ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

May 16, 2007

Mr. Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Subject: Fuel Leak Case No. RO0000228 and Geotracker Global ID T0600101273, Shell#13-5693, 630 High Street, Oakland 94601

Dear Mr. Brown:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). 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.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Residual total petroleum hydrocarbons as gasoline are present in soil in the area of the dispensers and product lines at concentrations up to 2,100 ppm.
- Residual total petroleum hydrocarbons as diesel are present in soil in the area of the dispensers and product lines at concentrations up to 3,600 ppm.
- Total petroleum hydrocarbons as gasoline remain in shallow groundwater at concentrations up to 3,180 ppb.
- Case closure for the fuel leak site is granted for commercial land use only. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated.

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

Sincerely,

Donna L. Drogos, P.E.
LOP and Toxics Program Manager

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

cc:

Ms. Cherie McCaulou (w/enc)
SF- Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Mr. Toru Okamoto (w/enc)
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120

Mr. Leroy Griffin (w/enc)
City of Oakland Fire Department
250 Frank Ogawa Plaza
Suite 3341
Oakland, CA 94612

Ms. Ana Friel
Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476

Jerry Wickham (w/orig enc), D. Drogos (w/enc), File (w/enc)

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

May 16, 2007

Mr. Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

REMEDIAL ACTION COMPLETION CERTIFICATE

Dear Mr. Brown:

Subject: Fuel Leak Case No. RO0000228 and Geotracker Global ID T0600101273, Shell#13-5693, 630 High Street, Oakland 94601

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 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Ariu Levi
Director
Alameda County Environmental Health

Alameda County Environmental Health

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

I. AGENCY INFORMATION

Date: September 28, 2006

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: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Shell #13-5693		
Site Facility Address: 630 High Street, Oakland, CA 94601		
RB Case No.: 01-1378	Local Case No.: 3737	LOP Case No.: RO0000228
URF Filing Date: 02/01/1989	SWEEPS No.: ---	APN: 34-2295-1-3

Responsible Parties	Addresses	Phone Numbers
Denis Brown, Shell Oil Products US	20945 S. Wilmington Avenue, Carson, CA 90810	707-865-0251

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	10,000 gallons	Gasoline	Removed	10/29/2002
2	10,000 gallons	Gasoline	Removed	10/29/2002
3	10,000 gallons	Gasoline	Removed	10/29/2002
4	10,000 gallons	Diesel	Removed	10/29/2002
Piping			Removed	10/29/2002

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. No holes, cracks, or other signs of failure were observed when tanks were removed.	
Site characterization complete? Yes	Date Approved By Oversight Agency: -----

Monitoring wells installed? Yes	Number: 10	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 7.07 feet bgs	Lowest Depth: 11.73 feet bgs	Flow Direction: West northwest
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: One well of unknown use is located approximately 3,000 feet west of the site. This well is crossgradient from the site and is apparently not a receptor for the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: The Tidal Canal is approximately 1,400 feet southwest of site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
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	4 - 10,000 gallon tanks	The tanks were transported to Erickson, Inc. in Richmond, CA for disposal	10/29/2002
Piping	Not reported	The piping was transported to Erickson, Inc. in Richmond, CA for disposal	10/29/2002
Free Product	Not reported	--	--
Soil	1,400 cubic yards	Transported to Forward Landfill in Manteca, CA for disposal	11/05/1996 to 12/09/2002
Groundwater	19,200 gallons	Recycled at Shell Refinery in Martinez, CA	10/30/2002 to 11/01/2002

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRAT No information available from tank removals IONS BEFORE AND AFTER CLEANUP

(Please see Attachments 1 through 5 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	2,100	2,100	15,000	3,180(1)
TPH (Diesel)	3,600	3,600	160,000(2)	6,150(1,3)
TPH (Motor Oil)	240	240	NA	NA
Benzene	0.31	0.31	2,410	26(1)
Toluene	32	32	573	3.67(1)
Ethylbenzene	33	33	6,700	4.14(1)
Xylenes	220	220	10,000	9.86(1)
Lead	2,700(4)	2,700(4)	<2	<2
MTBE	0.13(5)	0.13(5)	38,000(6)	186(1,6)
Other (8240/8270)	<0.5(7)	<0.5(7)	NA	NA

(1) Maximum concentrations after cleanup are results from 11/03/2005 groundwater sampling.
(2) Result is for groundwater sample collected from the tank pit and may not be representative of dissolved phase concentrations in groundwater due to suspended sediment in the sample.
(3) Hydrocarbon reported is in the early range and does not match the pattern of laboratory standard for diesel.
(4) Chromium = 77 ppm; zinc = 43 ppm; and cadmium <5 ppm.
(5) TBA = 0.41 ppm; TAME, ETBE, DIPE, 1,2-DCA, and EDB <0.005 ppm in soil.
(6) TBA = 1,900 ppb; 1,2-DCA = 0.69 ppb; TAAME, ETBE, DIPE, and EDB <2 ppb in groundwater.
(7) Volatile organic compounds by EPA Method 8240 were not detected.

Site History and Description of Corrective Actions (continued):

The site is an active Shell-branded service station. Surrounding properties consist of commercial and industrial properties adjacent to Interstate Highway 880. In January 1989, soil samples were collected beneath each of the dispensers and product lines during dispenser and piping replacement. TPHg was detected in soil samples at concentrations up to 75 ppm. A soil sample collected beneath the waste oil tank contained 600 ppm of total oil and grease. Additional excavation was conducted around the waste oil tank in February 1989. Soils collected from the excavation contained a maximum concentration of 41 ppm of TPHg. A grab groundwater sample collected from the open excavation contained 1,800 ppb TPHg, 170 ppb benzene, and 200 ppb TPHd.

In April 1989, two soil borings (SB-1 and SB-2) and four monitoring wells (MW-1 through MW-4) were advanced at the site. TPHd, TPHg, and benzene were detected in soil at maximum concentrations of 27, 63, and 0.046 ppm, respectively. One additional boring (SB-3) and four additional wells (MW-5 through MW-8) were advanced at the site in August 1989. TPHd, TPHg, and benzene were not detected in soil samples collected during the August 1989 investigation.

In November 1989, one soil boring (SB-4) and two monitoring wells (MW-9 and MW-10) were advanced at the site. The maximum concentration of TPHd detected in soil was 380 ppm; no TPHg or benzene were detected. During UST, dispenser, and piping upgrade activities in November 2002, soil samples were collected beneath the USTs, dispenser, and product piping. Over-excavation was completed to a depth of 17 feet bgs in the tank pit area and to a depth of 13 feet bgs in the vicinity of one of the pump islands. A water sample collected from the tank pit area contained 500 ppb TPHg, 7,700 ppb TPHd, 1,200 ppb MTBE, and 6 ppb benzene.

A conduit study was conducted in May 2003 to evaluate potential preferential groundwater migration pathways. The study concluded that the sanitary sewer and storm drain lines could encounter groundwater at least seasonally and that the utility trenches could serve intermittently as preferential pathways based on the groundwater gradient and layout of the utilities. In October 2005, four monitoring wells were destroyed with concurrence from ACEH.

Five CPT borings were advanced at the site in January 2006. Six of 33 soil samples contained detectable concentrations of petroleum hydrocarbons. BTEX were not reported in any soil samples and TPHg was reported in only one soil sample at a concentration of 19 ppm. Depth-discrete groundwater samples were collected in the CPT borings from three separate intervals down to a depth of approximately 40 feet bgs. Dissolved hydrocarbon concentrations generally decreased with depth. The highest concentrations of TPHg and MTBE (2,700 ppb and 37 ppb, respectively) were detected in a groundwater sample (SB-7 12.0W) collected from the shallow groundwater zone (9-12 feet bgs). The highest concentrations of TPHd and TBA (4,900 ppb and 220 ppb, respectively) were also detected in a groundwater sample (SB-8 10.0W) from the shallow groundwater zone (9-12 feet bgs). Benzene was not detected in groundwater samples from the 9-12 feet bgs interval. Due to the lack of recharge from the 17.5 to 20 feet bgs interval, groundwater samples were collected in only two of the five borings. MTBE was detected in groundwater samples from the 17.5 to 20 feet bgs interval at concentrations of 5.4 and 6.5 ppb. TPHg and TBA were not detected in groundwater samples from the 17.5 to 20 feet bgs interval. The maximum concentration of TPHg detected in the deeper groundwater zone (38-40.5 feet bgs) was 180 ppb. MTBE and TBA were not detected in the deeper groundwater zone (38-40.5 feet bgs). The maximum concentrations of TPHg, BTEX, MTBE, and TBA reported in grab groundwater samples from the CPT borings do not exceed Environmental Screening Levels (Water Board February 2005) for protection of a surface water body.

Groundwater monitoring has been ongoing at the site since 1991. Historical maximum concentrations were: 15,000 ppb TPHg in MW-1 (11/92), 2,410 ppb benzene in MW-3 (8/99), and 38,000 ppb MTBE in MW-3 (4/00). During the fourth quarter of 2005, the maximum TPHg, benzene, and MTBE concentrations detected in groundwater samples were 3,180 ppb, 26 ppb, and 186 ppb, respectively. TPHd has been detected in groundwater at the site: however, the laboratory reports that the hydrocarbons are in the early range and do not match the laboratory standard for diesel. Therefore, it is likely that the TPHd represents the heavier range of weathered gasoline.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? ---		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? ---		
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, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: Case closure for the fuel leak site is granted for commercial land use only. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated. This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination posing a nuisance for subsurface utility work.		
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: 4	Number Retained: 6
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

- Elevated concentrations of residual fuel hydrocarbons remain in soil in the area of the dispensers and product lines.
- Elevated concentrations of total lead remain in soil at several sampling locations in the area of product lines and dispensers. The areas with elevated concentrations of lead appear to be localized and limited in extent.
- Residual dissolved hydrocarbons remain in shallow groundwater at concentrations exceeding ESLs for drinking water in the area of well MW-3 and the area downgradient from a former dispenser.
- Laboratory analyses for chlorinated hydrocarbons were conducted on soil but not groundwater in the area of the former waste oil tank.

Conclusion:

The extent of elevated residual concentrations of fuel hydrocarbons in soil is limited to the area of the dispensers and product lines. The detections of elevated concentrations of lead appear to be limited to isolated sampling locations. Based on the limited extent of the residual hydrocarbons and lead, Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment based upon the information available in our files to date and the current commercial use of the property. The residual fuel hydrocarbons in groundwater are not likely to reach any groundwater receptors due to the lack of apparent groundwater receptors in the area. Potential future use of groundwater is not likely to be affected due to the low potential for shallow groundwater in this area to be used for water supply. Natural attenuation of dissolved hydrocarbons, which has been observed over the 15 years of groundwater monitoring at the site, will continue to reduce dissolved hydrocarbon concentrations in groundwater. No further investigation or cleanup is necessary based on the current commercial use of the site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Hazardous Materials Specialist
Signature: Jerry Wickham	Date: 09/28/06
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: Donna L. Drogos	Date: 09/28/06

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
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature: Cherie McCaulou	Date: 11/30/06

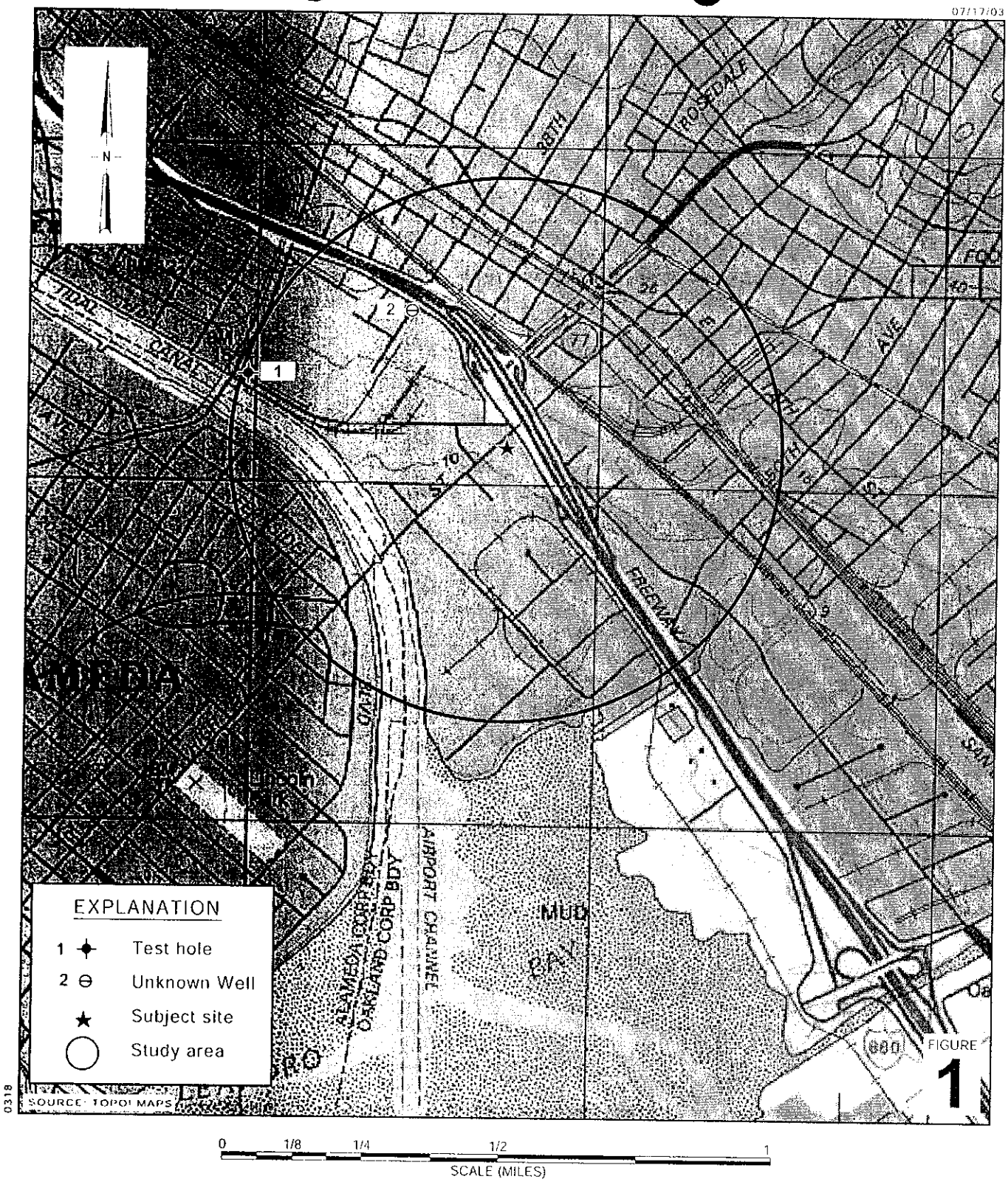
VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 12/01/06	Date of Well Decommissioning Report: 05/11/07	
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: NA		
ACEH Concurrence - Signature: Jerry Wickham		Date: 05/15/07

Attachments:

1. Site Vicinity Map/Area Well Survey Map
2. Site Map/4Q05 Groundwater Monitoring Data Map; Soil Chemical Concentration Map; Grab Groundwater Chemical Concentration Map
3. Dispenser, Piping, Tank Pit, and Over-Excavation Soil Samples Location Map; Plot Plan Q3/89; Cross Section A-A'
4. Well/Boring Data and Soil Analytical Tables
5. Groundwater Analytical Tables
6. CPT Data
7. Boring Logs

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.



Shell-branded Service Station
630 High Street
Oakland, California

CAMBRIA

Vicinity/Area Well Survey Map
(1/2-Mile Radius)

