10.88	67.38	—
EW-1	05/07/1995	—	90	8.6	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	78.26	11.32	66.94	—
EW-1	08/02/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	11.76	66.50	—
EW-1	11/02/1995	—	240	12	1.5	0.6	1.9	—	—	—	—	—	—	—	—	78.26	12.80	65.46	—
EW-1	02/24/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	10.15	68.11	—
EW-1	05/04/1996	—	<50	1.4	<0.50	<0.50	<0.50	4.1	—	—	—	—	—	—	—	78.26	12.26	66.00	—
EW-1	09/07/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	13.43	64.83	—
EW-1	11/24/1996	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	78.26	12.24	66.02	—
EW-1	02/23/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	12.20	66.06	—
EW-1	05/01/1997	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	78.26	12.97	65.29	—
EW-1	07/22/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	13.43	64.83	—
EW-1	11/04/1997	—	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—	—	—	78.26	13.20	65.06	—
EW-1	01/21/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	10.52	67.74	—
EW-1	05/11/1998	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	78.26	12.35	65.91	—
EW-1	08/11/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	12.90	65.36	—
EW-1	10/20/1998	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	78.26	13.34	64.92	—

ATTACHMENT 4

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
EW-1	02/08/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	9.28	68.98	—
EW-1	04/12/1999	—	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	—	78.26	10.28	67.98	—
EW-1	07/27/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	13.04	65.22	—
EW-1	10/25/1999	—	<50.0	0.885	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	—	78.26	13.12	65.14	—
EW-1	01/24/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	10.50	67.76	2.0
EW-1	04/24/2000	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	78.26	12.05	66.21	1.8
EW-1	07/24/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	13.00	65.26	—
EW-1	11/01/2000	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	78.26	12.15	66.11	2.4
EW-1	01/19/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	12.24	66.02	4.4
EW-1	04/13/2001	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	78.26	12.56	65.70	5.8
EW-1	07/09/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	12.97	65.29	4.2
EW-1	10/18/2001	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	78.26	13.69	64.57	0.3
EW-1	01/24/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.26	11.98	66.28	—
EW-1	05/10/2002	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	78.26	12.68	65.58	2.3
EW-1	07/18/2002	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	78.26	—	—	—
EW-1	10/31/2002	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	81.11	13.38	67.73	—
EW-1	01/30/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.11	11.43	69.68	—
EW-1	04/17/2003	—	<50	<0.50	<0.50	<0.50	<1.0	—	<5.0	—	—	—	—	—	—	81.11	11.55	69.56	—
EW-1	07/17/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.11	12.84	68.27	—
EW-1	10/16/2003	—	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	81.11	13.00	68.11	—
EW-1	01/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.11	11.15	69.96	—
EW-1	04/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.11	12.41	68.70	—
EW-1	10/29/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.11	12.08	69.03	—
EW-1	04/14/2005	Well destroyed		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-2	08/06/1991	230	1,200	59	1.1	38	56	—	—	—	—	—	—	—	—	80.80	12.12	68.68	—
MW-2	10/30/1991	300	520	56	<0.5	56	100	—	—	—	—	—	—	—	—	80.80	11.70	69.10	—
MW-2	02/15/1992	2,200 n	2,300	87	<2.5	88	150	—	—	—	—	—	—	—	—	80.80	—	—	—
MW-2	03/18/1992	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	11.10	69.70	—
MW-2	05/22/1992	—	700	24	1.0	34	48	—	—	—	—	—	—	—	—	80.80	12.12	68.68	—
MW-2	08/19/1992	—	740	21	<2.5	24	26	—	—	—	—	—	—	—	—	80.80	12.18	68.62	—
MW-2 (D)	08/19/1992	—	840	31	<2.5	36	43	—	—	—	—	—	—	—	—	80.80	—	—	—
MW-2	11/18/1992	—	920	19	<2.5	30	51	—	—	—	—	—	—	—	—	80.80	12.03	68.77	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
MW-2 (D)	11/18/1992	—	870	25	<2.5	34	52	—	—	—	—	—	—	—	—	80.80	—	—	—
MW-2	02/11/1993	—	1,000	25	6.0	43	73	—	—	—	—	—	—	—	—	80.80	11.15	69.65	—
MW-2	05/19/1993	—	570	19	<0.5	37	42	—	—	—	—	—	—	—	—	80.80	11.80	69.00	—
MW-2	08/18/1993	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	80.80	—	—	—
MW-2	11/17/1993	—	250	10	<1.0	26	20	—	—	—	—	—	—	—	—	80.80	12.00	68.80	—
MW-2	02/18/1994	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	80.80	—	—	—
MW-2	05/26/1994	—	620	17	1.4	25	31	—	—	—	—	—	—	—	—	80.80	11.61	69.19	—
MW-2 (D)	05/26/1994	—	600	16	1.2	24	29	—	—	—	—	—	—	—	—	80.80	—	—	—
MW-2	08/29/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	11.96	68.84	—
MW-2	11/11/1994	—	1,100	28	3.1	39	65	—	—	—	—	—	—	—	—	80.80	10.74	70.06	—
MW-2	02/03/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	11.58	69.22	—
MW-2	05/07/1995	—	700	15	<0.5	35	39	—	—	—	—	—	—	—	—	80.80	10.98	69.82	—
MW-2	08/02/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	11.90	68.90	—
MW-2	11/02/1995	—	140	2.3	<0.5	4.4	3.7	—	—	—	—	—	—	—	—	80.80	12.12	68.68	—
MW-2	02/24/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	10.25	70.55	—
MW-2	05/04/1996	—	140	2.1	<0.50	4.6	4.9	6.2	—	—	—	—	—	—	—	80.80	11.30	69.50	—
MW-2	09/07/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	15.10	65.70	—
MW-2	11/24/1996	—	620	9.7	<0.50	2.0	46	<2.5	—	—	—	—	—	—	—	80.80	12.13	68.67	—
MW-2	02/23/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	12.01	68.79	—
MW-2	05/01/1997	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	80.80	12.94	67.86	—
MW-2	07/22/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	13.22	67.58	—
MW-2	11/04/1997	—	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—	—	—	80.80	13.00	67.80	—
MW-2	01/21/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	10.47	70.33	—
MW-2	05/11/1998	—	59	0.56	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	80.80	12.49	68.31	—
MW-2	08/11/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	12.82	67.98	—
MW-2	10/20/1998	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	80.80	13.13	67.67	—
MW-2	02/08/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	9.10	71.70	—
MW-2	04/12/1999	—	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	—	80.80	10.06	70.74	—
MW-2	07/27/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	12.81	67.99	—
MW-2	10/25/1999	—	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	—	80.80	12.89	67.91	—
MW-2	01/24/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	80.80	—	—	—
MW-2	04/24/2000	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	80.80	19.35	61.45	1.8
MW-2	07/24/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	12.83	67.97	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
MW-2	11/01/2000	—	53.2	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	80.80	11.75	69.05	2.4
MW-2	01/19/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	12.22	68.58	5.8
MW-2	04/13/2001	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	80.80	12.40	68.40	3.0
MW-2	07/09/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	12.98	67.82	3.4
MW-2	10/18/2001	—	71	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	80.80	12.87	67.93	0.7
MW-2	01/24/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	12.13	68.67	1.4
MW-2	05/10/2002	—	74	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	80.80	12.69	68.11	1.4
MW-2	07/18/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.80	12.84	67.96	1.2
MW-2	10/31/2002	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	83.66	13.15	70.51	—
MW-2	01/30/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78 d	11.97	71.81	—
MW-2	04/17/2003	—	85	<0.50	<0.50	<0.50	<1.0	—	<5.0	—	—	—	—	—	—	83.78	12.19	71.59	—
MW-2	07/17/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	12.57	71.21	—
MW-2	10/16/2003	—	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	83.78	13.13	70.65	—
MW-2	01/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	11.58	72.20	—
MW-2	04/14/2004	—	73	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	83.78	12.65	71.13	—
MW-2	10/29/2004	—	180	<0.50	<0.50	<0.50	<1.0	—	<0.50	<5.0	<2.0	<2.0	<2.0	—	—	83.78	12.39	71.39	—
MW-2	04/14/2005	—	150	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	83.78	12.14	71.64	—
MW-2	10/26/2005	—	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	<5.0	<2.0	<2.0	<2.0	—	—	83.78	12.98	70.80	—
MW-2	03/16/2006	64.3	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	<10.0	<0.500	<0.500	<0.500	<0.500	<0.500	83.78	11.72	72.06	—
MW-2	09/20/2006	<47.2 g,i	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	<10.0	<0.500	<0.500	<0.500	—	—	83.78	12.55	71.23	—
MW-2	03/26/2007	<47 g	<50	<0.50	<0.50	<0.50	<0.50	—	<0.50	—	—	—	—	—	—	83.78	12.28	71.50	—
MW-2	06/25/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	12.94	70.84	—
MW-2	09/10/2007	<50 g	<50 l	<0.50	<1.0	<1.0	<1.0	—	<1.0	<10	<2.0	<2.0	<2.0	—	—	83.78	13.12	70.66	—
MW-2	12/10/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	12.44	71.34	—
MW-2	03/10/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	12.34	71.44	—
MW-2	06/23/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	13.10	70.68	—
MW-2	09/22/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	13.02	70.76	—
MW-2	12/22/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	12.10	71.68	—
MW-2	03/23/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	12.10	71.68	—
MW-2	09/21/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	13.00	70.78	—
MW-2	03/08/2010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	12.22	71.56	—
MW-2	09/27/2010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	12.70	71.08	—
MW-2	03/21/2011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	10.82	72.96	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
MW-2	09/26/2011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.78	12.79	70.99	—
MW-2	**03/26/2012**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**83.78**	**11.81**	**71.97**	—
MW-3	08/06/1991	470	1,900	220	57	57	260	—	—	—	—	—	—	—	—	79.60	11.12	68.48	—
MW-3	10/30/1991	480	1,900	160	28	63	180	—	—	—	—	—	—	—	—	79.60	10.93	68.67	—
MW-3	02/15/1992	780 n	2,300	170	31	59	180	—	—	—	—	—	—	—	—	79.60	—	—	—
MW-3	03/18/1992	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	10.54	69.06	—
MW-3	05/22/1992	—	1,500	160	20	44	140	—	—	—	—	—	—	—	—	79.60	10.79	68.81	—
MW-3	08/19/1992	—	4,500	210	64	89	310	—	—	—	—	—	—	—	—	79.60	11.23	68.37	—
MW-3	11/18/1992	—	2,400	81	14	39	140	—	—	—	—	—	—	—	—	79.60	11.20	68.40	—
MW-3	02/11/1993	—	3,000	200	47	90	260	—	—	—	—	—	—	—	—	79.60	11.00	68.60	—
MW-3	05/19/1993	—	2,100	240	44	100	330	—	—	—	—	—	—	—	—	79.60	11.16	68.44	—
MW-3	08/18/1993	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	11.35	68.25	—
MW-3	11/17/1993	—	1,000	110	13	60	150	—	—	—	—	—	—	—	—	79.60	11.10	68.50	—
MW-3	02/18/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	10.76	68.84	—
MW-3	05/26/1994	—	1,100	200	17	29	58	—	—	—	—	—	—	—	—	79.60	11.85	67.75	—
MW-3	08/29/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	10.40	69.20	—
MW-3	11/11/1994	—	870	130	10	38	87	—	—	—	—	—	—	—	—	79.60	10.04	69.56	—
MW-3 (D)	11/11/1994	—	1,000	120	10	42	92	—	—	—	—	—	—	—	—	79.60	—	—	—
MW-3	02/03/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	10.06	69.54	—
MW-3	05/07/1995	—	1,300	180	7.5	54	110	—	—	—	—	—	—	—	—	79.60	10.11	69.49	—
MW-3	08/02/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	11.02	68.58	—
MW-3	11/02/1995	—	370	36	1.8	16	21	—	—	—	—	—	—	—	—	79.60	10.97	68.63	—
MW-3	02/24/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	9.61	69.99	—
MW-3	05/04/1996	—	460	54	1.9	18	28	20	—	—	—	—	—	—	—	79.60	10.40	69.20	—
MW-3	09/07/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	13.55	66.05	—
MW-3	11/24/1996	—	2,800	290	<10	29	39	<50	—	—	—	—	—	—	—	79.60	11.83	67.77	—
MW-3	02/23/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	11.81	67.79	—
MW-3	05/01/1997	—	2,000	120	<5.0	53	14	60	—	—	—	—	—	—	—	79.60	12.34	67.26	—
MW-3	07/22/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	12.86	66.74	—
MW-3	11/04/1997	—	470	120	<2.5	<2.5	7.3	<25	—	—	—	—	—	—	—	79.60	12.62	66.98	—
MW-3	01/21/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	10.78	68.82	—
MW-3	05/11/1998	—	4,400	260	<10	220	36	170	—	—	—	—	—	—	—	79.60	11.98	67.62	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
MW-3	08/11/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	12.38	67.22	—
MW-3	10/20/1998	—	1,700	120	<2.0	18	7.1	19	—	—	—	—	—	—	—	79.60	12.55	67.05	—
MW-3 (D)	10/20/1998	—	1,400	120	<5.0	18	<5.0	80	—	—	—	—	—	—	—	79.60	—	—	—
MW-3	02/08/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	8.53	71.07	—
MW-3	04/12/1999	—	8,040	554	30	436	624	160	—	—	—	—	—	—	—	79.60	10.19	69.41	—
MW-3	07/27/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	12.21	67.39	—
MW-3	10/25/1999	—	827	31	2.23	14.5	6.71	<10.0	—	—	—	—	—	—	—	79.60	12.35	67.25	—
MW-3	01/24/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	79.60	—	—	—
MW-3	04/24/2000	—	1,470	121	<5.00	63.8	14.1	<25.0	—	—	—	—	—	—	—	79.60	11.75	67.85	1.0
MW-3	07/24/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	12.56	67.04	—
MW-3	11/01/2000	—	1,550	143	<1.25	36.4	35.3	24.4	—	—	—	—	—	—	—	79.60	11.48	68.12	2.2
MW-3	01/19/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	11.83	67.77	6.6
MW-3	04/13/2001	—	2,560	250	<10.0	108	<10.0	92.1	—	—	—	—	—	—	—	79.60	12.08	67.52	3.6
MW-3	07/09/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	12.68	66.92	2.8
MW-3	10/18/2001	—	2,300	150	0.90	42	11	—	<5.0	—	—	—	—	—	—	79.60	13.21	66.39	0.1
MW-3	01/24/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	11.83	67.77	2.3
MW-3	05/10/2002	—	3,300	77	0.60	94	3.1	—	<5.0	—	—	—	—	—	—	79.60	12.24	67.36	1.5
MW-3	07/18/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.60	12.43	67.17	2.1
MW-3	10/31/2002	—	2,100	89	0.57	26	5.7	—	<5.0	—	—	—	—	—	—	82.46	12.60	69.86	2.0
MW-3	01/30/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.46	11.76	70.70	4.6
MW-3	04/17/2003	—	2,100	55	0.79	100	110	—	<5.0	—	—	—	—	—	—	82.46	11.80	70.66	1.8
MW-3	07/17/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.46	12.28	70.18	4.0
MW-3	10/16/2003	—	120 n	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	82.46	12.35	70.11	2.0
MW-3	01/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.46	11.35	71.11	2.9
MW-3	04/14/2004	—	130	1.6	<0.50	1.5	<1.0	—	<0.50	—	—	—	—	—	—	82.46	12.12	70.34	3.4
MW-3	10/29/2004	—	490	11	<0.50	19	18	—	<0.50	<5.0	<2.0	<2.0	<2.0	—	—	82.46	11.67	70.79	1.2
MW-3	04/14/2005	—	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	82.46	11.65	70.81	0.1
MW-3	10/26/2005	—	230	2.8	<0.50	0.52	<1.0	—	<0.50	<5.0	<2.0	<2.0	<2.0	—	—	82.46	12.43	70.03	0.2
MW-3	03/16/2006	191	107	12.5	<0.500	1.27	0.960	—	<0.500	<10.0	<0.500	<0.500	<0.500	<0.500	<0.500	82.46	10.62	71.84	—
MW-3	09/20/2006	55.2 g	671	4.23	<0.500	<0.500	<0.500	—	<0.500	<10.0	<0.500	<0.500	<0.500	—	—	82.46	12.03	70.43	4.83
MW-3	03/26/2007	<47 g	120	2.6	<0.50	<0.50	<0.50 i,j	—	<0.50	—	—	—	—	—	—	82.46	11.84	70.62	1.0
MW-3	06/25/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.46	12.21	70.25	0.04
MW-3	09/10/2007	<50 g	390 l	6.0	<1.0	1.1	1.4	—	<1.0	<10	<2.0	<2.0	<2.0	—	—	82.46	12.14	70.32	0.22

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
MW-3	12/10/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.46	11.81	70.65	0.40
MW-3	03/10/2008	84 g	75	1.0	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	—	82.46	11.80	70.66	0.52
MW-3	06/23/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.46	12.40	70.06	—
MW-3	09/22/2008	250 g,n	810	7.5	<1.0	<1.0	1.7	—	<1.0	<10	<2.0	<2.0	<2.0	—	—	82.46	12.65	69.81	0.25
MW-3	12/22/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.46	11.51	70.95	—
MW-3	03/23/2009	610 g,n	2,000	14	<1.0	140	13	—	<1.0	—	—	—	—	—	—	82.46	11.44	71.02	0.33
MW-3	09/21/2009	350 g,n	1,100	4.6	<1.0	3.9	<1.0	—	<1.0	<10	<2.0	<2.0	<2.0	—	—	82.46	12.20	70.26	0.43
MW-3	03/08/2010	540 g,n	1,400	5.6	<1.0	50	<1.0	—	<1.0	—	—	—	—	—	—	82.46	10.95	71.51	0.52
MW-3	09/27/2010	300 g,n	1,000	2.0	<1.0	3.7	<1.0	—	<1.0	<10	<2.0	<2.0	<2.0	—	—	82.46	12.34	70.12	1.51
MW-3	03/21/2011	310 g,o	710	3.1	<0.50	5.2	<1.0	—	<1.0	—	—	—	—	—	—	82.46	10.63	71.83	1.42
MW-3	09/26/2011	200 g	750	2.9	<0.50	1.5	<1.0	—	<1.0	<10	<1.0	<1.0	<1.0	—	—	82.46	12.54	69.92	0.64
MW-3	**03/26/2012**	**210 g**	**510**	**1.9**	**<0.50**	**12**	**<1.0**	**—**	**<0.50**	**—**	**—**	**—**	**—**	**—**	**—**	**82.46**	**10.60**	**71.86**	**1.16**
MW-4	08/06/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.00	12.36	68.64	—
MW-4	10/30/1991	<50	50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.00	12.02	68.98	—
MW-4	02/15/1992	—	90	0.9	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.00	—	—	—
MW-4	03/18/1992	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	11.34	69.66	—
MW-4	05/22/1992	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.00	12.35	68.65	—
MW-4	08/19/1992	—	82 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.00	12.41	68.59	—
MW-4	11/18/1992	—	85 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.00	12.28	68.72	—
MW-4	02/11/1993	—	62 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.00	11.65	69.35	—
MW-4	05/19/1993	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.00	11.92	69.08	—
MW-4	08/18/1993	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	81.00	—	—	—
MW-4	11/17/1993	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.00	12.24	68.76	—
MW-4	02/18/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	11.69	69.31	—
MW-4	05/26/1994	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.00	12.00	69.00	—
MW-4	11/11/1994	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.00	11.30	69.70	—
MW-4	02/03/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	10.99	70.01	—
MW-4	05/07/1995	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.00	11.69	69.31	—
MW-4	08/02/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	11.72	69.28	—
MW-4	11/02/1995	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.00	12.23	68.77	—
MW-4	02/24/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	11.13	69.87	—
MW-4	05/04/1996	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	81.00	11.80	69.20	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
MW-4	09/07/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	13.27	67.73	—
MW-4	11/24/1996	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	81.00	12.42	68.58	—
MW-4	02/23/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	12.38	68.62	—
MW-4	05/01/1997	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	81.00	13.08	67.92	—
MW-4	07/22/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	13.73	67.27	—
MW-4	11/04/1997	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	81.00	—	—	—
MW-4	01/21/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	11.41	69.59	—
MW-4	05/11/1998	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	81.00	—	—	—
MW-4	08/11/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	13.05	67.95	—
MW-4	10/20/1998	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	81.00	13.30	67.70	—
MW-4	02/08/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	9.19	71.81	—
MW-4	04/12/1999	—	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	—	81.00	9.26	71.74	—
MW-4	07/27/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	12.57	68.43	—
MW-4	10/25/1999	—	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	—	81.00	13.15	67.85	—
MW-4	01/24/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	81.00	—	—	—
MW-4	04/24/2000	—	<50.0	<0.500	<0.500	<0.500	<0.500	14.5	—	—	—	—	—	—	—	81.00	12.55	68.45	2.5
MW-4	07/24/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	13.31	67.69	—
MW-4	11/01/2000	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	81.00	12.09	68.91	2.8
MW-4	01/19/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	12.58	68.42	8.4
MW-4	04/13/2001	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	81.00	12.75	68.25	2.6
MW-4	07/09/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	13.30	67.70	4.2
MW-4	10/18/2001	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	81.00	13.45	67.55	1.4
MW-4	01/24/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	12.55	68.45	—
MW-4	05/10/2002	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	81.00	12.93	68.07	1.5
MW-4	07/18/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.00	13.13	67.87	1.4
MW-4	10/31/2002	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	83.92	13.40	70.52	—
MW-4	01/30/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.92	12.44	71.48	—
MW-4	04/17/2003	—	<50	<0.50	<0.50	<0.50	<1.0	—	<5.0	—	—	—	—	—	—	83.92	12.24	71.68	—
MW-4	07/17/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.92	13.02	70.90	—
MW-4	10/16/2003	—	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	83.92	13.15	70.77	—
MW-4	01/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.92	12.20	71.72	—
MW-4	04/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.92	12.80	71.12	—
MW-4	10/29/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.92	12.41	71.51	—