ATTACHMENT 1

ATTACHMENT 2

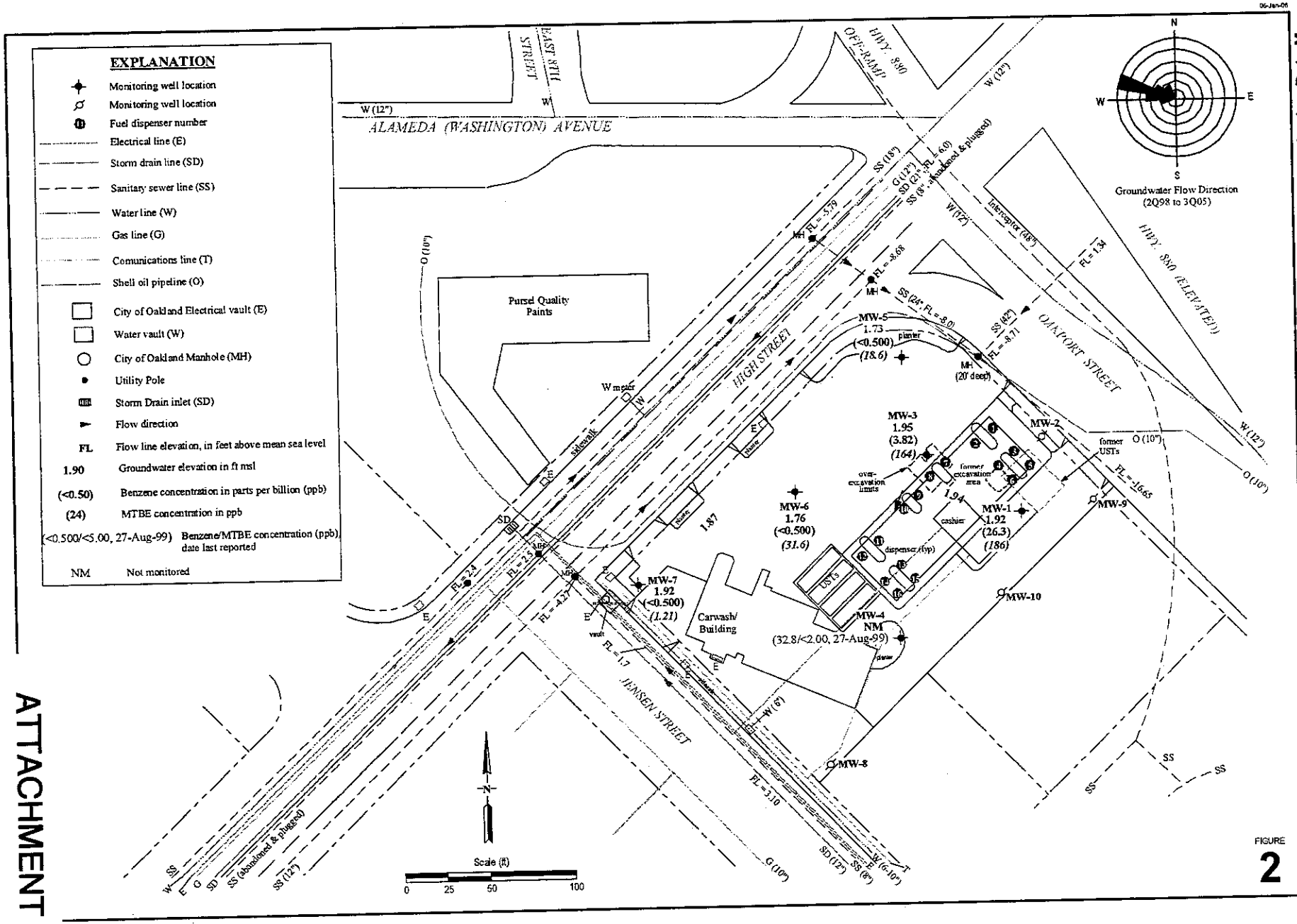


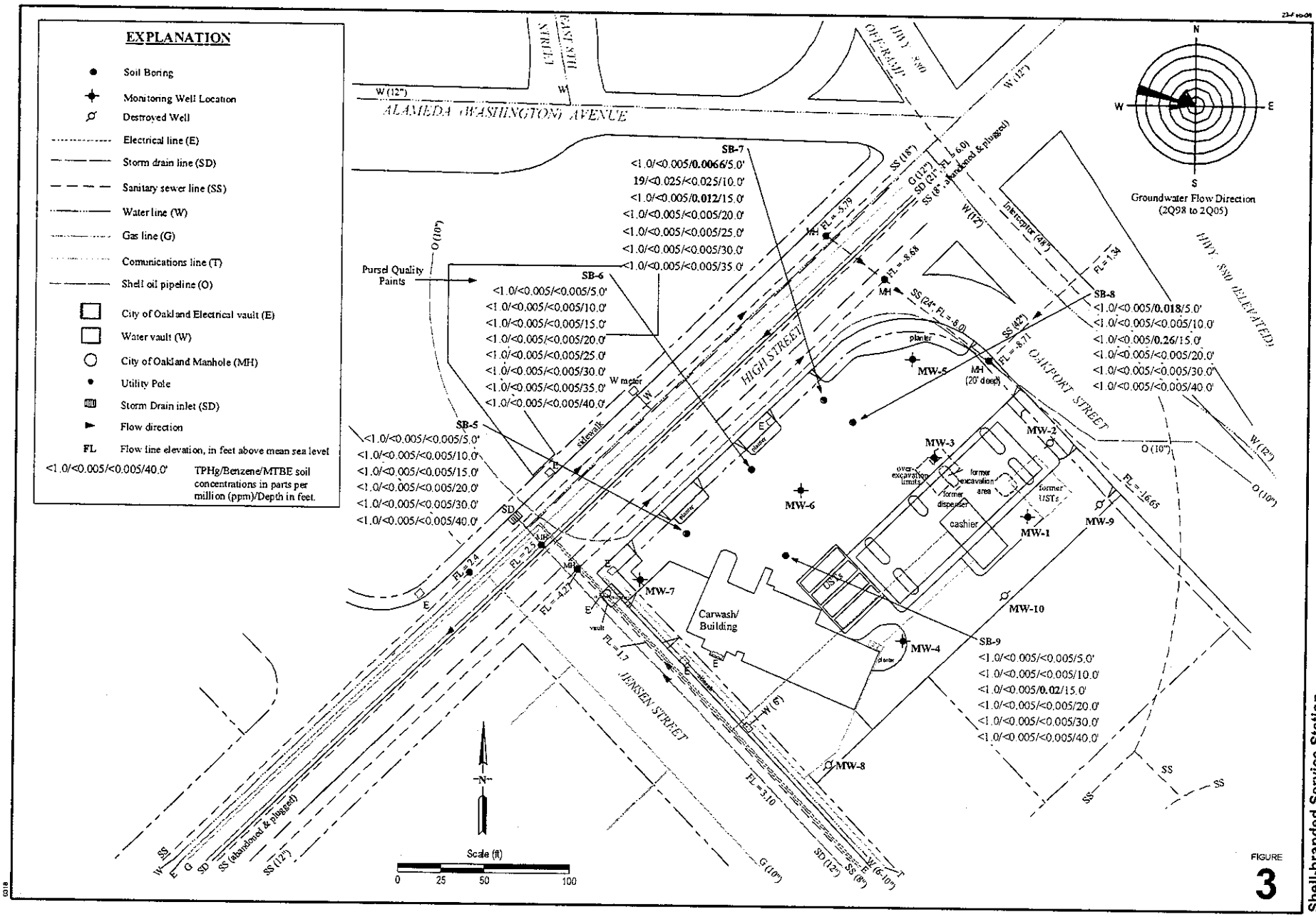
FIGURE 2

Site Map/4Q05 Groundwater Monitoring Data Map

November 3, 2005

Shell-branded Service Station
630 High Street
Oakland, California

CAMBRIA



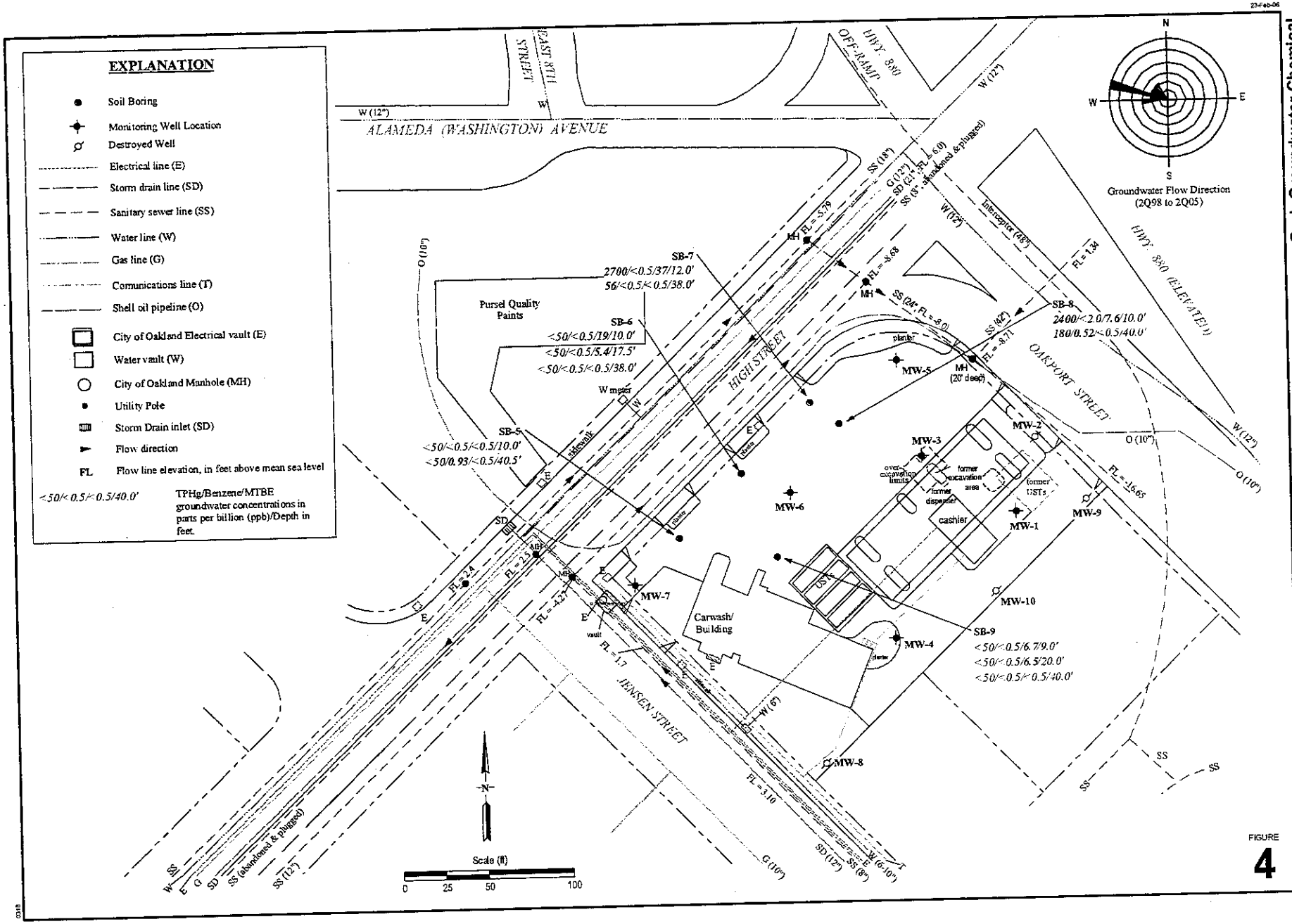
Soil Chemical Concentration Map

January 17, 18, and 23, 2006

CAMBRIA

Shell-branded Service Station
630 High Street
Oakland, California

FIGURE
3



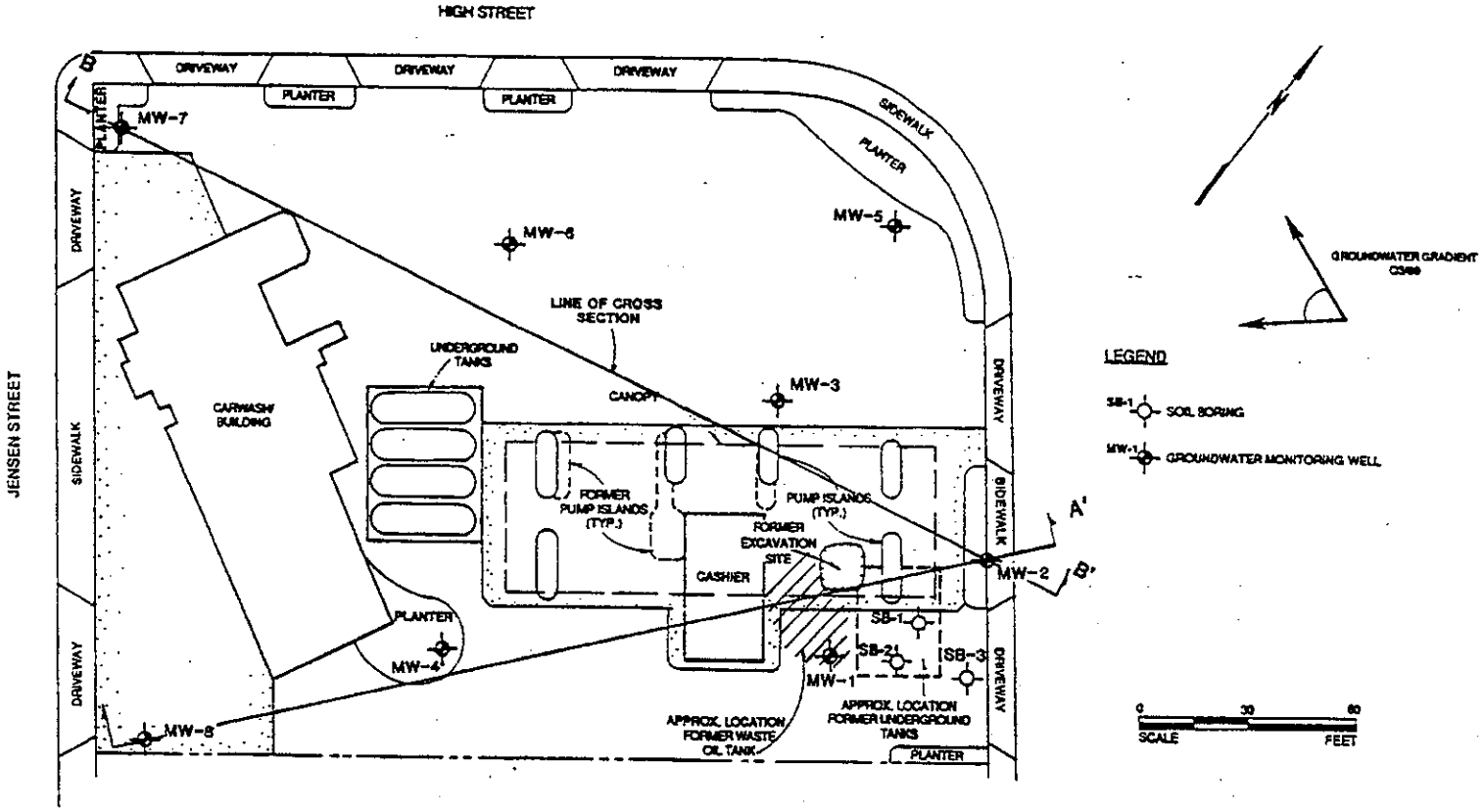
Grab Groundwater Chemical Concentration Map

January 17,18, and 23, 2006

Shell-branded Service Station
630 High Street
Oakland, California

CAMBRIA

FIGURE
4



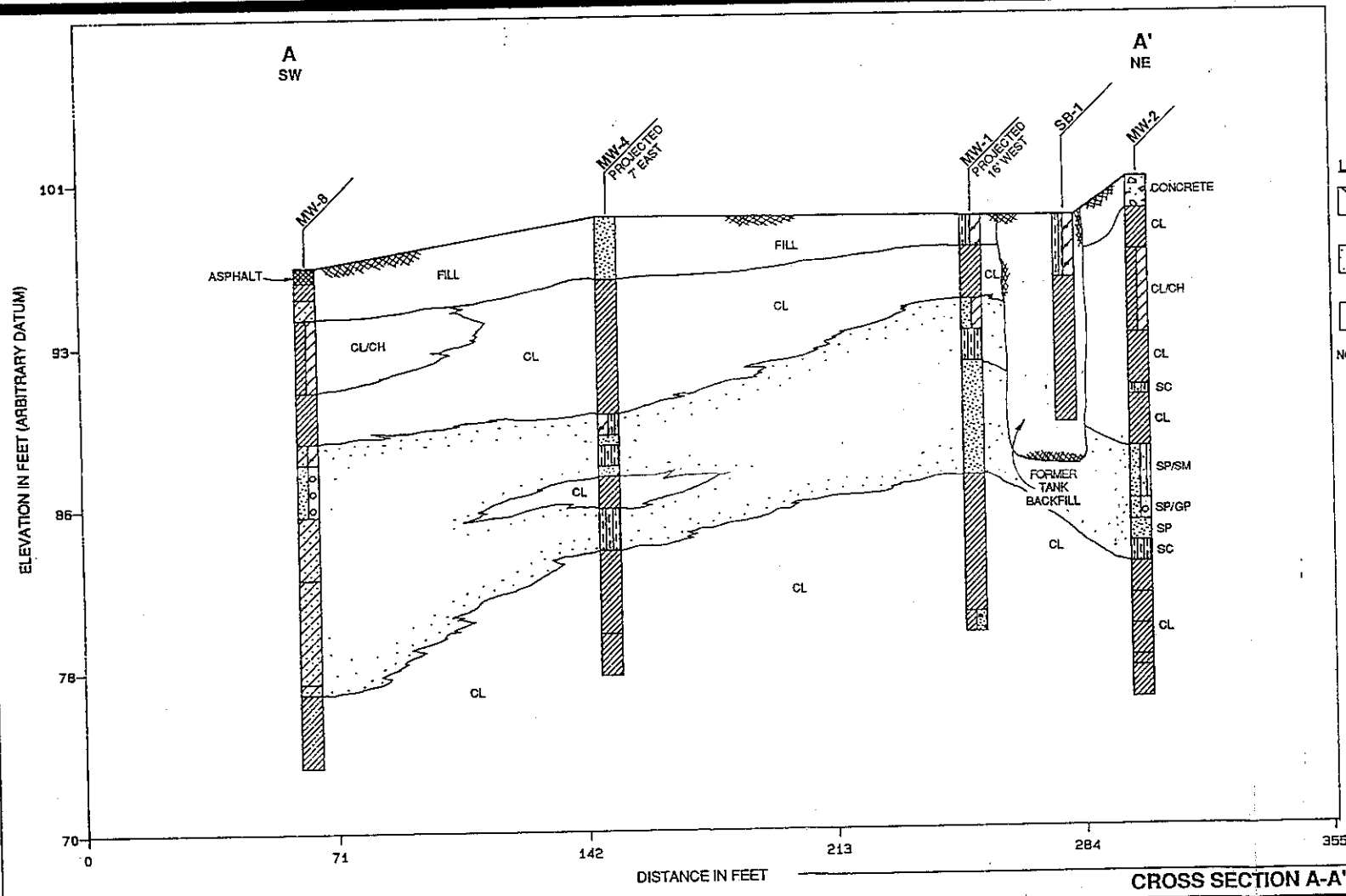
PLOT PLAN Q3/89

SHELL OIL COMPANY
630 High Street
Oakland, California

Converse Environmental Consultants California

Scale	AS SHOWN
Date	9/13/89
Prepared By	MLL
Checked By	MIY
Approved By	OWC
Project No.	38-44-388-01
Drawing No.	2

Base Map: after Robert H. Lee & Ass. Inc.



LEGEND

FILL: MIXED GRAVEL, SAND AND CLAY

SC/GC/SP — RELATIVELY PERMEABLE SOIL: GRAVEL AND SAND

CL/CH — RELATIVELY IMPERMEABLE SOIL: CLAY-RICH SOILS

NOTE: FOR EXPLANATION OF SOIL CLASSIFICATIONS SEE APPENDIX A FIGURE A-1.

SCALE 0 30 60 FEET

CROSS SECTION A-A'

SHELL OIL COMPANY
630 High Street
Oakland, California

Converse Environmental Consultants California

Scale	AS SHOWN
Date	9/28/89
Prepared By	MLL
Checked By	MIY
Approved By	
Project No.	88-44-369-01
Drawing No.	15

ATTACHMENT 3

FIGURE
2

Dispenser, Piping, Tank Pit, and Over-Excavation Soil Sample Loaction Map

Shell-branded Service Station
630 High Street
Oakland, California
Incident #98995751

CAMBRIA

Table 1. Well/Boring Data, Shell-branded Service Station, 630 High Street, Oakland, California

Well/ Boring ID	Boring Type	Completion Date	TOC Elev (ft msl)	Total Depth (fbg)	Soil Sample Interval or Depths Ft)	GW Depth* First Encountered	GW Depth* Static	Screen Diam. (In)	Screen Depth (ft) Top	Screen Depth (ft) Bottom	Comments
SB-1	HSA Boring	27-Apr-89	-	10	C	-	-	-	-	-	
SB-2	HSA Boring	27-Apr-89	-	10	C	-	-	-	-	-	
SB-3	HSA Boring	17-Aug-89	-	10	5	-	-	-	-	-	
SB-4	HSA Boring	14-Nov-85	-	9	5	-	-	-	-	-	
SB-5	CPT Boring	18-Jan-06	-	45	5	10.0	-	-	-	-	
SB-6	CPT Boring	17-Jan-06	-	40	5	10.0	-	-	-	-	
SB-7	CPT Boring	17-Jan-06	-	42	5	12.0	-	-	-	-	
SB-8	CPT Boring	23-Jan-06	-	40	5	10.0	-	-	-	-	
SB-9	CPT Boring	18-Jan-06	-	45	5	9.0	-	-	-	-	
MW-1	HSA Well	25-Apr-89	12.02	20	C	10	10.79	4	9	13	
MW-2	HSA Well	25-Apr-89	13.8	25	C	14.5	13.25	4	10	20	Well Destroyed on 10/6/05
MW-3	HSA Well	26-Apr-89	12.12	20	C	11.5	11.09	4	8	17	
MW-4	HSA Well	26-Apr-89	11.9	22	C	10	10.76	4	7	17	
MW-5	HSA Well	17-Aug-89	12.72	20	C	12	11.72	4	8	18	
MW-6	HSA Well	16-Aug-89	11.21	24	5	15	10.23	4	10	20	
MW-7	HSA Well	15-Aug-89	10.17	24	5	17.5	8.91	4	10	20	
MW-8	HSA Well	15-Aug-89	9.75	24	3	9	8.47	4	9	21	Well Destroyed on 10/6/05
MW-9	HSA Well	15-Nov-89	12.34	16	5	10	8.27	4	6	12	Well Destroyed on 10/6/05
MW-10	HSA Well	16-Nov-89	11.6	17	5	11	10.81	4	7	13	Well Destroyed on 10/6/05

Abbreviations:

TOC = Top of Casing referenced to mean sea level (msl)

Elev = Elevation

GW = Groundwater

ft = feet

ft msl = Feet referenced to mean sea level

fbg = Feet below grade

C = Continuous

Diam. = Diameter

In = inches

HSA = Hollow-stem auger

CPT = Cone penetration test

* = First encountered groundwater in fbg measured on drilling date; static groundwater in wells measured in feet below TOC on initial sampling date.

ATTACHMENT 4

Table 2. Cumulative Soil Analytical Results, Shell-branded Service Station, 630 High Street, Oakland, California

Sample ID	Date	Depth (ft)	TPHg mg/Kg	TPHd mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Total Xylenes mg/Kg	MTBE mg/Kg	DIPE mg/Kg	ETBE mg/Kg	TAME mg/Kg	TBA mg/Kg	1,2-DCA mg/Kg	EDB mg/Kg	Lead mg/Kg	TPH-mo	O&G
SB-5-5.0	23-Jan-06	5.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-5-10.0	23-Jan-06	10.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-5-15.0	23-Jan-06	15.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-5-20.0	23-Jan-06	20.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-5-30.0	23-Jan-06	30.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-5-40.0	23-Jan-06	40.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-6-5.0	17-Jan-06	5.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-6-10.0	17-Jan-06	10.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-6-15.0	17-Jan-06	15.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-6-20.0	17-Jan-06	20.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-6-25.0	17-Jan-06	25.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-6-30.0	17-Jan-06	30.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-6-35.0	17-Jan-06	35.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-6-40.0	17-Jan-06	40.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-7-5.0	17-Jan-06	5.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.0066**	<0.010	<0.0050	<0.0050	**0.030**	<0.0050	<0.0050	NA	NA	NA
SB-7-10.0	17-Jan-06	10.0	**19**	**57** [a]	<0.025	<0.025	<0.025	<0.025	<0.025	<0.049	<0.025	<0.025	<0.049	<0.025	<0.025	NA	NA	NA
SB-7-15.0	17-Jan-06	15.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.012**	<0.010	<0.0050	<0.0050	**0.27**	<0.0050	<0.0050	NA	NA	NA
SB-7-20.0	17-Jan-06	20.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-7-25.0	17-Jan-06	25.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-7-30.0	17-Jan-06	30.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-7-35.0	17-Jan-06	35.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-8-5.0	23-Jan-06	5.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.018**	<0.010	<0.0050	<0.0050	**0.030**	<0.0050	<0.0050	NA	NA	NA
SB-8-10.0	23-Jan-06	10.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-8-15.0	23-Jan-06	15.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.26**	**0.032**	<0.0050	<0.0050	**0.41**	<0.0050	<0.0050	NA	NA	NA
SB-8-20.0	23-Jan-06	20.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-8-30.0	23-Jan-06	30.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-8-40.0	23-Jan-06	40.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA

Table 2. Cumulative Soil Analytical Results, Shell-branded Service Station, 630 High Street, Oakland, California

Sample ID	Date	Depth (ft)	TPHg mg/Kg	TPHd mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Total Xylenes mg/Kg	MTBE mg/Kg	DIPE mg/Kg	ETBE mg/Kg	TAME mg/Kg	TBA mg/Kg	1,2-DCA mg/Kg	EDB mg/Kg	Lead mg/Kg	TPH-mo	O&G
SB-9-5.0	23-Jan-06	5.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-9-10.0	23-Jan-06	10.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-9-15.0	23-Jan-06	15.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.020**	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-9-20.0	23-Jan-06	20.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-9-30.0	23-Jan-06	30.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
SB-9-40.0	23-Jan-06	40.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	NA	NA	NA
X-1	08-Nov-02	13.0	**290**	**17**	<0.050	<0.050	**0.55**	<0.050	<0.5	NA	NA	NA	NA	NA	NA	**5.83**	NA	NA
X-2	08-Nov-02	13.0	**72**	**3,600**	**0.17**	**0.15**	<0.025	**0.62**	<0.5	NA	NA	NA	NA	NA	NA	**5.13**	NA	NA
X-3	08-Nov-02	13.0	**2,100**	**280**	**0.22**	**32**	**33**	**220**	<0.5	NA	NA	NA	NA	NA	NA	**3.35**	NA	NA
X-4	08-Nov-02	10.0	**1.4**	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	**28**	NA	NA
D-1@4'	06-Nov-02	4.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	**31.8**	NA	NA
D-2@4'	06-Nov-02	4.0	**70**	**1,400**	<0.025	<0.025	<0.025	<0.025	<0.5	NA	NA	NA	NA	NA	NA	**81.7**	NA	NA
D-3@4'	06-Nov-02	4.0	<1.0	<1.0	<0.005	<0.005	<0.005	**0.0085**	<0.5	NA	NA	NA	NA	NA	NA	**14.5**	NA	NA
D-4@4'	06-Nov-02	4.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	**24**	NA	NA
D-5@4'	06-Nov-02	4.0	**320**	**75**	**0.31**	**0.058**	**9.7**	**1.8**	<0.5	NA	NA	NA	NA	NA	NA	**54.8**	NA	NA
D-6@4'	06-Nov-02	4.0	**150**	**89**	<0.025	<0.025	**0.14**	**3.5**	<0.5	NA	NA	NA	NA	NA	NA	**51.3**	NA	NA
D-7@4'	06-Nov-02	4.0	<1.0	**130**	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	**315**	NA	NA
D-8@4'	06-Nov-02	4.0	**2.9**	**41**	<0.005	**0.048**	**0.019**	**0.59**	<0.5	NA	NA	NA	NA	NA	NA	**97.8**	NA	NA
P-1@4'	06-Nov-02	4.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	**106**	NA	NA
P-2@4'	06-Nov-02	4.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	**92.6**	NA	NA
P-3@3'	06-Nov-02	4.0	<1.0	**3.3**	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	**22.1**	NA	NA
P-4@4'	06-Nov-02	4.0	<1.0	**8.5**	<0.005	**0.024**	<0.005	**0.033**	<0.5	NA	NA	NA	NA	NA	NA	**80.2**	NA	NA
P-5@4'	06-Nov-02	4.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	**19.1**	NA	NA
P-6@4'	06-Nov-02	4.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	**2,700**	NA	NA
P-7@4'	06-Nov-02	4.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	**180**	NA	NA
P-8@4'	06-Nov-02	4.0	**250**	**180**	<0.050	<0.050	**0.56**	**0.17**	<0.5	NA	NA	NA	NA	NA	NA	**59.2**	NA	NA

Table 2. Cumulative Soil Analytical Results, Shell-branded Service Station, 630 High Street, Oakland, California

Sample ID	Date	Depth (ft)	TPHg mg/Kg	TPHd mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Total Xylenes mg/Kg	MTBE mg/Kg	DIPE mg/Kg	ETBE mg/Kg	TAME mg/Kg	TBA mg/Kg	1,2-DCA mg/Kg	EDB mg/Kg	Lead mg/Kg	TPH-mo	O&G
P-9@4'	06-Nov-02	4.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	27	NA	NA
P-10@4'	06-Nov-02	4.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	50.7	NA	NA
P-11@4'	06-Nov-02	4.0	210	100	<0.050	<0.050	0.14	0.13	<0.5	NA	NA	NA	NA	NA	NA	66.8	NA	NA
P-12@4'	06-Nov-02	4.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	432	NA	NA
V-1@17'	30-Oct-02	17.0	<1.0	3.4	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	6.1	NA	NA
V-2@17'	30-Oct-02	17.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	<5.0	NA	NA
V-3@17'	30-Oct-02	17.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	91	NA	NA
V-4@17'	30-Oct-02	17.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	<5.0	NA	NA
V-5@17'	30-Oct-02	17.0	<1.0	3.4	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	<5.0	NA	NA
V-6@17'	30-Oct-02	17.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	6.1	NA	NA
V-7@17'	30-Oct-02	17.0	<1.0	35	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	5.9	NA	NA
V-8@17'	30-Oct-02	17.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	5.5	NA	NA
TP-1@14'	12-Oct-02	14.0	110	1,400	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	<5.0	NA	NA
TP-2@14'	29-Oct-02	14.0	<1.0	3.2	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	<5.0	NA	NA
TP-3@14'	29-Oct-02	14.0	19	200	<0.005	<0.005	<0.005	0.020	<0.5	NA	NA	NA	NA	NA	NA	5.1	NA	NA
TP-4@14	29-Oct-02	14.0	23	140	<0.005	<0.005	<0.005	<0.010	<0.5	NA	NA	NA	NA	NA	NA	6.5	NA	NA
TP-5@14'	29-Oct-02	14.0	<1.0	5.5	<0.005	0.0050	<0.005	0.0081	<0.5	NA	NA	NA	NA	NA	NA	7.1	NA	NA
TP-6@14'	29-Oct-02	14.0	<1.0	59	<0.005	<0.005	<0.005	<0.005	<0.5	NA	NA	NA	NA	NA	NA	<5.0	NA	NA
TP-7@14'	29-Oct-02	14.0	110	330	<0.050	<0.050	<0.050	<0.050	<0.5	NA	NA	NA	NA	NA	NA	12	NA	NA
TP-8@14'	29-Oct-02	14.0	1.7	330	<0.005	<0.005	<0.005	<0.010	<0.5	NA	NA	NA	NA	NA	NA	5.9	NA	NA
MW-1	25-Apr-89	5	11	<10	<0.025	0.11	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	9.6	<10	NA
MW-1	25-Apr-89	5/10[c]	63	<10	0.042	0.14	NA	0.16	NA	NA	NA	NA	NA	NA	NA	7.6	<10	NA
MW-2	25-Apr-89	5	<10	<10	<0.025	0.34	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	13	<10	NA
MW-2	25-Apr-89	5/10/15[c]	<10	<10	<0.025	0.15	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	4.0	<10	NA
MW-3	26-Apr-89	5	<10	<10	<0.025	<0.025	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	3.9	<10	NA
MW-3	26-Apr-89	5/10[c]	<10	<10	<0.025	0.068	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	5.1	<10	NA

Table 2. Cumulative Soil Analytical Results, Shell-branded Service Station, 630 High Street, Oakland, California

Sample ID	Date	Depth (ft)	TPHg mg/Kg	TPHd mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Total Xylenes mg/Kg	MTBE mg/Kg	DIPE mg/Kg	ETBE mg/Kg	TAME mg/Kg	TBA mg/Kg	1,2-DCA mg/Kg	EDB mg/Kg	Lead mg/Kg	TPH-mo	O&G
MW-4	26-Apr-89	5	<10	<10	**0.046**	**0.21**	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**26**	<10	NA
MW-4	26-Apr-89	5/10[c]	<10	<10	<0.025	**0.066**	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**27**	<10	NA
MW-5	17-Aug-89	5	<10	<10	<0.025	<0.025	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**14.0**	<10	<50
MW-5	17-Aug-89	10	<10	<10	<0.025	<0.025	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**5.9**	<10	<50
MW-6	16-Aug-89	5	<10	<10	<0.025	**0.057**	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**5.6**	<10	**220**
MW-6	16-Aug-89	10	<10	<10	<0.025	<0.025	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**4.3**	<10	<50
MW-7	15-Aug-89	5	<10	<10	<0.025	**0.040**	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**9.8**	<10	<50
MW-7	15-Aug-89	10	<10	<10	<0.025	<0.025	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**3.7**	<10	<50
MW-8	15-Aug-89	5	<10	<10	<0.025	<0.025	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**5.1**	<10	<50
MW-8	15-Aug-89	10	<10	<10	<0.025	<0.025	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**2.6**	<10	<50
MW-9	15-Nov-89	5	<1	<1	<0.0025	**0.013**	NA	<0.0025	NA	NA	NA	NA	NA	NA	NA	**170**	**10**	NA
MW-10	16-Nov-89	5	<1	<1	<0.0025	**0.049**	NA	<0.0025	NA	NA	NA	NA	NA	NA	NA	**120**	**240**	NA
MW-10	16-Nov-89	10	<1	**380**	<0.0025	<0.0025	NA	<0.0025	NA	NA	NA	NA	NA	NA	NA	**3.1**	**3.1**	NA
SB-1	27-Apr-89	5	**12**[b]	**27**	<0.025	**0.10**	NA	**0.14**	NA	NA	NA	NA	NA	NA	NA	71	**85**	NA
SB-2	27-Apr-89	5	<10	<10	**0.042**	**0.054**	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**16**	<10	NA
SB-2	27-Apr-89	5/10[c]	<10	<10	<0.025	**0.04**	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**10**	**130**	NA
SB-3	15-Aug-89	5	<10	<10	<0.025	**0.22**	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**66**	<10	**290**
SB-3	15-Aug-89	10	<10	<10	<0.025	**0.045**	NA	<0.075	NA	NA	NA	NA	NA	NA	NA	**4.2**	<10	<50

Table 2. Cumulative Soil Analytical Results, Shell-branded Service Station, 630 High Street, Oakland, California

Sample ID	Date	Depth (ft)	TPHg mg/Kg	TPHd mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Total Xylenes mg/Kg	MTBE mg/Kg	DIPE mg/Kg	ETBE mg/Kg	TAME mg/Kg	TBA mg/Kg	1,2-DCA mg/Kg	EDB mg/Kg	Lead mg/Kg	TPH-mo	O&G
SB-4	15-Nov-89	5	<1	**16**	<0.0025	**0.032**	NA	<0.0025	NA	NA	NA	NA	NA	NA	NA	**220**	**77**	NA
SB-4	15-Nov-89	9	<1	<1	<0.0025	**0.056**	NA	<0.0025	NA	NA	NA	NA	NA	NA	NA	**3.9**	**11**	NA

Notes and Abbreviations

TPHg = Total petroleum hydrocarbons as gasoline, analyzed by EPA Method 8260B

TPHd= Total petroleum hydrocarbons as diesel, analyzed by EPA Method 8015

Benzene, ethylbenzene, toluene, xylenes, analyzed by EPA Method 8260B

MTBE = Methyl tertiary-butyl ether, analyzed by EPA Method 8260B

DIPE (di-isopropyl ether), ETBE (ethyl tertiary butyl ether), Tame (tertiary amyl methyl ether), and TBA (tertiary butyl alcohol) by EPA Method 8260B

1,2-DCA and EDB by EPA Method 8260B

TPH-mo = Total petroleum hydrocarbons as motor oil

O&G = Oil and grease

mg/Kg = Milligrams per kilogram (parts per million)

<x = Below laboratory detection limit of X

a = Hydrocarbon reported is in the late diesel range and does not match lab standard for diesel

b = Sample contains higher boiling hydrocarbons not characteristic with gasoline

c = Composite sample

Table 3. Cumulative Grab Groundwater Analytical Results, Shell-branded Service Station, 630 High Street, Oakland, California.

Sample ID	Date	Sample Interval (fbg)	TPHg µg/L	TPHd µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	1,2-DCA µg/L	EDB µg/L
No Recovery	NA	6-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-5-10.0W	18-Jan-06	10-14	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	<0.50	<0.50
No Recovery	NA	20-24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-5-40.5W	18-Jan-06	40.5-44.5	<50	120 [a]	0.93	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	0.69	<0.50
SB-6-W10.0	17-Jan-06	10-12	<50	200 [b]	<0.50	<0.50	<0.50	<1.0	19	<2.0	<2.0	<2.0	<5.0	<0.50	<0.50
SB-6-W17.5	17-Jan-06	17.5-21.5	<50	62 [a]	<0.50	<0.50	<0.50	<1.0	5.4	<2.0	<2.0	<2.0	<5.0	<0.50	<0.50
SB-6-38W	17-Jan-06	38-42	<50	85 [a]	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	<0.50	<0.50
No Recovery	NA	8-12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-7-12.0W	18-Jan-06	12-15	2,700	1,200 [c]	<0.50	<0.50	0.64	1.9	37	<2.0	<2.0	<2.0	95	<0.50	<0.50
No Recovery	NA	24-28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-7-38.0W	18-Jan-06	38-42	56	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	<0.50	<0.50
No Recovery	NA	6-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-8-10.0W	23-Jan-06	10-14	2,400	4,900 [c]	<2.0	<2.0	<2.0	<4.0	7.6	<8.0	<8.0	<8.0	220	<2.0	<2.0
No Recovery	NA	20-24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-8-40.0W	23-Jan-06	40-44	180	<50	0.52	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	0.54	<0.50
No Recovery	NA	6-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-9-9.0W	18-Jan-06	9-13	<50	<50	<0.50	<0.50	<0.50	1.7	6.7	<2.0	<2.0	<2.0	<5.0	<0.50	<0.50
SB-9-20.0W	18-Jan-06	20-24	<50	<50	<0.50	<0.50	<0.50	<1.0	6.5	<2.0	<2.0	<2.0	<5.0	<0.50	<0.50
SB-9-40.0W	18-Jan-06	40-44	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	0.56	<0.50
TP-W	29-Oct-02	NA	500	7,700	6.6	33	<2.0	17	1,200	NA	NA	NA	NA	NA	NA
X-H20	08-Nov-02	NA	8,300	160,000 [a]	51	350	220	1,300	190	NA	NA	NA	NA	NA	NA

ATTACHMENT 5

Table 3. Cumulative Grab Groundwater Analytical Results, Shell-branded Service Station, 630 High Street, Oakland, California.

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline, analyzed by EPA Method 8260B

TPHd = Total petroleum hydrocarbons as diesel, analyzed by EPA Method 8015

Benzene, ethylbenzene, toluene, xylenes, analyzed by EPA Method 8260B

MTBE = Methyl tertiary butyl ether, analyzed by EPA Method 8260B

DIPE (di-isopropyl ether), ETBE (ethyl tertiary butyl ether), Tame (tertiary amyl methyl ether), and TBA (tertiary butyl alcohol) by EPA Method 8260B

1,2-DCA and EDB by EPA Method 8260B

µg/L = = Micrograms per liter (parts per billion)

fbg = Feet below grade

<x = Below laboratory detection limit of X

a = Hydrocarbon reported does not match lab standard for diesel

b = The concentration reported reflects individual or discrete unidentified peaks not matching typical fuel pattern; and the hydrocarbon reported does not match lab standard for diesel

c = Hydrocarbon reported is in the early diesel range and does not match lab standard for diesel

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	01/29/1991	11,000	21,000 a	310	41	500	400	NA	NA	NA	NA	NA	NA	99.35	10.79	88.56	NA
MW-1	04/30/1991	8,300	2,100	250	32	310	300	NA	NA	NA	NA	NA	NA	99.35	9.48	89.87	NA
MW-1	07/22/1991	11,000	3,800	310	36	290	280	NA	NA	NA	NA	NA	NA	99.35	10.53	88.82	NA
MW-1	02/21/1992	7,300	8,900 b	200	36	340	270	NA	NA	NA	NA	NA	NA	99.35	8.31	91.04	NA
MW-1	05/22/1992	7,600	18,000 b,c	140	<50	300	140	NA	NA	NA	NA	NA	NA	99.35	10.02	89.33	NA
MW-1	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.35	10.06	89.29	NA
MW-1	08/20/1992	9,100	5,200 b	530	340	860	540	NA	NA	NA	NA	NA	NA	99.35	10.32	89.03	NA
MW-1	11/18/1992	15,000	4,100 b	220	50	790	340	NA	NA	NA	NA	NA	NA	99.35	10.64	88.71	NA
MW-1	02/09/1993	7,000	1,200	130	23	220	160	NA	NA	NA	NA	NA	NA	99.35	8.71	90.64	NA
MW-1	06/16/1993	4,800	NA	150	31	320	130	NA	NA	NA	NA	NA	NA	99.35	9.71	89.64	1.73/1.58 k
MW-1	08/24/1993	10,000	NA	170	27	610	170	NA	NA	NA	NA	NA	NA	99.35	10.23	89.12	1.49/1.70 k
MW-1	11/23/1993	7,600	NA	190	<12	430	140	NA	NA	NA	NA	NA	NA	99.35	10.48	88.87	1.77/2.80 k
MW-1	02/14/1994	8,000	NA	150	47	210	68	NA	NA	NA	NA	NA	NA	99.35	9.17	90.18	6.2/2.5 k
MW-1	05/25/1994	8,800	NA	95	<10	210	63	NA	NA	NA	NA	NA	NA	99.35	9.52	89.83	NA
MW-1	08/04/1994	6,200	NA	150	14	350	180	NA	NA	NA	NA	NA	NA	99.35	10.51	88.84	NA
MW-1	11/08/1994	7,600	NA	190	<10	480	200	NA	NA	NA	NA	NA	NA	99.35	10.20	89.15	NA
MW-1	02/01/1995	8,200	NA	130	21	170	130	NA	NA	NA	NA	NA	NA	99.35	6.94	92.41	NA
MW-1	05/04/1995	7,000	NA	130	47	190	180	NA	NA	NA	NA	NA	NA	99.35	8.40	90.95	NA
MW-1	05/16/1997	5,600	NA	57	<10	26	29	84	NA	NA	NA	NA	NA	99.35	9.93	89.42	1.5
MW-1	11/03/1997	6,900	NA	81	<10	32	30	170	NA	NA	NA	NA	NA	99.35	10.27	89.08	0.8/0.6 k
MW-1	06/05/1998	4,200	NA	68	7.6	39	69	84	NA	NA	NA	NA	NA	99.35	8.95	90.40	1.0/0.5 k
MW-1	11/06/1998	6,200	NA	87	<2.5	48	55	200	NA	NA	NA	NA	NA	99.35	10.69	88.66	1.2/1.8
MW-1	06/07/1999	5,210	NA	33.6	21.9	7.42	<5.00	153	205	NA	NA	NA	NA	99.35	9.81	89.54	NA
MW-1	06/22/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.35	9.55	89.80	0.8
MW-1	08/27/1999	6,080	NA	46.0	<20.0	<20.0	26.1	303	429	NA	NA	NA	NA	99.35	10.00	89.35	0.7/1.5
MW-1	11/11/1999	7,660	NA	92.0	20.4	28.2	46.1	520	542	NA	NA	NA	NA	99.35	10.27	89.08	1.3/1.8
MW-1	04/26/2000	3,730	NA	69.4	<5.00	9.42	28.6	206	NA	NA	NA	NA	NA	99.35	9.54	89.81	2.30/2.71
MW-1	11/02/2000	4,930	NA	81.3	5.32	18.3	29.8	440	NA	NA	NA	NA	NA	99.35	8.90	90.45	3.0/3.2

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	05/31/2001	6,800	NA	64	7.1	7.2	28	NA	790	NA	NA	NA	NA	99.35	9.25	90.10	2.3/2.6
MW-1	11/19/2001	6,100	NA	41	4.9	10	25	NA	710	NA	NA	NA	NA	99.35	10.09	89.26	1.2/0.8
MW-1	01/29/2002	7,100	NA	67	5.6	7.3	22	NA	510	NA	NA	NA	NA	99.35	9.13	90.22	4.3/6.0
MW-1	06/05/2002	4,500	NA	47	4.9	8.9	22	NA	880	NA	NA	NA	NA	99.35	9.95	89.40	NA
MW-1	07/31/2002	8,600	NA	41	6.0	17	23	NA	920	NA	NA	NA	NA	12.02	10.34	1.68	NA
MW-1	12/26/2002	6,900	NA	16	2.8	5.2	16	NA	540	NA	NA	NA	NA	12.02	7.56	4.46	NA
MW-1	01/30/2003	7,500	NA	20	3.5	4.9	15	NA	500	NA	NA	NA	NA	12.02	8.49	3.53	NA
MW-1	05/13/2003	7,200	6,300 d	32	<25	<25	<50	NA	650	NA	NA	NA	NA	12.02	8.99	3.03	NA
MW-1	07/29/2003	8,800	NA	50	7.3	16	26	NA	740	NA	NA	NA	NA	12.02	9.98	2.04	NA
MW-1	11/25/2003	8,400	NA	44	7.8	9.7	24	NA	870	NA	NA	NA	NA	12.02	9.92	2.10	NA
MW-1	02/12/2004	5,700	NA	28	5.4	9.1	20	NA	620	NA	NA	NA	NA	12.02	9.04	2.98	NA
MW-1	04/30/2004	8,200	NA	43	6.3	26	24	NA	810	NA	NA	NA	NA	12.02	9.65	2.37	NA
MW-1	08/23/2004	6,300	NA	34	<5.0	21	22	NA	510	<20	<20	<20	630	12.02	10.15	1.87	NA
MW-1	11/08/2004	7,200	NA	19	<5.0	15	19	NA	280	NA	NA	NA	NA	12.02	9.42	2.60	NA
MW-1	02/02/2005	6,800	NA	15	5.0	16	14	NA	130	NA	NA	NA	NA	12.02	8.75	3.27	NA
MW-1	05/09/2005	4,100	NA	<10	<10	21	<20	NA	69	NA	NA	NA	NA	12.02	8.30	3.72	NA
MW-1	08/04/2005	5,500	NA	24	12	13	30	NA	220	<40	<40	<40	230	12.02	9.70	2.32	NA
MW-1	**11/03/2005**	**3,180**	**2,790 o**	**26.3**	**3.67**	**4.14**	**9.86**	**NA**	**186**	**NA**	**NA**	**NA**	**NA**	**12.02**	**10.10**	**1.92**	**NA**
MW-2	01/29/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	13.25	87.90	NA
MW-2	04/30/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	10.94	90.21	NA
MW-2	07/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	12.14	89.01	NA
MW-2	02/21/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	10.08	91.07	NA
MW-2	05/22/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	11.52	89.63	NA
MW-2	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.50	89.65	NA
MW-2	08/20/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	11.72	89.43	NA
MW-2	11/18/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	13.06	88.09	NA
MW-2	02/09/1993	95	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	10.06	91.09	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	06/16/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	11.60	89.55	NA
MW-2	08/24/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	12.16	88.99	NA
MW-2	11/23/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	12.74	88.41	NA
MW-2	02/14/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	10.91	90.24	NA
MW-2	05/25/1994	100	NA	1.2	4.9	2.3	13	NA	NA	NA	NA	NA	NA	101.15	11.06	90.09	NA
MW-2	08/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	12.04	89.11	NA
MW-2	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	12.38	88.77	NA
MW-2	02/01/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	8.76	92.39	NA
MW-2	05/04/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	101.15	10.20	90.95	NA
MW-2	05/16/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.28	89.87	NA
MW-2	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.71	89.44	NA
MW-2	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	9.85	91.30	NA
MW-2	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	12.60	88.55	NA
MW-2	06/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.03	90.12	NA
MW-2	08/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	19.2	34.5	NA	NA	NA	NA	101.15	10.98	90.17	0.71/4.0
MW-2	11/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	10.33	90.82	NA
MW-2	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	9.58	91.57	NA
MW-2	11/02/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	10.03	91.12	NA
MW-2	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	10.01	91.14	NA
MW-2	11/19/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.63	89.52	NA
MW-2	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	10.12	91.03	NA
MW-2	06/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.15	11.03	90.12	NA
MW-2	07/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.80	11.43	2.37	NA
MW-2	12/26/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.80	9.94	3.86	NA
MW-2	01/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.80	10.06	3.74	NA
MW-2	05/13/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.80	10.22	3.58	NA
MW-2	07/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.80	11.30	2.50	NA
MW-2	11/25/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.80	11.73	2.07	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	02/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.80	10.32	3.48	NA
MW-2	04/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.80	10.78	3.02	NA
MW-2	08/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.80	11.48	2.32	NA
MW-2	11/08/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.80	11.17	2.63	NA
MW-2	02/02/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.80	9.85	3.95	NA
MW-2	05/09/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.80	9.40	4.40	NA
MW-2	08/04/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.80	10.96	2.84	NA
MW-2 p	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	01/29/1991	2,300	410 a	17	14.1	10	230	NA	NA	NA	NA	NA	NA	99.49	11.09	88.40	NA
MW-3	04/30/1991	<50	260	22	4	7	17	NA	NA	NA	NA	NA	NA	99.49	9.57	89.92	NA
MW-3	07/22/1991	2,000	310	51	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.49	10.66	88.83	NA
MW-3	02/21/1992	2,800	640 d	15	2.8	<2.5	12	NA	NA	NA	NA	NA	NA	99.49	8.97	90.52	NA
MW-3	05/22/1992	3,700	220 b,c	27	11	20	110	NA	NA	NA	NA	NA	NA	99.49	9.32	90.17	NA
MW-3	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.22	89.27	NA
MW-3	08/20/1992	13,000	340 b	72	85	71	140	NA	NA	NA	NA	NA	NA	99.49	10.44	89.05	NA
MW-3	11/18/1992	2,100	430 b	21	3.6	11	13	NA	NA	NA	NA	NA	NA	99.49	10.79	88.70	NA
MW-3	02/09/1993	3,300	83	21	5.6	6.1	<0.5	NA	NA	NA	NA	NA	NA	99.49	9.35	90.14	NA
MW-3	06/16/1993	3,500 e	NA	66	6	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.49	9.56	89.93	NA
MW-3	08/24/1993	3,400 e	NA	110	<5	<5	<5	NA	NA	NA	NA	NA	NA	99.49	10.51	88.98	NA
MW-3	11/23/1993	3,000	NA	36	44	6.9	23	NA	NA	NA	NA	NA	NA	99.49	10.77	88.72	NA
MW-3	02/14/1994	4,700 g	NA	9.9	5.2	8.8	<5.0	NA	NA	NA	NA	NA	NA	99.49	9.61	89.88	NA
MW-3	05/25/1994	1,200	NA	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	99.49	10.00	89.49	NA
MW-3	08/04/1994	2,600	NA	29	<5	14	11	NA	NA	NA	NA	NA	NA	99.49	10.63	88.86	NA
MW-3	11/08/1994	2,600	NA	5.5	1.5	1.9	0.9	NA	NA	NA	NA	NA	NA	99.49	11.02	88.47	NA
MW-3	02/01/1995	4,600	NA	27	1.2	3.2	2.5	NA	NA	NA	NA	NA	NA	99.49	8.31	91.18	NA
MW-3	05/04/1995	1,800	NA	140	11	11	16	NA	NA	NA	NA	NA	NA	99.49	8.70	90.79	NA
MW-3	05/16/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.30	89.19	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-3	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.52	88.97	NA
MW-3	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.49	9.18	90.31	NA
MW-3	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.49	11.00	88.49	NA
MW-3	06/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.93	88.56	NA
MW-3	08/27/1999	8,600	NA	2,410	135	279	1,390	26,400	29,500	NA	NA	NA	NA	99.49	10.23	89.26	0.8/0.7
MW-3	11/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.49	10.46	89.03	NA
MW-3	04/26/2000	7,100	NA	1,310	573	89.2	376	35,000	38,000	NA	NA	NA	NA	99.49	9.45	90.04	2.42/2.63
MW-3	11/02/2000	4,750	NA	1,210	29.3	50.5	125	8,750	8,960 i	NA	NA	NA	NA	99.49	10.05	89.44	2.0/2.5
MW-3	05/31/2001	5,400	NA	860	<20	29	<20	NA	10,000	NA	NA	NA	NA	99.49	10.38	89.11	1.8/2.0
MW-3	11/19/2001	3,200	NA	440	7.8	8.6	23	NA	3,400	NA	NA	NA	NA	99.49	10.29	89.20	3.1/1.5
MW-3	01/29/2002	2,900	NA	370	<20	<20	57	NA	5,400	NA	NA	NA	NA	99.49	9.07	90.42	5.2/3.8
MW-3	06/05/2002	3,500	NA	370	<10	<10	<10	NA	4,700	NA	NA	NA	NA	99.49	10.03	89.46	NA
MW-3	07/31/2002	4,100	NA	290	<5.0	<5.0	<5.0	NA	2,100	NA	NA	NA	NA	12.12	10.32	1.80	NA
MW-3	12/26/2002	1,500	NA	130	<2.5	<2.5	<2.5	NA	1,300	NA	NA	NA	NA	12.12	8.24	3.88	NA
MW-3	01/30/2003	2,300	NA	220	8.0	<5.0	<5.0	NA	1,800	NA	NA	NA	NA	12.12	9.94	2.18	NA
MW-3	05/13/2003	3,800	1,000 d	230	<10	<10	<20	NA	2,000	NA	NA	NA	NA	12.12	9.53	2.59	NA
MW-3	07/29/2003	5,000	NA	200	<10	<10	<20	NA	1,300	NA	NA	NA	NA	12.12	10.04	2.08	NA
MW-3	11/25/2003	3,100	NA	18	<5.0	7.2	<10	NA	690	NA	NA	NA	NA	12.12	10.34	1.78	NA
MW-3	02/12/2004	2,400	NA	20	<5.0	<5.0	<10	NA	780	NA	NA	NA	NA	12.12	9.75	2.37	NA
MW-3	04/30/2004	2,500	NA	29	<5.0	<5.0	<10	NA	800	NA	NA	NA	NA	12.12	9.78	2.34	NA
MW-3	08/23/2004	4,300	NA	7.5	<5.0	<5.0	<10	NA	530	<20	<20	<20	1,000	12.12	10.30	1.82	NA
MW-3	11/08/2004	4,200	NA	8.9	<5.0	5.7	<10	NA	390	NA	NA	NA	NA	12.12	9.82	2.30	NA
MW-3	02/02/2005	4,400	NA	14	<2.5	<2.5	8.2	NA	320	NA	NA	NA	NA	12.12	9.35	2.77	NA
MW-3	05/09/2005	2,800	NA	19	<5.0	<5.0	<10	NA	320	NA	NA	NA	NA	12.12	8.97	3.15	NA
MW-3	08/04/2005	1,900 n	NA	<5.0	<5.0	<5.0	<10	NA	190	<20	<20	<20	1,900	12.12	9.91	2.21	NA
MW-3	**11/03/2005**	**1,860**	**864 o**	**3.82**	**1.86**	**0.850**	**1.10**	**NA**	**164**	**NA**	**NA**	**NA**	**NA**	**12.12**	**10.17**	**1.95**	**NA**
MW-4	01/29/1991	2,600	1,300	83	<0.5	<0.5	110	NA	NA	NA	NA	NA	NA	99.24	10.76	88.48	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-4	04/30/1991	2,600	750	22	4	7	17	NA	NA	NA	NA	NA	NA	99.24	9.45	89.79	NA
MW-4	07/22/1991	4,300	1,200	120	<0.5	<0.5	10	NA	NA	NA	NA	NA	NA	99.24	10.34	88.90	NA
MW-4	02/21/1992	2,000	8,300 b	31	6.3	3.5	6.6	NA	NA	NA	NA	NA	NA	99.24	7.60	91.64	NA
MW-4	05/22/1992	3,600	3,400 b,c	55	5	3	10	NA	NA	NA	NA	NA	NA	99.24	9.90	89.34	NA
MW-4	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.02	89.22	NA
MW-4	08/20/1992	3,100	3,400	100	45	14	45	NA	NA	NA	NA	NA	NA	99.24	10.32	88.92	NA
MW-4	11/18/1992	2,200	1,400	32	12	4.2	24	NA	NA	NA	NA	NA	NA	99.24	10.51	88.73	NA
MW-4	02/09/1993	1,500	180	1.1	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.24	8.13	91.11	NA
MW-4	06/16/1993	1,100	NA	120	47	5.1	19	NA	NA	NA	NA	NA	NA	99.24	9.60	89.64	1.86/4.82 k
MW-4	08/24/1993	2,700	NA	46	11	.25	0.97	NA	NA	NA	NA	NA	NA	99.24	10.05	89.19	1.46/1.27 k
MW-4	11/23/1993	2,500	NA	23	5.7	3.7	16	NA	NA	NA	NA	NA	NA	99.24	10.25	89.99	5.29/6.59 k
MW-4	02/14/1994	1,500	NA	12	7.8	<2.5	<2.5	NA	NA	NA	NA	NA	NA	99.24	8.83	90.41	2.1/1.9 k
MW-4	05/25/1994	810	NA	20	<2	<2	4	NA	NA	NA	NA	NA	NA	99.24	9.64	89.60	NA
MW-4	08/04/1994	2,300	NA	99	15	6.3	24	NA	NA	NA	NA	NA	NA	99.24	10.62	88.62	NA
MW-4	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.24	9.28	89.96	NA
MW-4	02/01/1995	960	NA	5.6	2.2	2.6	2.8	NA	NA	NA	NA	NA	NA	99.24	6.52	92.72	NA
MW-4	05/04/1995	960	NA	20	4.7	3.7	5.6	NA	NA	NA	NA	NA	NA	99.24	8.40	90.84	NA
MW-4	05/16/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.24	9.35	89.89	NA
MW-4	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.17	89.07	NA
MW-4	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.24	8.85	90.39	NA
MW-4	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.17	89.07	NA
MW-4	06/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.24	11.06	88.18	NA
MW-4	08/27/1999	1,520	NA	32.8	6.25	<2.50	5.65	61.5	<2.00	NA	NA	NA	NA	99.24	10.25	88.99	1.0/1.4
MW-4	11/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.11	89.13	NA
MW-4	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.24	9.18	90.06	NA
MW-4	11/02/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.24	9.72	89.52	NA
MW-4	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.24	9.29	89.95	NA
MW-4	11/19/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.24	9.98	89.26	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-4	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.24	9.12	90.12	NA
MW-4	06/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.24	10.09	89.15	NA
MW-4	07/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.90	10.30	1.60	NA
MW-4	12/26/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.90	7.22	4.68	NA
MW-4	01/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.90	9.02	2.88	NA
MW-4	05/13/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.90	8.82	3.08	NA
MW-4	07/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.90	9.88	2.02	NA
MW-4	11/25/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.90	9.84	2.06	NA
MW-4	02/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.90	9.08	2.82	NA
MW-4	04/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.90	9.62	2.28	NA
MW-4	08/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.90	9.90	2.00	NA
MW-4	11/08/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.90	9.54	2.36	NA
MW-4	02/02/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.90	8.68	3.22	NA
MW-4	05/09/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.90	8.23	3.67	NA
MW-4	08/04/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.90	9.31	2.59	NA
MW-5	01/29/1991	3,100	720	86	<0.5	24	28	NA	NA	NA	NA	NA	NA	100.08	11.72	88.36	NA
MW-5	04/30/1991	<50	90	46	<0.5	9	9	NA	NA	NA	NA	NA	NA	100.08	10.45	89.63	NA
MW-5	07/22/1991	1,700	300	23	<0.5	6,700	10,000	NA	NA	NA	NA	NA	NA	100.08	11.43	88.65	NA
MW-5	02/21/1992	240	180 h	1	<0.5	<0.5	1	NA	NA	NA	NA	NA	NA	100.08	9.24	90.84	NA
MW-5	05/22/1992	6,200	7,100 b,c	6	95	56	99	NA	NA	NA	NA	NA	NA	100.08	10.97	89.11	NA
MW-5	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100.08	10.98	89.10	NA
MW-5	08/20/1992	7,400	120 b	56	95	91	150	NA	NA	NA	NA	NA	NA	100.08	11.14	88.94	NA
MW-5	11/18/1992	3,300	320 b	27	<12.5	20	470	NA	NA	NA	NA	NA	NA	100.08	11.21	88.87	NA
MW-5	02/09/1993	160	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	100.08	10.01	90.07	NA
MW-5	06/16/1993	140	NA	0.8	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	100.08	11.05	89.03	1.53/2.72 k
MW-5	08/24/1993	1,000	NA	7.9	<1	2.2	<1.5	NA	NA	NA	NA	NA	NA	100.08	11.32	88.76	2.69/1.41 k
MW-5	11/23/1993	2,000	NA	67	15	11	33	NA	NA	NA	NA	NA	NA	100.08	11.35	88.73	8.20/3.09 k