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
MW-4	04/14/2005	Well destroyed		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-5	08/06/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.50	13.02	68.48	—
MW-5	10/30/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.50	12.73	68.77	—
MW-5	02/15/1992	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.50	—	—	—
MW-5	03/18/1992	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	12.52	68.98	—
MW-5	05/22/1992	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.50	13.05	68.45	—
MW-5	08/19/1992	—	55 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.50	13.04	68.46	—
MW-5	11/18/1992	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.50	12.91	68.59	—
MW-5	02/11/1993	—	59 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.50	12.44	69.06	—
MW-5	05/19/1993	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.50	12.84	68.66	—
MW-5 (D)	05/19/1993	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.50	—	—	—
MW-5	11/17/1993	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.50	12.89	68.61	—
MW-5	02/18/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	12.30	69.20	—
MW-5	05/26/1994	—	<50	1.8	2.4	1.3	4.9	—	—	—	—	—	—	—	—	81.50	12.73	68.77	—
MW-5	08/29/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	12.88	68.62	—
MW-5	11/11/1994	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.50	12.20	69.30	—
MW-5	02/03/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	11.78	69.72	—
MW-5	05/07/1995	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.50	12.47	69.03	—
MW-5	08/02/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	12.83	68.67	—
MW-5	11/02/1995	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	81.50	13.02	68.48	—
MW-5	02/24/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	12.11	69.39	—
MW-5	05/04/1996	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	81.50	13.20	68.30	—
MW-5	09/07/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	14.24	67.26	—
MW-5	11/24/1996	—	<50	<0.50	<0.5	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	81.50	13.58	67.92	—
MW-5	02/23/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	13.54	67.96	—
MW-5	05/01/1997	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	81.50	14.17	67.33	—
MW-5	07/22/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	14.35	67.15	—
MW-5	11/04/1997	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	81.50	14.30	67.20	—
MW-5 (D)	11/04/1997	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	81.50	—	—	—
MW-5	01/21/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	12.86	68.64	—
MW-5	05/11/1998	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	81.50	13.89	67.61	—
MW-5	08/11/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	14.20	67.30	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
MW-5	10/20/1998	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	81.50	14.41	67.09	—
MW-5	02/08/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	10.31	71.19	—
MW-5	04/12/1999	—	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	—	81.50	11.30	70.20	—
MW-5	07/27/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	12.63	68.87	—
MW-5	10/25/1999	—	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	—	81.50	14.15	67.35	—
MW-5	01/24/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	11.65	69.85	1.8
MW-5	04/24/2000	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	81.50	13.71	67.79	2.1
MW-5	07/24/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	14.48	67.02	—
MW-5	11/01/2000	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	81.50	13.26	68.24	3.2
MW-5	01/19/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	13.68	67.82	7.8
MW-5	04/13/2001	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	81.50	13.90	67.60	3.2
MW-5	07/09/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	14.72	66.78	4.8
MW-5	10/18/2001	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	81.50	14.41	67.09	1.1
MW-5	01/24/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	13.69	67.81	1.4
MW-5	05/10/2002	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	81.50	14.05	67.45	2.2
MW-5	07/18/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.50	14.23	67.27	1.2
MW-5	10/31/2002	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	84.36	14.36	70.00	2.8
MW-5	01/30/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.36	13.70	70.66	2.4
MW-5	04/17/2003	—	<50	<0.50	<0.50	<0.50	<1.0	—	<5.0	—	—	—	—	—	—	84.36	13.52	70.84	2.6
MW-5	07/17/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.36	14.13	70.23	1.6
MW-5	10/16/2003	—	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	84.36	14.21	70.15	2.1
MW-5	01/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.36	14.15	70.21	3.1
MW-5	04/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.36	13.95	70.41	2.5
MW-5	10/29/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.36	13.63	70.73	0.8
MW-5	04/14/2005	Well destroyed		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.8
OMW-6	08/06/1991	3,600	26,000	910	420	560	1,900	—	—	—	—	—	—	—	—	77.90	10.71	67.19	—
OMW-6	10/30/1991	4,600	20,000	710	240	410	1,700	—	—	—	—	—	—	—	—	77.90	10.50	67.40	—
OMW-6	02/15/1992	27,000	35,000	690	420	650	3,000	—	—	—	—	—	—	—	—	77.90	—	—	—
OMW-6	03/18/1992	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	9.24	68.66	—
OMW-6	05/22/1992	—	15,000	460	110	300	1,600	—	—	—	—	—	—	—	—	77.90	10.13	67.77	—
OMW-6	08/19/1992	—	24,000	600	300	460	2,000	—	—	—	—	—	—	—	—	77.90	10.16	67.74	—
OMW-6	11/18/1992	—	29,000	480	250	450	2,300	—	—	—	—	—	—	—	—	77.90	9.94	67.96	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
OMW-6	02/11/1993	—	24,000	1,300	250	630	2,400	—	—	—	—	—	—	—	—	77.90	9.20	68.70	—
OMW-6	05/19/1993	—	18,000	750	180	520	2,500	—	—	—	—	—	—	—	—	77.90	10.64	67.86	—
OMW-6	08/18/1993	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	10.04	67.86	—
OMW-6	11/17/1993	—	14,000	260	64	430	1,900	—	—	—	—	—	—	—	—	77.90	10.12	67.78	—
OMW-6	02/18/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	9.65	68.25	—
OMW-6	05/26/1994	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.90	—	—	—
OMW-6	08/29/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	—	—	—
OMW-6	11/11/1994	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.90	—	—	—
OMW-6	02/03/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	8.96	68.94	—
OMW-6	05/07/1995	—	11,000	460	82	280	540	—	—	—	—	—	—	—	—	77.90	8.64	69.26	—
OMW-6 (D)	05/07/1995	—	14,000	480	61	230	370	—	—	—	—	—	—	—	—	77.90	—	—	—
OMW-6	08/02/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	12.09	65.81	—
OMW-6	02/24/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.90	—	—	—
OMW-6	05/04/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.90	—	—	—
OMW-6	09/07/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	14.45	63.45	—
OMW-6	11/24/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.90	—	—	—
OMW-6	02/23/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	13.12	64.78	—
OMW-6	05/01/1997	—	17,000	630	52	610	1,300	380	—	—	—	—	—	—	—	77.90	13.19	64.71	—
OMW-6 (D)	05/01/1997	—	20,000	630	54	630	1,300	500	<20	—	—	—	—	—	—	77.90	—	—	—
OMW-6	07/22/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	13.52	64.38	—
OMW-6	11/04/1997	—	10,000	610	23	410	820	<100	—	—	—	—	—	—	—	77.90	13.12	64.78	—
OMW-6	01/21/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	12.19	65.71	—
OMW-6	05/11/1998	—	14,000	500	32	900	1,000	110	—	—	—	—	—	—	—	77.90	12.71	65.19	—
OMW-6 (D)	05/11/1998	—	14,000	490	<25	900	980	370	—	—	—	—	—	—	—	77.90	—	—	—
OMW-6	08/11/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	13.18	64.72	—
OMW-6	10/20/1998	—	7,500	220	<20	290	130	120	—	—	—	—	—	—	—	77.90	13.11	64.79	—
OMW-6	02/08/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	9.07	68.83	—
OMW-6	04/12/1999	—	11,300	818	67	600	690	342	—	—	—	—	—	—	—	77.90	10.10	67.80	—
OMW-6	07/27/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	12.18	65.72	—
OMW-6	10/25/1999	—	11,100	559	21	329	75.7	<100	—	—	—	—	—	—	—	77.90	12.58	65.32	—
OMW-6	01/24/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.90	—	—	—
OMW-6	04/24/2000	—	12,700	576	<10.0	452	141	556	—	—	—	—	—	—	—	77.90	12.35	65.55	1.1
OMW-6	07/24/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	13.08	64.82	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
OMW-6	11/01/2000	—	10,700	179	28	532	416	304	14.6	—	—	—	—	—	—	77.90	11.91	65.99	0.6
OMW-6	01/19/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	12.08	65.82	6.0
OMW-6	04/13/2001	—	8,650	103	26	318	207	258	<1.00	—	—	—	—	—	—	77.90	12.00	65.90	4.2
OMW-6	07/09/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	11.86	66.04	5.2
OMW-6	10/18/2001	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.90	—	—	—
OMW-6	11/01/2001	—	6,600	85	<2.0	160	53	—	<20	—	—	—	—	—	—	77.90	13.23	64.67	3.4
OMW-6	01/24/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.90	12.63	65.27	4.2
OMW-6	05/10/2002	—	7,600	230	2.9	370	25	—	<20	—	—	—	—	—	—	77.90	13.07	64.83	1.2
OMW-6	07/18/2002	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.90	—	—	—
OMW-6	10/31/2002	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-6	11/11/2002	—	6,600	37	<5.0	42	<5.0	—	<50	—	—	—	—	—	—	—	12.82	—	1.0
OMW-6	01/30/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.78	—	2.8
OMW-6	04/17/2003	—	5,500	89	1.4	61	20	—	<5.0	—	—	—	—	—	—	—	13.02	—	1.6
OMW-6	07/17/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.08	—	2.0
OMW-6	10/16/2003	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-6	01/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.69	—	8.9
OMW-6	04/14/2004	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-6	10/29/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.21	—	0.1
OMW-6	04/14/2005	—	3,600	18	<0.50	160	13	—	<0.50	—	—	—	—	—	—	—	12.88	—	0.7
OMW-6	10/26/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.77	13.11	67.66	0.2
OMW-6	03/16/2006	3,710	22,700	46.3	0.930	515	37.2	—	<0.500	<10.0	<0.500	<0.500	<0.500	<0.500	<0.500	80.77	11.98	68.79	—
OMW-6	09/20/2006	3,730 g	9,130	11.4	<0.500	78.4	1.85	—	<0.500	—	—	—	—	—	—	80.77	13.01	67.76	2.78
OMW-6	03/26/2007	2,200 g,n	7,100	25	<2.5	230	20	—	<2.5	—	—	—	—	—	—	80.77	12.77	68.00	1.4
OMW-6	06/25/2007	2,700 g	7,800 l	13	0.57 m	99	6.92 m	—	<1.0	—	—	—	—	—	—	80.77	13.00	67.77	0.08
OMW-6	09/10/2007	1,700 g,n	6,400 l	6.8	0.47 m	26	2.41 m	—	<1.0	13	<2.0	<2.0	<2.0	—	—	80.77	13.14	67.63	0.04
OMW-6	12/10/2007	2,900 g,n	7,500 l	9.6	0.47 m	30	2.45 m	—	<1.0	—	—	—	—	—	—	80.77	12.83	67.94	0.10
OMW-6	03/10/2008	480 g	6,400	13	<1.0	180	9.0	—	<1.0	—	—	—	—	—	—	80.77	12.70	68.07	0.23
OMW-6	06/23/2008	3,300 g,n	10,000	6.4	<1.0	55	3.7	—	<1.0	—	—	—	—	—	—	80.77	13.00	67.77	0.03/0.06
OMW-6	09/22/2008	3,900 g,n	7,700	3.8	<1.0	16	1.7	—	<1.0	11	<2.0	<2.0	<2.0	—	—	80.77	13.25	67.52	0.3
OMW-6	12/22/2008	3,700 g,n	8,000	5.6	<1.0	12	<1.0	—	<1.0	—	—	—	—	—	—	80.77	12.88	67.89	—
OMW-6	03/23/2009	3,000 g,n	8,400	9.5	<1.0	120	8.2	—	<1.0	—	—	—	—	—	—	80.77	12.62	68.15	0.49
OMW-6	09/21/2009	2,500 g,n	7,600	33	<5.0	33	<5.0	—	<5.0	<50	<10	<10	<10	—	—	80.77	12.90	67.87	0.47
OMW-6	03/08/2010	3,000 g,n	9,800	7.0	<2.0	90	4.7	—	<2.0	—	—	—	—	—	—	80.77	11.21	69.56	0.54

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
OMW-6	09/27/2010	3,200 g,n	8,800	<2.5	<5.0	6.4	<5.0	—	<5.0	<50	<10	<10	<10	—	—	80.77	12.95	67.82	0.57
OMW-6	03/21/2011	3,100 g	6,400 j	3.1	0.94	43	2.0	—	<1.0	—	—	—	—	—	—	80.77	12.18	68.59	0.85
OMW-6	09/26/2011	2,000 g	7,000	2.3	<1.0	40	<2.0	—	<2.0	<20	<2.0	<2.0	<2.0	—	—	80.77	12.71	68.06	0.61
OMW-6	**03/26/2012**	**Well inaccessible**		—	—	—	—	—	—	—	—	—	—	—	—	**80.77**	—	—	—
MW-8	08/06/1991	<50	90	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	79.91	13.08	66.83	—
MW-8	10/30/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	79.91	12.87	67.04	—
MW-8	02/15/1992	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	79.91	—	—	—
MW-8	03/18/1992	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	11.54	68.37	—
MW-8	05/22/1992	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	79.91	12.32	67.59	—
MW-8	08/19/1992	—	60	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	79.91	12.58	67.33	—
MW-8	11/18/1992	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	79.91	12.47	67.44	—
MW-8	02/11/1993	—	76 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	79.91	11.02	68.89	—
MW-8	05/19/1993	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	79.91	11.78	68.13	—
MW-8	08/18/1993	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	12.22	67.69	—
MW-8	11/17/1993	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	79.91	12.25	67.66	—
MW-8	02/18/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	10.56	69.35	—
MW-8	05/26/1994	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	79.91	11.30	68.61	—
MW-8	08/29/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	11.90	68.01	—
MW-8	11/11/1994	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	79.91	10.12	69.79	—
MW-8	02/03/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	11.64	68.27	—
MW-8	05/07/1995	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	79.91	10.77	69.14	—
MW-8	08/02/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	10.92	68.99	—
MW-8	11/02/1995	—	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	79.91	11.93	67.98	—
MW-8	02/24/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	79.91	—	—	—
MW-8	05/04/1996	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	79.91	11.66	68.25	—
MW-8	09/07/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	9.84	70.07	—
MW-8	11/24/1996	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	79.91	11.53	68.38	—
MW-8	02/23/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	11.54	68.37	—
MW-8	05/01/1997	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	79.91	12.37	67.54	—
MW-8	07/22/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	12.73	67.18	—
MW-8	11/04/1997	—	50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—	—	—	79.91	12.60	67.31	—
MW-8	01/21/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	9.73	70.18	—

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
MW-8	05/11/1998	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	79.91	11.93	67.98	—
MW-8	08/11/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	12.35	67.56	—
MW-8	10/20/1998	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	79.91	12.88	67.03	—
MW-8	02/08/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	8.79	71.12	—
MW-8	04/12/1999	—	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	—	79.91	9.86	70.05	—
MW-8	07/27/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	12.35	67.56	—
MW-8	10/25/1999	—	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	—	79.91	12.53	67.38	—
MW-8	01/24/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	8.42	71.49	1.3
MW-8	04/24/2000	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	79.91	11.49	68.42	2.0
MW-8	07/24/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	12.87	67.04	—
MW-8	11/01/2000	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	79.91	11.19	68.72	4.0
MW-8	01/19/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	11.62	68.29	7.0
MW-8	04/13/2001	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	79.91	11.86	68.05	4.6
MW-8	07/09/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	12.42	67.49	6.4
MW-8	10/18/2001	—	81	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	79.91	13.24	66.67	2.3
MW-8	01/24/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	11.39	68.52	3.1
MW-8	05/10/2002	—	95	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	79.91	12.25	67.66	2.5
MW-8	07/18/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.91	12.45	67.46	2.8
MW-8	10/31/2002	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	82.34	—	—	—
MW-8	11/11/2002	—	110	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	82.34	12.03	70.31	—
MW-8	01/30/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	11.85	70.49	—
MW-8	04/17/2003	—	<50	<0.50	<0.50	<0.50	<1.0	—	<5.0	—	—	—	—	—	—	82.34	11.30	71.04	—
MW-8	07/17/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	12.40	69.94	—
MW-8	10/16/2003	—	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	82.34	12.62	69.72	—
MW-8	01/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	11.85	70.49	—
MW-8	04/16/2004	—	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	82.34	12.00	70.34	—
MW-8	10/29/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	11.66	70.68	—
MW-8	04/14/2005	—	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	82.34	10.81	71.53	—
MW-8	10/26/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	12.23	70.11	—
MW-8	03/16/2006	52.8 g	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	<10.0	<0.500	<0.500	<0.500	<0.500	<0.500	82.34	10.47	71.87	—
MW-8	09/20/2006	<47.6 g,i	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	—	—	—	—	—	—	82.34	11.53	70.81	—
MW-8	03/26/2007	<47 g	<50	<0.50	<0.50	<0.50	<0.50	—	<0.50	—	—	—	—	—	—	82.34	12.10	70.24	—
MW-8	06/25/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	12.69	69.65	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
MW-8	09/10/2007	<50 g	<50 l	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	—	82.34	13.05	69.29	—
MW-8	12/10/2007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	12.10	70.24	—
MW-8	03/10/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	11.97	70.37	—
MW-8	06/23/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	12.97	69.37	—
MW-8	09/22/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	12.89	69.45	—
MW-8	12/22/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	12.41	69.93	—
MW-8	03/23/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	11.72	70.62	—
MW-8	09/21/2009	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	12.45	69.89	—
MW-8	03/08/2010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	11.38	70.96	—
MW-8	09/27/2010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	12.54	69.80	—
MW-8	03/21/2011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	10.21	72.13	—
MW-8	09/26/2011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.34	12.69	69.65	—
MW-8	**03/26/2012**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**82.34**	**10.27**	**72.07**	—
OMW-9	08/06/1991	190	3,900	58	8.8	80	220	—	—	—	—	—	—	—	—	77.71	10.38	67.33	—
OMW-9	10/30/1991	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	03/18/1992	210	1,800 n	84	11	49	60	—	—	—	—	—	—	—	—	77.71	8.76	68.95	—
OMW-9	05/20/1992	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	08/19/1992	22 n	4,600	63	<25	48	70	—	—	—	—	—	—	—	—	77.71	9.98	67.73	—
OMW-9	11/18/1992	130 n	1,800	30	9.2	46	61	—	—	—	—	—	—	—	—	77.71	9.81	67.90	—
OMW-9	02/11/1993	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	05/19/1993	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	08/18/1993	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.71	9.75	67.96	—
OMW-9	11/17/1993	2,400 n	5,900	86	14	150	46	—	—	—	—	—	—	—	—	77.71	9.92	67.79	—
OMW-9	02/18/1994	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	05/26/1994	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	08/29/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	11/11/1994	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	02/03/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	05/07/1995	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	08/02/1995	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	02/24/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	05/04/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
OMW-9	09/07/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	11/24/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	02/23/1997	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	05/01/1997	1,100	4,700	150	14	97	52	330	—	—	—	—	—	—	—	77.71	12.10	65.61	—
OMW-9	07/22/1997	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	11/04/1997	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.71	—	—	—
OMW-9	01/21/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.71	11.32	66.39	—
OMW-9	05/11/1998	1,500	5,500	220	10	160	91	110	—	—	—	—	—	—	—	77.71	11.95	65.76	—
OMW-9	08/11/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.71	12.08	65.63	—
OMW-9	10/20/1998	780	1,200	18	<5.0	14	6.0	48	—	—	—	—	—	—	—	77.71	12.03	65.68	—
OMW-9	11/23/1998	890	1,700	88	9.0	42	22	170	—	—	—	—	—	—	—	77.71	11.85	65.86	—
OMW-9	02/08/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.71	8.01	69.70	—
OMW-9	04/12/1999	1,870	2,670	97	<5.00	111	54	401	—	—	—	—	—	—	—	77.71	9.55	68.16	—
OMW-9	07/27/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.71	11.87	65.84	—
OMW-9	10/25/1999	606	2,670	31.3	<2.50	8.32	<2.50	107	—	—	—	—	—	—	—	77.71	11.93	65.78	—
OMW-9	01/24/2000	1,250	1,400	44.5	<1.00	12.6	8.66	69.8	23.5	—	—	—	—	—	—	77.71	10.32	67.39	1.2
OMW-9	04/24/2000	644	1,440	53.3	0.605	4.63	10.2	80.7	—	—	—	—	—	—	—	77.71	11.33	66.38	1.8
OMW-9	07/24/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.71	11.82	65.89	—
OMW-9	11/01/2000	685	2,160	92.6	7.96	4.69	4.02	88.8	—	—	—	—	—	—	—	77.71	11.45	66.26	2.0
OMW-9	01/19/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.71	11.83	65.88	4.2
OMW-9	04/13/2001	923	3,620	167	3.16	60.2	14.5	231	—	—	—	—	—	—	—	77.71	12.19	65.52	3.8
OMW-9	07/09/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.71	12.04	65.67	3.8
OMW-9	10/18/2001	<500	1,400	23	0.77	1.8	1.4	—	10	—	—	—	—	—	—	77.71	12.90	64.81	0.4
OMW-9	01/24/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.71	11.97	65.74	4.0
OMW-9	05/10/2002	380	3,900	84	2.9	120	23	—	11	—	—	—	—	—	—	77.71	12.27	65.44	1.1
OMW-9	07/18/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.71	12.42	65.29	4.2
OMW-9	10/31/2002	<1,500	4,700	40	1.1	14	14	—	<5.0	—	—	—	—	—	—	—	12.60	—	2.4
OMW-9	01/30/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.15	—	4.8
OMW-9	04/17/2003	120	<50	<0.50	<0.50	<0.50	<1.0	—	<5.0	—	—	—	—	—	—	—	11.61	—	1.8
OMW-9	07/17/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.22	—	4.2
OMW-9	10/16/2003	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-9	01/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.87	—	9.1
OMW-9	04/14/2004	470 n	460	6.1	<0.50	21	1.2	—	1.2	—	—	—	—	—	—	—	12.44	—	1.0

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
OMW-9	10/29/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.95	—	11.4
OMW-9	04/14/2005	210 n	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	—	11.82	—	1.9
OMW-9	10/26/2005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80.55	12.52	68.03	0.2
OMW-9	03/16/2006	1,600	10,500	26.2	0.670	105	4.38	—	1.06	<10.0	<0.500	<0.500	<0.500	<0.500	<0.500	80.55	11.17	69.38	—
OMW-9	09/20/2006	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	80.55	—	—	—
OMW-9	10/02/2006	3,990 g	11,300	18.0	1.81	74.4	6.18	—	0.860	—	—	—	—	—	—	80.55	12.40	68.15	0.29
OMW-9	03/26/2007	1,000 g,n	2,700	12	<2.5	15	2.8	—	<2.5	—	—	—	—	—	—	80.55	12.00	68.55	1.2
OMW-9	06/25/2007	1,000 g	4,000 l	8.4	0.44 m	25	2.9	—	<1.0	—	—	—	—	—	—	80.55	12.83	67.72	0.05
OMW-9	09/10/2007	480 g,n	2,800 l	3.9	<1.0	6.4	1.3	—	<1.0	—	—	—	—	—	—	80.55	13.02	67.53	0.06
OMW-9	12/10/2007	760 g,n	2,600 l	12	0.46 m	6.4	0.83	—	0.71 m	—	—	—	—	—	—	80.55	12.38	68.17	0.11
OMW-9	03/10/2008	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	80.55	—	—	—
OMW-9	06/23/2008	550 g,n	1,700	1.9	<1.0	2.0	<1.0	—	<1.0	—	—	—	—	—	—	80.55	13.30	67.25	0.01/0.02
OMW-9	09/22/2008	430 g,n	1,300	1.4	<1.0	<1.0	<1.0	—	<1.0	<10	<2.0	<2.0	<2.0	—	—	80.55	12.41	68.14	0.09
OMW-9	12/22/2008	550 g,n	1,000	1.4	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	—	80.55	12.18	68.37	—
OMW-9	03/23/2009	380 g,n	290	1.0	<1.0	1.1	<1.0	—	<1.0	—	—	—	—	—	—	80.55	11.42	69.13	0.47
OMW-9	09/21/2009	420 g,n	1,100	2.3	<1.0	<1.0	<1.0	—	<1.0	<10	<2.0	<2.0	<2.0	—	—	80.55	12.10	68.45	0.62
OMW-9	03/08/2010	200 g,n	510	2.0	<1.0	3.2	<1.0	—	<1.0	—	—	—	—	—	—	80.55	11.37	69.18	0.51
OMW-9	09/27/2010	80 g,n	1,600	2.8	<1.0	<1.0	<1.0	—	<1.0	<10	<2.0	<2.0	<2.0	—	—	80.55	12.96	67.59	0.88
OMW-9	03/21/2011	72 g	140	0.80	<0.50	0.88	<1.0	—	<1.0	—	—	—	—	—	—	80.55	11.90	68.65	0.78
OMW-9	09/26/2011	650 g	1,600	0.97	<0.50	0.62	<1.0	—	<1.0	<10	<1.0	<1.0	<1.0	—	—	80.55	13.35	67.20	0.94
OMW-9	**03/26/2012**	**320 g**	**440**	**2.9**	**<0.50**	**0.50**	**<1.0**	**—**	**0.57**	**—**	**—**	**—**	**—**	**—**	**—**	**80.55**	**11.12**	**69.43**	**0.65**
OMW-10	08/07/1991	<50	460	73	1.0	18	8.4	—	—	—	—	—	—	—	—	77.91	10.00	67.91	—
OMW-10	10/31/1991	150	630	100	<0.5	33	26	—	—	—	—	—	—	—	—	77.91	10.10	67.81	—
OMW-10	02/15/1992	570 n	810	85	2.5	44	38	—	—	—	—	—	—	—	—	77.91	—	—	—
OMW-10	03/18/1992	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	9.55	68.36	—
OMW-10	05/21/1992	—	280	47	0.7	4.0	3.1	—	—	—	—	—	—	—	—	77.91	10.41	67.50	—
OMW-10	08/19/1992	—	330	35	<1	6.0	4.1	—	—	—	—	—	—	—	—	77.91	10.46	67.45	—
OMW-10	11/18/1993	—	300	30	0.8	7.1	6.3	—	—	—	—	—	—	—	—	77.91	10.31	67.60	—
OMW-10	02/11/1993	—	510 n	49	3.8	18	18	—	—	—	—	—	—	—	—	77.91	9.68	68.23	—
OMW-10	05/19/1993	—	<50	96	<0.5	3.4	1.5	—	—	—	—	—	—	—	—	77.91	10.19	67.72	—
OMW-10	08/18/1993	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	10.29	67.62	—
OMW-10	11/17/1993	—	400	24	<1.0	2.8	1.9	—	—	—	—	—	—	—	—	77.91	10.32	67.59	—