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-5	02/14/1994	660	NA	1.3	<0.5	0.5	0.7	NA	NA	NA	NA	NA	NA	100.08	10.34	89.74	2.0/1.9 k
MW-5	05/25/1994	670	NA	0.65	<0.5	2.6	<0.5	NA	NA	NA	NA	NA	NA	100.08	10.54	89.54	NA
MW-5	08/04/1994	700	NA	5	<0.5	1.2	<0.5	NA	NA	NA	NA	NA	NA	100.08	11.50	88.58	NA
MW-5	11/08/1994	810	NA	4.2	<0.5	1.5	0.8	NA	NA	NA	NA	NA	NA	100.08	11.24	88.84	NA
MW-5	02/01/1995	110	NA	7	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	100.08	9.05	91.03	NA
MW-5	05/04/1995	260	NA	3.1	1.3	2	1.5	NA	NA	NA	NA	NA	NA	100.08	10.35	89.73	NA
MW-5	05/16/1997	440	NA	2.4	3.1	1.6	3.3	7.1	NA	NA	NA	NA	NA	100.08	11.21	88.87	2.9
MW-5	11/03/1997	1,400	NA	34	<2.5	2.8	4.4	33	NA	NA	NA	NA	NA	100.08	11.43	88.65	3.0/1.2 k
MW-5	06/05/1998	230	NA	3.6	0.5	<0.50	1.3	34	NA	NA	NA	NA	NA	100.08	10.35	89.73	3.2/1.4 k
MW-5	11/06/1998	1,800	NA	29	<0.50	3.8	7.1	26	NA	NA	NA	NA	NA	100.08	11.89	88.19	2.6/3.0
MW-5	06/07/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	19.5	NA	NA	NA	NA	NA	100.08	10.28	89.80	NA
MW-5	06/22/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100.08	10.74	89.34	0.6
MW-5	08/27/1999	254	NA	5.09	1.08	<0.500	<0.500	9.97	12.0	NA	NA	NA	NA	100.08	11.01	89.07	NA
MW-5	11/11/1999	549	NA	16.4	3.29	2.18	3.16	18.2	NA	NA	NA	NA	NA	100.08	11.33	88.75	2.3/2.7
MW-5	04/26/2000	338	NA	0.787	2.30	<0.500	3.01	21.7	NA	NA	NA	NA	NA	100.08	10.32	89.76	1.99/3.01
MW-5	11/02/2000	507	NA	0.659	2.39	2.70	3.88	20.0	NA	NA	NA	NA	NA	100.08	10.75	89.33	4.0/2.0
MW-5	05/31/2001	67	NA	<0.50	<0.50	<0.50	<0.50	NA	87	NA	NA	NA	NA	100.08	10.53	89.55	3.8/2.1
MW-5	11/19/2001	850	NA	2.8	1.4	2.3	8.5	NA	57	NA	NA	NA	NA	100.08	10.88	89.20	2.6/1.9
MW-5	01/29/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	95	NA	NA	NA	NA	100.08	9.95	90.13	5.5/3.6
MW-5	06/05/2002	140	NA	<0.50	<0.50	<0.50	<0.50	NA	36	NA	NA	NA	NA	100.08	10.73	89.35	NA
MW-5	07/31/2002	520	NA	1.1	2.0	<0.50	<0.50	NA	45	NA	NA	NA	NA	12.72	11.00	1.72	NA
MW-5	12/26/2002	1,300	NA	75	3.7	<2.0	310	NA	600	NA	NA	NA	NA	12.72	9.24	3.48	NA
MW-5	01/30/2003	<50	NA	0.73	<0.50	1.4	<0.50	NA	120	NA	NA	NA	NA	12.72	10.05	2.67	NA
MW-5	05/13/2003	210	100 d	<0.50	<0.50	<0.50	<1.0	NA	39	NA	NA	NA	NA	12.72	9.99	2.73	NA
MW-5	07/29/2003	490	NA	<0.50	<0.50	<0.50	<1.0	NA	45	NA	NA	NA	NA	12.72	10.82	1.90	NA
MW-5	11/25/2003	280 m	NA	<0.50	<0.50	<0.50	<1.0	NA	35	NA	NA	NA	NA	12.72	11.01	1.71	NA
MW-5	02/12/2004	710 m	NA	<0.50	<0.50	<0.50	<1.0	NA	49	NA	NA	NA	NA	12.72	10.13	2.59	NA
MW-5	04/30/2004	130 m	NA	<0.50	<0.50	<0.50	<1.0	NA	41	NA	NA	NA	NA	12.72	10.62	2.10	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-5	08/23/2004	610	NA	<0.50	<0.50	<0.50	<1.0	NA	43	NA	NA	NA	NA	12.72	10.42	2.30	NA
MW-5	11/08/2004	420	NA	<0.50	<0.50	<0.50	<1.0	NA	35	NA	NA	NA	NA	12.72	10.60	2.12	NA
MW-5	02/02/2005	510	NA	<0.50	<0.50	<0.50	<1.0	NA	20	NA	NA	NA	NA	12.72	9.80	2.92	NA
MW-5	05/09/2005	170	NA	<0.50	<0.50	<0.50	<1.0	NA	12	NA	NA	NA	NA	12.72	9.38	3.34	NA
MW-5	08/04/2005	290	NA	<0.50	<0.50	<0.50	<2.0	NA	19	NA	NA	NA	<60	12.72	10.72	2.00	NA
MW-5	**11/03/2005**	**107**	**208 o**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**NA**	**18.6**	**NA**	**NA**	**NA**	**NA**	**12.72**	**10.99**	**1.73**	**NA**
MW-6	01/29/1991	<50	860	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.56	10.23	88.33	NA
MW-6	04/30/1991	<50	1,100	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.56	9.15	89.41	NA
MW-6	07/22/1991	<50	1,200	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.56	10.10	88.46	NA
MW-6	02/21/1992	<50	60 d	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.56	7.15	91.41	NA
MW-6	05/22/1992	<50	650 c	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.56	9.55	89.01	NA
MW-6	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.56	9.53	89.03	NA
MW-6	08/20/1992	140 e	510 c	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.56	9.84	88.72	NA
MW-6	11/18/1992	200 e	350	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.56	10.03	88.53	NA
MW-6	02/09/1993	14,000 e	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.56	7.91	90.65	NA
MW-6	06/16/1993	5,700 e	NA	<0.5	22	<0.5	34	NA	NA	NA	NA	NA	NA	98.56	8.74	89.82	8.46/9.73 k
MW-6	08/24/1993	4,300 e	NA	<12.5	<12.5	<12.5	<12.5	NA	NA	NA	NA	NA	NA	98.56	9.66	88.90	2.15/1.52 k
MW-6	11/23/1993	3,300 e	NA	<12	<12	<12	<12	NA	NA	NA	NA	NA	NA	98.56	9.86	88.70	3.86/6.75 k
MW-6	02/14/1994	14,000 e	NA	<12.5	<12.5	<12.5	<12.5	NA	NA	NA	NA	NA	NA	98.56	8.27	90.29	2.3/5.2 k
MW-6	05/25/1994	<1,000 i	NA	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	98.56	8.89	89.67	NA
MW-6	08/04/1994	250 j	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.56	10.10	88.46	NA
MW-6	11/08/1994	4,600 e	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.56	8.98	89.58	NA
MW-6	02/01/1995	710	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.56	7.07	91.49	NA
MW-6	05/04/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.56	8.56	90.00	NA
MW-6	05/16/1997	<500	NA	<5.0	<5.0	<5.0	<5.0	1,700	NA	NA	NA	NA	NA	98.56	9.57	88.99	6.2
MW-6	11/03/1997	<500	NA	<5.0	<5.0	<5.0	<5.0	990	NA	NA	NA	NA	NA	98.56	9.76	88.80	1.4/1.0 k
MW-6	06/05/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	590	NA	NA	NA	NA	NA	98.56	8.50	90.06	1.5/1.1 k

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-6	11/06/1998	<250	NA	<2.5	<2.5	<2.5	<2.5	810	NA	NA	NA	NA	NA	98.56	10.00	88.56	2.0/1.4
MW-6	06/07/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	71.5	NA	NA	NA	NA	NA	98.56	9.35	89.21	NA
MW-6	06/22/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.56	9.20	89.36	1.9
MW-6	08/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	197	276	NA	NA	NA	NA	98.56	9.52	89.04	1.5/7.8
MW-6	11/11/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	212	NA	NA	NA	NA	NA	98.56	9.87	88.69	1.4/1.7
MW-6	04/26/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	236	NA	NA	NA	NA	NA	98.56	9.13	89.43	1.93/2.90
MW-6	11/02/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	497	NA	NA	NA	NA	NA	98.56	9.13	89.43	2.5/3.5
MW-6	05/31/2001	<2,000	NA	<20	<20	<20	<20	NA	5,400	NA	NA	NA	NA	98.56	9.22	89.34	1.8/2.1
MW-6	11/19/2001	<500	NA	5.0	<5.0	<5.0	18	NA	2,600	NA	NA	NA	NA	98.56	9.48	89.08	2.5/1.9
MW-6	01/29/2002	<200	NA	<2.0	<2.0	<2.0	<2.0	NA	1,000	NA	NA	NA	NA	98.56	8.12	90.44	5.6/4.3
MW-6	06/05/2002	<100	NA	<1.0	<1.0	<1.0	<1.0	NA	650	NA	NA	NA	NA	98.56	9.58	88.98	NA
MW-6	07/31/2002	<200	NA	<2.0	<2.0	<2.0	<2.0	NA	860	NA	NA	NA	NA	11.21	9.90	1.31	NA
MW-6	12/26/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	200	NA	NA	NA	NA	11.21	7.13	4.08	NA
MW-6	01/30/2003	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	57	NA	NA	NA	NA	11.21	8.11	3.10	NA
MW-6	05/13/2003	<50	180 d	<0.50	<0.50	<0.50	<1.0	NA	40	NA	NA	NA	NA	11.21	8.69	2.52	NA
MW-6	07/29/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	39	NA	NA	NA	NA	11.21	9.52	1.69	NA
MW-6	11/25/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	44	NA	NA	NA	NA	11.21	9.42	1.79	NA
MW-6	02/12/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	40	NA	NA	NA	NA	11.21	8.86	2.35	NA
MW-6	04/30/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	41	NA	NA	NA	NA	11.21	9.41	1.80	NA
MW-6	08/23/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	43	<2.0	<2.0	<2.0	<5.0	11.21	9.67	1.54	NA
MW-6	11/08/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	34	NA	NA	NA	NA	11.21	8.91	2.30	NA
MW-6	02/02/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	25	NA	NA	NA	NA	11.21	8.50	2.71	NA
MW-6	05/09/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	18	NA	NA	NA	NA	11.21	8.10	3.11	NA
MW-6	08/04/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	23	<2.0	<2.0	<2.0	<5.0	11.21	8.92	2.29	NA
MW-6	**11/03/2005**	**<50.0**	**<100 o**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**NA**	**31.6**	**NA**	**NA**	**NA**	**NA**	**11.21**	**9.45**	**1.76**	**NA**
MW-7	01/29/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	8.91	88.62	NA
MW-7	04/30/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	8.38	89.15	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-7	07/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	9.13	88.40	NA
MW-7	02/21/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	6.87	90.66	NA
MW-7	05/22/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	8.08	89.45	NA
MW-7	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.53	8.82	88.71	NA
MW-7	08/20/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	8.89	88.64	NA
MW-7	11/18/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	9.54	87.99	NA
MW-7	02/09/1993	72	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	7.84	89.69	NA
MW-7	06/16/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	7.80	89.73	NA
MW-7	08/24/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	8.51	89.02	NA
MW-7	11/23/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	8.70	88.83	NA
MW-7	02/14/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	7.52	90.01	NA
MW-7	05/25/1994	<50	NA	<0.5	0.63	<0.5	0.93	NA	NA	NA	NA	NA	NA	97.53	9.04	88.49	NA
MW-7	08/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.53	9.80	87.83	NA
MW-7	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	8.45	89.08	NA
MW-7	02/01/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.53	5.51	92.02	NA
MW-7	05/04/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.53	8.34	89.19	NA
MW-7	05/16/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	2.7	NA	NA	NA	NA	NA	97.53	8.80	88.73	2.8
MW-7	11/03/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	97.53	8.95	88.58	1.6/1.2 k
MW-7	06/05/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	4.3	NA	NA	NA	NA	NA	97.53	7.75	89.78	1.5/1.1 k
MW-7	11/06/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	4.5	NA	NA	NA	NA	NA	97.53	9.20	88.33	4.1/2.2
MW-7	06/07/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	97.53	8.39	89.14	NA
MW-7	06/22/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.53	8.43	89.10	0.4
MW-7	06/22/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.53	8.43	89.10	0.4
MW-7	08/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	4.33	NA	NA	NA	NA	97.53	8.82	88.71	1.3/1.9
MW-7	11/11/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	4.30	NA	NA	NA	NA	NA	97.53	8.64	88.89	1.1/1.0
MW-7	04/26/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	6.59	NA	NA	NA	NA	NA	97.53	8.31	89.22	1.09/2.41
MW-7	11/02/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	7.38	NA	NA	NA	NA	NA	97.53	7.80	89.73	4.0/4.0
MW-7	05/31/2001	<50	NA	<0.50	1.4	<0.50	4.6	NA	5.3	NA	NA	NA	NA	97.53	7.61	89.92	3.2/3.3

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-7	11/19/2001	<50	NA	0.64	0.86	1.6	6.1	NA	7.3	NA	NA	NA	NA	97.53	9.11	88.42	2.6/2.1
MW-7	01/29/2002	<50	NA	0.70	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	97.53	7.85	89.68	2.1/2.3
MW-7	06/05/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	97.53	8.68	88.85	NA
MW-7	07/31/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.17	8.94	1.23	NA
MW-7	12/26/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.17	6.05	4.12	NA
MW-7	01/30/2003	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.17	7.38	2.79	NA
MW-7	05/13/2003	<50	85 d	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	10.17	7.74	2.43	NA
MW-7	07/29/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	2.3	NA	NA	NA	NA	10.17	8.45	1.72	NA
MW-7	11/25/2003	140	NA	<0.50	8.7	2.0	10	NA	2.0	NA	NA	NA	NA	10.17	8.47	1.70	NA
MW-7	02/12/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	2.8	NA	NA	NA	NA	10.17	7.63	2.54	NA
MW-7	04/30/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	2.2	NA	NA	NA	NA	10.17	9.29	0.88	NA
MW-7	08/23/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	1.9	<2.0	<2.0	<2.0	<5.0	10.17	8.68	1.49	NA
MW-7	11/08/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	1.7	NA	NA	NA	NA	10.17	8.19	1.98	NA
MW-7	02/02/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	1.9	NA	NA	NA	NA	10.17	7.65	2.52	NA
MW-7	05/09/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	1.0	NA	NA	NA	NA	10.17	7.20	2.97	NA
MW-7	08/04/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	1.0	<2.0	<2.0	<2.0	<5.0	10.17	7.95	2.22	NA
MW-7	**11/03/2005**	**<50.0**	**<100 o**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**NA**	**1.21**	**NA**	**NA**	**NA**	**NA**	**10.17**	**8.25**	**1.92**	**NA**
MW-8	01/29/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	8.47	88.66	NA
MW-8	04/30/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	7.64	89.49	NA
MW-8	07/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	8.36	88.77	NA
MW-8	02/21/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	6.54	90.59	NA
MW-8	05/22/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	7.68	89.45	NA
MW-8	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	8.16	88.97	NA
MW-8	08/20/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	8.25	88.88	NA
MW-8	11/18/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	8.32	88.81	NA
MW-8	02/09/1993	63	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	5.58	91.55	NA
MW-8	06/16/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	7.19	89.94	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-8	08/24/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	7.98	89.15	NA
MW-8	11/23/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	8.09	89.04	NA
MW-8	02/14/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	9.42	87.71	NA
MW-8	05/25/1994	<50	NA	<0.5	1.1	<0.5	2.5	NA	NA	NA	NA	NA	NA	97.13	7.18	89.95	NA
MW-8	08/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	8.51	88.62	NA
MW-8	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	6.24	90.89	NA
MW-8	02/01/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	3.94	93.19	NA
MW-8	05/04/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	97.13	5.04	92.09	NA
MW-8	05/16/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.65	89.48	NA
MW-8	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.03	90.10	NA
MW-8	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	6.47	90.66	NA
MW-8	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	8.27	88.86	NA
MW-8	06/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	8.69	88.44	NA
MW-8	08/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	NA	NA	NA	NA	97.13	7.82	89.31	1.5/2.0
MW-8	11/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.91	89.22	NA
MW-8	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.10	90.03	NA
MW-8	11/02/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.95	89.18	NA
MW-8	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.22	89.91	NA
MW-8	11/19/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.70	89.43	NA
MW-8	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	6.64	90.49	NA
MW-8	06/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.13	7.78	89.35	NA
MW-8	07/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	8.24	1.51	NA
MW-8	12/26/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	6.13	3.62	NA
MW-8	01/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	6.48	3.27	NA
MW-8	05/13/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	6.80	2.95	NA
MW-8	07/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	7.75	2.00	NA
MW-8	11/25/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	7.53	2.22	NA
MW-8	02/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	6.65	3.10	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-8	04/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	7.33	2.42	NA
MW-8	08/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	7.95	1.80	NA
MW-8	11/08/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	7.07	2.68	NA
MW-8	02/02/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	6.50	3.25	NA
MW-8	05/09/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	6.00	3.75	NA
MW-8	08/04/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	6.52	3.23	NA
MW-8 p	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	01/29/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.72	8.27	91.45	NA
MW-9	04/30/1991	<50	<50	0.6	<0.5	<0.5	1.1	NA	NA	NA	NA	NA	NA	99.72	7.62	92.10	NA
MW-9	07/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.72	8.48	91.24	NA
MW-9	02/21/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.72	6.91	92.81	NA
MW-9	05/22/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.72	8.64	91.08	NA
MW-9	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.55	92.17	NA
MW-9	08/20/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.72	7.38	92.34	NA
MW-9	11/18/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.72	10.17	89.55	NA
MW-9	02/09/1993	290	110	6	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.72	6.89	92.83	NA
MW-9	06/16/1993	90 e	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.72	8.74	90.98	1.51/2.17 k
MW-9	08/24/1993	50 e	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.72	8.32	91.40	2.86/2.74 k
MW-9	11/23/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.72	8.17	91.55	3.41/3.78 k
MW-9	02/14/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.72	7.67	92.05	4.6/5.2 k
MW-9	05/25/1994	56	NA	1.3	4	1.4	8.3	NA	NA	NA	NA	NA	NA	99.72	7.89	91.83	NA
MW-9	08/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	9.76	89.96	NA
MW-9	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.72	7.75	91.97	NA
MW-9	02/01/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	5.66	94.06	NA
MW-9	05/04/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	99.72	7.40	92.32	NA
MW-9	05/16/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.72	92.00	NA
MW-9	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	6.93	92.79	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-9	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.23	92.49	NA
MW-9	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	9.91	89.81	NA
MW-9	06/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	9.03	90.69	NA
MW-9	08/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	NA	NA	NA	NA	99.72	7.45	92.27	3.5/4.3
MW-9	11/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.40	92.32	NA
MW-9	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.66	92.06	NA
MW-9	11/02/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	8.41	91.31	NA
MW-9	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	8.02	91.70	NA
MW-9	11/19/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	8.40	91.32	NA
MW-9	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	7.83	91.89	NA
MW-9	06/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.72	8.34	91.38	NA
MW-9	07/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.34	8.54	3.80	NA
MW-9	12/26/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.34	7.12	5.22	NA
MW-9	01/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.34	7.95	4.39	NA
MW-9	05/13/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.34	7.58	4.76	NA
MW-9	07/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.34	8.53	3.81	NA
MW-9	11/25/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.34	8.67	3.67	NA
MW-9	02/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.34	8.22	4.12	NA
MW-9	04/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.34	8.35	3.99	NA
MW-9	08/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.34	9.31	3.03	NA
MW-9	11/08/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.34	8.60	3.74	NA
MW-9	02/02/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.34	7.05	5.29	NA
MW-9	05/09/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.34	6.62	5.72	NA
MW-9	08/04/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.34	8.32	4.02	NA
MW-9 p	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	01/29/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	10.81	88.18	NA
MW-10	04/30/1991	<50	460	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	8.79	90.20	NA

WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-10	07/22/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	9.94	89.05	NA
MW-10	02/21/1992	<50	120	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	9.11	89.88	NA
MW-10	05/22/1992	<50	310	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	9.14	89.85	NA
MW-10	07/07/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.87	89.12	NA
MW-10	08/20/1992	<50	460	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	9.30	89.69	NA
MW-10	11/18/1992	<50	470	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	10.21	88.78	NA
MW-10	02/09/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	7.63	91.36	NA
MW-10	06/16/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	8.57	90.42	NA
MW-10	08/24/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	9.61	89.38	NA
MW-10	11/23/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	10.10	88.89	NA
MW-10	02/14/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	9.01	89.98	NA
MW-10	05/25/1994	<50	NA	<0.5	1.1	<0.5	1.4	NA	NA	NA	NA	NA	NA	98.99	8.84	90.15	NA
MW-10	08/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.82	89.17	NA
MW-10	11/08/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	9.40	89.59	NA
MW-10	02/01/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	6.78	92.21	NA
MW-10	05/04/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	7.00	91.99	NA
MW-10	05/16/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	98.99	8.66	90.33	NA
MW-10	11/03/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.37	89.62	NA
MW-10	06/05/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	7.27	91.72	NA
MW-10	11/06/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.48	89.51	NA
MW-10	06/07/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	8.72	90.27	NA
MW-10	08/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	<2.00	NA	NA	NA	NA	98.99	8.62	90.37	1.6/1.6
MW-10	11/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	8.55	90.44	NA
MW-10	04/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	7.39	91.60	NA
MW-10	11/02/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	8.26	90.73	NA
MW-10	05/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	7.98	91.01	NA
MW-10	11/19/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	9.34	89.65	NA
MW-10	01/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	7.34	91.65	NA

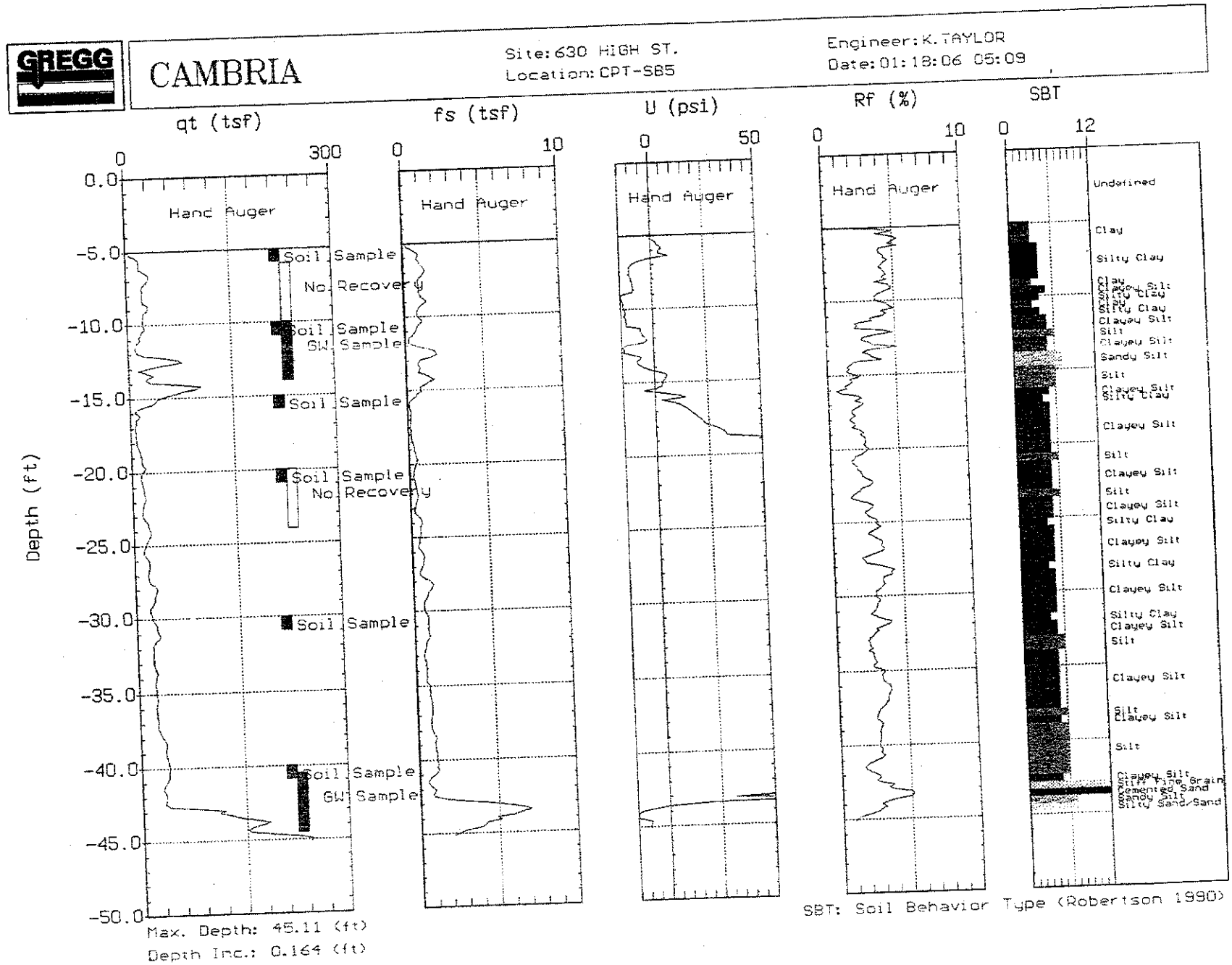
WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-10	06/05/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98.99	8.11	90.88	NA
MW-10	07/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.60	8.63	2.97	NA
MW-10	12/26/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.60	8.50	3.10	NA
MW-10	01/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.60	8.30	3.30	NA
MW-10	05/13/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.60	8.17	3.43	NA
MW-10	07/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.60	8.62	2.98	NA
MW-10	11/25/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.60	9.24	2.36	NA
MW-10	02/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.60	8.14	3.46	NA
MW-10	04/30/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.60	8.31	3.29	NA
MW-10	08/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.60	8.85	2.75	NA
MW-10	11/08/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.60	8.91	2.69	NA
MW-10	02/02/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.60	7.55	4.05	NA
MW-10	05/09/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.60	6.99	4.61	NA
MW-10	08/04/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.60	7.38	4.22	NA
MW-10 p	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

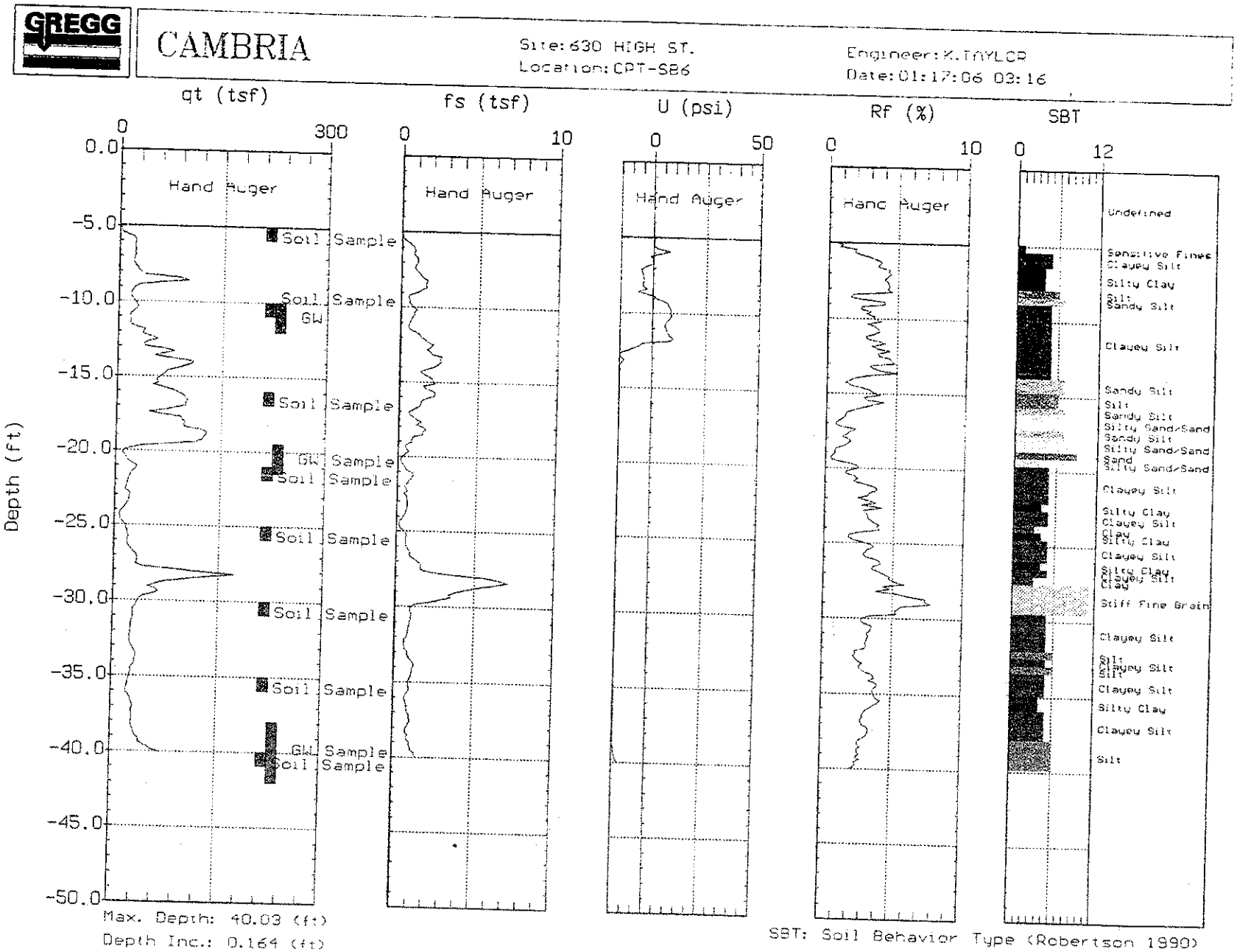
WELL CONCENTRATIONS
Shell-Branded Service Station
630 High Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8015.
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8020.
MTBE = Methyl tertiary butyl ether
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
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B
TOC = Top of Casing Elevation
GW = Groundwater
DO = Dissolved Oxygen
ug/L = Parts per billion
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
(D) = Duplicate sample
NA = Not Applicable
n/n = 1st case volume/3rd case volume DO's
ppm = parts per million



ATTACHMENT 6

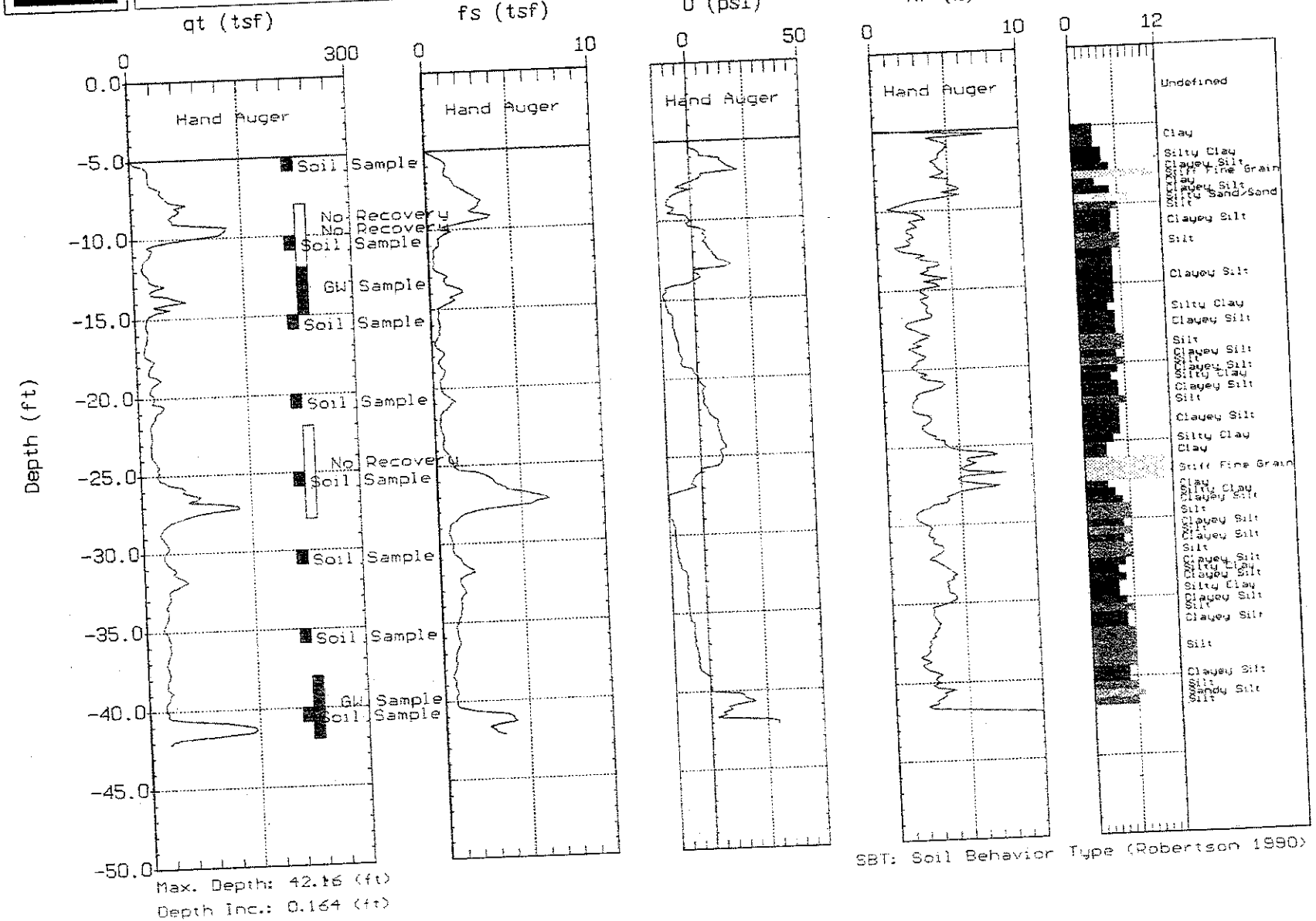

GREGG
CAMBRIA
Site: 630 HIGH ST.
Location: CPT-S86
Engineer: K.TAYLOR
Date: 01:17:06 03:16
qt (tsf)
fs (tsf)
U (psi)
Rf (%)
SBT
Depth (ft)
Hand Auger
Soil Sample
GW Sample
Undefined
Sensitive Fines
Clayey Silt
Silty Clay
Silt
Sandy Silt
Silty Sand/Sand
Sand
Stiff Fine Grain
Max. Depth: 40.03 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)

GREGG

CAMBRIA

Site: 630 HIGH ST.
Location: CPT-SB7

Engineer: K.TAYLOR
Date: 01:17:06 08:37

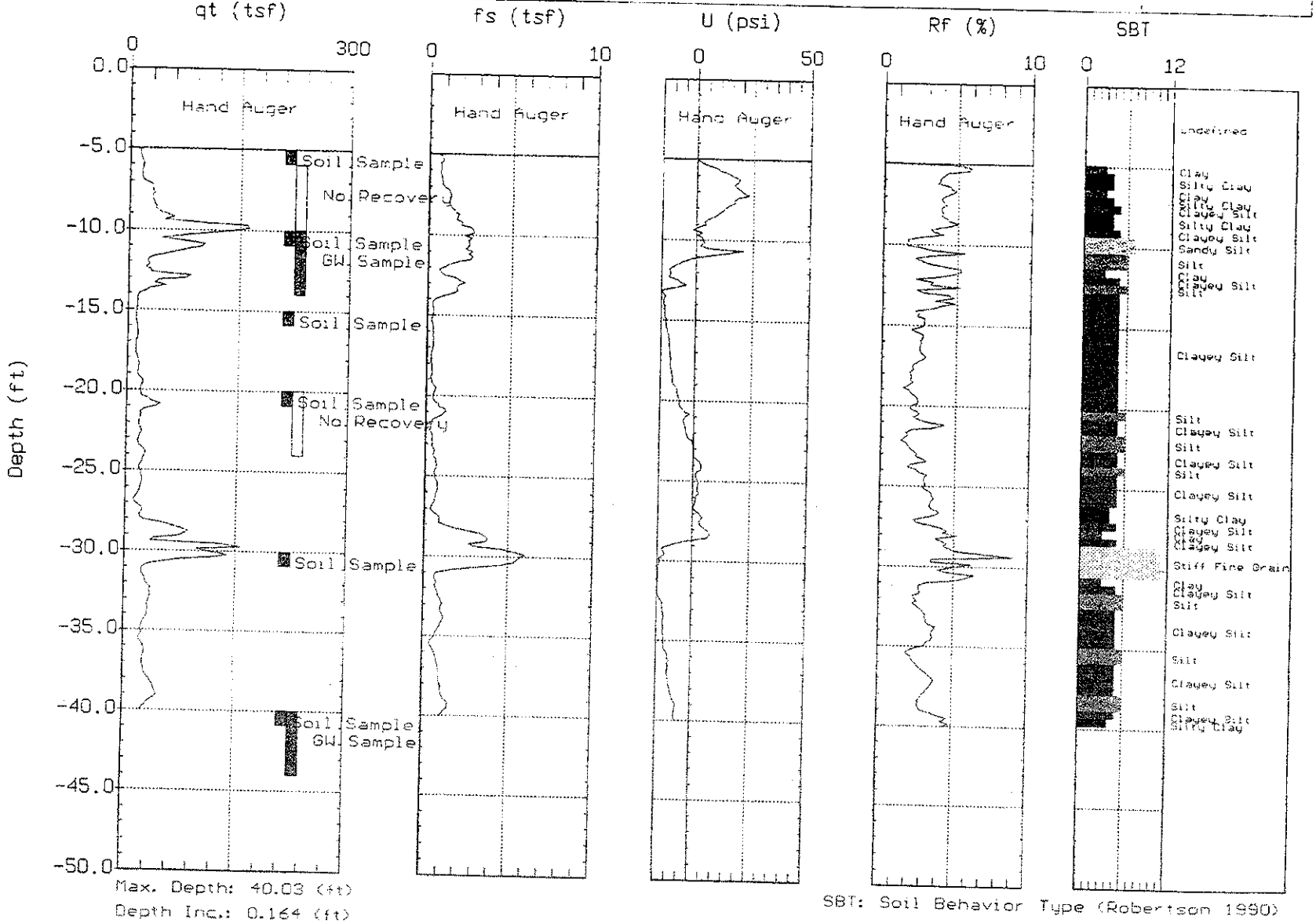


GREGG

CAMBRIA

Site: 630 HIGH ST.
Location: CPT-SB8

Engineer: K.TAYLOR
Date: 01:23:06 01:42

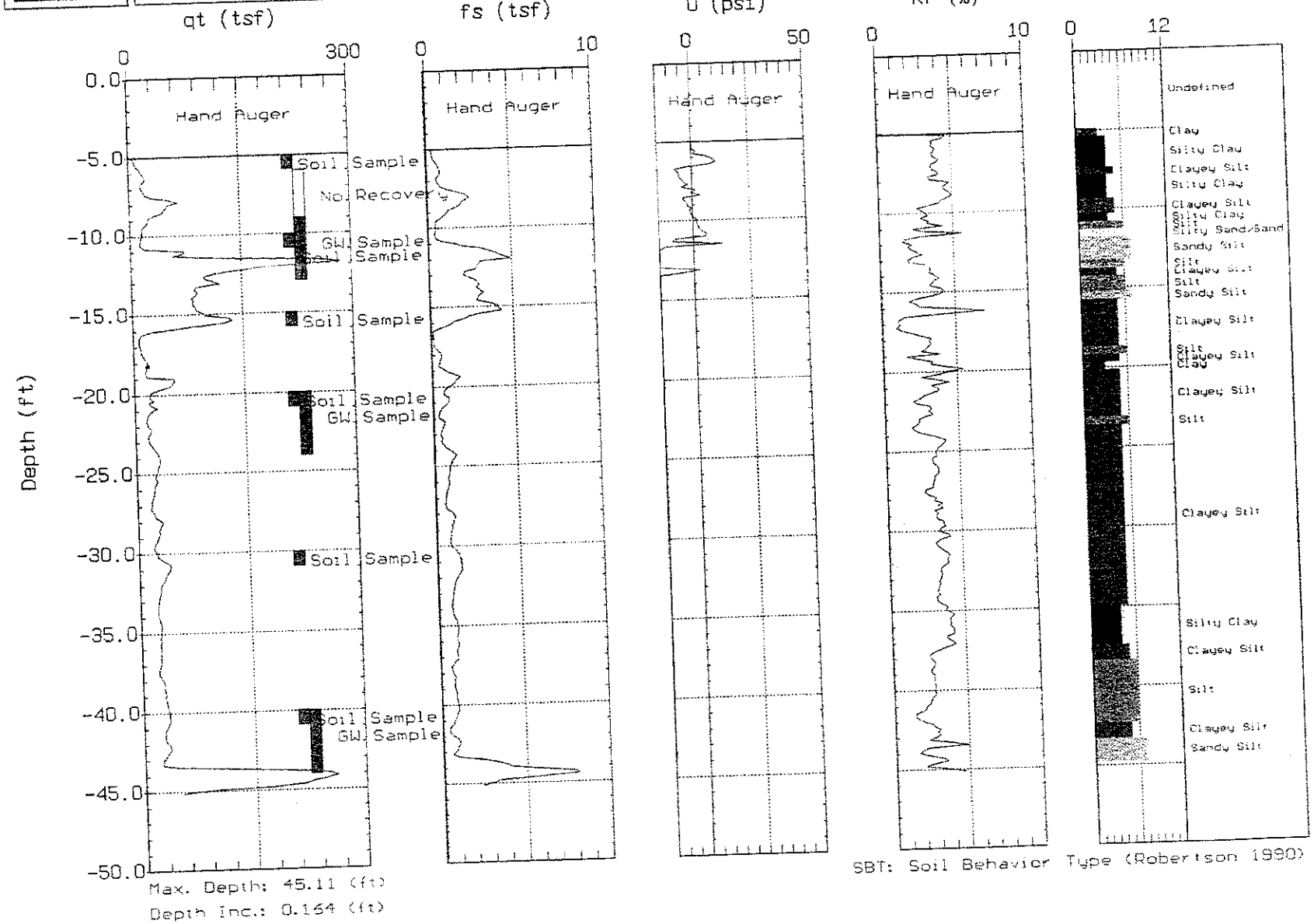


GREGG

CAMBRIA

Site: 630 HIGH ST.
Location: CPT-SB9

Engineer: K.TAYLOR
Date: 01:18:06 09:21



LOG OF BORING NO. MW

DATE DRILLED: 4/25/89 | ELEVATION: | WL TAKEN: 4/25/89 | EQUIPMENT: 3-3/4" x 8" & 8-1/2" x 12

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	T.P.H MG/KG	TESTS
				slightly moist		brown	CLAYEY SAND and fine to coarse gravel-size rock fragments				
				moist		dark gray-brown	SANDY CLAY CL				
5				moist		light gray	Mix Bay Mud? Fine clean SAND (Fill) SP-CH Odor		8		
				damp to slightly moist		light gray	Pockets or layers of fine SAND, CLAYEY SAND, BAY MUD (Fill) SC		24		
				moist to very moist		dark gray	Fine SAND SP Trace mica, trace silt		9		
10		▼		wet			Sheen of product on water		5		
							Lenses sand and clayey sand Product sheen		59		
				very moist		mottled gray-brown-rust	SILTY CLAY CL Trace fine sand		37		
15									44		
				very moist					22		
				very moist			Very SILTY CLAY fine SAND CL-SW		22		
20											