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
OMW-10	02/18/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	9.30	68.61	—
OMW-10	05/26/1994	—	330	32	13	7.5	26	—	—	—	—	—	—	—	—	77.91	10.14	67.77	—
OMW-10	08/09/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	10.38	67.53	—
OMW-10	11/11/1994	—	110	7.8	<0.5	2.3	1.5	—	—	—	—	—	—	—	—	77.91	9.34	68.57	—
OMW-10	02/03/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	10.17	67.74	—
OMW-10	05/07/1995	—	1,600	110	3.1	17	12	—	—	—	—	—	—	—	—	77.91	9.63	68.28	—
OMW-10	08/02/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	10.07	67.84	—
OMW-10	11/02/1995	—	1,200	47	0.8	1.4	2.4	—	—	—	—	—	—	—	—	77.91	9.74	68.17	—
OMW-10 (D)	11/02/1995	—	1,300	50	0.8	1.5	2.5	—	—	—	—	—	—	—	—	77.91	—	—	—
OMW-10	02/24/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	77.91	—	—	—
OMW-10	05/04/1996	—	1,100	76	16	7.4	32	57	—	—	—	—	—	—	—	77.91	9.97	67.94	—
OMW-10 (D)	05/04/1996	—	700	63	13	6.4	25	21	—	—	—	—	—	—	—	77.91	—	—	—
OMW-10	09/07/1996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	13.00	64.91	—
OMW-10	11/24/1996	—	540	13	2.7	1.3	1.7	16	—	—	—	—	—	—	—	77.91	12.56	65.35	—
OMW-10 (D)	11/24/1996	—	490	25	<2.0	<2.0	<2.0	66	—	—	—	—	—	—	—	77.91	—	—	—
OMW-10	02/23/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	12.52	65.39	—
OMW-10	05/01/1997	—	910	1.3	10	4.1	5.9	4.1	—	—	—	—	—	—	—	77.91	13.13	64.78	—
OMW-10	07/22/1997	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	13.46	64.45	—
OMW-10	11/04/1997	—	460	5.0	<0.50	1.3	2.2	<5.0	—	—	—	—	—	—	—	77.91	12.08	65.83	—
OMW-10	01/21/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	11.77	66.14	—
OMW-10	05/11/1998	—	370	4.1	0.7	<0.50	0.88	5.2	—	—	—	—	—	—	—	77.91	12.86	65.05	—
OMW-10	08/11/1998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	13.20	64.71	—
OMW-10	10/20/1998	—	490	<0.50	<0.50	1.6	2.3	5.9	—	—	—	—	—	—	—	77.91	13.20	64.71	—
OMW-10	11/23/1998	790	150	3.2	0.72	<0.50	1.5	5	—	—	—	—	—	—	—	77.91	12.85	65.06	—
OMW-10	02/08/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	9.18	68.73	—
OMW-10	04/12/1999	—	1,910	59.8	65.80	67	41.6	<100	—	—	—	—	—	—	—	77.91	10.25	67.66	—
OMW-10	07/27/1999	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	12.85	65.06	—
OMW-10	10/25/1999	—	130	1.08	<0.500	0.522	<0.500	<5.00	—	—	—	—	—	—	—	77.91	12.99	64.92	—
OMW-10	01/24/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	10.61	67.30	0.6
OMW-10	04/24/2000	—	60.7	1.73	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	77.91	12.35	65.56	1.1
OMW-10	07/24/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	12.76	65.15	—
OMW-10	11/01/2000	—	<50.0	0.664	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	77.91	11.96	65.95	2.2
OMW-10	01/19/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	12.51	65.40	3.4

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
OMW-10	04/13/2001	—	91.0	1.75	0.720	<0.500	0.718	6.11	—	—	—	—	—	—	—	77.91	12.95	64.96	6.2
OMW-10	07/09/2001	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	13.11	64.80	3.4
OMW-10	10/18/2001	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	77.91	19.69	58.22	0.2
OMW-10	01/24/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	12.83	65.08	2.5
OMW-10	05/10/2002	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	77.91	13.20	64.71	1.1
OMW-10	07/18/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.91	13.22	64.69	2.3
OMW-10	10/31/2002	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	81.14	13.55	67.59	—
OMW-10	01/30/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.14	12.67	68.47	—
OMW-10	04/17/2003	—	<50	<0.50	<0.50	<0.50	<1.0	—	6.6	—	—	—	—	—	—	81.14	12.14	69.00	—
OMW-10	07/17/2003	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.14	13.08	68.06	—
OMW-10	10/16/2003	—	120 n	0.68	<0.50	<0.50	<1.0	—	0.99	—	—	—	—	—	—	81.14	13.27	67.87	—
OMW-10	01/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.14	12.55	68.59	—
OMW-10	04/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.14	13.04	68.10	—
OMW-10	10/29/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.14	12.61	68.53	—
OMW-10	04/14/2005	Well destroyed		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-11	11/22/1991	240	450	1.1	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.76	11.90	63.86	—
OMW-11	02/15/1992	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	03/18/1992	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	05/20/1992	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	08/19/1992	<50	270 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.76	12.06	63.70	—
OMW-11	11/18/1992	100	400 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.76	12.01	63.75	—
OMW-11	02/11/1993	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	05/20/1993	<0.5	200 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.76	11.90	63.86	—
OMW-11	08/18/1993	<50	180 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.76	11.90	63.86	—
OMW-11	11/17/1993	<50 n	150 n	<0.5	3.6	<0.5	<0.5	—	—	—	—	—	—	—	—	75.76	11.94	63.82	—
OMW-11	02/18/1994	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	05/26/1994	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	08/29/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75.76	11.98	63.78	—
OMW-11	11/11/1994	—	160	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.76	10.88	64.88	—
OMW-11	02/03/1995	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75.76	10.62	65.14	—
OMW-11	03/05/1995	100	220	0.7	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	05/07/1995	<50	160	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.76	11.49	64.27	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
OMW-11	08/02/1995	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	02/24/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	05/04/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	09/07/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	11/24/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	02/23/1997	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	05/01/1997	71	130	<0.50	<0.50	<0.50	0.61	<2.5	—	—	—	—	—	—	—	75.76	13.76	62.00	—
OMW-11	07/22/1997	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	11/04/1997	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	01/21/1998	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	05/11/1998	85	100	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.76	13.18	62.58	—
OMW-11	08/11/1998	<50	110	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.76	13.50	62.26	—
OMW-11	10/20/1998	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	04/12/1999	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	07/27/1999	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	10/25/1999	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	01/24/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	04/24/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	05/11/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	75.76	12.21	63.55	—
OMW-11	07/24/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	07/29/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	10/26/2000	b	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	75.76	12.47	63.29	1.5
OMW-11	11/01/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	01/19/2001	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	12.29	63.47	—
OMW-11	04/13/2001	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	04/26/2001	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	04/27/2001	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.76	—	—	—
OMW-11	07/09/2001	<50	130	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	75.76	13.00	62.76	3.6
OMW-11	10/18/2001	<50	200	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	75.76	13.35	62.41	0.6
OMW-11	01/24/2002	170	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	75.76	12.18	63.58	1.7
OMW-11	05/10/2002	<50	180	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	75.76	12.44	63.32	1.3
OMW-11	07/18/2002	68	230	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	75.76	12.32	63.44	1.9
OMW-11	10/31/2002	<50	210	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	78.67	12.70	65.97	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
OMW-11	01/30/2003	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	78.67	—	—	—
OMW-11	04/17/2003	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	78.67	—	—	—
OMW-11	07/17/2003	<50	120 n	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	78.67	12.56	66.11	—
OMW-11	10/16/2003	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	78.67	—	—	—
OMW-11	01/14/2004	<50	97 n	<0.50	0.67	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	78.67	12.17	66.50	1.6
OMW-11	04/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.67	12.41	66.26	—
OMW-11	10/29/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.67	12.31	66.36	—
OMW-11	04/14/2005	Well destroyed		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-12	12/02/1991	<50	<1,000	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	10.31	65.34	—
OMW-12	03/18/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	8.93	66.72	—
OMW-12	05/20/1992	—	180 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	10.26	65.39	—
OMW-12	08/19/1992	—	230 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	10.53	65.12	—
OMW-12	11/18/1992	—	220 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	10.45	65.20	—
OMW-12	02/11/1993	—	240	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	8.90	66.75	—
OMW-12	05/19/1993	—	110 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	10.60	65.05	—
OMW-12	08/18/1993	—	140 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	10.28	65.37	—
OMW-12	11/17/1993	—	120 n	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	10.24	65.41	—
OMW-12	02/18/1994	—	180 n	1.7	2.1	0.9	4.8	—	—	—	—	—	—	—	—	75.65	8.97	66.68	—
OMW-12	05/26/1994	—	150	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	9.62	66.03	—
OMW-12	08/29/1994	—	110	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	10.20	65.45	—
OMW-12	11/11/1994	—	90	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	8.54	67.11	—
OMW-12	02/03/1995	—	80	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	8.28	67.37	—
OMW-12 (D)	02/03/1995	—	100	0.6	<0.5	0.7	1.1	—	—	—	—	—	—	—	—	75.65	—	—	—
OMW-12	05/07/1995	—	110	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	9.17	66.48	—
OMW-12	08/02/1995	—	90	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	10.06	65.59	—
OMW-12 (D)	08/02/1995	—	120	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	—	—	—
OMW-12	11/02/1995	—	130	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	10.09	65.56	—
OMW-12	02/24/1996	—	80	<0.5	<0.5	<0.5	<0.5	—	—	—	—	—	—	—	—	75.65	7.81	67.84	—
OMW-12	05/04/1996	—	61	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.65	11.72	63.93	—
OMW-12	09/07/1996	—	66	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.65	12.65	63.00	—
OMW-12	11/24/1996	—	70	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.65	11.54	64.11	—
OMW-12	02/23/1997	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.65	11.53	64.12	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
OMW-12	05/01/1997	—	79	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.65	12.17	63.48	—
OMW-12	07/22/1997	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.65	12.48	63.17	—
OMW-12 (D)	07/22/1997	—	51	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.65	—	—	—
OMW-12	11/04/1997	—	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	—	—	—	75.65	12.54	63.11	—
OMW-12	01/21/1998	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.65	9.82	65.83	—
OMW-12	05/11/1998	—	53	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.65	11.63	64.02	—
OMW-12	08/11/1998	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.65	12.05	63.60	—
OMW-12	10/20/1998	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.65	12.31	63.34	—
OMW-12	02/08/1999	—	<50	<0.50	<0.50	<0.50	<0.50	<2.5	—	—	—	—	—	—	—	75.65	8.25	67.40	—
OMW-12	04/12/1999	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.65	—	—	—
OMW-12	07/27/1999	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	75.65	10.88	64.77	—
OMW-12	10/25/1999	—	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	—	—	—	—	—	—	—	75.65	11.00	64.65	—
OMW-12	01/24/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	75.65	—	—	—
OMW-12	04/24/2000	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	75.65	10.53	65.12	2.0
OMW-12	07/24/2000	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	75.65	11.55	64.10	—
OMW-12	11/01/2000	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	75.65	10.34	65.31	2.6
OMW-12	01/19/2001	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	75.65	10.60	65.05	7.6
OMW-12	04/13/2001	—	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	—	—	—	—	—	—	—	75.65	10.75	64.90	2.8
OMW-12	07/09/2001	—	69	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	75.65	11.64	64.01	4.8
OMW-12	10/18/2001	—	81	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	75.65	11.95	63.70	1.3
OMW-12	01/24/2002	—	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	75.65	10.27	65.38	3.4
OMW-12	05/10/2002	—	73	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	75.65	10.86	64.79	1.6
OMW-12	07/18/2002	—	71	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	75.65	10.66	64.99	1.7
OMW-12	10/31/2002	—	76	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	78.58	11.20	67.38	—
OMW-12	01/30/2003	—	58	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	78.58	10.30	68.28	—
OMW-12	04/17/2003	—	<50	<0.50	<0.50	<0.50	<1.0	—	<5.0	—	—	—	—	—	—	78.58	10.17	68.41	—
OMW-12	07/17/2003	—	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	78.58	11.05	67.53	—
OMW-12	10/16/2003	—	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	78.58	11.33	67.25	—
OMW-12	01/14/2004	—	67 n	<0.50	0.87	<0.50	<1.0	—	<0.50	—	—	—	—	—	—	78.58	10.50	68.08	2.8
OMW-12	04/14/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.58	10.85	67.73	—
OMW-12	10/29/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78.58	10.72	67.86	—
OMW-12	04/14/2005	Well destroyed		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
OMW-13	11/22/1991	1,000	900	37	9.5	74	130	—	—	—	—	—	—	—	—	76.36	11.96	64.40	—
OMW-13	03/18/1992	590 n	900 n	24	28	320	320	—	—	—	—	—	—	—	—	76.36	10.84	65.52	—
OMW-13	05/20/1992	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	08/19/1992	470 n	7,000	180	36	150	150	—	—	—	—	—	—	—	—	76.36	12.12	64.24	—
OMW-13	11/18/1992	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	12.00	64.36	—
OMW-13	02/11/1993	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	05/20/1993	—	9,200	320	83	490	950	—	—	—	—	—	—	—	—	76.36	12.26	64.10	—
OMW-13	08/18/1993	—	—	—	—	—	—	—	—	—	—	—	—	—	—	76.36	11.75	64.61	—
OMW-13	11/17/1993	3,800	38,000	210	<130	1,000	2,500	—	—	—	—	—	—	—	—	76.36	11.78	64.58	—
OMW-13	02/18/1994	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	05/26/1994	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	08/29/1994	—	—	—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	11/11/1994	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	10.28	66.08	—
OMW-13	02/03/1995	—	1.0	—	—	—	—	—	—	—	—	—	—	—	—	76.36	10.01	66.35	—
OMW-13	03/05/1995	3,900	9,100	200	9.7	200	130	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	05/07/1995	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	08/02/1995	2,900	8,000	180	6.6	190	55	—	—	—	—	—	—	—	—	76.36	11.80	64.56	—
OMW-13	02/24/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	05/04/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	09/07/1996	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	11/24/1996	7,700	15,000	50	<20	74	60	<100	—	—	—	—	—	—	—	76.36	12.35	64.01	—
OMW-13	02/23/1997	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	05/01/1997	290	2,600	33	10	30	14	88	—	—	—	—	—	—	—	76.36	13.83	62.53	—
OMW-13	07/22/1997	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	11/04/1997	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	01/21/1998	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	05/11/1998	1,400	10,000	60	17	120	23	<50	—	—	—	—	—	—	—	76.36	13.21	63.15	—
OMW-13	08/11/1998	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	10/20/1998	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	02/08/1999	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	04/12/1999	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	07/27/1999	2,230	6,270	32.0	26.0	53.0	<5.00	33.0	—	—	—	—	—	—	—	76.36	11.87	64.49	—
OMW-13	10/25/1999	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
OMW-13	01/24/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	04/24/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	05/11/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	07/24/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	07/29/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	11/01/2000	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	11/15/2000	1,200	2,990	34.8	37.3	<10.0	<10.0	<50.0	—	—	—	—	—	—	—	76.36	12.35	64.01	1.4
OMW-13	01/19/2001	2,390	4,830	34.8	<5.00	93.1	<5.00	<25.0	—	—	—	—	—	—	—	76.36	12.17	64.19	7.0
OMW-13	04/13/2001	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	04/26/2001	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	04/27/2001	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	07/09/2001	<600	1,300	0.74	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	—	—	76.36	13.20	63.16	6.4
OMW-13	10/18/2001	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	11/01/2001	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	76.36	—	—	—
OMW-13	11/09/2001	<300	910	<0.50	<0.50	1.1	<0.50	—	<5.0	—	—	—	—	—	—	76.36	13.53	62.83	5.8
OMW-13	01/24/2002	<1,500	6,300	6.6	1.0	28	2.1	—	<10	—	—	—	—	—	—	76.36	12.23	64.13	2.9
OMW-13	05/10/2002	<400	2,800	3.5	<0.50	15	1.2	—	<5.0	—	—	—	—	—	—	76.36	12.59	63.77	1.0
OMW-13	07/18/2002	<1,000	3,300	4.3	0.70	29	1.8	—	<5.0	—	—	—	—	—	—	76.36	12.44	63.92	2.1
OMW-13	10/31/2002	<1,000	1,900	0.96	<0.50	7.5	<0.50	—	<5.0	—	—	—	—	—	—	—	12.86	—	—
OMW-13	01/30/2003	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	12.86	—	—
OMW-13	04/17/2003	1,800	5,800	11	1.3	34	2.9	—	<10	—	—	—	—	—	—	—	11.87	—	—
OMW-13	07/17/2003	930 n	5,100 n	3.1	<2.5	10	<5.0	—	<2.5	—	—	—	—	—	—	—	12.70	—	—
OMW-13	10/16/2003	740 n	3,100 n	<2.5	<2.5	<2.5	<5.0	—	<2.5	—	—	—	—	—	—	—	12.93	—	—
OMW-13	01/14/2004	2,100 n	7,800	6.3	<2.5	11	9.8	—	<2.5	—	—	—	—	—	—	—	12.57	—	1.2
OMW-13	04/14/2004	1,100 n	4,400	3.3	<2.5	7.6	<5.0	—	<2.5	—	—	—	—	—	—	—	12.50	—	—
OMW-13	10/29/2004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.35	—	—
OMW-13	04/14/2005	2,000 f	4,900	5.0	<2.5	6.7	<5.0	—	<2.5	—	—	—	—	—	—	—	12.01	—	—
OMW-13	10/26/2005	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-13	03/16/2006	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-13	03/17/2006	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-13	03/27/2006	1,860 g	15,500	2.48	0.720	4.02	1.74	—	<0.500	<10.0	<0.500	<0.500	<0.500	<0.500	<0.500	—	11.23	—	—
OMW-13	09/20/2006	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-13	10/02/2006	1,110 g	4,660	<0.500	<0.500	0.510	<0.500	—	0.560	—	—	—	—	—	—	—	12.81	—	0.47

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)
OMW-13	03/26/2007	730 g,n	1,800 i	<2.5 i	<2.5 i	<2.5 i	<2.5 i	—	<2.5 i	—	—	—	—	—	—	—	12.41	—	—
OMW-13	06/25/2007	440 g	1,800 l	<0.50	<1.0	0.33 m	0.41 m	—	<1.0	—	—	—	—	—	—	—	12.91	—	—
OMW-13	09/10/2007	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-13	09/24/2007	1,100 g,m	1,200 l	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	—	—	12.93	—	—
OMW-13	12/10/2007	420 g,n	1,400 l	0.16 m	<1.0	<1.0	0.18 m	—	<1.0	—	—	—	—	—	—	—	12.50	—	—
OMW-13	03/10/2008	55 g	1,800	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	—	—	12.35	—	—
OMW-13	06/23/2008	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-13	07/14/2008	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-13	07/16/2008	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-13	09/22/2008	180 n,g	460	<0.50	<1.0	<1.0	<1.0	—	<1.0	<10	<2.0	<2.0	<2.0	—	—	—	13.63	—	0.18
OMW-13	12/22/2008	610 n,g	1,700	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	—	—	—	12.69	—	—
OMW-13	03/23/2009	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-13	09/21/2009	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-13	03/08/2010	1,400 g, n	5,300	0.60	<1.0	1.4	1.1	—	<1.0	—	—	—	—	—	—	—	11.90	—	—
OMW-13	09/27/2010	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-13	03/21/2011	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
OMW-13	09/26/2011	340 g	890	<0.50	<0.50	<0.50	<1.0	—	<1.0	<10	<1.0	<1.0	<1.0	—	—	—	13.39	—	0.71
OMW-13	**03/26/2012**	**1,200 g**	**2,900**	**0.55**	**<0.50**	**0.57**	**<1.0**	**—**	**<0.50**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**11.67**	**—**	**1.21**

Notes:
TPHd = Total petroleum hydrocarbons as diesel analyzed by modified EPA Method 8015
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to July 9, 2001 analyzed by EPA Method 8015 unless otherwise noted.
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B
MTBE = Methyl tertiary-butyl ether analyzed by method indicated
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
EDB = 1,2-Dibromoethane (ethylene dibromide) analyzed by EPA Method 8260B
TOC = Top of casing elevation, in feet relative to mean sea level
GW = Groundwater
DO = Dissolved oxygen

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
500 40TH STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO Reading (mg/L)

µg/L = Micrograms per liter
ft = Feet
MSL = Mean sea level
mg/L = Milligrams per liter
<x = Not detected at reporting limit x
--- = Not analyzed or available
(D) = Duplicate sample

b = The TPHd analysis was not performed because the sample containers were broken in the laboratory.
d = TOC altered during wellhead maintenance.
f = Hydrocarbon reported is in the early diesel range, and does not match laboratory diesel standard.
g = Diesel with silica gel cleanup
i = Sample analyzed past method-specified hold time.
j = Sample container contained headspace.
l = Analyzed by EPA Method 8015B (M).
m = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
n = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
o = Hydrocarbon result partly due to individual peak(s) in quantitation range.

DO readings are collected post-purge when wells are sampled and pre-purge in wells not sampled.
All wells except OMW-6, OMW-9, and OMW-13 surveyed March 18, 2002 by Virgil Chavez Land Surveying
Wells OMW-6 and OMW-9 surveyed October 25, 2005 by Virgil Chavez Land Surveying

TABLE 3. RESULTS OF GROUNDWATER CHEMICAL ANALYSES

Shell Oil Company
500 40th Street
Oakland, California

Concentration (mg/L)

Well No.	Date Sampled	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	Lead
EW-1	07/03/90	0.40	<0.05	0.0032	0.0032	0.0009	0.0007	NA
EW-1[1,2]	11/16/90	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
EW-1	02/21/91	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
EW-1	05/31/91	0.25	<0.05	0.012	<0.0005	0.0029	<0.0005	NA
EW-1	08/06/91	0.18	<0.05	0.0054	<0.0005	0.0009	0.0007	NA
EW-1	**10/30/91**	**0.07**	**<0.05**	**0.0026**	**<0.0005**	**<0.0005**	**<0.0005**	**NA**
MW-2	06/20/89	0.8	<0.01	0.046	0.0068	0.0027	0.056	NA
MW-2	07/18/89	1.4	0.4	0.033	0.0056	0.024	0.073	0.003
MW-2	08/08/89	0.230	0.50	0.045	<0.0005	<0.0015	0.011	NA
MW-2	09/11/89	0.50	0.31	0.019	0.0023	<0.0015	0.010	NA
MW-2	10/10/89	2.0	0.81	0.077	0.0084	0.024	0.150	NA
MW-2	01/05/90	2.0	0.56	0.038	0.0056	0.030	0.059	NA
MW-2	03/02/90	1.9	0.58	0.095	0.0005	0.083	0.200	NA
MW-2	05/31/90	4.1	0.57	0.170	<0.0005	0.100	0.33	NA
MW-2	05/31/90	5.2	0.51	0.200	<0.0005	0.120	0.39	NA
MW-2	08/28/90	1.4	0.31	0.044	<0.0005	0.0029	0.067	NA
MW-2	11/16/90	0.88	0.36	0.027	0.0019	0.034	0.005	NA
MW-2	02/22/91	2.70	013	0.082	<0.0005	0.057	0.140	NA
MW-2	05/30/91	1.4	0.15	0.023	<0.0005	0.038	0.059	NA
MW-2	08/07/91	1.2	0.23	0.059	0.0011	0.038	0.056	NA
MW-2	**10/30/91**	**0.52**	**0.3**	**0.056**	**<0.0005**	**0.056**	**0.1**	**NA**
MW-3	06/20/89	2.3	<0.1	0.18	0.15	0.054	0.800	NA
MW-3	07/18/89	1.5	9.1	0.085	0.034	0.010	0.120	0.002
MW-3	08/08/89	2.5	0.71	0.13	0.073	0.0035	0.330	NA
MW-3	09/11/89	1.9	0.23	0.18	0.074	0.0037	0.110	NA
MW-3	10/10/89	2.6	1.2	0.069	0.055	0.0063	0.300	NA
MW-3	01/05/90	2.7	0.76	0.051	0.041	0.028	0.070	NA
MW-3	03/02/90	2.3	0.57	0.23	0.8	0.055	0.230	NA
MW-3[1]	03/02/90	2.3	0.56	0.22	0.8	0.53	0.230	NA
MW-3	05/31/90	1.9	0.460	0.140	0.048	0.044	0.180	NA
MW-3	08/28/90	1.5	0.28	0.140	0.050	0.038	0.170	NA
MW-3[1]	08/28/90	1.5	0.26	0.140	0.04905	0.036	0.170	NA
MW-3	11/16/90	5.1	1.0	0.140	0.076	0.042	0.240	NA
MW-3	02/22/91	4.4	0.36	0.260	0.080	0.088	0.340	NA
MW-3	05/30/91	2.5	0.22	0.160	0.047	0.053	0.180	NA
MW-3	08/07/91	1.9	0.47	0.22	0.057	0.057	0.260	NA
MW-3	**10/30/91**	**1.9**	**0.48**	**0.16**	**0.028**	**0.063**	**0.18**	**NA**

TABLE 3 (cont'd). RESULTS OF GROUNDWATER CHEMICAL ANALYSES

Shell Oil Company
500 40th Street
Oakland, California

Concentration (mg/L)

Well No.	Date Sampled	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	Lead
MW-8	07/03/90	0.16	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-8	11/16/90	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-8	02/21/91	0.07	<0.05	<0.0005	0.0007	<0.0005	0.0013	NA
MW-8	05/31/91	0.06	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-8	08/07/91	0.09	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-8	**10/30/91**	**<0.05**	**<0.05**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**NA**
OMW-9	01/05/90	4.3	1.6	0.097	0.12	0.091	0.290	NA
OMW-9	03/04/90	2.6	1.0	0.058	0.024	0.0081	0.075	NA
OMW-9	06/01/90	2.9	0.49	0.085	0.020	0.013	0.085	NA
OMW-9	08/28/90	1.5	0.26	0.140	0.049	0.036	0.170	NA
OMW-9	11/16/90	1.3	0.87	0.0092	0.014	0.0035	0.098	NA
OMW-9	02/22/91	1.7	0.26	0.084	0.026	<0.0005	0.210	NA
OMW-9	05/30/91	3.2	0.28	0.049	0.016	0.059	0.110	NA
OMW-9	08/06/91	3.9	0.19	0.058	0.0088	0.080	0.220	NA
OMW-9	**10/30/91**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
OMW-10	01/05/90	<0.05	0.20	0.034	0.0011	0.0043	0.013	NA
OMW-10	03/04/90	0.29	0.39	0.053	0.0015	0.0043	0.015	NA
OMW-10	06/01/90	0.73	0.30	0.100	0.0019	0.015	0.025	NA
OMW-10	08/28/90	0.36	0.36	0.064	0.0006	0.0022	0.0057	NA
OMW-10	11/16/90	<0.05	0.22	<0.0005	<0.0005	<0.0005	<0.0005	NA
OMW-10[3]	02/22/91	0.35	<0.05	0.040	0.0012	0.0100	0.0070	NA
OMW-10	05/31/91	0.69	<0.05	0.063	0.0022	0.024	0.016	NA
OMW-10	08/07/91	0.46	<0.05	0.073	0.001	0.018	0.0084	NA
OMW-10	**10/31/91**	**0.63**	**0.15**	**0.100**	**<0.0005**	**0.033**	**0.026**	**NA**
OMW-11	**11/22/91**	**0.45**	**0.24**	**0.0011**	**<0.0005**	**<0.0005**	**<0.0005**	**NA**
OMW-12	**12/02/91**	**<1**	**<0.05**	**<0.0005**	**<0.0005**	**<0.0005**	**<0.0005**	**NA**
OMW-13	**11/22/91**	**0.90**	**1.0**	**0.037**	**0.0095**	**0.074**	**0.130**	**NA**

NOTES:

*	duplicate sample, sample #910806 on analytical results and chain of custody forms
1	duplicate sample
2	EW-1 and OMW-10 showing the presence of TPH-mo
3	OMW-10 showing the presence of TPH-mo (0.50 mg/L).
mg/L	milligrams per liter
TPH-g	total petroleum hydrocarbons as gasoline (GCFID)
TPH-d	total petroleum hydrocarbons as diesel (GCFID)
NA	not analyzed
Bold	Indicates work completed this quarter
NS	not sampled this quarter

TABLE 5. RESULT OF GROUNDWATER CHEMICAL ANALYSES

Shell Oil Company
500 40th Street
Oakland, California

Concentration (mg/L)

Well No.	Date Sampled	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	Lead
MW-2	06/20/89	0.8	<0.01	0.046	0.0068	0.0027	0.056	NA
MW-2	07/18/89	1.4	0.4	0.033	0.0056	0.024	0.073	0.003
MW-2	08/08/89	0.230	0.50	0.045	<0.0005	<0.0015	0.011	NA
MW-2	09/11/89	0.50	0.31	0.019	0.0023	<0.0015	0.010	NA
MW-2	10/10/89	2.0	0.81	0.077	0.0084	0.024	0.150	NA
MW-2	01/05/90	2.0	0.56	0.038	0.0056	0.030	0.059	NA
MW-2	03/02/90	1.9	0.58	0.095	0.0005	0.083	0.200	NA
MW-2	05/31/90	4.1	0.57	0.170	<0.0005	0.100	0.33	NA
MW-2	05/31/90	5.2	0.51	0.200	<0.0005	0.120	0.39	NA
MW-2	08/28/90	1.4	0.31	0.044	<0.0005	0.0029	0.067	NA
MW-2	11/16/90	0.88	0.36	0.027	0.0019	0.034	0.005	NA
MW-2	02/22/91	2.70	013	0.082	<0.0005	0.057	0.140	NA
MW-3	06/20/89	2.3	<0.1	0.18	0.15	0.054	0.800	NA
MW-3	07/18/89	1.5	9.1	0.085	0.034	0.010	0.120	0.002
MW-3	08/08/89	2.5	0.71	0.13	0.073	0.0035	0.330	NA
MW-3	09/11/89	1.9	0.23	0.18	0.074	0.0037	0.110	NA
MW-3	10/10/89	2.6	1.2	0.069	0.055	0.0063	0.300	NA
MW-3	01/05/90	2.7	0.76	0.051	0.041	0.028	0.070	NA
MW-3	03/02/90	2.3	0.57	0.23	0.8	0.055	0.230	NA
MW-3[1]	03/02/90	2.3	0.56	0.22	0.8	0.53	0.230	NA
MW-3	05/31/90	1.9	0.460	0.140	0.048	0.044	0.180	NA
MW-3	08/28/90	1.5	0.28	0.140	0.050	0.038	0.170	NA
MW-3[1]	08/28/90	1.5	0.26	0.140	0.04905	0.036	0.170	NA
MW-3	11/16/90	5.1	1.0	0.140	0.076	0.042	0.240	NA
MW-3	02/22/91	4.4	0.36	0.260	0.080	0.088	0.340	NA
MW-4	06/20/89	<0.05	<0.01	<0.0005	<0.0015	<0.0015	<0.0015	NA
MW-4	07/18/89	<0.05	<0.05	<0.0005	<0.0015	<0.0015	<0.0015	0.003
MW-4	08/08/89	<0.05	<0.05	<0.0005	<0.0005	<0.0015	<0.0015	NA
MW-4	09/11/89	<0.05	<0.05	<0.0005	<0.0005	<0.0015	<0.0015	NA
MW-4	10/10/89	<0.05	<0.05	<0.0005	<0.0005	<0.0015	<0.0015	NA
MW-4	01/05/90	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-4	03/02/90	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-4	05/31/90	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-4	NS	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-4	02/22/91	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA

TABLE 5 (cont'd). RESULT OF GROUNDWATER CHEMICAL ANALYSES

Shell Oil Company
500 40th Street
Oakland, California

Concentration (mg/L)

Well No.	Date Sampled	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	Lead
MW-5	10/10/89	<0.05	<0.05	<0.0005	<0.0005	<0.0015	<0.0015	NA
MW-5	01/05/90	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-5	03/02/90	<0.05	0.11	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-5	05/31/90	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.005	NA
MW-5	08/28/90	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-5	11/16/90	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-5	02/21/91	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
OMW-6	01/05/90	22	6.5	1.4	1.8	0.56	1.500	NA
OMW-6	03/04/90	27	4.6	1.3	1.4	0.63	2.400	NA
OMW-6[1]	03/04/90	25	4.8	1.2	1.3	0.55	2.300	NA
OMW-6	06/01/90	23	4.6	1.3	0.79	0.44	2.400	NA
OMW-6	08/28/90	16	3.3	1.10	0.580	0.220	1.400	NA
OMW-6	11/16/90	24	9.1	1.0	0.870	0.490	3.600	NA
OMW-6	02/22/91	30	3.0	**0.640**	0.610	0.480	3.200	NA
OMW-9	01/05/90	4.3	1.6	0.097	0.12	0.091	0.290	NA
OMW-9	03/04/90	2.6	1.0	0.058	0.024	0.0081	0.075	NA
OMW-9	06/01/90	2.9	0.49	0.085	0.020	0.013	0.085	NA
OMW-9	08/28/90	1.5	0.26	0.140	0.049	0.036	0.170	NA
OMW-9	11/16/90	1.3	0.87	0.0092	0.014	0.0035	0.098	NA
OMW-9	02/22/91	1.7	0.26	**0.084**	0.026	<0.0005	0.210	NA
OMW-10	01/05/90	<0.05	0.20	0.034	0.0011	0.0043	0.013	NA
OMW-10	03/04/90	0.29	0.39	0.053	0.0015	0.0043	0.015	NA
OMW-10	06/01/90	0.73	0.30	0.100	0.0019	0.015	0.025	NA
OMW-10	08/28/90	0.36	0.36	0.064	0.0006	0.0022	0.0057	NA
OMW-10	11/16/90	<0.05	0.22	<0.0005	<0.0005	<0.0005	<0.0005	NA
OMW-10[2,3]	02/22/91	0.35	<0.05	**0.0400**	0.0012	0.0100	0.0070	NA
MW-8	07/03/90	0.16	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-8	11/16/90	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-8	02/21/91	0.07	<0.05	<0.0005	0.0007	<0.0005	0.0013	NA
EW-1	07/03/90	0.40	<0.05	0.0032	0.0032	0.0009	0.0007	NA
EW-1[1,2]	11/16/90	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA
EW-1[1,3]	02/21/91	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA

NOTES:

1 duplicate sample
2 EW-1 and MW-10 showing the presence of TPH-mo (0.64 mg/L)
3 OMW-10 showing the presence of TPH-mo (0.50 mg/L).
mg/L milligrams per liter
TPH-g total petroleum hydrocarbons as gasoline (GCFID)
TPH-d total petroleum hydrocarbons as diesel (GCFID)
NA not analyzed
Bold indicates work completed this quarter
NS not sampled this quarter

TABLE 4. GROUNDWATER MONITORING WELL INFORMATION

Shell Oil Company Site
500 40th Street
Oakland, California

Well No.	Date Monitored	Well Elevation (ft msl)	Depth to Water (ft bgs)	Water Table Elevation (ft msl)	Petroleum Odor in Water	Floating Product Thickness (inches)	Comments
EW-1	08/28/90	78.26	13.11	65.15	No	0.0	
EW-1	11/16/90		13.33	64.93	No	0.0	
EW-1	02/21/90		12.86	65.40	No	0.0	
EW-1	05/30/91		12.88	65.38	No	0.0	
EW-1	08/06/91		NM	NM	No	0.0	
EW-1	10/30/91		12.72	65.54	No	0.0	
EW-1	12/02/91		12.91	65.35	No	0.0	
MW-2	06/19/89	80.80	11.91	68.89	No	0.0	
MW-2	07/18/89		11.98	68.82	No	0.0	
MW-2	08/08/89		12.00	68.80	Yes	0.0	
MW-2	09/11/89		12.00	68.80	No	0.0	
MW-2	10/10/89		12.05	68.75	Yes	0.0	
MW-2	01/05/90		10.95	69.85	No	0.0	
MW-2	03/02/90		11.54	69.26	Yes	0.0	
MW-2	05/31/90		11.08	69.72	Yes	0.0	
MW-2	08/28/90		12.02	68.78	Yes	0.0	
MW-2	11/16/90		12.81	67.99	Yes	0.0	
MW-2	02/21/91		11.88	68.92	No	0.0	
MW-2	05/30/91		11.96	68.84	No	0.0	
MW-2	08/06/91		12.12	68.68	Slight	0.0	
MW-2	10/30/91		11.70	69.10	Slight	0.0	
MW-2	12/02/91		12.04	68.76	Slight	0.0	
MW-3	06/19/89	79.60	10.99	68.61	No	0.0	
MW-3	07/18/89		11.05	68.55	Yes	0.0	
MW-3	08/08/89		11.07	68.53	Yes	0.0	
MW-3	09/11/89		11.02	68.58	Yes	0.0	
MW-3	10/10/89		11.08	68.52	Yes	0.0	
MW-3	01/05/90		10.97	68.63	No	0.0	
MW-3	03/02/90		10.91	68.69	Yes	0.0	
MW-3	05/31/90		10.23	69.37	No	0.0	
MW-3	08/28/90		11.02	68.58	No	0.0	
MW-3	11/16/90		11.17	68.43	No	0.0	
MW-3	02/21/91		11.12	68.48	No	0.0	
MW-3	05/30/91		11.10	68.50	No	0.0	
MW-3	08/06/91		11.12	68.48	No	0.0	
MW-3	10/30/91		10.93	68.67	No	0.0	
MW-3	12/02/91		11.11	68.49	No	0.0	

TABLE 4 (cont'd). GROUNDWATER MONITORING WELL INFORMATION

Shell Oil Company Site
500 40th Street
Oakland, California

Well No.	Date Monitored	Well Elevation (ft msl)	Depth to Water (ft bgs)	Water Table Elevation (ft msl)	Petroleum Odor in Water	Floating Product Thickness (inches)	Comments
MW-4	06/19/89	81.00	12.18	68.82	No	0.0	
MW-4	07/18/89		12.21	68.79	No	0.0	
MW-4	08/08/89		12.23	68.77	No	0.0	
MW-4	09/11/89		12.26	68.74	No	0.0	
MW-4	10/10/89		12.28	68.72	No	0.0	
MW-4	01/05/90		12.25	68.50	No	0.0	
MW-4	03/02/90		11.63	69.37	No	0.0	
MW-4	05/31/90		11.52	69.48	No	0.0	
MW-4	08/28/90		12.26	68.74	No	0.0	
MW-4	11/16/90		12.40	68.60	No	0.0	
MW-4	02/21/91		12.17	68.83	No	0.0	
MW-4	05/30/91		12.18	68.82	No	0.0	
MW-4	08/06/91		12.36	68.64	No	0.0	
MW-4	10/30/91		12.02	68.98	No	0.0	
MW-4	12/02/91		12.28	68.72	No	0.0	
MW-5	10/10/89	81.50	11.08	70.42	No	0.0	
MW-5	01/05/90		12.96	68.54	No	0.0	
MW-5	03/02/90		12.66	68.84	No	0.0	
MW-5	05/31/90		12.39	69.11	No	0.0	
MW-5	08/28/90		12.94	68.56	No	0.0	
MW-5	11/16/90		13.05	68.45	No	0.0	
MW-5	02/21/91		12.86	68.64	No	0.0	
MW-5	05/30/91		12.88	68.62	No	0.0	
MW-5	08/06/91		13.02	68.48	No	0.0	
MW-5	10/30/91		12.73	64.77	No	0.0	
MW-5	12/02/91		12.97	68.53	No	0.0	
OMW-6	01/05/90	77.90	10.23	67.67	No	0.0	
OMW-6	03/02/90		9.40	68.50	No	0.0	
OMW-6	06/01/90		9.81	68.09	Yes	0.0	
OMW-6	08/28/90		10.18	67.72	Yes	0.0	
OMW-6	11/16/90		10.70	67.20	Yes	0.0	
OMW-6	02/21/91		10.10	67.80	Yes	0.0	
OMW-6	05/30/91		10.00	67.90	Yes	0.0	
OMW-6	08/06/91		10.71	67.19	Strong	0.0	
OMW-6	10/30/91		10.50	67.40	Strong	0.0	
OMW-6	12/02/91		NM	NM	Strong	0.0	

Table 1. **Historical Groundwater Analytical Data - Halogenated Volatile Organic Compounds** Former Shell Service Station, Incident No.97093400, 500 40th Street, Oakland, California

Sample ID	Sample Date	1,1-Dichloroethane	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene	Chloroform	Tetrachloroethene	Bromomethane
		← parts per billion →						
EW-1	11/17/93	0.69	6.8	2.4	5.5	<0.50	<0.50	<0.50
MW-4	11/17/93	<0.5	3.5	<0.5	2.5	1.3	36	<0.50
MW-5	11/17/93	<0.5	1.2	<0.5	2.0	1.0	34	<0.50
MW-8	11/17/93	<1.0	1.1	<1.0	1.8	1.1	50	<1.0
	3/16/06	<0.500	<0.500	<0.500	<0.500	3.23	17.1	<0.500
OMW-10	11/17/93	<0.5	3.9	<0.50	1.7	<0.5	1.9	<0.50
OMW-12	11/17/93	<10	11	<10	13	<10	**400**	<10
OMW-9	11/18/93	<0.5	0.68	<0.50	<0.50	<0.5	<0.5	<0.50
	3/16/06	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.570
OMW-11	11/18/93	<10	42	<10	40	<0.5	**380**	<10
OMW-13	11/18/93	<10	<10	<10	<10	<10	<10	<10
	3/27/06	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
MW-2	3/16/06	<0.500	<0.500	<0.500	<0.500	<0.500	1.24	<0.500
MW-3	3/16/06	<0.500	1.57	<0.500	1.31	<0.500	7.59	<0.500
OMW-6	3/16/06	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
ESL[1]		**47**	**590**	**200**	**360**	**330**	**120**	**160**

Abbreviations and Notes:

1993 - Halogenated volatile organic compounds analyzed by EPA Method 8010; all detected constituents tabulated.

2006 - Halogenated volatile organic compounds analyzed by EPA Method 8260B; all detected constituents tabulated.

[1]**RWQCB Environmental Screening Level for sites at which groundwater is not a drinking water source**

<x = Not detected at reporting limit x.