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

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Converse Environmental Consultants California

ATTACHMENT 7

LOG OF BORING NO. MW-2

DATE DRILLED: 4/25/89 | ELEVATION: | WL TAKEN: 4/25/89 | EQUIPMENT: 3-3/4" x 8" & 8-1/2" x 12

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				slightly moist	loose	brown	Top Soil with Redwood Chips				
				moist	medium	dark brown	SILTY CLAY With concrete fragments (Fill) CL No odor				
5				moist	stiff	black	SILTY CLAY Trace gravel CH		10		
				moist	very stiff	gray-mottled rust	SILTY CLAY and sand CL No odor		26		
				moist	dense	gray	CLAYEY SAND SC		37		
10				moist	very stiff	tan-mottled rust	SILTY CLAY CL		24		
				moist	medium dense	tan	SILTY SAND little GRAVEL SP-SM		44		
				wet.			Silty fine Sand		67		
15				wet	medium	tan	GRAVELLY SAND SP-GP		26		
				wet	medium dense	tan	Coarse SAND SP		48		
				wet			Coarse SAND some clay SC		60		
				moist	stiff	tan-mottled black	SILTY CLAY CL		17		
20											

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

Project No.
88-44-369-01

SHELL OIL COMPANY
630 High Street
Oakland, California

Drawing No.
A-4

Converse Environmental Consultants California

LOG OF BORING NO. MW-2

continued - page 2

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				moist	stiff	tan	SILTY CLAY CL		27		
				moist		gray-tan	SILTY CLAY trace gravel CL		31		
							SILTY CLAY some gravel CL				
25							SILTY CLAY trace fine gravel CL				
							Bottom of Hole at 25 ft.				
30											
35											
40											

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

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Converse Environmental Consultants California

Drawing No.
A-5

LOG OF BORING NO. MW-3

DATE DRILLED: 4/26/89 | ELEVATION: | WL TAKEN: 4/26/89 | EQUIPMENT: 3-3/4" x 8" & 8-1/2" x 12

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				slightly moist	moist	brown	CLAYEY SAND and Gravel-size rock fragment (Fill)	SC-GC				
				moist	stiff	dark brown	SANDY CLAY with little fine to coarse sand (Fill)	CL				
5				moist	stiff	black	SILTY CLAY	CH		13		
							No odor					
						dark gray				20		
						mottled gray-brown	SANDY CLAY No odor	CL		32		
					medium dense		CLAYEY SAND Trace pea gravel	SC				
				very moist		green-gray	CLAYEY SAND	SC		14		
10					very stiff	gray	SANDY CLAY Trace pea gravel sand lense	CL		41		
					dense	mottled gray brown	CLAYEY SAND Little pea gravel	SC-GC		77		
				wet		gray	Medium SAND Trace fines	SP				
				very moist						65		
15				wet	stiff	brown	SANDY CLAY	CL				
				very moist	dense	brown	Lenses fine SAND, med. SAND	SP		57		
							Lenses CLAYEY SAND and SILTY SAND					
				very moist	stiff	mottled tan-brown	SILTY CLAY Trace fine sand	CL		30		
20												

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

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Drawing No.
A-6

Converse Environmental Consultants California

LOG OF BORING NO. MW-

DATE DRILLED: 4/25/89 | ELEVATION: | WL TAKEN: 4/25/89 | EQUIPMENT: 3-3/4" x 8" & 8-1/2" x 12"

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				slightly moist	loose	brown	GRAVELLY SAND (Fill)				
				slightly moist	medium dense	gray	Sub-angular SANDY GRAVEL (Fill)				
				moist	soft	dark brown	SANDY CLAY CL Some odor				
5					medium	black	SILTY CLAY Trace gravel, sand Fine gravel		14 34		
					stiff	gray	SANDY CLAY and SILT		51		
10				wet	medium dense	gray	CLAYEY SAND and GRAVEL GC-SC CLAYEY fine SAND		22		
							Clean coarse SAND SP				
						gray	CLAYEY fine SAND SC Strong odor		44		
							Lens coarse SAND SP				
				moist	stiff	gray-mottled rust-brown	SILTY CLAY CL		54		
15				wet	loose	gray	CLAYEY SAND and GRAVEL SC Lenses of sandy gravel Odor		59		
				very moist	medium	tan mottled black	SILTY CLAY CL		16		
							Trace fine sand with depth		18		
20							Less odor				

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

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Converse Environmental Consultants California

Drawing No.
A-7

LOG OF BORING NO. MW-4

continued - page 2

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				moist	stiff	tan-mottled	SILTY CLAY CL Trace fine sand		30		
						black	No odor				
							Bottom of Hole at 22 ft.				
25											
30											
35											
40											

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

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Drawing No.
A-8

LOG OF BORING NO. MW-5

DATE DRILLED: 8-16-89	ELEVATION: 99.91	WL TAKEN: 8-17-89	EQUIPMENT: 3-3/4"x 8" Hollow Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	O.V.M. (ppm)	T.P.H. (ppm)
				moist		yellow brown	ASPHALT and BASE ROCK, Clayey SAND and Rock fragments					
				very moist	medium dense	brown	Clayey SAND and fine size Rock fragments, pieces Asphalt, trace brick (Fill)	SC				
				moist	medium		Sandy CLAY (Fill)	CL				
5	1			slightly moist	medium dense	brown	Clayey SAND and fine crush ROCK (Fill)	SC/GC		17	0	
				moist	stiff	black	Silty CLAY (Native)	CH				
10	2			moist	medium dense	yellow to brown	Sandy CLAY, grading to Clayey SAND, trace fine Gravel	SC		8	0	
		▽		v moist		gray	Clayey SANDS, some fine Gravel Strong odor					
	SPT			moist						33		
				very moist	medium	gray mottled tan and black	Silty CLAY, some Sand, Sand lenses Strong odor	CL				
15				moist	medium to stiff	tan with mottled black	Silty CLAY Less odor					
	SPT			very moist	medium	tan				18		
20							Total Depth of Boring 20 ft.					

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

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Converse Environmental Consultants California

Drawing No.
A-2

LOG OF BORING NO. MW-6

DATE DRILLED: 8-16-89	ELEVATION: 98.56	WL TAKEN: 8-16-89	EQUIPMENT: 3-3/4"x 8" Hollow Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	O.V.M. (ppm)	T.P.H. (ppm)
							ASPHALT 3-1/2 BASE ? red-brown Clayey SAND and crushed ROCK fine course size (Fill)	SC/GC				
						brown	Clayey SAND and fine crushed rock (Fill)					
						gray	Very Sandy CLAY (Fill)	CL				
				moist	stiff	black	Silty CLAY (Native)	CH		7	0	
5	1											
						dark gray to gray brown	Sandy CLAY	CL		9	0	
	2											
10						mottled gray and rust	Clayey medium SAND	SC				
							Fine SAND lens 3" thick	SP				
				v moist			Clayey fine and medium SAND	SC				
				moist								
	SPT						Alternate Clayey SAND and Sandy CLAY	SC/CL		28		
	3									10		
15		▽		wet			Silty CLAY, trace fine Sand	CL			0	
				very moist	medium		Silty CLAY					
	SPT									14	0	
20												

REGISTERED PROFESSIONAL ENGINEER
Douglas W. Charlton
No. 4710
STATE OF CALIFORNIA

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Drawing No.
A-3

Converse Environmental Consultants California

LOG OF BORING NO. MW-6

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)
				very moist	medium	mottled gray and brown	Silty CLAY CL				
	ST						Fine Sandy CLAY		17		
25							Total Depth of Boring 24 ft.				
30											
35											
40											

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

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Converse Environmental Consultants California

Drawing No.
A-4

LOG OF BORING NO. MW-7

DATE DRILLED: 8-15-89 | ELEVATION: 97.64 | WL TAKEN: 8-15-89 | EQUIPMENT: 3-3/4"x 8" Hollow Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	O.V.H. (ppm)	T.P.H. (ppm)
							ASPHALT 3" NO BASE					
				moist	medium dense	brwn and green	Clayey SANDS and ROCK fragments to cobble size (Fill)	SC/GC				
				very moist		dark gray	Clayey SAND, trace fine size Rock fragments (Fill)					
5	1			moist	stiff	black	Silty CLAY	CH		11	0	
				moist	stiff	dark brown	Sandy CLAY	CL				
10	2									9	0	
							Clayey SAND, trace fine Gravel	SC				
15	3			moist	very stiff	mottled gray and brown	Silty CLAY	CL		10	0	
				wet			Clayey SILT, trace to little very fine Sand	ML				
20	4						Silty CLAY, trace fine Sand	CL		9	0	

REGISTERED PROFESSIONAL ENGINEER Douglas W. Charles No. 4110 STATE OF CALIFORNIA

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Drawing No.
A-5

Converse Environmental Consultants California

LOG OF BORING NO. MW-7

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)
				very moist	medium	mottled gray and brown	Silty CLAY CL				
					stiff						
	P						Little fine Sand		19		
25							Total Depth of Boring 24 ft.				
30											
35											
40											

REGISTERED PROFESSIONAL ENGINEER
Douglas W. Cleveland
No. 4110
STATE OF CALIFORNIA

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Converse Environmental Consultants California

Drawing No.
A-6

LOG OF BORING NO. MW-8

DATE DRILLED: 8-15-89 | ELEVATION: 97.14 | WL TAKEN: 8-15-89 | EQUIPMENT: 3-3/4"x 8" Hollow Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	O.V.M. (ppm)	T.P.H. (ppm)
						black and brown	ASPHALT 2" BASE 4" Mix of Silty and Sandy CLAY, Rock fragments	CL				
							Clayey SAND and Rock fragments	SC				
				moist	stiff	black	Silty CLAY	CL/CH				
5	1									13	0	
											0	
						gray	Fine Sandy CLAY, trace decayed organics	CL				
	P									28	0	
				moist to wet	medium dense	mottled gray and rust	Clayey SAND and GRAVEL	SC/GC				
	2						SAND and GRAVEL, trace Clay Occasional Sand lenses	SP/GP		25	0	
10							Grading:					
					medium dense	brown to mottled brown	Clayey fine SAND	SC		11		
	P											
15							CLAY and SAND, trace fine Gravel	SC				
	P				medium dense	gray brown	Clayey fine SAND and pockets of clean SAND	SC		28		
	3									22		
20												

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

Project No.

SHELL OIL COMPANY
630 High Street
Oakland, California

88-44-369-01

Drawing No.

A-7

Converse Environmental Consultants California

LOG OF BORING NO. MW-8

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)
	P			wet	medium dense	gray brown	Clayey fine SAND SC				
					stiff		Silty CLAY CL		21		
							Trace Gravel				
25							Total Depth of Boring 24 ft.				
30											
35											
40											

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

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Converse Environmental Consultants California

Drawing No.
A-8

LOG OF BORING NO. MW-9

DATE DRILLED: 11-15-89 | 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.H. (ppm)	T.P.H. (ppm)
				slightly moist	medium dense	brown	Sandy angular GRAVEL, trace Clay. (Fill)	GW				
				moist			Increasing Sand.					
				slightly moist	stiff	tan and gray	Silty CLAY, trace fine Sand.	CL				
				moist	medium	gray green	Silty CLAY, little Sand, trace Gravel. Black staining. No odor.	CL				
	1			very moist		light gray green				7	0	
5						gray						
				wet	medium dense	brown	Fine Gravelly coarse SAND, trace Clay.	SP		15	0	
	2									8		
10				moist	stiff	tan mottled black	Silty CLAY, little Sand, trace Gravel. Rust staining.	CL		15	0	
										17	0	
15				wet	dense	dark gray	SAND and GRAVEL.	SP/GP		53	0	
							Total Depth of Boring: 16 ft Below Ground Surface.					
20												

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

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Drawing No.
A-3

Converse Environmental West

LOG OF BORING NO. MW-10

DATE DRILLED: 11-15-89	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)
				slightly moist	medium dense	gray brown	Sandy angular GRAVEL. (Fill)	GW				
				moist		yellow brown	Gravelly SAND, trace cobble. (Fill)	SW				
				slightly moist	medium	brown	Fine Sandy SILT, trace Gravel. (Fill)	ML				
	1			moist		black	Silty CLAY.	CH		13	0	
5						gray	Silty CLAY, trace Sand.	CL				
	2			very moist	medium dense	blue green	Clayey SAND. Staining. Odor.	SC		15	5	
							-- grading to --					
10							SAND and CLAY. Thin lenses white angular Gravel. Odor.	SC/CL		14		
										30	3	
				wet		gray	Gravelly SAND.	SP				
				slightly moist	stiff	tan	Silty CLAY, mottled rust and black, little fine Sand.	CL		11	0	
						tan	Silty Clay, mottled rust and black, trace fine Sand.			23	0	
15												
							Total Depth of Boring: 17 ft Below Ground Surface.					
20												

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

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Converse Environmental West

Drawing No.
A-4

LOG OF BORING NO. SB-1

DATE DRILLED: 4/27/89 | ELEVATION: | WL TAKEN: N/A | EQUIPMENT: 3-3/4" x 8" Hollow Stem

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS/FT.	MOISTURE CONTENT	DRY DENSITY lb/ft³	TESTS
				damp	medium dense	brown	CLAYEY SAND and Gravel-size rock fragments (Fill)				
5				damp	medium dense	dark gray	SILTY CLAY (Fill) CL Silty clay and sand Slight odor Mixed silty and sandy clay	9 8			
10							Bottom of Boring at 10 ft.				
15											
20											

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

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Drawing No.
A-1

Converse Environmental Consultants California

LOG OF BORING NO. SB-2

DATE DRILLED: 4/27/89	ELEVATION:	WL TAKEN: N/A	EQUIPMENT: 3-3/4" x 8" Hollow Stem

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS/FT.	MOISTURE CONTENT	DRY DENSITY lb/ft³	TESTS
				damp	medium dense	brown	CLAYEY SAND and Gravel-size rock fragments (Fill)				
				damp	medium dense	gray	SILTY CLAY CL Mix clay, silty and sandy (Fill)				
5				damp	medium dense	gray	SILTY Fine SAND (Fill) SM Trace mica Slight odor Mixed clay and silty sand Odor	15 7			
10							Bottom of Boring at 10 ft.				
15											
20											

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

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Converse Environmental Consultants California

Drawing No.
A-2

LOG OF BORING NO. SB-3

DATE DRILLED: 8-17-89 | ELEVATION: | WL TAKEN: N/A | EQUIPMENT: 3-3/4"x 8" Hollow Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		BLOWS/FT.	O.V.M. (ppm)	DRY DENSITY lb/ft3	TESTS
				slightly moist	medium dense	brown	Silty SAND and GRAVEL (Fill)					
					stiff	tan	Silty CLAY (Fill)	CL				
					medium dense	gray and black	Sandy fine rounded GRAVEL (Fill) Odor	GP				
	1			slightly moist	medium	black	Silty CLAY, trace fine SAND, redwood fragments (Fill)	CL	9	1300		
5						mixed blue gray tan mottled gray and black						
	2								10	60		
10							Total Depth of Boring at 10 ft.					
15												
20												

Douglas W. Charlton No. 4110 — Registered Geologist — State of California

Project No.

SHELL OIL COMPANY
630 High Street
Oakland, California

88-44-369-01

Drawing No.

A-9

Converse Environmental Consultants California

LOG OF BORING NO. SB-4

DATE DRILLED: 11-15-89	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.M. (ppm)	DRY DENSITY lb/ft³	TESTS
				slightly moist	medium dense	yellow brown	Sandy GRAVEL. (Fill)	GW				
						brown	Gravelly SAND. (Fill)	SW				
				slightly moist	medium		Fine Sandy SILT, organics. (Fill)	ML				
5	1			moist		black	Silty CLAY, trace Gravel, brown organics.	CH	11	0		
	2					black	Silty CLAY.		11	0		
10							Total Depth of Boring: 9 ft Below Ground Surface.					
15												
20												

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

SHELL OIL COMPANY
630 High Street
Oakland, California

Project No.
88-44-369-01

Converse Environmental West

Drawing No.
A-2

CAMBRIA

February 13, 2007

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Quarterly Status Report – Fourth Quarter 2006**
Shell-branded Service Station
630 High Street
Oakland, California
SAP Code 135693
Incident No. 98995751
ACHCSA Case No RO0000228

Dear Mr. Wickham:

This letter is provided to describe recently completed activities performed at the above referenced site in accordance with reporting requirements of the California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 2652.d.

Fourth Quarter 2006 Activities

In a letter dated December 1, 2006, Alameda County Health Care Services Agency (ACHCSA) concurred with Cambria's April 4, 2006 *Plume Delineation Report, Risk Evaluation, and Request for Closure* that no further action related to the underground storage tank fuel release was required at this time and requested that the monitoring wells at the site be properly destroyed.

Proposed Activities

The well destructions at this site have been scheduled for March 13, 14, and 15, 2007. A report documenting the well destructions will be submitted to ACHCSA no later than sixty days following completion of the field activities.

If you have any questions, please call Dennis Baertschi at (707) 268-3813.

Sincerely,
Cambria Environmental Technology, Inc.

for Dennis Baertschi
Project Geologist

Cambria Environmental Technology, Inc.
19449 Riverside Drive
Suite 230
Sonoma, CA 95476
Tel (707) 935-4850
Fax (707) 935-6649

cc: Mr. Denis Brown, Shell Oil Products US

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

7

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

December 1, 2006

Mr. Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Subject: Fuel Leak Case No. **RO0000228,** Shell#13-5693, 630 High Street, Oakland – Request for Well Decommissioning

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) and California Regional Water Quality Control Board staff have reviewed the fuel leak case file and case closure summary for the above-referenced site and concur that no further action related to the underground storage tank fuel release is required at this time. Prior to issuance of a remedial action completion certificate, the monitoring wells at the site are to be properly destroyed, should the monitoring well have no further use at the site. Please decommission the monitoring well and provide documentation of the well decommissioning to this office. A remedial action completion certificate will be issued following receipt of the documentation.

Well destruction permits may be obtained from the Alameda County Public Works Agency (http://www.acgov.org/pwa/wells/index.shtml). If you have any questions, please call me at (510) 567-6791.

Sincerely,

Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Ana Friel, Cambria Environmental Technology, Inc., 270 Perkins Street, Sonoma, CA 95476

Dennis Baertschi, Cambria Environmental Technology, Inc., 270 Perkins Street, Sonoma, CA 95476

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

7

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

September 28, 2006

Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Subject: Fuel Leak Case No. RO0000228, Shell#13-5693, 630 High Street, Oakland

Dear Mr. Brown:

The fuel leak case file for the above-referenced site is under review for case closure by Alameda County Environmental Health (ACEH). If case closure is approved, the fuel leak case will be closed with the following site management requirement:

> *"Case closure for the fuel leak site is granted for commercial land use only. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated. This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination posing a nuisance for subsurface utility work."*

Please provide the certification requested below in the Landowner Notification Requirements that you have notified all responsible landowners of the request for case closure or that you are the sole landowner.

LANDOWNER NOTIFICATION REQUIREMENTS

Pursuant to California Health & Safety Code Section 25297.15, the active or primary responsible party for a fuel leak case must inform all current property owners of the site of cleanup actions or requests for closure. Furthermore, ACEH may not consider any cleanup proposals or requests for case closure without assurance that this notification requirement has been met. Additionally, the active or primary responsible party is required to forward to ACEH a complete mailing list of all record fee title holders to the site.

For you to meet these requirements when submitting cleanup proposals or requests for case closure, ACEH requires that you:

1. Notify all current record owners of fee title to the site of any cleanup proposals or requests for case closure;
2. Submit a letter to ACEH which certifies that the notification requirement in 25297.15(a) of the Health and Safety Code has been met;
3. Forward to ACEH a copy of your complete mailing list of all record fee title holders to the site; and
4. Update your mailing list of all record fee title holders, and repeat the process outlined above prior to submittal of any additional *Corrective Action Plan* or your *Request for Case Closure*.

Your written certification to ACEH (Item 2 above) must state, at a minimum, the following:

A. In accordance with Section 25297.15(a) of the Health & Safety Code, I, (name of primary responsible party), certify that I have notified all responsible landowners of the enclosed proposed action. (Check space for applicable proposed action(s)):
___ cleanup proposal (Corrective Action Plan)
___ request for case closure
___ local agency intention to make a determination that no further action is required
___ local agency intention to issue a closure letter

- OR -

B. In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, (name of primary responsible party), certify that I am the sole landowner for the above site.

(Note: Complete item A if there are multiple site landowners. If you are the sole site landowner, skip item A and complete item B.)

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

Sincerely,

Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95406

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

7

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

June 6, 2006

Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Subject: Fuel Leak Case No. RO0000228, Shell#13-5693, 630 High Street, Oakland – Request to Suspend Quarterly Monitoring

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) staff is currently reviewing the case file for the above-referenced site and the documents entitled, "Plume Delineation Report, Risk Evaluation, and Request for Closure," dated April 4, 2006 and "Groundwater Monitoring Report – First Quarter 2006," dated May 10, 2006. Both reports recommend suspension of quarterly groundwater monitoring during review of the Plume Delineation Report, Risk Evaluation, and Request for Closure." We concur that quarterly monitoring may be suspended during regulatory review of the case closure request.

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

Sincerely,

Jerry Wickham
Hazardous Materials Specialist

cc: Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95406

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

R0228

Wickham, Jerry, Env. Health

From: Wickham, Jerry, Env. Health
Sent: Friday, February 03, 2006 2:44 PM
To: Dennis Baertschi (E-mail); 'Brown, Denis L SOPUS-OP-COR-H'
Subject: Schedule extension

Based on your request dated January 25, 2006, the schedule for submittal of a subsurface investigation report for case RO0000228 at 630 High Street is extended to April 7, 2006.

Regards,

Jerry Wickham
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Suite 250
Alameda, CA 94502-6577
510-567-6791 phone
510-337-9335 Fax
jerry.wickham@acgov.org

RO 228 F

CAMBRIA

January 25, 2006

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Alameda County
FEB 03 2006
Environmental Health

Re: **Request for Extension**
Shell-branded Service Station
630 High Street
Oakland, California
Incident #98995751
SAP Code #135693
ACHCSA Case No. RO0000228

Dear Mr. Wickham:

Cambria Environmental Technology, Inc. (Cambria) has prepared this correspondence on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell). The purpose of this correspondence is to request an extension for the submittal of the technical report for the recent site investigation activities at this site.

Cambria completed the installation of the onsite CPT borings SB-5 through SB-9 on January 23, 2006. In Alameda County Health Care Services correspondence dated September 27, 2005, you requested that the subsurface investigation report be submitted by February 24, 2006. Based on the date of field activities, Cambria anticipates receiving soil and groundwater sample results from the laboratory by February 6, 2006. Based on these dates we will need additional time to prepare the technical report and respectfully request an extension to April 7, 2006.

We appreciate the opportunity to work with you on this project. Please call Dennis Baertschi at (707) 268-3813 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

M. M

for Dennis Baertschi
Project Geologist

cc: Mr. Denis Brown, Shell Oil Products

Cambria Environmental Technology, Inc.

270 Perkins Street
Sonoma, CA 95476
Tel (707) 935-4850
Fax (707) 935-6649

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

7

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

September 27, 2005

Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Subject: Fuel Leak Case No. RO0000228, Shell#13-5693, 630 High Street, Oakland – Work Plan Approval

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site and the document entitled, "Plume Delineation Work Plan," dated September 13, 2005, prepared on Shell's behalf by Cambria Environmental Technology, Inc. The Work Plan proposes a scope of work to assess the lateral and vertical extent of contamination and the potential for contaminants to enter preferential pathways. ACEH concurs with the work plan provided that the technical comments below are addressed.

ACEH requests that you address the following technical comments, perform the proposed work, and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to jerry.wickham@acgov.org) prior to the start of field activities

TECHNICAL COMMENTS

1. **Boring Locations.** ACEH concurs with the five proposed boring locations.

2. **Soil Sampling.** The Work Plan proposes the collection of soil samples for laboratory analyses at five-foot intervals to the total depth of each soil boring, approximately 40 feet below ground surface (bgs). Collection of soil samples at five-foot intervals for chemical analysis is acceptable. However, ACEH requests that the capillary fringe be specifically targeted for soil sampling and analysis in each boring. Because the upper 20 feet of soil is the interval of most concern for evaluating preferential pathways, ACEH suggests that soil samples collected from 20 to 40 feet bgs in the three proposed borings along High Street be screened in the field to evaluate whether the soil samples should be submitted for laboratory analysis. ACEH suggests that soil samples collected below 20 feet bgs from these three borings be analyzed only if staining, odor, or elevated photoionization readings are observed.