LOG OF BORING NO. EW-1

DATE DRILLED: 6/28/90	EL: n/a	WL TAKEN: n/a	EQUIPMENT: 3.75"x 8" / 7.25"x 12" H.S.A

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/6IN.	O.V.M. (ppm)	T.P.H. (ppm)
				moist	loose	light brown	0.2' CONCRETE. Pea GRAVEL. (Fill)					
				moist	medium	black	Silty CLAY, trace Gravel.	CL				
5	1					dark gray	Gravelly CLAY.	CL		5		
				moist	medium dense	tan	Fine SAND.	SP		6		
	S				loose					2		
						tan	Fine SAND.	SP		2		
										3		
	S			slightly moist	stiff	dark gray	Silty CLAY.	CL		8		
										5		
	S			slightly moist	stiff	dark gray	Silty CLAY.	CL		9		
	2						Silty CLAY, some fine Sand.	CL		8		
10				moist	dense		Clayey GRAVEL.	GC		17		
										15		
	S				medium dense	dark gray	Clayey GRAVEL.	GC		12		
				slightly moist						14		
					very stiff	tan	Silty CLAY.	CL		16		
										7		
	S									18		
										15		
				slightly moist	very stiff	grayish brown	Silty CLAY.	CL		14		
	3									15		
15				slightly moist	very stiff	tan	Silty CLAY, trace Gravel.	CL		11		
										10		
	S									14		
										18		
				slightly moist	hard	tan	Silty CLAY, trace Gravel.	CL		20		
										10		
	S									15		
										19		
				slightly moist	very stiff	light brown	Silty Clay, tr fine Sand.	CL		21		
	4									7		
20				slightly moist	hard	brown	Silty CLAY.	CL		18		

SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-20

Converse Environmental West

Drawing No.
A-5

ATTACHMENT 5

LOG OF BORING NO. EW-1

continued - page 2

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/6IN.	O.V.M. (ppm)	T.P.H. (ppm)
							Silty CLAY.	CL		7		
	S			slightly moist						19		
				moist	hard	reddish brown	Silty CLAY, trace Gravel. Last 2" Clayey Sandy Gravel.	CL		20 22		
							Sandy GRAVEL, some Silt, trace Clay.	GM		12		
	S									17		
							0.2' Sandy CLAY.			20		
				very moist	dense	reddish brown	Sandy GRAVEL, some Silt.	GM		22		
	S						Gravelly CLAY.	GC		5		
25				wet	medium dense	brown	Sandy GRAVEL, some Clay, some Silt.	GM		11 12		
	S						Gravelly SAND, some Silt.	GC		15		
							Increasing Gravel.			17		
				wet	dense	brown	Sandy GRAVEL, some Silt.	GM		18		
	S									12		
										18		
				wet	medium dense	brown	Silty SAND, some Gravel, trace Clay.	SC/GC		20 22		
	S			wet			Fine to coarse Sandy Fine to coarse GRAVEL.	GM		15		
30					dense	brown				23		
	S									15		
					dense		Increasing Gravel.			16		
				wet		brown	Sandy GRAVEL.	GP		19 24		
	S									17		
						brown	Sandy GRAVEL.	GP		18		
					v stiff	brown	Silty CLAY, tr fine Sand.	CL		20		
				wet						23		
	S						Sandy GRAVEL.	GP		17		
				wet			Fine to medium GRAVEL, some Sand, some Clay.	GP		22		
35										22		
	S									20		
				wet		brown				14		
						rusty red	GRAVEL, little SAND.	GP		17		
										16		
	S					rd brn	Silty fine SAND.	SM		22		
				moist			Fine SAND and GRAVEL, some Silt.	GP		50/5"		
					very dense							
	S									16		
40				moist	very dense	brown	Silty Sandy GRAVEL.	GM		24		

SHELL OIL COMPANY
500 40th Street
Oakland, California

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Converse Environmental West

Drawing No.
A-6

LOG OF BORING NO. EW-1

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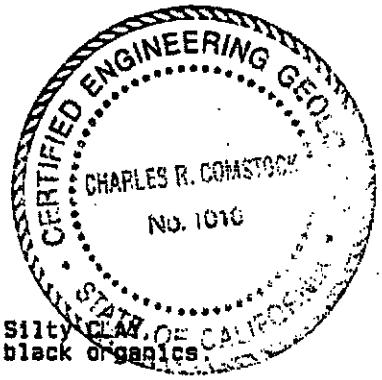
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/6IN.	O.V.M. (ppm)	T.P.H. (ppm)
	S			moist			Sandy CLAY, some GRAVEL.	CL		12		
										13		
	S					brown				27		
					hard		Sandy CLAY, some GRAVEL.	CL		29		
										6		
	S						Gravelly SAND, some Clay.	SC		23		
										33		
				moist						60		
45					very dense	brown						
	S									6		
50				slightly moist	very stiff	tan	Silty CLAY, black organics	CL		14		
										12		
	S									16		
										19		
				slightly moist	very stiff	tan	Silty CLAY.	CL		22		
										10		
	S									15		
						reddish brown	Silty CLAY.	CL		20		
				slightly moist	hard		Sandy CLAY.	CL		26		
55							Total Depth of Boring: 44 ft Below Ground Surface.					
							Casing: blank 4" ID schedule 40 PVC pipe.					
							Screen: slotted 4" ID schedule 40 PVC pipe. (0.020" slot)					
							Filter Pack: 12/20 Sand.					
60												



SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-20

Converse Environmental West

Drawing No.
A-7

LOG OF BORING NO. MW-2

DATE DRILLED: 5/22/89	ELEVATION:	WL TAKEN: 05-22-89	EQUIPMENT: 8"x 3-3/4" & 12"x 8"

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				moist	loose	brown	SANDY GRAVEL (Fill)	SP-GP				
					soft	black	GRAVELLY CLAY Glass and brick fragments and asphalt fragments	CL				
5	D			moist	stiff		SILTY CLAY	CL		11		
				moist	stiff	tan mottled gray rust	Trace gravels			33		
						brown				48		
10	D					black	SILTY CLAY Some fine sand	CL		15		
					dense	gray	SANDY GRAVEL Trace silt	GM		73		
					stiff	mottled tan rust	SILTY CLAY	CL		36		
15	D				medium dense		Fine SANDY GRAVEL (angular)	GP		13		
					medium dense	gray mottled rust	SILTY CLAY Lenses sand	CL		31		
				wet	loose	tan	GRAVELLY SAND	SP		23		
20				very moist	loose	gray	SILTY CLAY	CL		10		

SHELL OIL COMPANY
500 40th treet
Oakland, California

Project No.
88-44-361-01

Converse Environmental Consultants California

Drawing No.
A-1

LOG OF BORING NO. MW-2

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DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				very moist	medium	tan mottled rust	SILTY CLAY and fine SAND CL		14		
									53		
						brown	SILTY CLAY Lenses sand				
									30		
25							Bottom of Hole at 25 ft.				
30											
35											
40											

REGISTERED PROFESSIONAL GEOLOGIST
Douglas W. Charlton
No. 4110
STATE OF CALIFORNIA

SHELL OIL COMPANY
500 40th treet
Oakland, California

Project No.
88-44-361-01

Converse Environmental Consultants California

Drawing No.
A-2

LOG OF BORING NO. MW-3

DATE DRILLED: 5/23/89	ELEVATION:	WL TAKEN: 5/23/89	EQUIPMENT: 8"x 3-3/4" & 12"x 8"

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				moist	loose	brown	SANDY GRAVEL (Fill)	GP				
				moist	stiff	black mottled tan	SILTY CLAY	CL				
5	D									13		
						tan mottled rust						
					medium dense		GRAVEL LENS	GP		38		
					stiff		SILTY CLAY Trace gravel	CL				
	D									32		
						gray mottled tan						
10	2									12		
										49		
					medium dense	tan	Fine SAND with angular GRAVEL some silt	GM				
					stiff	tan mottled gray	SILTY CLAY Trace gravel	CL		40		
	D			very moist			Some fine sand			13		
15				wet		tan mottled rust	LENS SANDY CLAY	GC				
				very moist			SILTY CLAY	CL		28		
										27		
					very stiff					17		
20				moist	very stiff	tan	SILTY CLAY Bottom of Hole at 21 ft.	CL		45		

REGISTERED PROFESSIONAL ENGINEER — Douglas W. Charlton No. 4110 — STATE OF CALIFORNIA — 06151

SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-01

Converse Environmental Consultants California

Drawing No.
A-3

LOG OF BORING NO. MW-4

DATE DRILLED: 5/23/89	ELEVATION:	WL TAKEN: 5/23/89	EQUIPMENT: 8"x 3-3/4" & 12"x 8"

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				moist	loose medium	brown	GRAVELLY SAND (Fill)	GP-SP				
						black	SILTY CLAY and GRAVELS Decreasing gravel	CL				
5	D					tan mottled rust	SILTY CLAY Trace gravel			10 38		
	D				stiff	brown mottled rust				45		
	2									19		
10					medium dense		SANDY GRAVEL Trace silt.	GM		39		
						tan	LENS CLAY	CL				
						gray	LENS GRAVEL	GM				
				wet	medium	tan	SILTY CLAY and fine SAND	CL		19		
	D				medium dense		SANDY GRAVEL and SILT	GM		24		
15				very moist	stiff		SILTY CLAY some GRAVEL	CL				
					medium					36		
				very moist		tan mottled rust				17		
							Increasing SAND					
20							Bottom of Hole: 20 ft.					

REGISTERED PROFESSIONAL ENGINEER
Douglas W. Chantland
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STATE OF CALIFORNIA

SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-01

Converse Environmental Consultants California

Drawing No.
A-4

LOG OF BORING NO. MW-5

DATE DRILLED: 9-19-89	ELEVATION:	WL TAKEN: 9-19-89	EQUIPMENT: 8"x 12" Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	O.V.M. (ppm)	T.P.H. (ppm)
				slightly moist	medium dense	dark brown	Gravelly SAND and SILT some rubble (Fill)					
					medium		Sandy SILT increasing Clay	ML				
	1					brown	Silty CLAY trace Sand, trace Gravel	CL		9	0	
5												
	2					brown mottled gray	Silty CLAY and fine SAND black tubelets	CL		11	0	
10												
	3			moist	medium	light brown mottled rust and gray	Sandy CLAY som Silt	CL		14	0	
15	4			moist	medium		Fine Sandy CLAY and SILT	CL		15	0	
				very moist								
				wet								
20							Total Depth of Boring: 20 ft. Below Ground Surface					

SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-01

Converse Environmental Consultants California

Drawing No.
A-2

LOG OF BORING NO. OMW-6

DATE DRILLED: 10-16-89	ELEVATION:	WL TAKEN: n/a	EQUIPMENT: 3 3/4"x 8" Hollow-Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	O.V.M. (ppm)	T.P.H. (ppm)
				moist	loose	light brown	Gravelly SAND (Fill).	SW				
				moist	medium	dark black	Silty CLAY, trace Gravel. Slight petroleum odor.	CL			2.6	
5	1			moist	medium	olive mottled black	Silty CLAY, decreasing Gravel. Slight petroleum odor.	CL		14	0	
10	2			moist	medium	olive brown mottled gray	Sandy CLAY, some Silt. Trace shell fragments. Strong petroleum odor.	CL		10	82	
15	3			moist	medium		Black tubelets.	CL		10	0	
		▽				tan brown						
20	4			wet	stiff		Silty CLAY, trace Sand.	CL		20	0	

REGISTERED PROFESSIONAL GEOLOGIST
Douglas W. Charlton
No. 4110
STATE OF CALIFORNIA

SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-01

Converse Environmental West

Drawing No.
A-4

LOG OF BORING NO. OMW-6

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DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	O.V.M. (ppm)	T.P.H. (ppm)
				wet	stiff	tan brown	Silty CLAY, trace Sand. CL			0	
							Silty CLAY.				
25				moist	stiff	lt brown	Sandy CLAY lens. No odor. CL		8	0	
							Total Depth of Boring: 25 ft Below Ground Surface.				
30											
35											
40											

REGISTERED PROFESSIONAL GEOLOGIST
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SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-01

Converse Environmental West

Drawing No.
A-5

LOG OF BORING NO. MW-8

DATE DRILLED: 6/27/90	EL: n/a	WL TAKEN: n/a	EQUIPMENT: 3.75"x 8" / 7.25"x 12" H.S..

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/6IN.	O.V.M. (ppm)	T.P.H. (ppm)
				moist	loose	light brown	Gravelly SAND. (Fill)	SW				
				moist	medium	black	Silty CLAY, trace Gravel.	CL				
5	1			slightly moist	very stiff	brownish gray	Silty CLAY.	CL		7 10		
10	2			slightly moist	very stiff	light gray	Silty CLAY.	CL		6 11		
15	3			moist	very stiff	grayish brown	Silty CLAY, trace coarse Gravel.	CL		5 12		
20	4			very moist	very stiff	reddish brown	Silty CLAY.	CL		12 11		

CERTIFIED ENGINEERING GEOLOGIST
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SHELL OIL COMPANY
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Project No.
88-44-361-20

Converse Environmental West

Drawing No.
A-2

LOG OF BORING NO. MW-8

continued - page 2

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/6IN.	O.V.H. (ppm)	T.P.H. (ppm)
	S			wet						10		
	S			wet	very stiff	light brown	Silty CLAY, trace fine Sand.	CL		10 20 21		
	S			wet	m dense		SAND and CLAY, some Gravel.	SC		10 11		
							Sandy GRAVEL, some CLAY.	GC		13		
	S			wet	stiff	light brown	Sandy CLAY, trace Gravel.	CL		14 10		
25	S			wet	medium dense	tan	Sandy fine to coarse GRAVEL, some Clay, some Silt.	GC		15 12 15 18		
	S			wet	medium dense	tan	Fine to coarse Sandy fine to coarse GRAVEL, trace Clay, trace Silt.	GP		18 4		
	S				loose					8 10		
	S			wet	medium dense		Sandy GRAVEL.	GP		12 30		
30	S			wet	very dense		Silty SAND and GRAVEL, trace Clay.	GM		27 8		
	S				dense	tan				17 25		
	S			wet	loose d=33.75 medium dense		Sandy GRAVEL, some Silt, trace Clay.	GM		27 5 4 3		
	S			wet			Sandy GRAVEL, some Silt.	GM		18 10		
35	S			wet	dense	tan	Sandy fine to very coarse Gravel, some SILT.	GM		16 15		
	S			wet	dense		Sandy GRAVEL, some Silt.	GM		25 13		
	S			moist		tan	Fine SAND and Silt, some Clay.	SM		14 8 8 7		
	S			moist	stiff	tan	Silty CLAY, tr fine Sand.	CL		14		
						tan	Gravelly SAND, little Clay.	GC		35		
40				moist	hard	brn gry	Silty CLAY, trace Gravel, trace fine Sand.	CL		32		

SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-20

Converse Environmental West

Drawing No.
A-3

LOG OF BORING NO. MW-8

continued - page 3

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/6IN.	O.V.M. (ppm)	T.P.H. (ppm)
							Silty CLAY.	CL		12		
	S			slightly moist						14		
										16		
				slightly moist	hard	tan	Silty CLAY, trace fine Gravel.	CL		21		
	S									8		
										10		
				slightly moist	very stiff	tan	Silty CLAY, some Sand.	CL		15		
										17		
45							Total Depth of Boring: 44 ft Below Ground Surface.					
							Casing: blank 4" ID blank schedule 40 PVC Pipe.					
							Screen: slotted 4" ID schedule 40 PVC Pipe. (0.020"slot)					
							Filter Pack: 2/12 Sand.					
50												
55												
60												

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Project No.
88-44-361-20

Converse Environmental West

Drawing No.
A-4

LOG OF BORING NO. OMW-9

DATE DRILLED: 10-17-89	ELEVATION:	WL TAKEN: n/a	EQUIPMENT: 3 3/4"x 8" Hollow-Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		BLOWS/FT.	O.V.M. (ppm)	T.P.H. (ppm)
0–1			moist	loose	light brown	Silty SAND and GRAVEL. (Fill)	SM/GM			
1–4			moist	medium	black	Silty CLAY, trace fine Sand.	CL			
4–9	1		moist	medium	dark olive	Fine Sandy CLAY, trace Gravel. Petroleum odor.	CL	15	0	
9–14.5	2		slightly moist	stiff	light olive	Fine Sandy CLAY, some angular Gravel. Strong Petroleum odor.	CL	11	126	
14.5–19	3		slightly moist	stiff	tan brown	Fine Sandy CLAY, trace Gravel, mottled gray.	CL	13	0	
19–19.5	4		wet	loose	lt. brwn	F. SAND and GRAVEL lens.	SP/GP	25	0	
19.5–20			moist	medium	black	Silty CLAY, some decaying shells. No odor.	CL			

REGISTERED PROFESSIONAL

SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No. 88-44-361-01

Converse Environmental West

Drawing No. A-6

LOG OF BORING NO. OMW-9

continued - page 2

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	O.V.M. (ppm)	T.P.H. (ppm)
				moist	medium	black	Silty CLAY, some decaying shells. No odor.	CL				
25	5			very moist	medium	light tan brown	Very fine Sandy CLAY, gray mottles.	CL		18	0	
										16		
				wet	medium	light tan brown	Clayey fine SAND, thin lenses of Sandy Clay.	SC		12		
										14		
								SC		7		
30				very moist		light brown	Silty fine SAND, rust mottles.			10		
							Total Depth of Boring: 30 ft Below Ground Surface.					
35												
40												

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SHELL OIL COMPANY
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Oakland, California

Project No.
88-44-361-01

Converse Environmental West

Drawing No.
A-7

LOG OF BORING NO. OMW-10

DATE DRILLED: 11-13-89	ELEVATION:	WL TAKEN: n/a	EQUIPMENT: 3 3/4"x 8" Hollow-Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	O.V.M. (ppm)	T.P.H. (ppm)
						light brown	Silty SAND and GRAVEL baserock.	SM/GM				
				moist	medium	black	Silty CLAY, trace fine Sand, stained olive.	CL			0	
							Increasing staining.					
5	1			slightly moist	medium	dark gray	Fine Sandy CLAY, trace Gravel, stained olive. No odor.	CL		18	0	
							Increasing SAND and GRAVEL.					
10	2			slightly moist	medium	dark gray	Fine to medium Sandy CLAY, little Gravel. Mottled olive and rust stains.	CL		14	0	
						light brown					0	
15	3			moist	stiff		Silty CLAY, trace fine Sand			16		
				wet		lt. brwn.	F to m Sndy GRVL, tr Cly.	GW				
20				v. moist	medium		F. Sandy CLAY, tr. Gravel.	CL		23	0	

REGISTERED PROFESSIONAL GEOLOGIST

SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No. 88-44-361-01

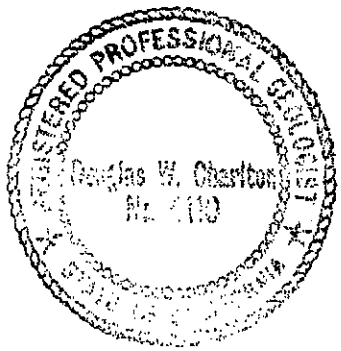
Converse Environmental West

Drawing No. A-8

LOG OF BORING NO. OMW-10

continued - page 2

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	O.V.H. (ppm)	T.P.H. (ppm)
				v. moist		lt. brwn.	F. Sandy CLAY, tr. Gravel. CL		22		
				moist			Clayey f. SAND, lt. Grvl. SC				
				moist	medium		F. Sandy CLAY, lt. Gravel. CL		25	0	
				v. moist	m. dense	lt. brwn.	Fine Sandy GRAVEL. GP				
	P			moist	medium	gray brown	Fine Sandy CLAY. CL Fine Sandy CLAY, rust stains.		7 10	0	
25							Total Depth of Boring: 24 ft Below Ground Surface.				
30											
35											
40											



SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-01

Converse Environmental West

Drawing No.
A-9

LOG OF BORING NO. OMW-11

Start: *11/21/91* Completion: *11/21/91* Water Measure: *11/22/91*	Geologist: *C. Brown* Assistant Geol.: *N/A* Drilling Co.: *A.T.D.*	Driller/Helper: *N/A* Drilling Method: *Hollow Stem Auger* Auger/Bit Dia.: *3.75" x 8" - 7.25" x 13"*

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION		MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS/6"	PERCENT RECOVERY
					8" Concrete, 7" Base				gray brown		
							moist	dense			
					Silty Clay	CL		stiff	black		
	S									4	
5	1						moist	stiff	brown	9	
	S				Clayey Sand, little fine Gravel	SC	moist	medium dense	gray with rust	5	
	2									13	
10	S									10	
	S									14	
	SPT 1						moist to very moist			16	
										18	
										9	
	3									11	
	S									14	
										18	
					Slightly Clayey, coarse Sand, trace to little fine Gravel	SP/SC	wet	loose		5	
15	S									5	
	S				Fine Sandy Clay	CL	very moist	stiff	gray with rust	4	
	S									5	
										5	
	SPT 2									7	
					Clayey fine Sand	SC		medium dense		4	
										5	
					Silty fine Sand	SP/SM			brown	6	
										6	
	S				Coarse Sand and fine Gravel, trace Clay	GP/GC	wet			9	
20										20	

SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-20

Converse Environmental West

Drawing No.
A-2

LOG OF BORING NO. OMW-11

Continued - Page 2

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION		MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS/6"	PERCENT RECOVERY
	S				Clayey coarse Sand and fine Gravel	SC/GC	wet	dense	brown	11 19	
	S				Fine Gravelly coarse Sand, trace Clay	SP				21 16	
	SPT 3				Very Sandy Clay/Clayey Sand	CL/SC			rust with gray	4 5 10	
					Fine Gravelly fine to medium Sand	SP			gray	11	
25					Total Depth of Boring: 24 ft. Casing: Blank 4" ID Sch. 40 PVC Screen: Slotted 4" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand						
30											
35											
40											

REGISTERED GEOLOGIST
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SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-20

Converse Environmental West

Drawing No.
A-3

LOG OF BORING NO. OMW-12

Start: *11/20/91* Completion: *11/20/91* Water Measure: *12/2/91*	Geologist: *C. Brown* Assistant Geol.: *N/A* Drilling Co.: *A.T.D.*	Driller/Helper: *N/A* Drilling Method: *Hollow Stem Auger* Auger/Bit Dia.: *3.75" x 8" - 7.25" x 13"*

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION		MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS/6"	PERCENT RECOVERY
					≈8" Concrete, 8" Base, 6" Fill						
					6" layer Gravel						
					Silty Clay	CL	moist	stiff	black		
	S 1				trace black specks				brown	10 10	
5											
	S 2				Clayey Sand	SC	moist	medium dense	gray with rust	6 18	
10	S	▽								16	
					Fine Sandy Silt	ML				11	
	S									11	
	SPT 1				Clayey Sand, little fine Gravel	SC	very moist to wet		red brown	16	
					wet Sand lens					9	
					wet Sand lens					12	
					wet Sand lens					12	
										18	
	S				Coarse Sand, pea Gravel	SC/GC	wet			8	
	S 3				Fine Sandy Clay	CL	very moist	stiff	gray	10	
15										5	
	S								rust with gray	8	
					wet lens		wet			11	
							very moist			12	
	SPT 2									4	
										5	
					Silty Clay	CL				12	
							wet			15	
	S				Clayey Sand and fine Gravel	SC/GC	very moist	stiff		4	
20					Silty Clay	CL	moist			7	

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Project No.
88-44-361-20

Converse Environmental West

Drawing No.
A-4

LOG OF BORING NO. OMW-12

Continued - Page 2

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
	S				Silty Clay CL	moist	stiff	rust with gray	5 8	
	S								6 7	
	SPT 3				Becoming Sandy				4 5 6 8	
25					Total Depth of Boring: 24 ft. Casing: Blank 4" ID Sch. 40 PVC Screen: Slotted 4" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand					
30										
35										
40										

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SHELL OIL COMPANY
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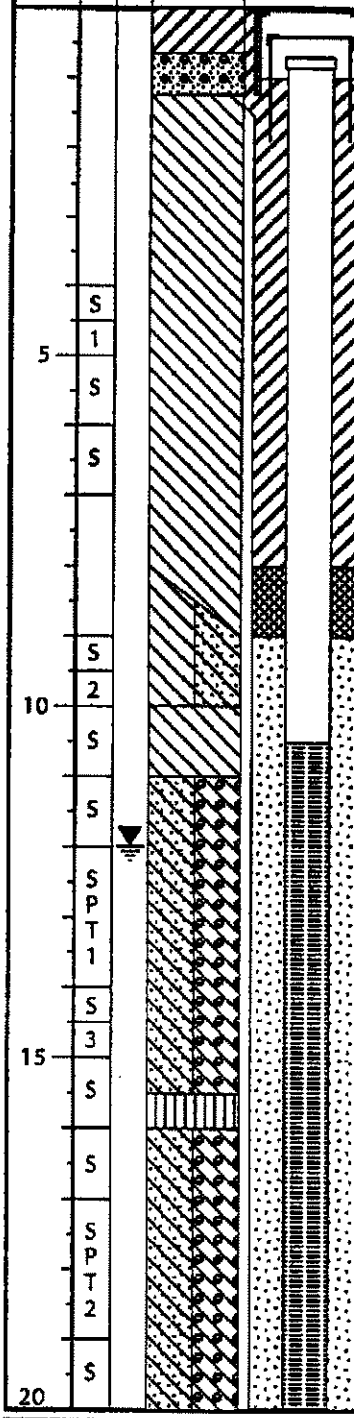
Project No.
88-44-361-20

Converse Environmental West

Drawing No.
A-5

LOG OF BORING NO. OMW-13

Start: *11/21/91*	Geologist: *C. Brown*	Driller/Helper: *N/A*
Completion: *11/21/91*	Assistant Geol.: *N/A*	Drilling Method: *Hollow Stem Auger*
Water Measure: *11/22/91*	Drilling Co.: *A.T.D.*	Auger/Bit Dia.: *3.75" x 8" - 7.25" x 13"*



DEPTH (FT)	SAMPLE	DESCRIPTION		MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
		8" Concrete, 8" Base						
		Silty Clay	CL	moist	stiff	dark gray black		
	S 1					mottled gray brown	4 8	
5	S						5 9	
	S	trace Sand				gray	12 14	
		Grading into fine Sandy Clay						
	S 2	Fine Sandy Clay/Clayey Sand	CL/SC				5 7	
10	S	Silty Clay	CL		stiff	light gray with rust	6 11	
	S	Clayey Sand and Gravel	SC/GC		dense		24 25	
	SPT 1						9 15	
	S			wet			16 20	
	S 3				medium dense		8 9	
15	S						10	
	S	Sandy Silt	ML		stiff	rust	7	
		Clayey Sand and Gravel	SC/GC			brown	12 16	
	SPT 2						12 19	
	S			wet	medium dense		23 34 10 15	
20								

SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-20

Converse Environmental West

Drawing No.
A-6

LOG OF BORING NO. OMW-13

Continued - Page 2

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
	S				Silty Clay CL	very moist	stiff	gray brown	5 8	
	S					moist			6 7	
	SPT 3				Sandy Clay with occasional Clayey Sand lens	very moist		gray with rust	4 5 6 8	
25					Total Depth of Boring: 24 ft. Casing: Blank 4" ID Sch. 40 PVC Screen: Slotted 4" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand					
30										
35										
40										

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SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-20

Converse Environmental West

Drawing No.
A-7

LOG OF BORING NO. CSB-1

DATE DRILLED: 10-17-89	ELEVATION:	WL TAKEN: n/a	EQUIPMENT: 3 3/4"x 8" Hollow-Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	BLOWS/FT.	O.V.H. (ppm)	DRY DENSITY lb/ft3	TESTS
				moist	loose	dark brown / dark gray	Gravelly SAND and SILT, some Rubble, some Asphalt. (Fill) SW				
				moist	medium	dark brown	Silty CLAY, trace Gravel, trace Sand. CL				
5	1			very moist	medium		Decreasing Gravel and Sand, bits of brick in cuttings.	8	0		
							CL				
10	2			moist	medium	light gray	Silty CLAY, some Sand and Gravel. No odor.	18	0		
						light brown	CL				
15	3			moist	medium	light brown mottled gray	Silty CLAY, some fine Sand, trace Gravel.	16	0		
20	4			moist	stiff	light brown	Fine Sandy CLAY. No odor. CL	17	0		

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SHELL OIL COMPANY
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Oakland, California

Project No.
88-44-361-01

Converse Environmental West

Drawing No.
A-2

LOG OF BORING NO.CSB-1

continued - page 2

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	BLOWS/FT.	O.V.M. (ppm)	DRY DENSITY lb/ft³	TESTS
				moist	stiff	light brown	Fine Sandy CLAY. CL No odor.				
	5				medium	light brown	Silty CLAY, water bearing lenses. No odor. CL	13	0		
25							Total Depth of Boring: 25 ft. Below Ground Surface.				
30											
35											
40											

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SHELL OIL COMPANY
500 40th Street
Oakland, California

Project No.
88-44-361-01

Converse Environmental West

Drawing No.
A-3

Conestoga - Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	SVP-1
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	26-Oct-11
LOCATION	500 40th Street, Oakland, California	**DRILLING COMPLETED**	26-Oct-11
PROJECT NUMBER	241513	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Airknife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3.5	**SCREENED INTERVALS**	NA
LOGGED BY	C. Arganbright	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	P. Schaefer PG 5612	**DEPTH TO WATER (Static)**	NA
REMARKS	Vapor point screened from 2 to 2.5 ft and 4.5 to 5ft		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.5	Bentonite Slurry with Pellet Base
					GW-GM		**GRAVEL with Silt (GP-GM)**; dark reddish brown (2.5YR 2.5/3); dry; 10% silt, 90% fine to coarse gravel.	2.5	Monterey Sand #2/12 6" Length of Stainless Steel Screen
				5	CL		**Gravelly CLAY (CL)**; black (2.5Y 2.5/1); moist; 80% clay, 20% coarse gravel; medium to high plasticity.	5.5	Bentonite Slurry with Pellet Base Monterey Sand #2/12 6" Length of Stainless Steel Screen Bottom of Boring @ 5.5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2415--\241513--1244CE9--1241513-GINT.GPJ DEFAULT.GDT 1/2/12

Conestoga - Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	SVP-2
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	25-Oct-11
LOCATION	500 40th Street, Oakland, California	**DRILLING COMPLETED**	25-Oct-11
PROJECT NUMBER	241513	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Airknife	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3.5	**SCREENED INTERVALS**	NA
LOGGED BY	C. Arganbright	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	P. Schaefer PG 5612	**DEPTH TO WATER (Static)**	NA
REMARKS	Vapor point screened from 1.8 to 2.3 ft and 4.4 to 4.9ft		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.5	
					GP-GM		**GRAVEL with Silt (GP-GM)**; dark brown (7.5YR 3/4); dry; 10% silt, 90% coarse gravel.	1.0	Bentonite Slurry with Pellet Base
				5	CL		**Gravelly CLAY (CL)**; black (2.5Y 2.5/1); moist; 80% clay, 20% coarse gravel; medium plasticity.	5.3	Monterey Sand #2/12 6" Length of Stainless Steel Screen Bentonite Slurry with Pellet Base Monterey Sand #2/12 6" Length of Stainless Steel Screen Bottom of Boring @ 5.3 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2415--241513--11244CE9--1\241513-GINT.GPJ DEFAULT.GDT 1/2/12

Former Shell Service Station
500 40th Street
Oakland, California
Incident No.97093400

CAMBRIA

Site Plan

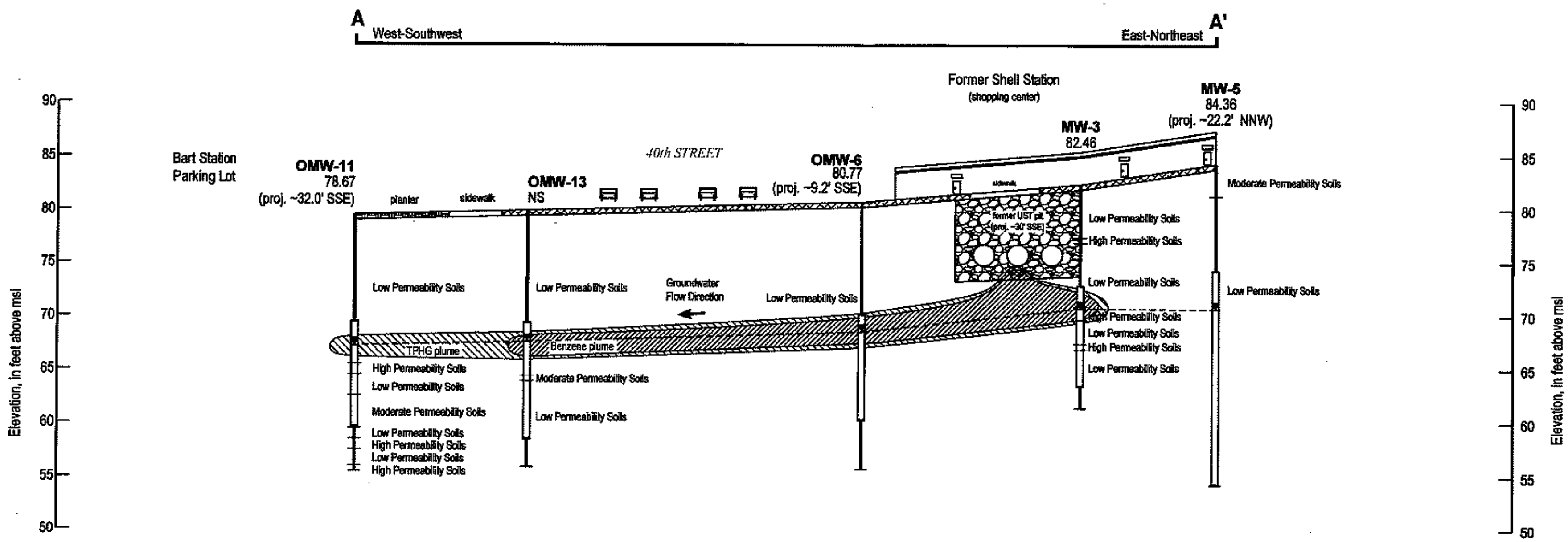
FIGURE **2**

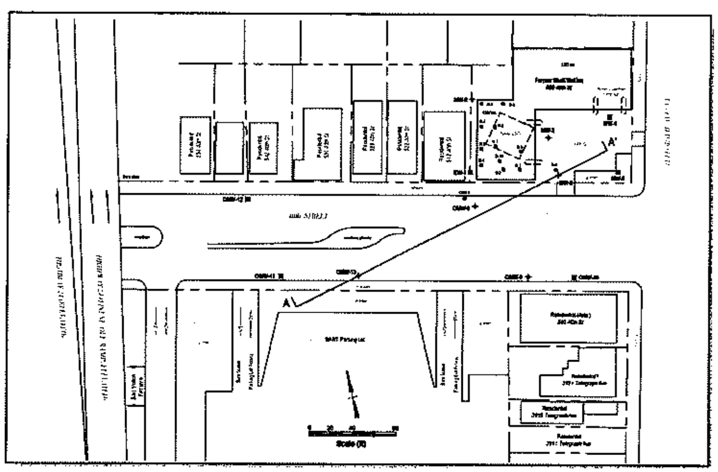
11/21/06

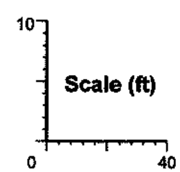
TELEGRAPH AVENUE

ATTACHMENT 6

G:\OAKLAND 500 40TH\FIGURES\SITE PLAN 11-05.DWG





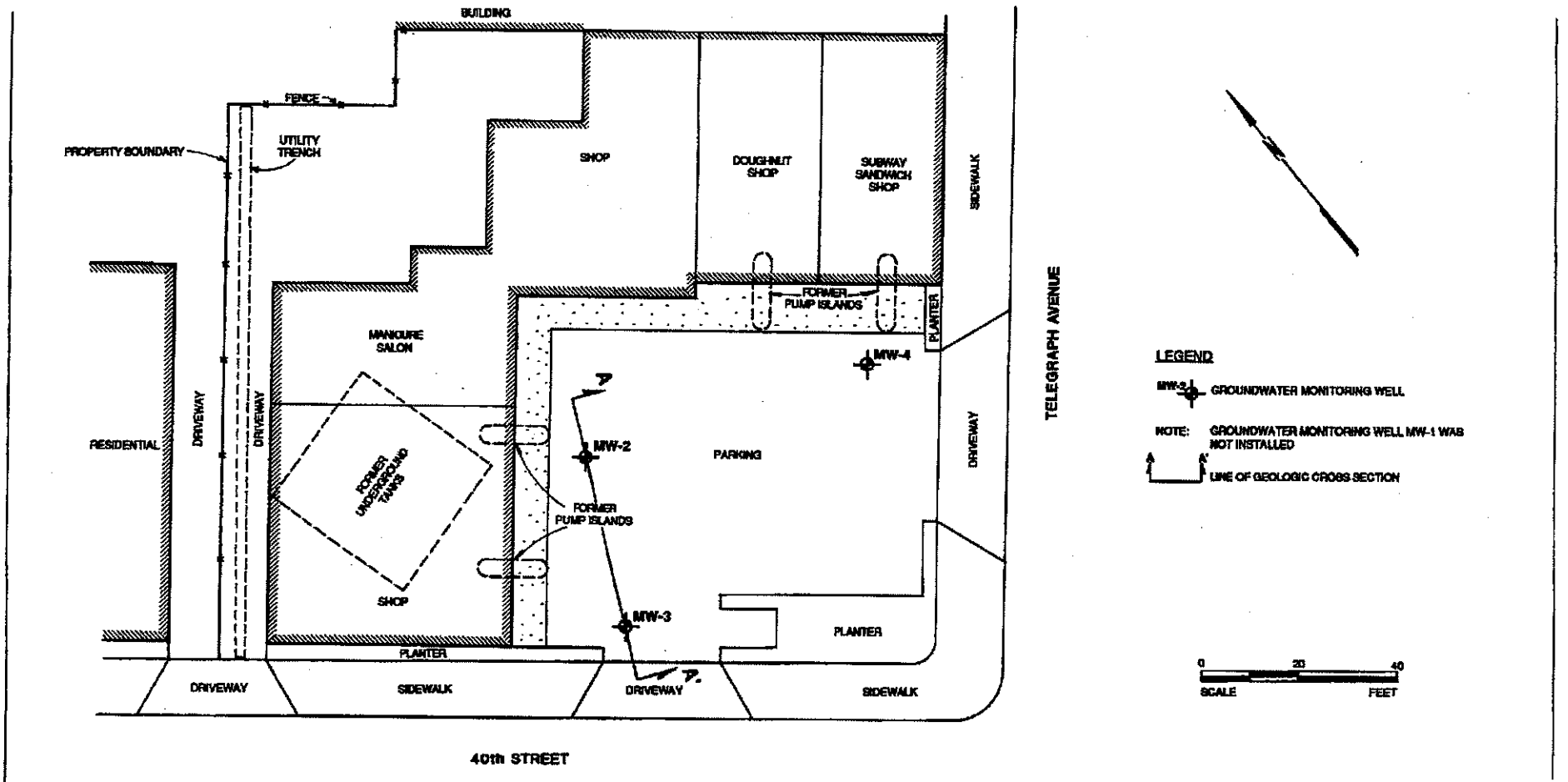


Site Conceptual Figure

CAMBRIA

FIGURE
3

Former Shell Service Station
500 40th Steet
Oakland, California
Incident No.97093400



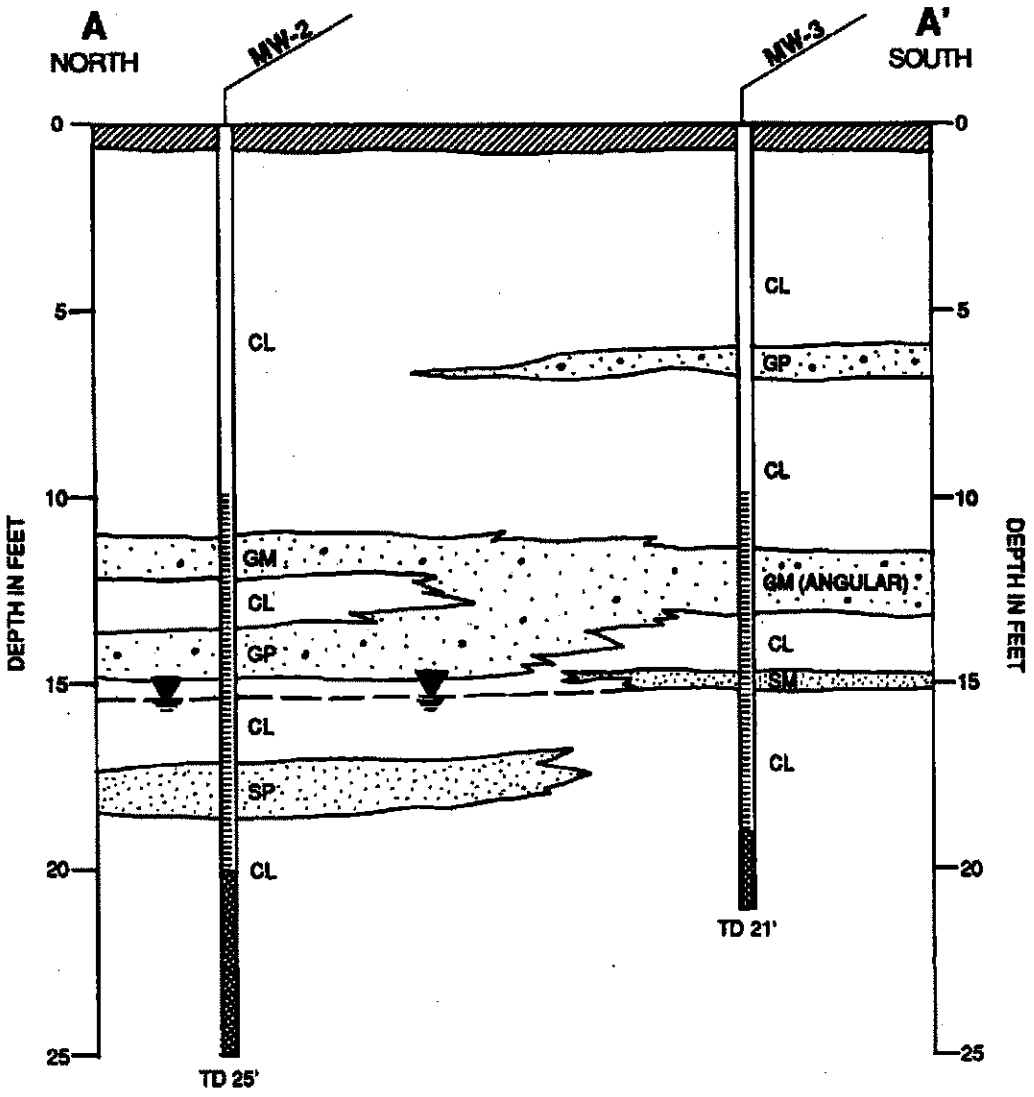
1989 PLOT PLAN

SHELL OIL COMPANY
500 40th Street
Oakland, California

Scale	AS SHOWN
Date	7/6/89
Prepared By	KSC
Checked By	RMB
Approved By	DWC
Project No.	88-44-361-01
Drawing No.	2a

Converse Environmental Consultants California

Base Map: Surveyed with EDM, Converse 1988.



LEGEND

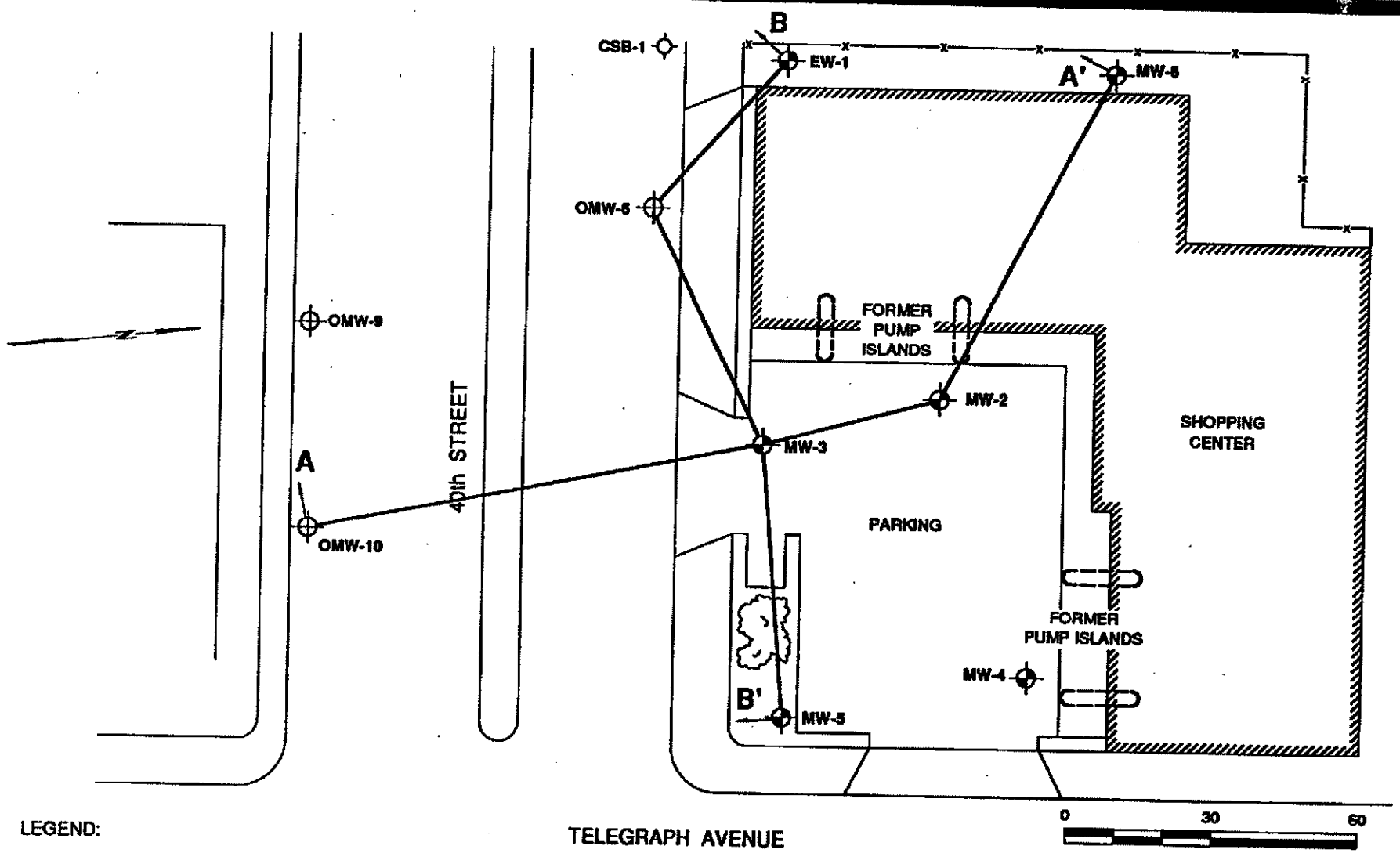
	FILL
ML	SILT
SM, SP, GM, GP	SANDS AND GRAVELS
CL	CLAY OR SILTY CLAY
	SCREEN
	BENTONITE PLUG

CROSS SECTION A-A'

SHELL OIL COMPANY
500 40th Street
Oakland, California

Converse Environmental Consultants California

Scale	AS SHOWN
Project No.	88-44-351-01
Prepared by	CRB
Date	6/22/89
Checked by	RMB
Drawing No.	7
Approved by	DWC



LEGEND:

- SB-1 ◇ SOIL BORING
- MW-1 ⊕ GROUNDWATER MONITORING WELL
- OMW-1 ⊕ OFFSITE GROUNDWATER MONITORING WELL
- A A' LINE OF GEOLOGIC CROSS SECTION

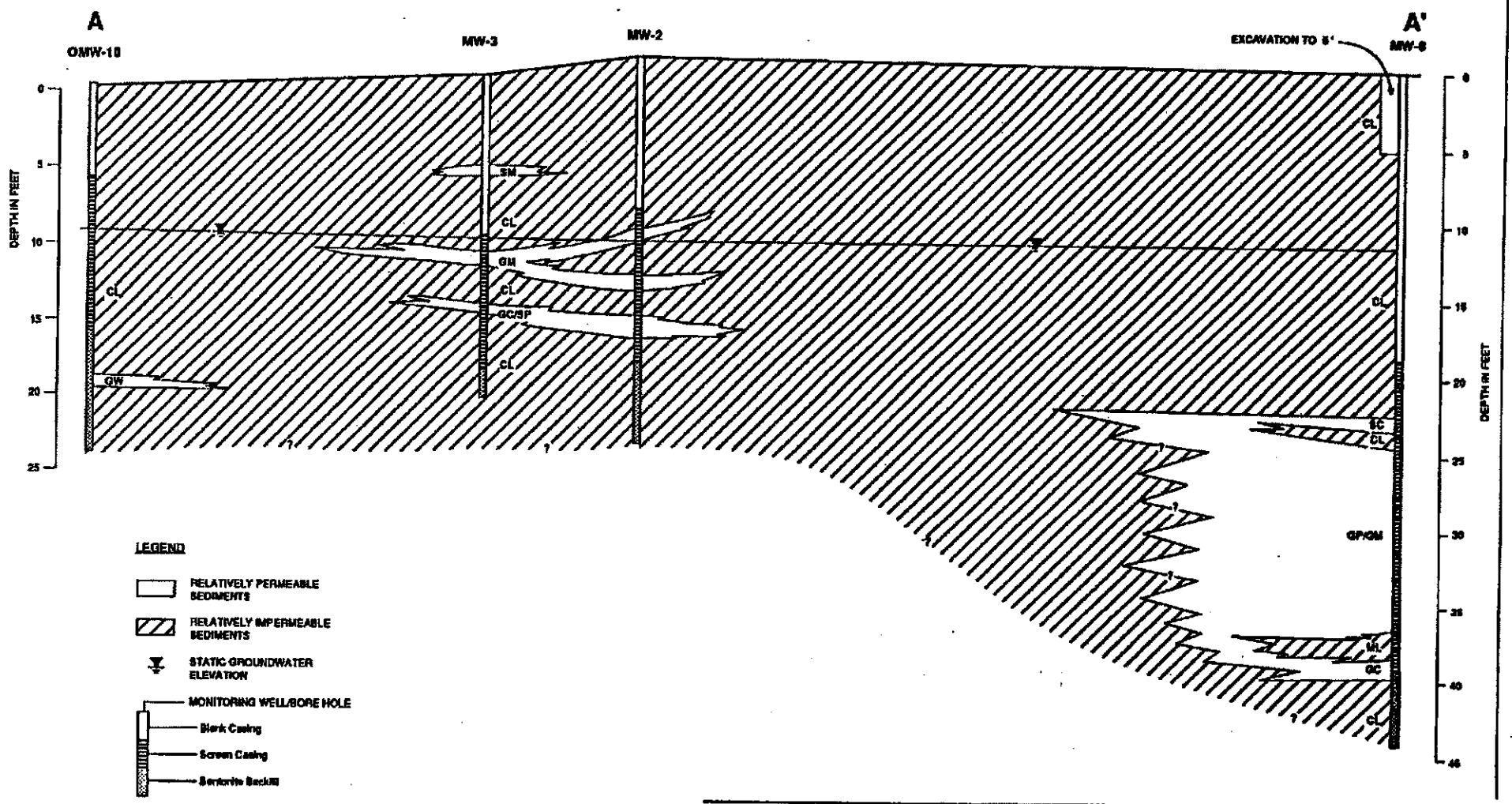
Base Map: Surveyed with Electronic Distance Meter by CEW, 1989

PLOT PLAN

SHELL OIL COMPANY
500 40th Street
Oakland, California

Converse Environmental West

Scale	AS SHOWN
Prepared by	CCH/CRB
Checked by	CCH
Approved by	BG
Project No.	88-44-361-20
Date	9/21/90
Drawing No.	2

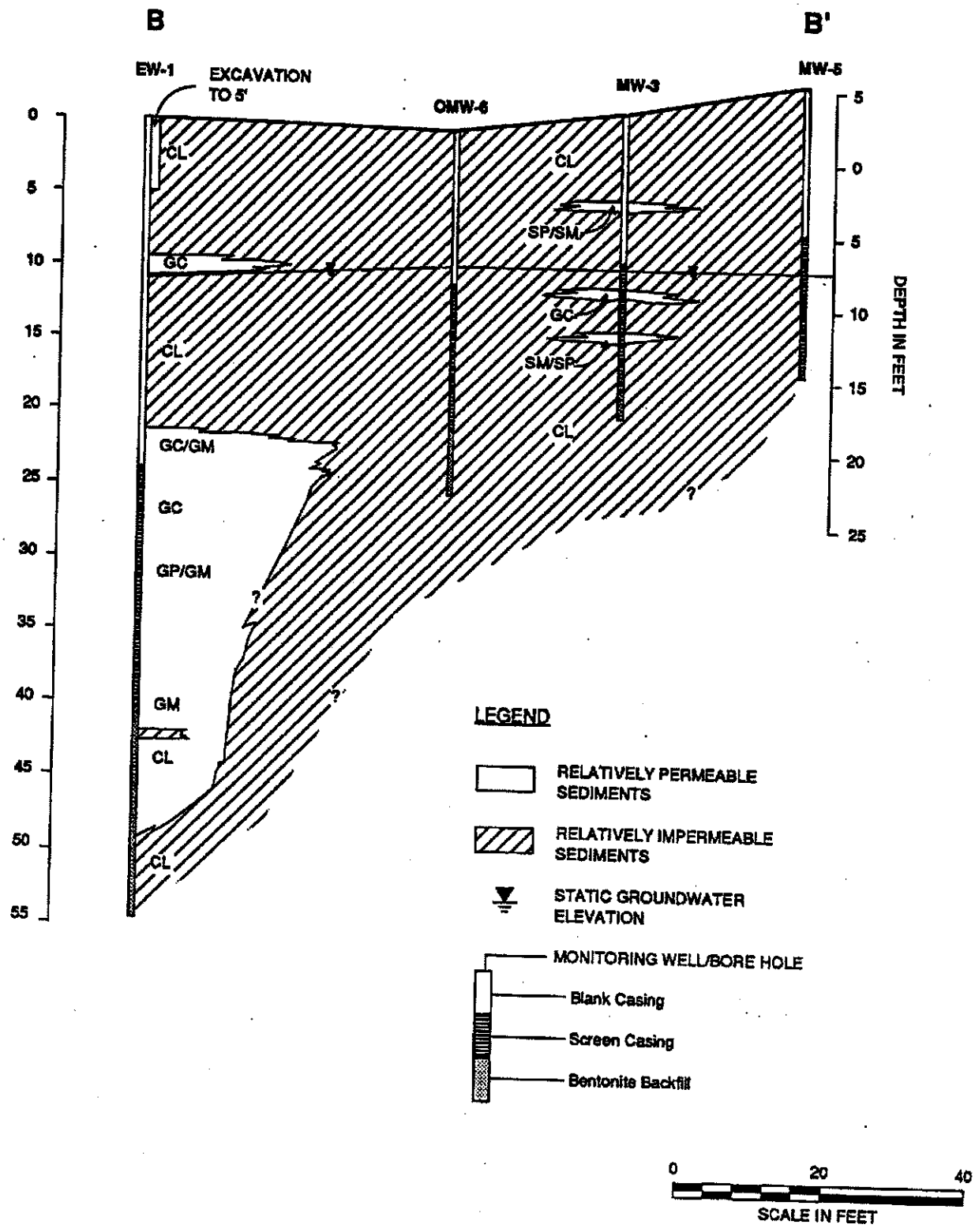


GEOLOGIC CROSS SECTION A-A'

SHELL OIL COMPANY
500 40th Street
Oakland, California

Converse Environmental West

Scale	AS SHOWN
Prepared by	DEH
Checked by	BG
Approved by	CRC
Project No.	98-44-381-20
Date	8/26/98
Drawing No.	3

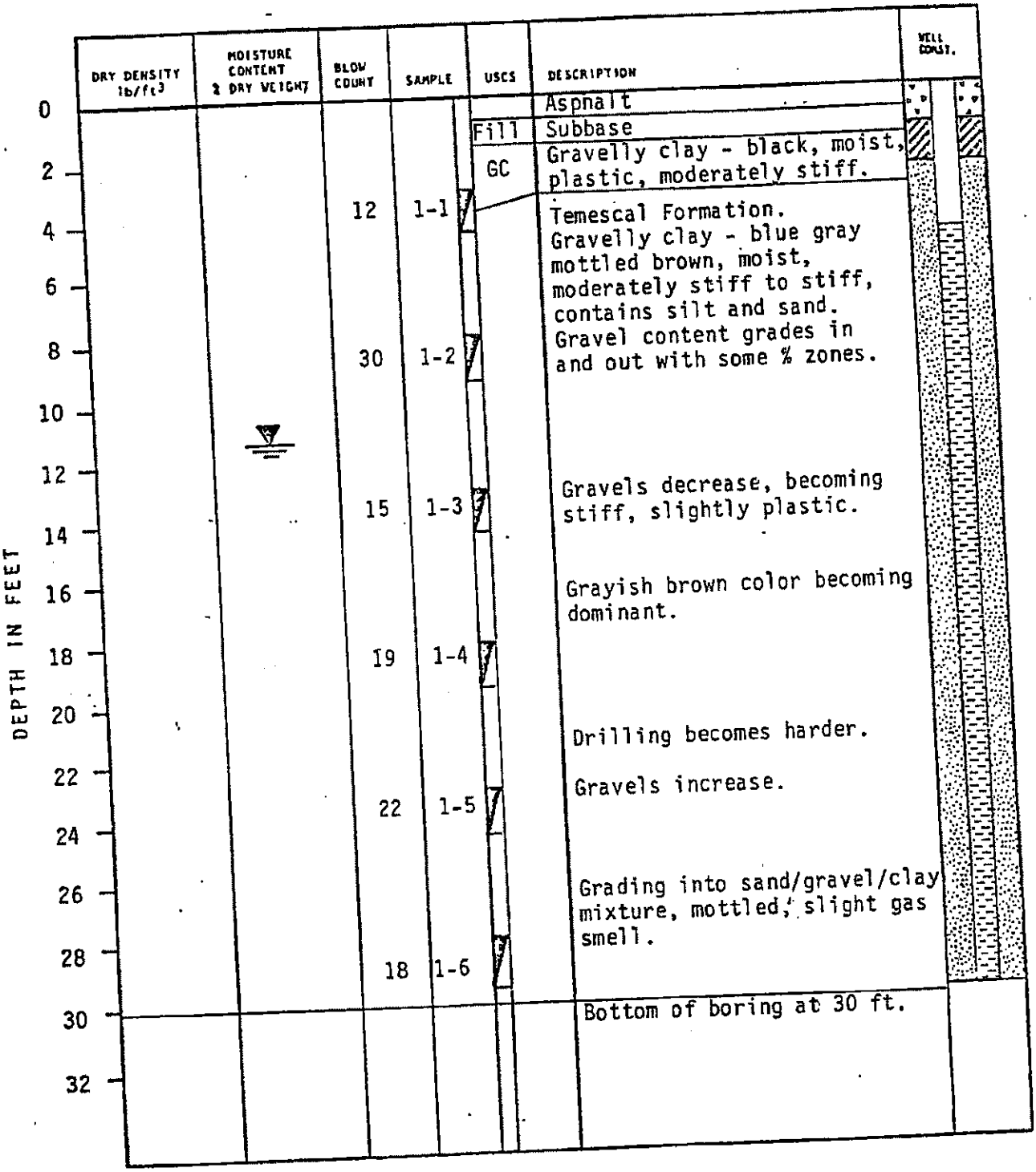


GEOLOGIC CROSS SECTION B-B'

SHELL OIL COMPANY
500 40th Street
Oakland, California

Converse Environmental West

Scale	AS SHOWN
Project No.	88-44-361-20
Prepared by	DEN/CRB
Date	6/26/90
Checked by	BG
Drawing No.	4
Approved by	CRC



J.H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL CONSULTANTS • MATERIALS TESTING

PREPARED BY: BK DATE: 7/20/82

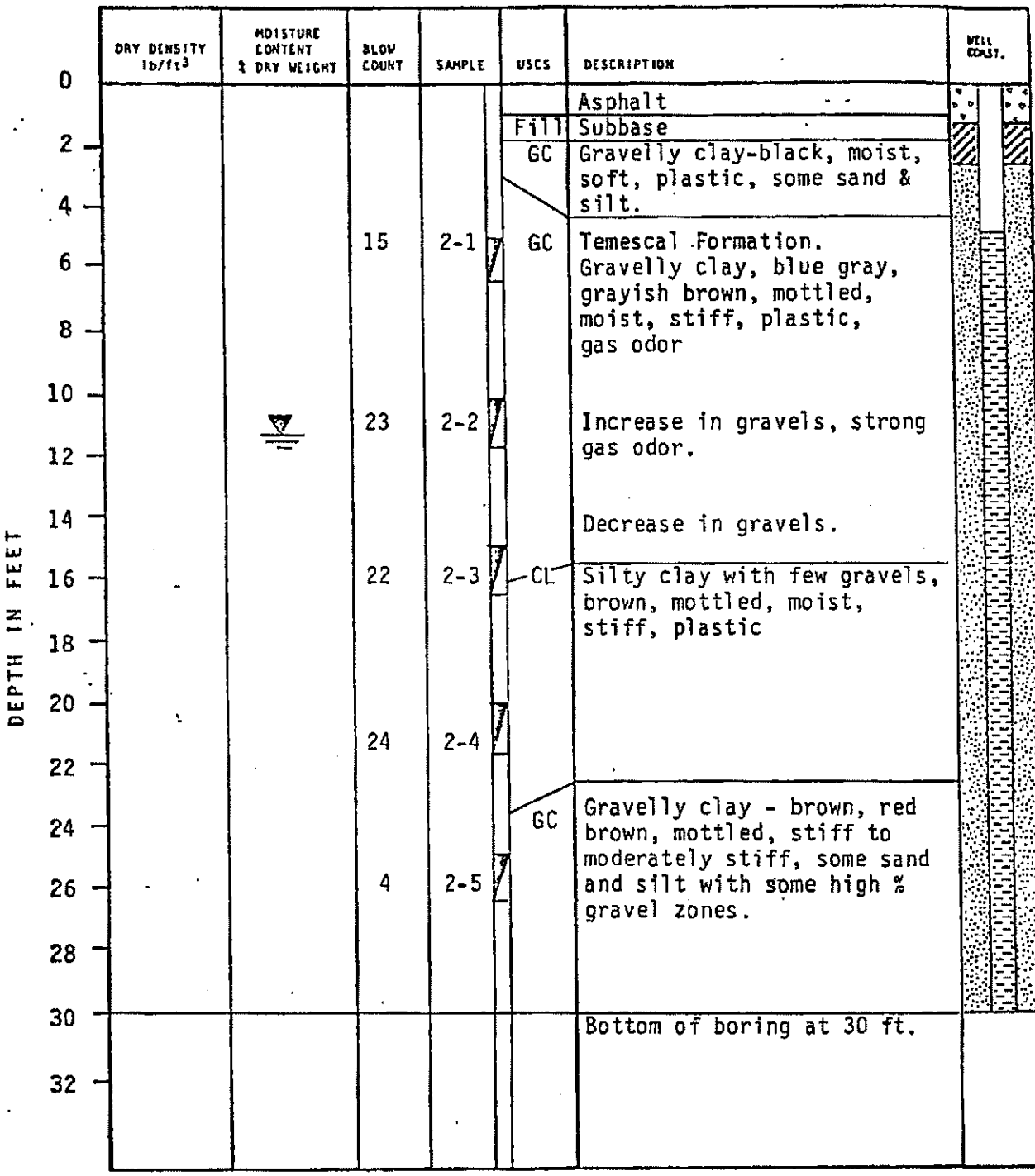
CHECKED BY: MLS DATE: 7/20/82

IT/SHELL OIL COMPANY
OAKLAND, CALIFORNIA

LOG OF BORING NO. 1

PROJECT NO. B-1232-1

PLATE 2



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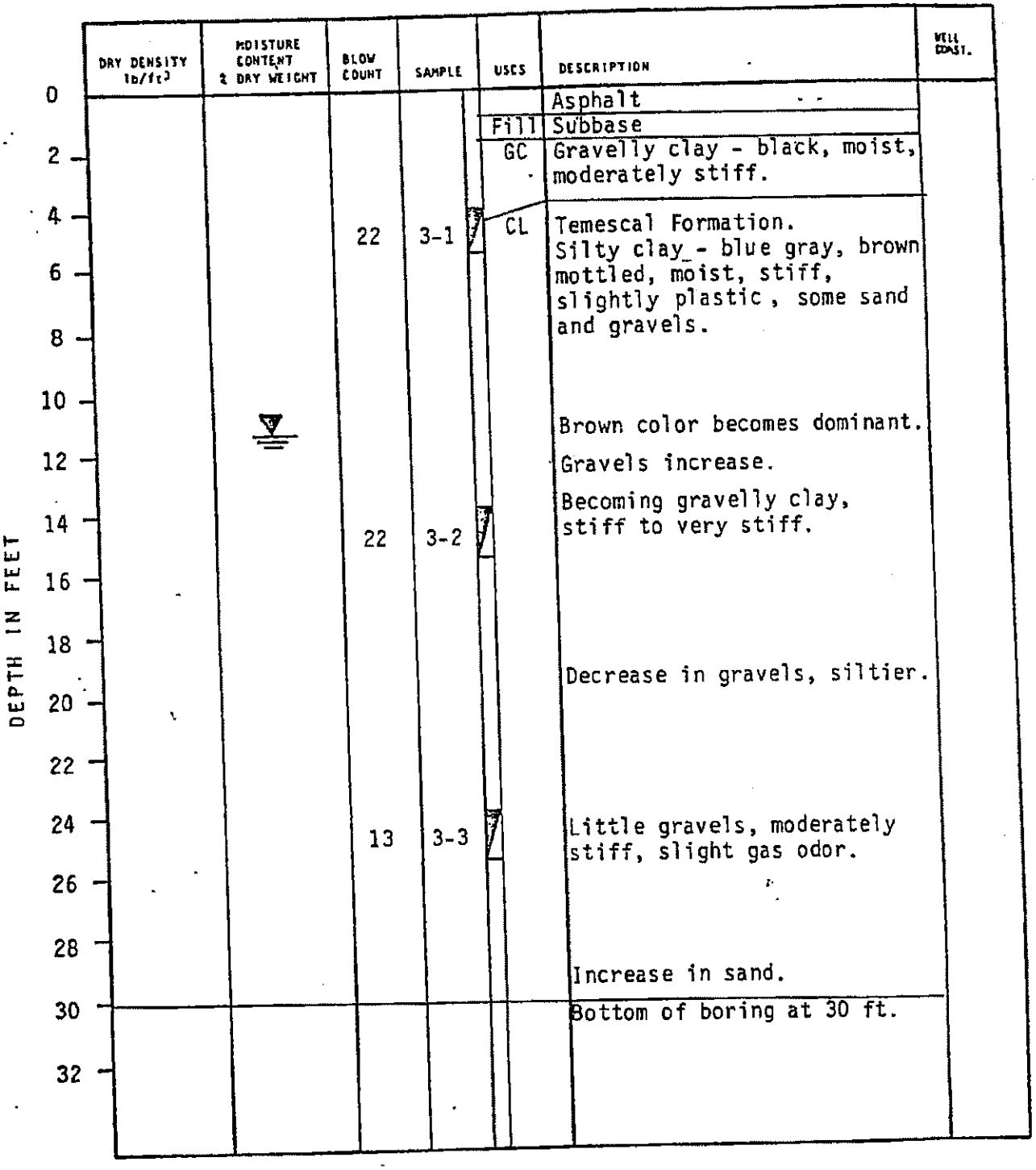
IT/SHELL OIL COMPANY
OAKLAND, CALIFORNIA

LOG OF BORING NO. 2

PROJECT NO. B-1232-1

PLATE 3



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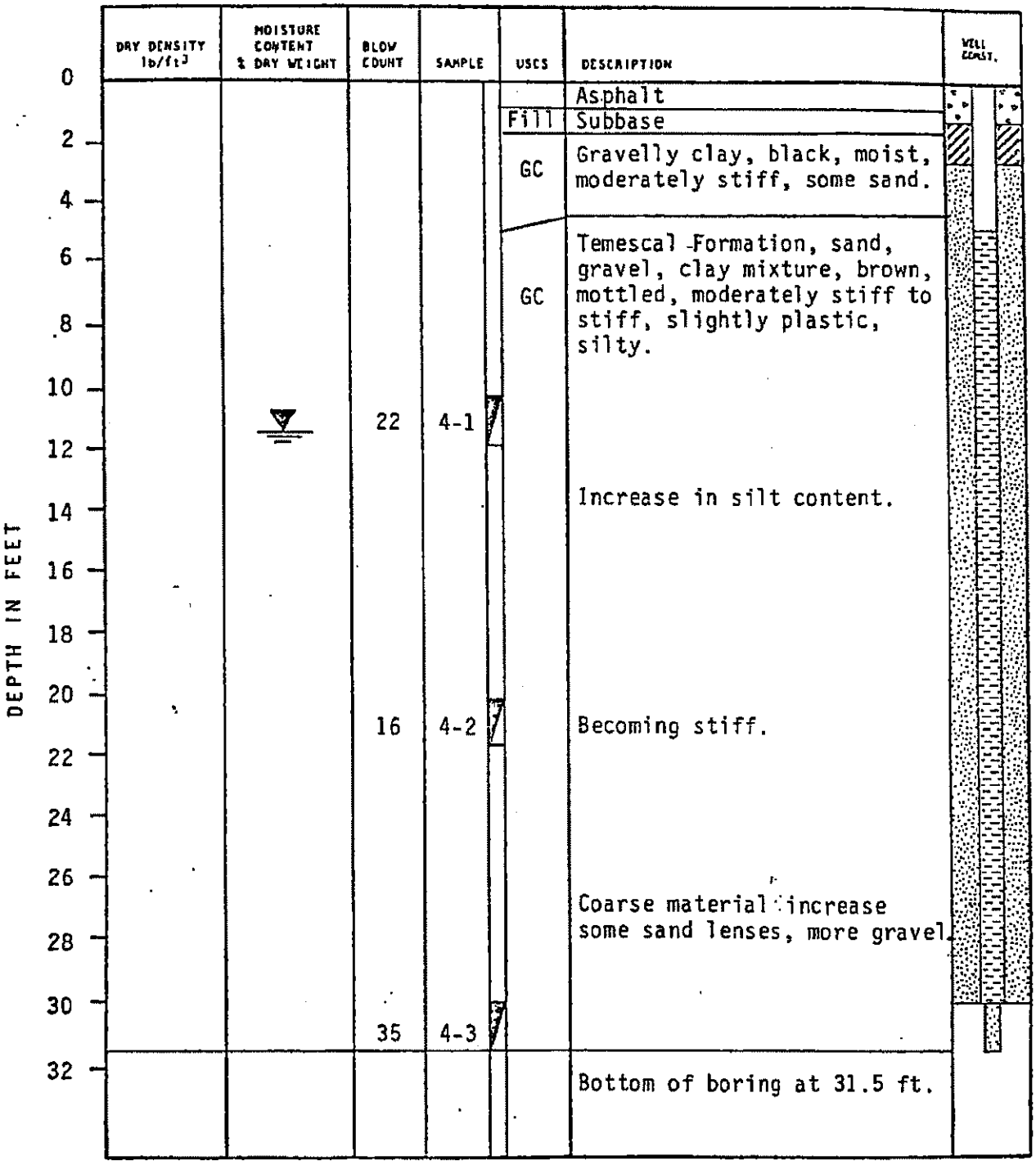
IT/SHELL OIL COMPANY
OAKLAND, CALIFORNIA

LOG OF BORING NO. 3

PROJECT NO. B-1232-1

PLATE 4



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PREPARED BY: BK DATE: 7/20/82