3. **Depth-discrete Groundwater Sampling.** ACEH concurs with the collection of a groundwater sample approximately 2 to 5 feet below first encountered groundwater and at approximate depths of 20 and 40 feet bgs in each of the proposed borings. Please use the CPT data to target coarse-grained zones below first-encountered groundwater for depth-discrete groundwater sampling.

4. **Chemical Analysis.** In addition to the proposed chemical analyses, ACEH requests that the soil and groundwater samples be analyzed for total petroleum hydrocarbons as diesel, the fuel oxygenates TBA, DIPE, ETBE, and TAME, ethylene dibromide, and 1,2-dichlorethane.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **February 15, 2006** – Quarterly Report for the Fourth Quarter 2005
- **February 24, 2006** - Soil and Groundwater Investigation Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) now request submission of reports in electronic form. The electronic copy is intended to replace the need for a paper copy and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all reports is required in Geotracker (in PDF format). Please visit the State Water Resources Control Board for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

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

Sincerely,

Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95406

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

August 1, 2005

Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Subject: Fuel Leak Case No. RO0000228, Shell#13-5693, 630 High Street, Oakland, CA – Comments on Monitoring Well Destruction Request

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site and the document entitled, "Groundwater Monitoring Report – Second Quarter 2005 and Well Destruction Request," dated July 14, 2005, prepared on Shell's behalf by Cambria Environmental Technology, Inc. The report requests ACEH approval to destroy four monitoring wells at the site because they are located on property being purchased by Caltrans or because petroleum hydrocarbons have not been detected in the wells. ACEH concurs with the proposed destruction of wells MW-2, MW-9, MW-8, and MW-10.

Total petroleum hydrocarbons as gasoline (TPHg) and methyl tert-butyl ether (MTBE) have persistently been detected in groundwater from monitoring wells within the central portion of the site. Therefore, groundwater monitoring will need to be continued using the remaining monitoring wells at the site. Please address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. **Well Destruction.** ACEH concurs with the proposed destruction of wells MW-2, MW-9, MW-8, and MW-10. The wells are to be destroyed using methods that meet California Well Standards (California Department of Water Resources Bulletins 74-81 and 74-90) as well as Alameda County Public Works Agency requirements. Please provide 72-hour advance notification to ACEH prior to initiating well destruction field activities.

2. **Quarterly Groundwater Monitoring.** Please include TBA as an analyte for each well during quarterly monitoring events. Due to elevated concentrations of TPH as diesel that have previously been detected in soils and groundwater at the site, please include analysis for TPH as diesel on an annual basis for all wells. These results are to be presented in the quarterly monitoring reports requested below.

3. **Evaluation of Preferential Pathways.** A Subsurface Investigation Work Plan was previously submitted on September 16, 2002 to evaluate the presence of preferential groundwater migration pathways and conduct a conduit survey. Several borings were proposed to define the northwestern extent of the MTBE plume and to evaluate whether contaminants were migrating along preferential pathways. The "Conduit Study Report," dated May 16, 2003,

indicated that the utility trenches may serve intermittently as preferential pathways for the migration of groundwater and MTBE and recommended that the borings proposed in the September 16, 2002 Work Plan be completed. It appears that these borings were not completed for the site. Please submit an updated version of the September 16, 2002 Work Plan to complete this work or, if Shell believes that the proposed borings are no longer needed, please submit a response to this agency comment that fully evaluates the need to further investigate preferential pathways.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Jerry Wickham), according to the following schedule:

- **Work Plan or Response to Agency Technical Comment #3** – September 16, 2005
- **Well Destruction Report** – 45 days following destruction of the wells
- **November 15, 2005** - Quarterly Report for the Third Quarter 2005
- **February 15, 2006** - Quarterly Report for the Fourth Quarter 2005

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

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

Sincerely,

Jerry Wickham, P.G.
Hazardous Materials Specialist

cc: Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95406

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

Chan, Barney, Env. Health RO 228

From: Jacquelyn Jones [jjones@cambria-env.com]
Sent: Monday, September 23, 2002 9:27 AM
To: Chan, Barney, Env. Health
Cc: KEPetryna@equiva.com; dlundquist@cambria-env.com; mderby@cambria-env.com
Subject: Re: 630 High St. work plan

Barney,

Our September 16, 2002 *Subsurface Investigation Work Plan* recommended completing the utility survey first, and stated that the recommended boring locations for the subsequent investigation may be amended following review of the utility survey results. Per your request, we will submit the results of the utility survey with finalized recommendations for boring locations prior to proceeding with the subsurface investigation.

Thank you,

Jacquelyn Jones

Karen Petryna 559-645-9306

At 11:28 AM 9/19/2002 -0700, you wrote:

>

>Jacqueline:

>

>I looked at the 9/16/02 work plan and it seems like you should complete your

>utilities survey before submittting a work plan. Are the proposed boring

>locations along utilities? What are the depths of the utilities? Could you

>send me a copy of your utilities survey?

>Thanks,

>

>Barney Chan

>ACEH LOP

>

>

Jacquelyn L. Jones

Project Geologist

Cambria Environmental Technology, Inc.

1144 65th Street, Suite B, Oakland, CA 94608

Direct Line: (510) 420-3316

Fax: (510) 420-9170

matt DERBY

CAMBRIA

ENVIRONMENTAL PROTECTION
00 JUN -8 AM 8:50

June 5, 2000

Mr. Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

RO228

Re: **Quarterly Status Report - First Quarter 2000**
Shell-branded Service Station
630 High Street
Oakland, CA
Incident No. 98995751

Dear Mr. Chan:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. is submitting this letter in accordance with the reporting requirements of 23 CCR 2652d.

Current Quarter's Activities

No activities were required or performed at this site during the first quarter of 2000.

Proposed Activities

Semi-annual monitoring of the site wells will be performed during the second quarter of 2000.

We appreciate the opportunity to work with you on this project. Please call us if you have any questions.

Sincerely,
Cambria Environmental Technology, Inc.

Stephan A. Bork, C.E.G., C.HG.
Associate Hydrogeologist

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank California 91510-7869

Oakland, CA
San Ramon, CA
Sonoma, CA
Portland, OR

Cambria Environmental Technology, Inc.

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

This Memorandum is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. GRW 4215

Carrier No. _____

Page 1 of 1

_____ (Name of carrier) _____ (SCAC)

Date 11-01-02

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO:
Consignee **Shell Oil Products US**
MARTINEZ REFINERY

Street **1801 MARINA VISTA**

City **MARTINEZ** State **CA** Zip Code **94553**

FROM:
Shipper SERVICE Station

Street 630 High St P

City Oakland State **CA** Zip Code

24 hr. Emergency Contact Tel. No. **CHEMTREC 800-424-9300**

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 17.		**NON-HAZARDOUS GROUNDWATER**	50 (2247 gallons)			
		Contains water with < 10% oil bearing materials and may include extracted groundwater from service station facilities that would be non-hazardous under federal and state waste classification criteria.				
		SOP US Martinez Refinery Receiving Gate to direct driver to the Effluent Treatment Plant Operator (x3202) for off loading directions.				
		SAP/INCIDENT #: 155695				
		RIPR #: 17692				

PLACARDS TENDERED: YES ☐ NO ☐

Note—(1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER Shell Oil Products US

PER _____ **ON BEHALF OF SHELL / EQUILON**

CARRIER ONYX

PER _____

RECEIVING SITE SIGNATURE / DATE:

DATE 11-1-02

Permanent post-office address of shipper.

ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. GRW 4227

Carrier No. _____

Date 11-4-02

Page 1 of 1

ONYX INDUSTRIAL SERVICES
(Name of carrier) (SCAC)

If Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: Consignee **Shell Oil Products US MARTINEZ REFINERY**

Street **1801 MARINA VISTA**

City **MARTINEZ** State **CA** Zip Code **94553**

FROM: Shipper SERVICE STATION

Street 630 HIGH STREET

City OAKLAND State CA Zip Code

24 hr. Emergency Contact Tel. No. **CHEMTREC 800-424-9300**

Vehicle Number 2699

Route: No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 T.T.		NON-HAZARDOUS GROUNDWATER	1000 GALS			
			1016			
		Contains water with < 10% oil bearing materials and may include extracted groundwater from service station facilities that would be non-hazardous under federal and state waste classification criteria.				
		SOP US Martinez Refinery Receiving Gate to direct driver to the Effluent Treatment Plant Operator (x3202) for off loading directions.				
		SAP/INCIDENT #: 135693/98995751				
		RIPR #: 17698				

PLACARDS TENDERED: YES ☐ NO ☒

Note—(1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER Shell Oil Products US Dan Read

PER ON BEHALF OF SHELL / EQUILON

CARRIER ONYX IND. SERV.

PER W Wall

DATE 11-4-02

RECEIVING SITE SIGNATURE / DATE:

anent post-office address of shipper.

#3737 R0228

CAMBRIA

To:	Barney Chan
Company:	Alameda County Health Care Services Agency
Fax:	(510) 337-9335
Phone:	(510) 564-6765

From:	Jacquelyn Jones
Phone:	(510) 420-3316
Pages:	3, including cover
Date:	November 7, 2001
Re:	Well Survey for 630 High Street, Oakland

Hard Copy to Follow? **Yes** ☐ **No** ☐

Fax

Dear Mr. Chan,

Attached is a partially completed Department of Water Resources (DWR) Well Completion Report Release Agreement for a ½-mile radius well survey for the referenced site. In order to request Well Completion Reports from the DWR, we are required to obtain approval from the Local Oversight Agency for the site. Please sign the attached form and fax it back to my attention at (510) 420-9170, and I will forward the form to Anne Roth of the DWR. I have attached a vicinity map with the site and ½-mile radius marked.

If you have any questions about this request, feel free to contact me at (510) 420-3316.

Thank you for your time,

Jacquelyn Jones
Project Geologist

Cambria Environmental Technology, Inc., 1144 - 65th Street, Suite C, Oakland, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170

STATE OF CALIFORNIA - THE RESOURCES AGENCY
GRAY DAVIS, Governor
DEPARTMENT OF WATER RESOURCES

CENTRAL DISTRICT
3251 S Street
Sacramento, CA 95816
(916) 227-7532
(916) 227-7600(Fax)

NORTHERN DISTRICT
2440 Main Street
Red Bluff, CA 96080
(530) 529-7300
(530) 529-7322 (Fax)

SAN JOAQUIN DISTRICT
3374 East Shields Avenue
Fresno, CA 93726
(559) 230-3300
(559) 230-3301 (Fax)

SOUTHERN DISTRICT
770 Fairmont Avenue
Glendale, CA 91203
(818) 543-4600
(818) 543-4604 (Fax)

WELL COMPLETION REPORT RELEASE AGREEMENT--AGENCY
(Government and Regulatory Agencies and their Authorized Agents)

Project/Contract No. 630 High Street, Oakland County Alameda

Township, Range, and Section T2S/R3W - 7R Radius ½ mile
(Must include entire study area and a map that shows the area of interest.)

Under California Water Code Section 13752, the agency named below requests permission from Department of Water Resources to inspect or copy, or for our authorized agent named below to inspect or copy, Well Completion Reports filed pursuant to Section 13751 to (check one):

[X] Make a study, or, Include T2S/R3W Sections: ① 17 C,D,E,F ② 18 A,B,C,G,H ③ 7 K,J,P,Q,R ④ 8 E,M,L,N,P

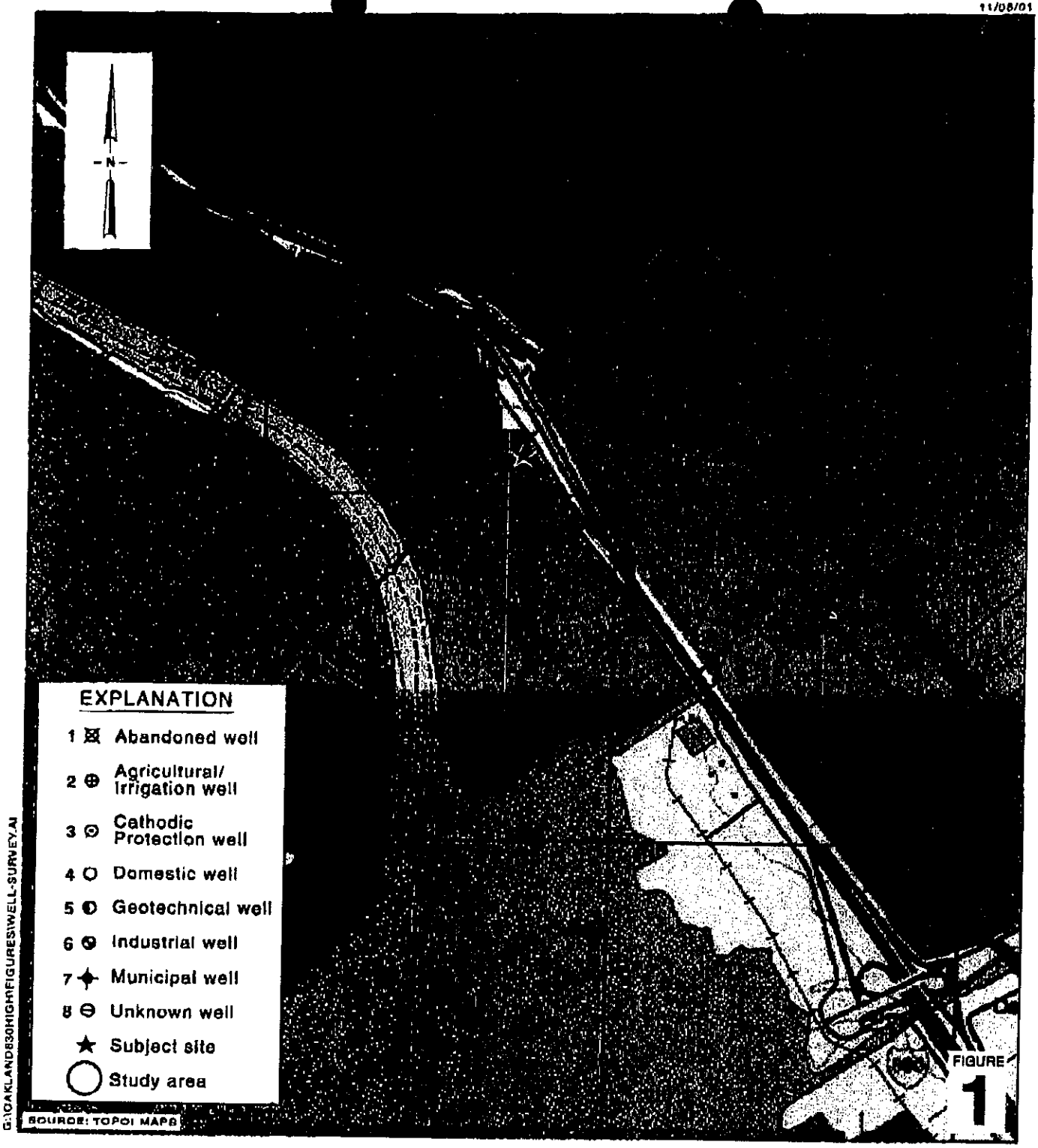
[ ] Perform an environmental cleanup study associated with an unauthorized release of a contaminant within a distance of 2 miles.

In accordance with Section 13752, information obtained from these reports shall be kept confidential and shall not be disseminated, published, or made available for inspection by the public without written authorization from the owner(s) of the well(s). The information shall be used only for the purpose of conducting the study. Copies obtained shall be stamped **CONFIDENTIAL** and shall be kept in a restricted file accessible only to agency staff or the authorized agent.

Jacqualyn Jones
Cambria Environmental
Authorized Agent
1144 65th Street, Ste C
Address
Oakland CA 94608
City, State, and Zip Code
Signature
Title Project Geologist
Telephone (510) 420-3316
Fax (510) 420-9170
Date 11/7/01
E-mail jjones@cambria-env.com

Barney Chan
Alameda County Health Care Services Agency
Government or Regulatory Agency
1131 Harbor Bay Parkway, Suite 250
Address
Alameda, California 94502-6577
City, State, and Zip Code
Signature
Title
Telephone (510) 567-6765
Fax (510) 337-9335
Date
E-mail

6 June 2001



Shell-branded Service Station
630 High Street
Oakland, California
Incident #98995751

CAMBRIA

Area Well Survey
(1/2-Mile Radius)

STID 3737

STATE OF CALIFORNIA - THE RESOURCES AGENCY — GRAY DAVIS, Governor

DEPARTMENT OF WATER RESOURCES

CENTRAL DISTRICT	NORTHERN DISTRICT	SAN JOAQUIN DISTRICT	SOUTHERN DISTRICT
3251 S Street	2440 Main Street	3374 East Shields Avenue	770 Fairmont Avenue
Sacramento, CA 95818	Red Bluff, CA 96080	Fresno, CA 93726	Glendale, CA 91203
(916) 227-7632	(530) 529-7300	(559) 230-3300	(818) 543-4600
(916) 227-7600(Fax)	(530) 529-7322 (Fax)	(559) 230-3301 (Fax)	(818) 543-4604 (Fax)

WELL COMPLETION REPORT RELEASE AGREEMENT--AGENCY
(Government and Regulatory Agencies and their Authorized Agents)

Project/Contract No. 630 High Street, Oakland County Alameda

Township, Range, and Section T2S/R3W - 7R Radius ½ mile
(Must include entire study area and a map that shows the area of interest.)

Under California Water Code Section 13752, the agency named below requests permission from Department of Water Resources to inspect or copy, or for our authorized agent named below to inspect or copy, Well Completion Reports filed pursuant to Section 13751 to (check one):

[X] Make a study, or, Include T2S/R3W Sections: ① 17 C,D,E,F ② 18 A,B,C,G,H ③ 7 K,J,P,Q,R ④ 8 E,M,L,N,P

[ ] Perform an environmental cleanup study associated with an unauthorized release of a contaminant within a distance of 2 miles.

In accordance with Section 13752, information obtained from these reports shall be kept confidential and shall not be disseminated, published, or made available for inspection by the public without written authorization from the owner(s) of the well(s). The information shall be used only for the purpose of conducting the study. Copies obtained shall be stamped **CONFIDENTIAL** and shall be kept in a restricted file accessible only to agency staff or the authorized agent.

Jacquelyn Jones
Cambria Environmental
Authorized Agent

1144 65th Street, Ste C
Address

Oakland CA 94608
City, State, and Zip Code

Signature

Title Project Geologist

Telephone (510) 420-3316

Fax (510) 420-9170

Date 11/7/01

E-mail jjones@cambria-env.com

~~Barney Chan~~ Chuck Headlee
~~Alameda County Health Care Services Agency~~
Government or Regulatory Agency SFRWQCB

~~1131 Harbor Bay Parkway, Suite 250~~
Address 1515 Clay St., Ste 1500, Oakland, CA 94612

~~Alameda, California 94502-6577~~
City, State, and Zip Code

Signature

Title AEG

Telephone (510) ~~567-6765~~ 622-2433

Fax (510) ~~337-9335~~ 622-2464

Date 11/9/01

E-mail cth@rb2.swrcb.ca.gov

6 June 2001

TRANSMIT REPORT

2001,11-09 17:45
510 337 9335
ALAMEDA CO EHS HAZ-OPS

COM No.	REMOTE STATION	START TIME	DURATION	PAGES	RESULT	USER ID	REMARKS
635	510 622 2464	11-09 17:44	00'37	01/01	OK		

7499402045

STATE OF CALIFORNIA - THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
GRAY DAVIS, Governor

CENTRAL DISTRICT
3251 S Street
Sacramento, CA 95816
(916) 227-7632
(916) 227-7800(Fax)

NORTHERN DISTRICT
2440 Main Street
Red Bluff, CA 96080
(530) 529-7300
(530) 529-7322 (Fax)

SAN JOAQUIN DISTRICT
3374 East Shields Avenue
Fresno, CA 93726
(559) 230-3300
(559) 230-3301 (Fax)

SOUTHERN DISTRICT
770 Fairmont Avenue
Glendale, CA 91203
(818) 543-4600
(818) 543-4601 (Fax)

WELL COMPLETION REPORT RELEASE AGREEMENT--AGENCY
(Government and Regulatory Agencies and their Authorized Agents)

Project/Contract No. 630 High Street, Oakland County Alameda

Township, Range, and Section T2S/R3W-7R Radius ½ mile
(Must include entire study area and a map that shows the area of interest.)

Under California Water Code Section 13752, the agency named below requests permission from Department of Water Resources to inspect or copy, or for our authorized agent named below to inspect or copy, Well Completion Reports filed pursuant to Section 13751 to (check one):

[X] Make a study, or, Include T2S/R3W Sections:
① 17 C,D,E,F ② 18 A,B,C,G,H ③ 7 K,J,P,Q,R ④ 8 E,M,L,N,P

[ ] Perform an environmental cleanup study associated with an unauthorized release of a contaminant within a distance of 2 miles.

In accordance with Section 13752, information obtained from these reports shall be kept confidential and shall not be disseminated, published, or made available for inspection by the public without written authorization from the owner(s) of the well(s). The information shall be used only for the purpose of conducting the study. Copies obtained shall be stamped **CONFIDENTIAL** and shall be kept in a restricted file accessible only to agency staff or the authorized agent.

Jacqualyn Jones
Cambria Environmental
Authorized Agent

1144 65th Street, Ste C
Address

Oakland CA 94608
City, State, and Zip Code

~~Barney Chan~~ Chuck Headlee
~~Alameda County Health Care Services Agency~~ SFRWQCB
Government or Regulatory Agency

~~1131 Harbor Bay Parkway, Suite 250~~ 1515 Clay St., Ste 1500, Oakland, CA 94612
Address

~~Alameda, California 94502-6577~~
City, State, and Zip Code

1 of

CAMBRIA

R0228 A6
#3737 ✓

November 23, 1999

Mr. Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Re: Certified List of Record Fee Title Owners for:
Shell-branded Service Station
630 High St.
Oakland, CA
Incident No. 98995751

Dear Mr. Chan:

In accordance with section 25297.15(a) of Chapter 6.7 of the Health Safety Code and on behalf of Equiva Services LLC, we certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site.

Equilon Enterprises LLC c/o Stewart Title Guaranty Company, 1980 Post Oak Blvd., Suite 110, Houston, TX 77056

Sincerely,

Ailsa S. Le May, R.G.
Senior Geologist

Burbank ✓

cc: Karen Petryna, Equiva Services LLC, P.O. Box ~~6249~~, ~~Carson~~, California, ~~90749-6249~~ ✓

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

Cambria Environmental Technology, Inc.

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

June 18, 1999
StID #3737

Ms. Karen Petryna
Equiva Services LLC
P.O. Box 6249
Carson, CA 90749

Re: Work Plan for Additional Information for Shell Station, 630 High St., Oakland, 94601

Dear Ms. Petryna:

Our office has received and reviewed the June 15, 1999 letter work plan from Cambria, which responds to my May 13, 1999 letter. As you are aware, my letter was in response to your request to recommend closure for this site as a "low risk" type. The work plan proposes to perform a revised RBCA and sample all wells in the third quarter for oxygenates using EPA Method 8260. A conduit and sensitive receptor survey may also be performed based upon the results of the sampling.

This work plan is approved. Please include an evaluation of MTBE concentrations and provide a recommendation for obtaining site closure, particularly in the presence of MTBE.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M Chan

Barney M. Chan
Hazardous Materials Specialist

C: B. Chan, files
Mr. D. Ataide, Cambria Environmental, 1144 65th St., Suite B, Oakland CA 94608
Wpap630High

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

May 13, 1999
StID # 3737

Ms. Karen Petryna
Equiva Services LLC
P.O. Box 6249
Carson CA 90749

Re: Shell-branded Service Station, 630 High St., Oakland CA 94601

Dear Ms. Petryna:

This letter responds to the recent recommendation from your consultant, Cambria Environmental Technology, (Cambria), to propose closure of the above site as a low-risk groundwater site. I have reviewed the site history and evaluated it against the current guidelines. I have identified two items that need further attention, one of which is minor and other which is not.