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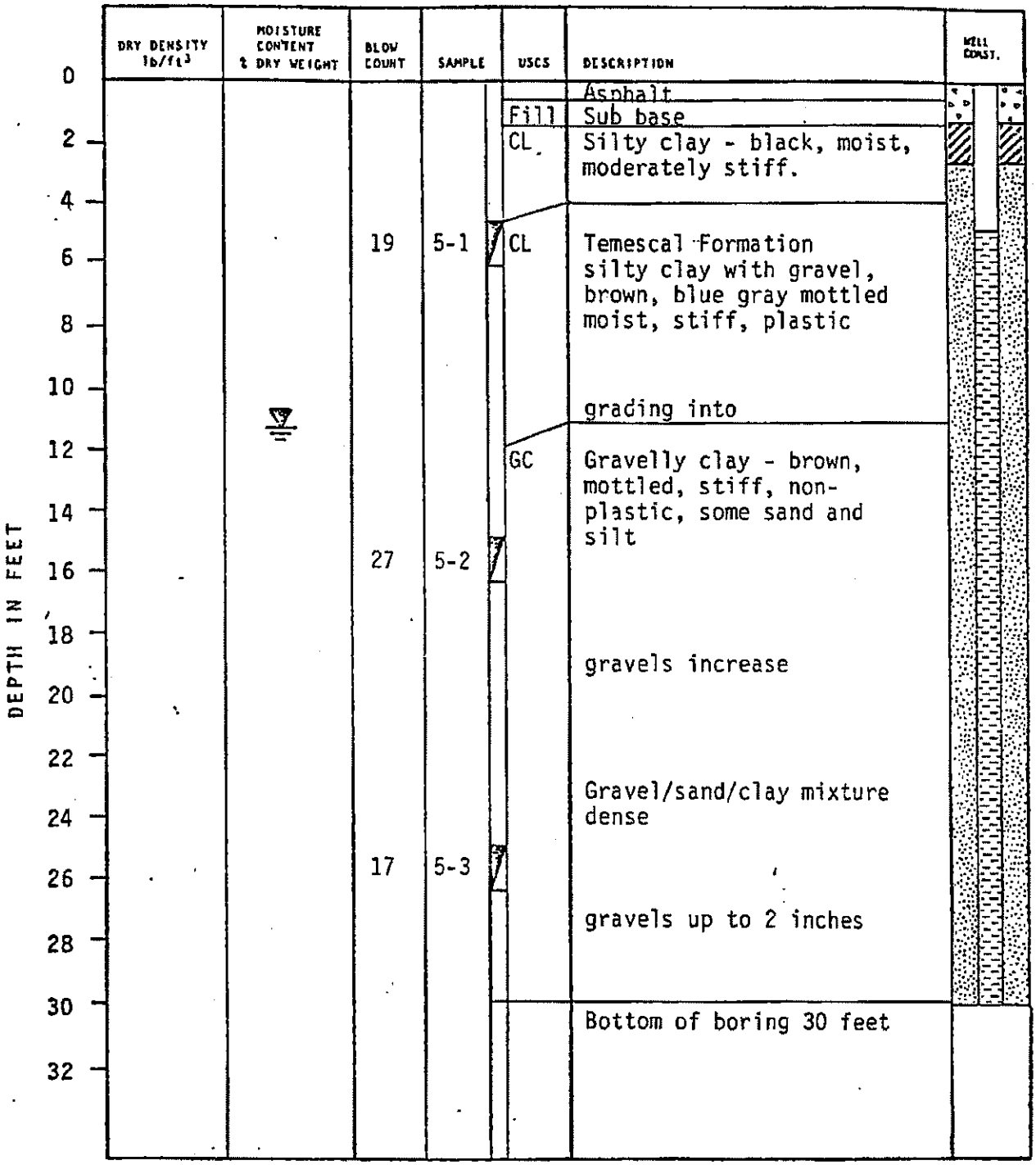
IT/SHELL OIL COMPANY
OAKLAND, CALIFORNIA

LOG OF BORING NO. 4

PROJECT NO. B-1232-1

PLATE 5



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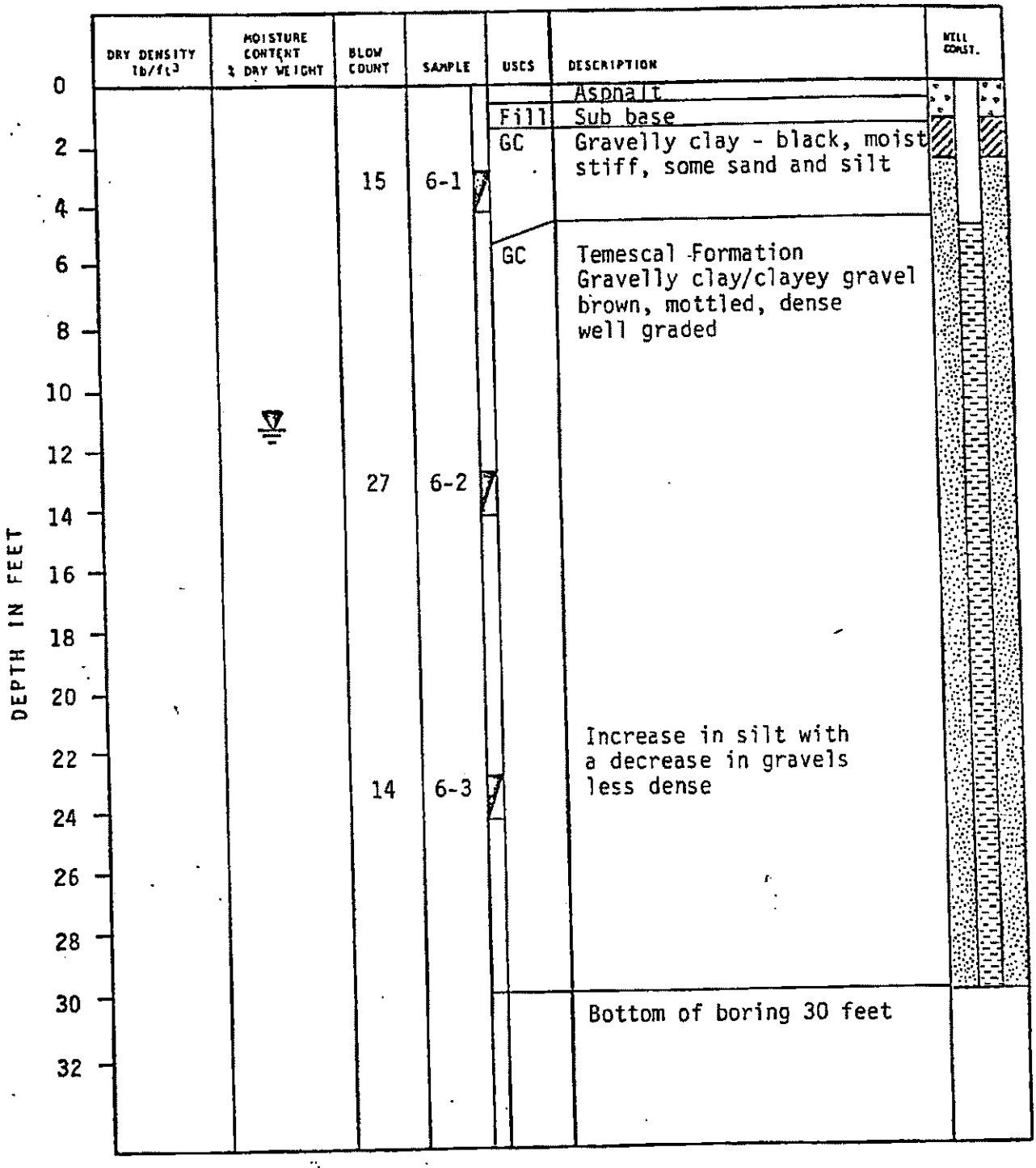
IT/SHELL OIL COMPANY
OAKLAND, CALIFORNIA

LOG OF BORING NO. 5

PROJECT NO. B-1232-1

PLATE 6



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PREPARED BY: BK DATE: 7/20/82

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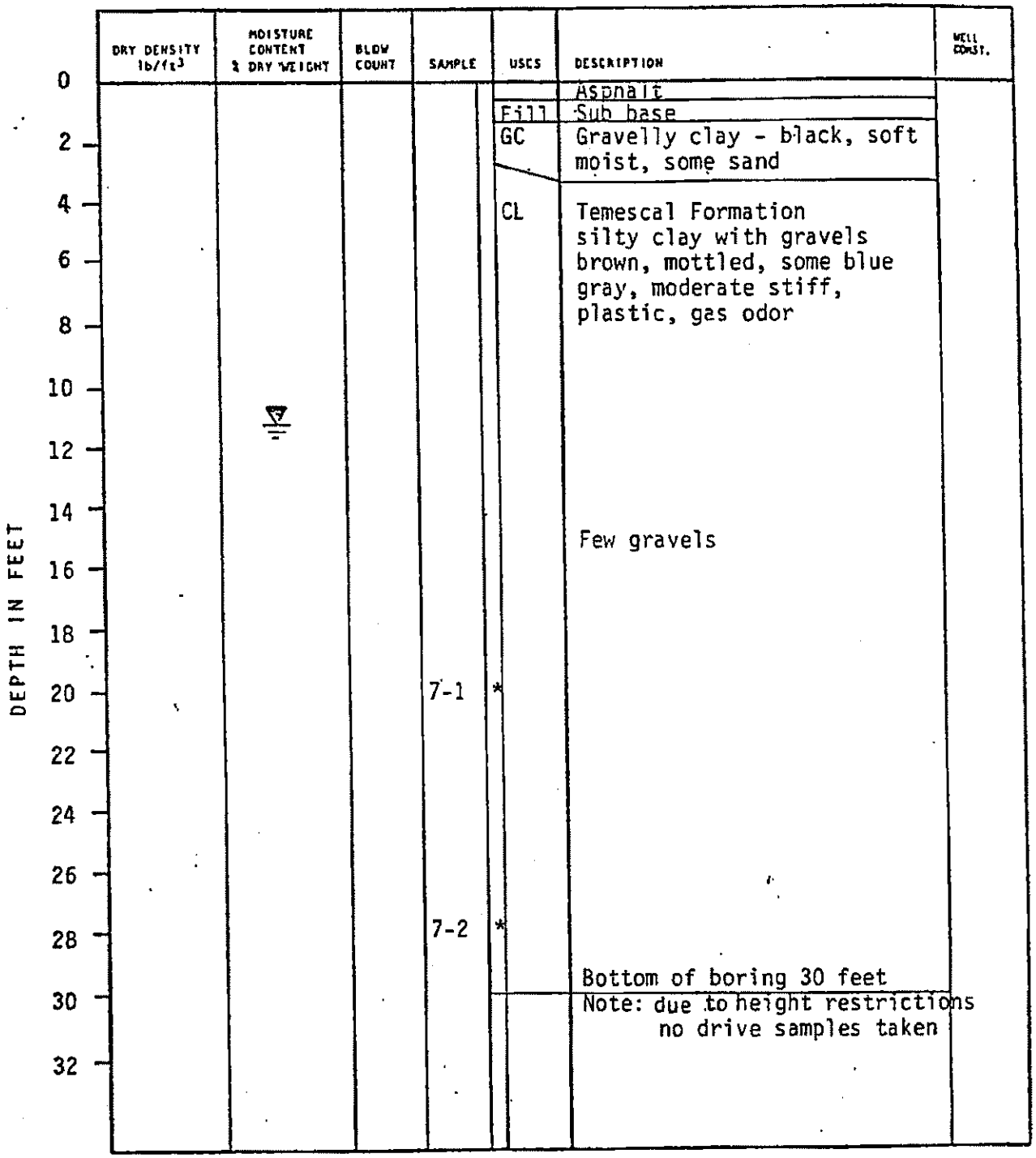
IT/SHELL OIL COMPANY
OAKLAND, CALIFORNIA

LOG OF BORING NO. 6

PROJECT NO. B-1232-1

PLATE 7



* - grab sample

J.H. KLEINFELDER & ASSOCIATES
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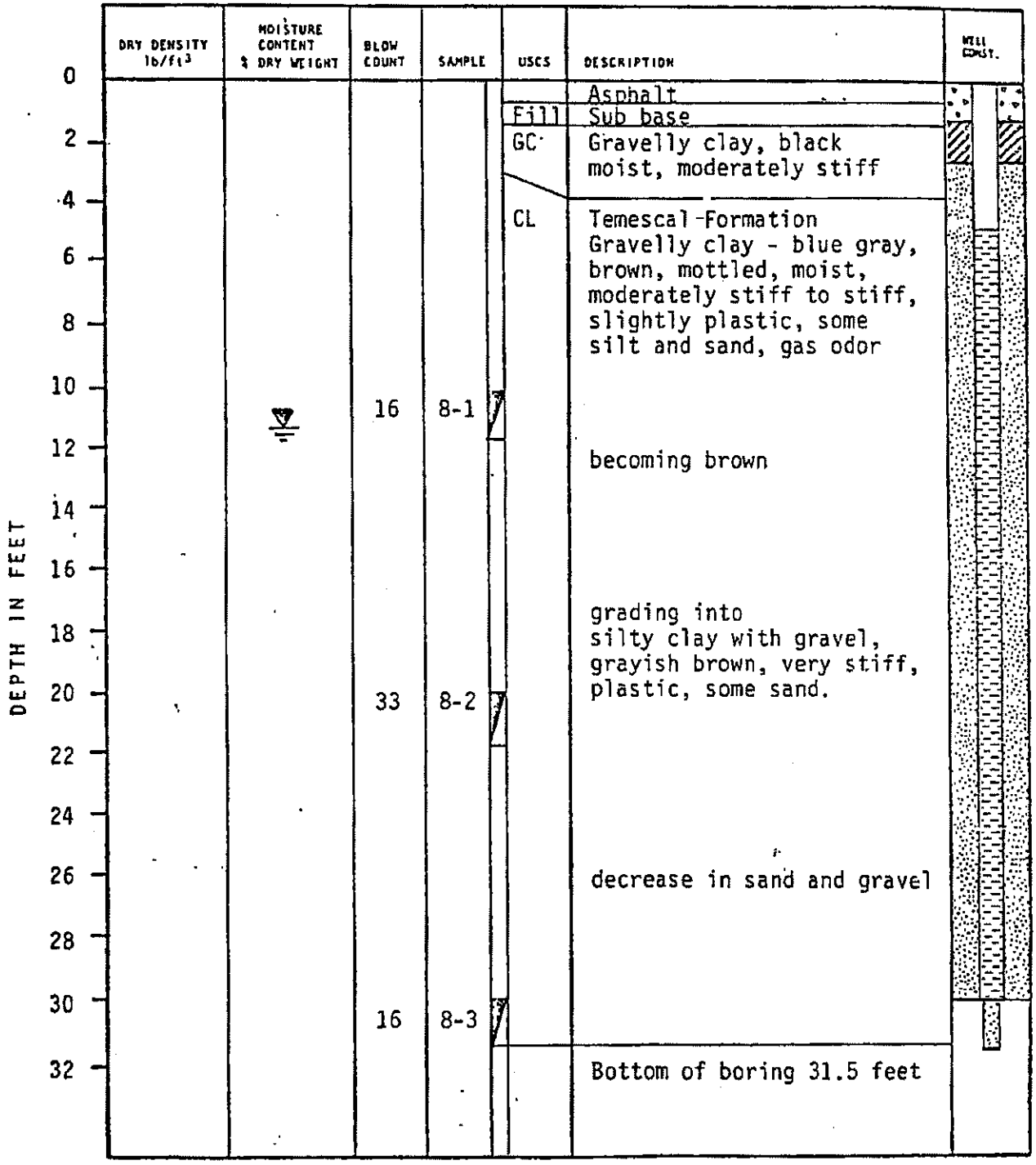
IT/SHELL OIL COMPANY
OAKLAND, CALIFORNIA

LOG OF BORING NO. 7

PROJECT NO. B-1232-1

PLATE 8



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PREPARED BY: BK DATE: 7/20/82

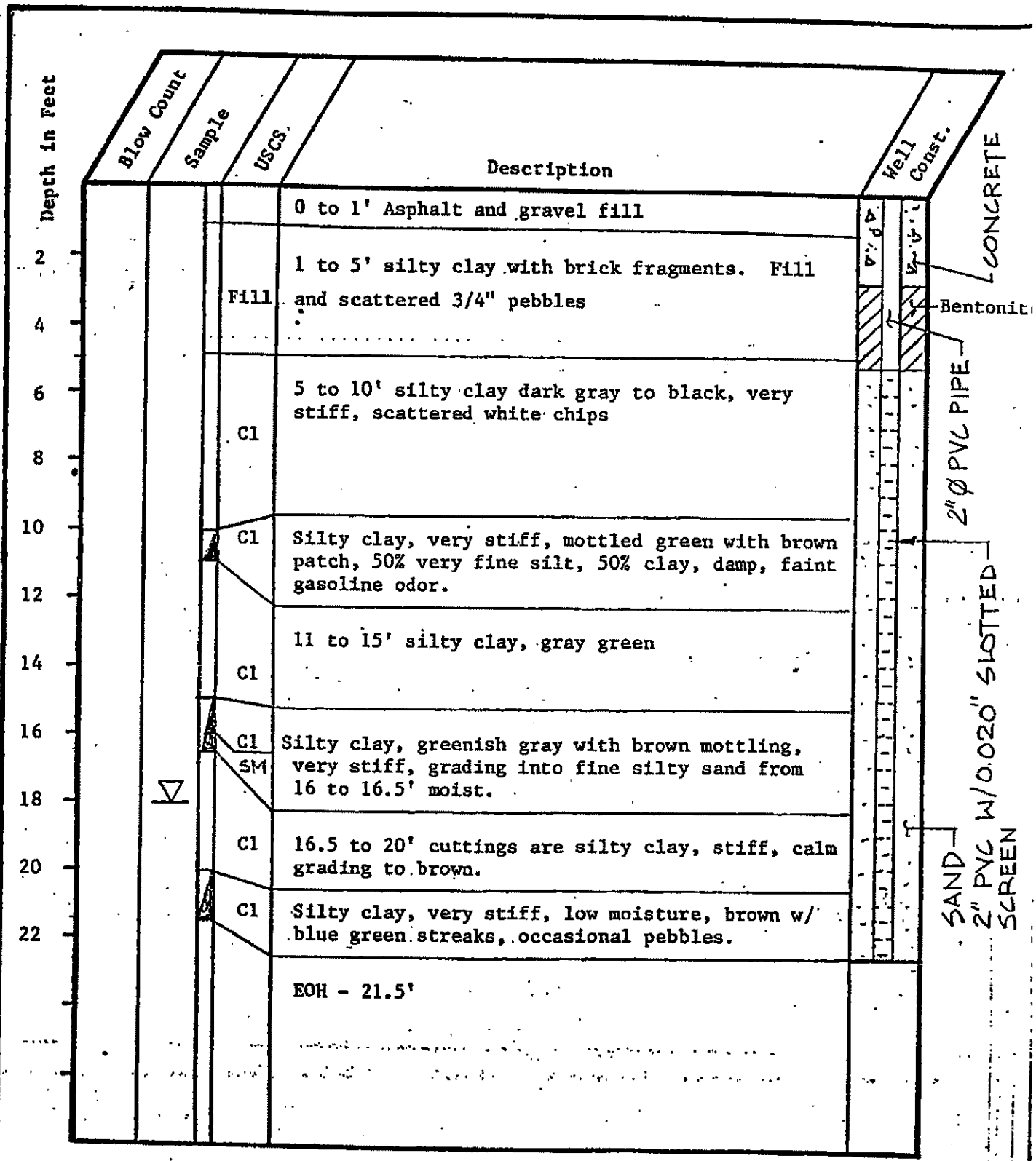
CHECKED BY: MLS DATE: 7/20/82

IT/SHELL OIL COMPANY
OAKLAND, CALIFORNIA

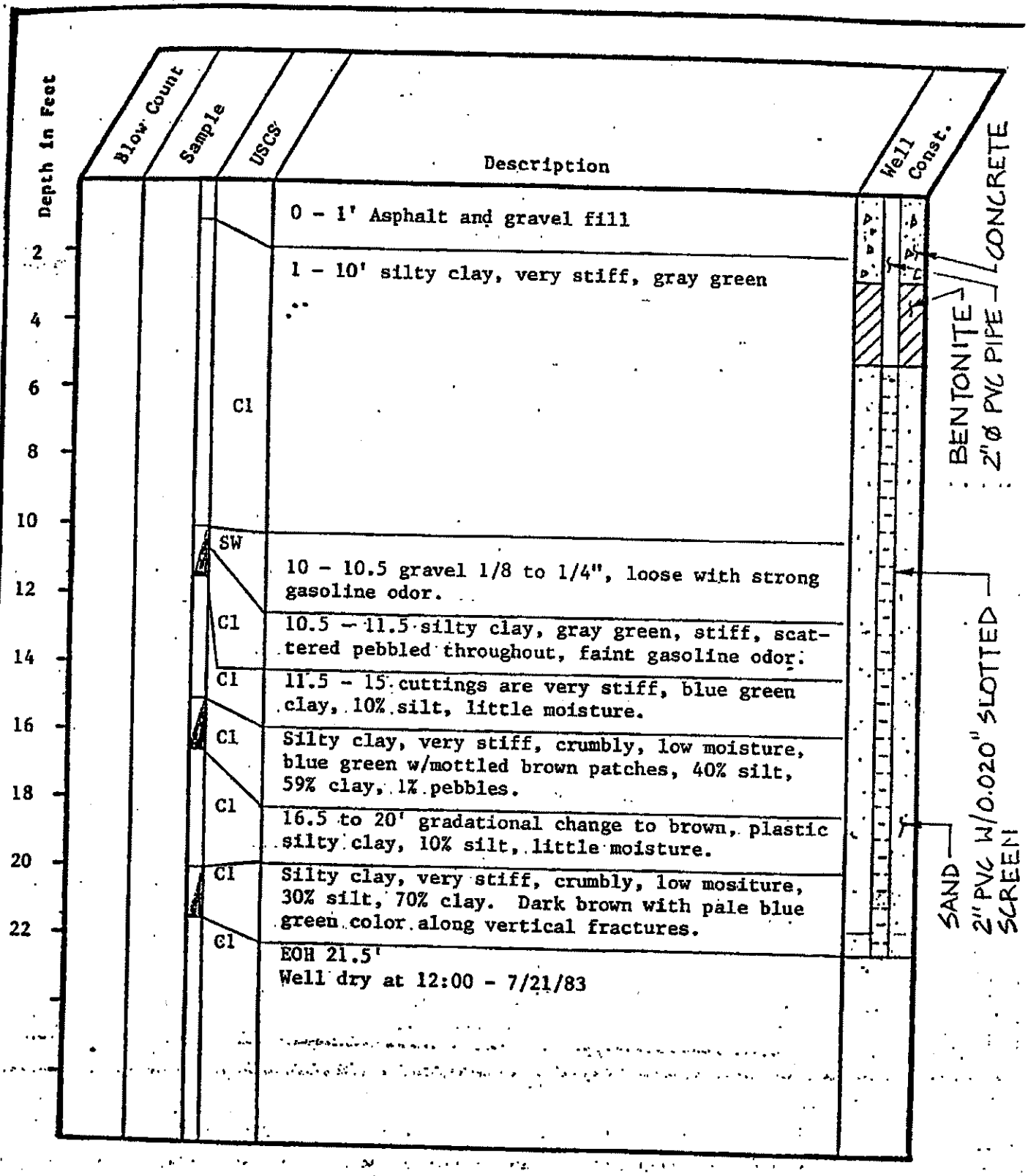
LOG OF BORING NO. 8

PROJECT NO. B-1232-1

PLATE 9



IT Enviroscience 1815 Arnold Drive • Martinez, CA 94553 Telephone (415) 228-8400	SHELL OIL COMPANY 500 40th Street Oakland, California	PLATE 2
PREPARED BY: RMG	LOG OF BORING NO. E-9	
CHECKED BY:	PROJECT NO. : 1-3582	



IT Enviroscience 1815 Arnold Drive • Martinez, CA 94553 Telephone (415) 228-8400	SHELL OIL COMPANY 500 40th Street Oakland, California	PLATE 3
PREPARED BY: RMG	LOG OF BORING NO. B-10	
CHECKED BY:	PROJECT NO.: 1-3532	