The first item involves the January 30, 1995 RBCA evaluation performed by Weiss Associates. It will be necessary to update this RBCA. This would include using the most recent groundwater concentrations as more representative of current conditions. In addition, the risk based screening level (RBSL) using the updated Look-Up Table should reflect the California slope factor for benzene, 0.1. These items should not affect the conclusions of the initial RBCA in respect to the benzene concentration.

The second item involves the requirements for characterizing the compound, MTBE. Recent Water Board recommendations for MTBE have added additional requirements for the closure of MTBE impacted sites. The **May 15, 1998 Guidance on Analytical Methods for Oxygenates and Additives at Gasoline UST Sites** suggests the analysis of MTBE by EPA Methods 8020 or 8260 based upon the concentration of TPH in groundwater and the stage of the investigation. Using this guideline, the ether oxygenates (including MTBE) should be analyzed in groundwater using EPA Method 8260 in the pre-closure stage such is the case here. In addition, I noticed that some of the wells at the site have never been analyzed for MTBE and none of the wells have ever been analyzed for MTBE using EPA Method 8260. Therefore, you should provide justification for not running MTBE on a specific well and confirm the presence of MTBE by EPA Method 8260 on the others. Another guidance document is **the MtBE Road Map to Compliance**, presented at the SWRCB, 1998 UST Conference on April 7-9, 1998. This document provides a risk-based approach in handling these sites. This risk-based approach requires the response to the following questions in regards to MTBE:

- Has the site been adequately characterized ?
- Has the source been removed?
- Has free product been removed to the extent practicable?
- Do you have a stable plume?
- Are there any current or future public health or ecological threats?
- Is there any current or future water resource threat?
- Is a risk management plan in place?

In determining whether the site is adequately characterized, you should perform a conduit study and a sensitive receptor study. Some of this information may be extracted from the previous RBCA performed by Weiss.

Please address the above items in a revised RBCA and an evaluation of the MTBE requirements for the above site. A work plan should be submitted to perform additional chemical or subsurface analysis. Please submit your work plan **within 30 days of this letter or by June 15, 1999.**

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M Chan

Barney M. Chan
Hazardous Materials Specialist

C: B. Chan, files
Mr. Darryk Ataide, Cambria Environmental Technology, 1144 65th St., Suite B, Oakland CA, 94608

Clrq630HighSt

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION

05/12/99

UNDERGROUND STORAGE TANK CLEANUP SITE

AGENCY#: 10000 SOURCE OF FUNDS: F-FEDERAL INSPECTOR: BC
StID: 3737 SUBSTANCE: 12035 -Waste Oil
SITE NAME: Shell Mini Mart DATE REPORTED : 06/06/85
ADDRESS : 630 High St DATE CONFIRMED: 02/24/89
CITY/ZIP : Oakland, CA 94601 MULTIPLE RP's : N

CASE TYPE: O CONTRACT STATUS: 4 PRIOR:-0- EMERGENCY RESPONSE: -0-

RP SEARCH	: S		DATE END: 03/23/92
PRELIM ASSESSMENT	: U	DATE BEGIN: 06/20/89	DATE END: -0-
REMEDIAL INVESTIG	: -	DATE BEGIN: -0-	DATE END: -0-
REMEDIAL ACTION	: -	DATE BEGIN: -0-	DATE END: -0-
POST REMED MONITOR	: -	DATE BEGIN: -0-	DATE END: -0-

TYPE ENFORCEMENT ACTION TAKEN: 1 DATE OF ENFORC. ACTION: 03/23/92

UNDERGROUND STORAGE TANK CLEANUP SITE - SCREEN #2

LUFT FIELD MANUAL CONSIDERATION: 3HSCAWG CASE CLOSED: - on: -0-

DT EXC START: 01/26/89 REMEDIAL ACTIONS TAKEN: ED,ET

RP #1: CONTACT: Alex Perez RP COST: -0-
RP COMPANY NAME: Shell Oil Co. Ph: -0-
ADDRESS: P. O. Box 8080
CITY/STATE: Martinez Ca 94553

JeMENT:

Listing all LOP DAILY activities since 1991 for StID # 3737
as of 05/12/99

Shell Mini Mart at as of 05/12/99 , Oakland CA 94601

Act91_4
Act92_1

ActivDat	Insp	ACT	Activ	StID	ActCostF	aComment
03/25/92	EC	200	0.3	3737	$12.31	cert letter
04/06/92	TP	215	0.6	3737	$33.24	QR, assign priority

-0-
-0-
Act92_2

09/15/92	TP	215	1.9	3737	$109.53	begin review last 3 reports
09/16/92	TP	212	0.4	3737	$23.06	w/Dan Kirk
09/16/92	TP	215	1.	3737	$57.65	review request, write letter

-0-

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

May 6, 1999

STID 3737

Ms. Karen Petryna
Equiva Services LLC
P.O. Box 6249
Carson, CA 90749-6249

RE: Shell-branded Service Station, 630 High St., Oakland CA 94601

LANDOWNER NOTIFICATION AND PARTICIPATION REQUIREMENTS

Dear Ms. Petryna:

This letter is to inform you of new legislative requirements pertaining to cleanup and closure of sites where an unauthorized release of hazardous substance, including petroleum, has occurred from an underground storage tank (UST). Section 25297.15(a) of Ch. 6.7 of the Health & Safety Code requires the primary or active responsible party to notify all current record owners of fee title to the site of: 1) a site cleanup proposal, 2) a site closure proposal, 3) a local agency intention to make a determination that no further action is required, and 4) a local agency intention to issue a closure letter. Section 25297.15(b) requires the local agency to take all reasonable steps to accommodate responsible landowners' participation in the cleanup or site closure process and to consider their input and recommendations.

Please comply with these requirements so our office may proceed in evaluating your proposal for site closure.

For purposes of implementing these sections, you have been identified as the primary or active responsible party. Please provide to this agency, within twenty (20) calendar days of receipt of this notice, a complete mailing list of all current record owners of fee title to the site. You may use the enclosed "list of landowners" form (sample letter 2) as a template to comply with this requirement. If the list of current record owners of fee title to the site changes, you must notify the local agency of the change within 20 calendar days from when you are notified of the change.

If you are the sole landowner, please indicate that on the landowner list form. The following notice requirements do not apply to responsible parties who are the sole landowner for the site.

In accordance with Section 25297.15(a) of Ch. 6.7 of the Health & Safety Code, you must certify to the local agency that all current record owners of fee title to the site have been informed of the proposed action before the local agency may do any of the following:

1) consider a cleanup proposal (corrective action plan)

2) consider a site closure proposal

3) make a determination that no further action is required

4) issue a closure letter

You may use the enclosed "notice of proposed action" form (sample letter 3) as a template to comply with this requirement. Before approving a cleanup proposal or site closure proposal, determining that no further action is required, or issuing a closure letter, the local agency will take all reasonable steps necessary to accommodate responsible landowner participation in the cleanup and site closure process and will consider all input and recommendations from any responsible landowner.

Please call me at (510) 567-6765 should you have any questions about the content of this letter.

Sincerely,

Barney M. Chan

Barney M. Chan
Hazardous Materials Specialist

Attachments

cc: Chuck Headlee, RWQCB

CAMBRIA

SHELL OIL PRODUCTS COMPANY

CALIFORNIA WATER QUARTERLY REPORT
CALIFORNIA REGIONAL WATER QUALITY CONTROL

CENTRAL VALLEY REGION

Third Quarter 1997

#3737
BC
RW28

WIC# 204-5508-5801
630 High St.
City of Oakland
County of Alameda

Remedial Action Status:
No remedial activities are planned for this site.

Actions planned next 3 months:
This site is currently monitored semi-annually in the second and fourth quarters..

Soil Contamination Defined?	Yes
Soil Cleanup in Progress?	No
Free Product Plume Defined?	NA
Free Product Cleanup in Progress?	NA
Dissolved Constituent Plume Defined?	Yes

Contractor: **Cambria Environmental Technology, Inc.**

NA = Not applicable.

12/17/97

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
PH: (510) 420-0700
FAX: (510) 420-9170

CAMBRIA

3737

January 9, 1997

Barney Chan
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

re: **Ground Water Sampling**
Shell Service Station
630 High Street
Oakland, California
Wic #204-5508-5801

Dear Mr. Chan:

As you requested in your December 16, 1996 letter to Jeff Granberry of Shell Oil Products Company, we will implement the sampling program outlined in Weiss Associates' May 1, 1995 Proposed Future Action Plan and Request to Establish a Non-Attainment Zone for the site referenced above. This site was transferred to Cambria in the third quarter of 1996 and according to Tom Fojut of Weiss Associates, no sampling was required at this site. There was apparently a misunderstanding between Weiss Associates and Alameda County. We are contacting the sampling consultant, Blain Tech Services, and will implement the semi-annual sampling program as you requested.

We appreciate this opportunity to work with you on this project. Please call me if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

N. Scott MacLeod, R.G.
Principal Geologist

cc: R. Jeff Granberry, Shell Oil Products Company

F:\PROJECT\SHELL\OAK630\CORRESP.97\LETTER-1.WPD

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET
SUITE B
OAKLAND,
CA 94608
PH:(510)420-0700
FX:(510)420-9170

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

December 16, 1996
StID # 3737

R0228

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

Mr. Jeff Granberry
Shell Oil Company
P.O. Box 4023
Concord CA 94524

Re: Groundwater Monitoring at 630 High St., Oakland CA 94601

Dear Mr. Granberry:

Our office last wrote to Mr. Dan Kirk in my February 17, 1995 letter where our office concurred with the January 30, 1995 Tier 1 Risk Assessment for the above site as prepared by Weiss Associates. This letter requested a proposal for groundwater monitoring and contingency program consistent with the Non-Attainment policy and site closure. After discussion with Mr. Tom Fogut, Weiss Associates prepared the May 1, 1995 the **Proposed Future Action Plan and Request to Establish a Non-Attainment Zone.** In this report, a modified sampling schedule was proposed for bi-annual monitoring of wells MW-1, MW-5, MW-6 and MW-7. Table D-1 within this report contained the contingency plan for this site. Trigger concentrations (that which would indicate an increasing plume) were set for the guard well, MW-1 , and the boundary wells, MW-5 , MW-6 and MW-7. The first action, should the trigger concentrations be exceeded, would be to revert back to quarterly monitoring. However, should this monitoring confirm a stabilized or decreasing plume, site closure would be requested in 1998.

Although our office did not give formal written approval of this schedule, the schedule is reasonable and you may proceed with the proposed monitoring. Please inform our office if you have commenced on the proposed monitoring schedule. It would appear not, since we do not have any monitoring reports for 1996. Please initiate bi-annual monitoring immediately.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

c: Mr. S. Long, Weiss Associates, 5500 Shellmound St., Emeryville CA 94608-2411
B. Chan, files bian630

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIR
DEPARTMENT OF ENVIRONMENTAL H

February 17, 1995
StID # 3737

ALAMEDA COUNTY CC4580
DEPT. OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord CA 94524

Re: Comment on January 30, 1995 Tier 1 Risk Based Assessment for Shell Service Station, 630 High St., Oakland CA 94601

Dear Mr. Kirk:

Our office has received and reviewed the Risk Based Assessment for the above site as provided by your consultants, Weiss Associates. Recall, this assessment used the ASTM standard guide, ES 38. Our office concurrs with this assessment ie the current levels of soil and groundwater at this site do not pose a threat to human health based on the current site usage. Should there be a change of site useage, you are required to re-evaluate your risk assessment.

In regards to the future actions for this site, our office also concurrs with the Non-Attainment Area approach for this site. Your next action should be the proposal of a monitoring plan which is agreeable with our office for site closure and consistent with the NAA policy. Until such time, quarterly monitoring reports should be submitted and wells monitor~~ing~~ed according to the existing schedule.

You may contact me at (510) 567-6765 should you have any questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

cc: Ms. A. Watts, Weiss Associates, 5500 Shellmound St., Emeryville, CA 94608-2411
E. Howell,files
RBCA630

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR
DEPARTMENT OF ENVIRONMENTAL HEALTH

November 3, 1994
StID # 3737

Alameda County
Health Care Services Agency
Dept. Of Environmental Health
1131 Harbor Bay Pkwy 2nd Flr.
Alameda Ca 94502-6577

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord CA 94524

Re: Comment on Non-Attainment Area Proposal for Shell Service Station at 630 High St., Oakland CA 94601

Dear Mr. Kirk:

As you may recall, our office was receptive in considering this site as one eligible for Alternative Points of Compliance, prior to its refinement and name change to Non-Attainment Area (NAA) policy. Recall, your consultants performed significant work to verify that bioremediation was likely occurring at this site. Over the past several years monitoring has been performed to see whether trends in petroleum hydrocarbon contamination are decreasing toward some assymtopic level. Your last few monitoring reports, July and September 1994, state that should the benzene concentrations remain stable or decrease, NAA policy would be requested for this site.

Since the initiation of our office's oversight, significant advancement has occurred in the NAA policy. You are aware that this policy has been incorporated in the August 1994 Ground Water Basin Plan Amendments and is also consistent with the Risk Based Corrective Action (RBCA) process, ASTM ES38, which the SFRWQCB now endorses. As part of both RBCA and NAA, risk assessment plays an important part in cases where soil and groundwater contamination is allowed to be monitored without any "active" remediation. Upon review of the groundwater contamination at this site, it appears that there is a need to perform some type of risk assessment. As a first step, following the RBCA guideline, you should examine the potential exposure scenarios which exist at this site and compare the current concentrations to that in the "Lookup Table". Should the existing concentrations exceed these values, a site specific risk assessment may be required along with site specific risk management practices. One obvious concern is the potential exposure to on-site workers (cashiers) over their working career.

Since you are contemplating recommending the NAA policy for this site, please provide a risk assessment for potential exposure. You should also provide a recommendation for your next action based on the results of your assessment.

Please provide the requested document **within 60 days or by January 2, 1995.**

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan

Barney M. Chan
Hazardous Materials Specialist

cc: Mr. J. Carmody, Weiss Associates, 5500 Shellmound St., Emeryville, CA 94608-2411
E. Howell, files
RA630

E OF CALIFORNIA - CALIFORNIA ENVIRONME[redacted] PROTECTION AGENCY

PETE WILSON, *Governor*

ATE WATER RESOURCES CONTROL BOARD

JIVISION OF CLEAN WATER PROGRAMS
2014 T STREET, SUITE 130
P.O. BOX 944212
SACRAMENTO, CALIFORNIA 94244-2120
(916) 227-4307
(916) 227-4530 FAX

R2216

JUN 16 1994

BC

STID 3737

Shell Oil Company
P. O. Box 4848
Anaheim, CA 92803

UNDERGROUND STORAGE TANK CLEANUP FUND, CLAIM NO. 005028, FOR SITE ADDRESS: 630 High Street, Oakland, CA 94601

The State Water Resources Control Board (SWRCB) takes pleasure in issuing the attached Letter of Commitment in an amount not to exceed $330,000. This Letter of Commitment is based upon our review of the corrective action costs incurred to date and your application received on January 17, 1992 and may be modified by the SWRCB in writing by an amended Letter of Commitment.

The SWRCB will take steps to withdraw this Letter of Commitment after 90 calendar days from the date of this transmittal letter unless you proceed with due diligence with your cleanup effort. This means that you must take positive, concrete steps to ensure that corrective action is proceeding with all due speed. For example, if you have not started your cleanup effort, you must obtain three bids and sign a contract with one of these bidders within 90 calendar days. If your cleanup effort has already started and was delayed, you must resume the expenditure of funds to ensure that your cleanup is proceeding in an expeditious manner. You are reminded that you must comply with all regulatory agency time schedules and requirements. We constantly review the status of all active claims, and failure to proceed with due diligence will be grounds for withdrawal of this Letter of Commitment.

You should read the terms and conditions listed in the Letter of Commitment. Also attached you will find:

- A "Reimbursement Request Instructions" package. **You should retain this package for future reimbursement requests.** Among other information, the package includes instructions for completion of the "Reimbursement Request" form and the "Spreadsheet". These instructions must be followed when seeking reimbursement for corrective action costs incurred after January 1, 1988. Included in these instructions are samples of Reimbursement Request forms and completed Spreadsheets. Within the package also included are:
  - A "Bid Summary Sheet" to document data on bids received.
  - Recommended Minimum Invoice Cost Breakdown.
  - A "Certification of Non-Recovery From Other Sources" which must be returned before any reimbursements can be made.
- "Reimbursement Request" forms which you must use to request reimbursement of costs incurred.
- "Spreadsheet" forms which you must use in conjunction with your Reimbursement Request.
- "Vendor Data Record" (Std. Form 204) which must be completed and returned with your first Reimbursement Request.

If you have any questions regarding the Letter of Commitment or the Reimbursement Request package, please contact Blessy Torres at (916) 227-4535.

Sincerely,

Dave Deaner, Manager
Underground Storage Tank
Cleanup Fund Program

Attachments

cc: California Regional Water Quality
Control Board, San Francisco Bay Region
Attn: Steven Ritchie
2101 Webster Street, Suite 500
Oakland, CA 94612

Alameda County EHD
Attn: Ed Howell
80 Swan Way, Room 200
Oakland, CA 94621

LETTER OF COMMITMENT FOR REIMBURSEMENT OF COSTS

CLAIM NO: **005028**

AMENDMENT NO: **0**

CLAIMANT: **Shell Oil Company**
CO-PAYEE: **None**

BALANCE FORWARD: **$0**

THIS AMOUNT: **$330,000**

CLAIMANT ADDRESS: **Attn: P. Pugnale**
P. O. Box 4848
Anaheim, CA 92803

NEW BALANCE: **$330,000**

TAX ID / SSA NO.: **13-1299891**

Subject to availability of funds, the State Water Resources Control Board (SWRCB) agrees to reimburse Shell Oil Company (Claimant) for eligible corrective action costs at High Street Food Mart 630 High Street, Oakland, CA 94601 (Site). The commitment reflected by this Letter is subject to all of the following terms and conditions:

1. Reimbursement shall not exceed $330,000 unless this amount is subsequently modified in writing by an amended Letter of Commitment.

2. The obligation to pay any sum under this Letter of Commitment is contingent upon availability of funds. In the event that sufficient funds are not available for reasons beyond the reasonable control of the SWRCB, the SWRCB shall not be obligated to make any disbursements hereunder. If any disbursements otherwise due under this Letter of Commitment are deferred because of unavailability of funds, such disbursements will promptly be made when sufficient funds do become available. Nothing herein shall be construed to provide the Claimant with a right of priority for disbursement over any other claimant who has a similar Letter of Commitment.

3. All costs for which reimbursement is sought must be eligible for reimbursement and the Claimant must be the person entitled to reimbursement thereof.

4. Claimant must at all times be in compliance with all applicable state laws, rules and regulations and with all terms, conditions, and commitments contained in the Claimant's Application and any supporting documents or in any payment requests submitted by the Claimant.

5. No disbursement under this Letter of Commitment will be made except upon receipt of acceptable Standard Form Payment Requests duly executed by or on behalf of the Claimant. All Payment Requests must be executed by the Claimant or a duly authorized representative who has been approved by the Division of Clean Water Programs.

6. Any and all disbursements payable under this Letter of Commitment may be withheld if the Claimant is not in compliance with the provisions of Paragraph 5 above.

7. Neither this Letter of Commitment nor any right thereunder is assignable by the Claimant without the written consent of the SWRCB. In the event of any such assignment, the rights of the assignee shall be subject to all terms and conditions set forth in this Letter of Commitment and the SWRCB's consent.

8. This Letter of Commitment may be withdrawn at any time by the SWRCB if completion of corrective action is not performed with reasonable diligence.

IN WITNESS WHEREOF, this Letter of Commitment has been issued by the SWRCB this 19th day of May, 1994.

STATE WATER RESOURCES CONTROL BOARD

BY Ron Markle

Manager, Underground Storage Tank Cleanup Fund Program

BY James B Stafford

Chief, Division Administrative Services

STATE USE :
CALSTARS CODING :
0550 - 569.02 - 30530

$_____

R:3/24/94

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

September 2, 1993
StID # 3737

Mr. Dan Kirk
Shell Oil Company
P.O. Box 5278
Concord, CA 94520-9998

Re: Status of Subsurface Investigation at Shell Service Station, at 630 High St., Oakland CA 94601

Dear Mr. Kirk:

Our office has reviewed the Weiss Associates August 17 and August 20, 1993 reports. They described the attempt to install an offsite well plus gave the results of the analysis of the parameters required for in-situ bioremediation. First of all, we agree that alternate locations for an offsite well should be investigated. Given the varying gradient at this site, any location along High St., between MW-5 and MW-6, would seem reasonable. The high concentration of Total Petroleum Hydrocarbons being found in MW-5 and MW-6 indicate a strong likelihood of off-site migration of impacted groundwater. Recall, item 3 of my March 18, 1993 letter stated that monitoring wells MW-6, MW-7 and MW-8 would be used as indicators of potential off-site migration. Well MW-5 should also be included as an indicator well since recent groundwater gradient has been northerly. Groundwater extraction or another technology must be investigated if the current trends of petroleum hydrocarbons contamination continue to be seen in MW-5 and MW-6.

Our other concern is the measurement of the parameters required for in-situ bioremediation plus the verification of the efficiency of this process. Please comment on the following concerns:

1. The 8/17/93 report states that 20 ppm dissolved oxygen (DO) is required to oxidize 1ppm of BTEX and based on 1.5 to 9.7 ppm DO being found, 0.8 to 0.5 ppm of BTEX can be oxidized. It therefore appears that the conservative estimate of 14 ppm gasoline in groundwater **cannot** be oxidized with the amount of DO currently present.

2. Please clarify the need for the nutrient nitrogen. Is there evidence that total nitrogen is the limiting factor as opposed to nitrogen from ammonia or nitrogen from nitrates? If there is a requirement for the type of nitrogen, additional analysis should be done to distinguish the source of the total Kjeldahl nitrogen.

Weiss Associates
Environmental and Geologic Services
5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: 510-450-6000

93 AUG 24 PM 2:32

August 20, 1993

8/24/93 BC

Barney Chan
Alameda County Department
of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 94621-1426

Re: ACDEH STID #3737
Shell Service Station
630 High Street
Oakland, California
WA Job #81-602-103

Dear Mr Chan:

As proposed in Weiss Associates' (WA) April 30, 1993 workplan, we recently attempted to install an additional monitoring well adjacent to the northern corner of the site referenced above (Figure 1). Presented below are a description of our drilling activities and recommendations for the site.

Permitting: WA contacted the City of Oakland to secure an encroachment permit to drill in the street adjacent to the site. However, the City of Oakland denied us the right to drill anywhere in the street except for the traffic island at the corner of High Street and the 880 on ramp. A further restriction on the encroachment permit was that we drill only on the weekend.

Drilling: We initially attempted to drill the well on Sunday, August 1, 1993. However, we encountered an unidentified obstruction at a depth of about eight feet. On Sunday, August 8 we attempted to install the well at a different location on the traffic island. However, during drilling, a representative from the East Bay Municipal Utility District (EBMUD) stopped by and indicated that they have one or more large diameter conduits that would make it impossible to drill a well in the island (Figure 2). A utility location map indicated that the conduits extend directly beneath the traffic island. Both High Street and the 880 on-ramp are high traffic areas and the City of Oakland refused to allow us to install a well in the lanes adjacent to the site.

Recommendations: Our work plan indicated that if a well could not be installed in the traffic island, WA would install a well onsite at the Shell property line. However, monitoring well MW-5 is already located in the northern corner of the site within a few ft of the property boundary. Since the objective of any additional well would be to install a clean crossgradient well, and since a well only a few ft away from well MW-5 would not likely be clean, we do not recommend installing a well at the property line at this time. A well in this location would not significantly enhance our understanding of hydrocarbon distribution. We will evaluate other well location options and may recommend installing a well in a different traffic island if an appropriate location can be found.

Biochemical Oxidation: Chemical and bacteriological analyses conducted during our second quarter ground water sampling indicate that subsurface conditions are suitable for biochemical oxidation to degrade hydrocarbons detected in ground water (Weiss Associates, Quarterly Letter Report, August 17, 1993). This biochemical oxidation may explain why hydrocarbon concentrations decrease rapidly from well MW-1 to downgradient wells MW-6 and MW-7.

We appreciate your cooperation in this matter. Please call me at (510) 450-6000 of you have any questions or comments.

Sincerely,
Weiss Associates

Alison Watts
Senior Staff Geologist

AWW:aww
J:\SHELL\HC_ENG\602-OAK\602L1AU3N.WP
cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998

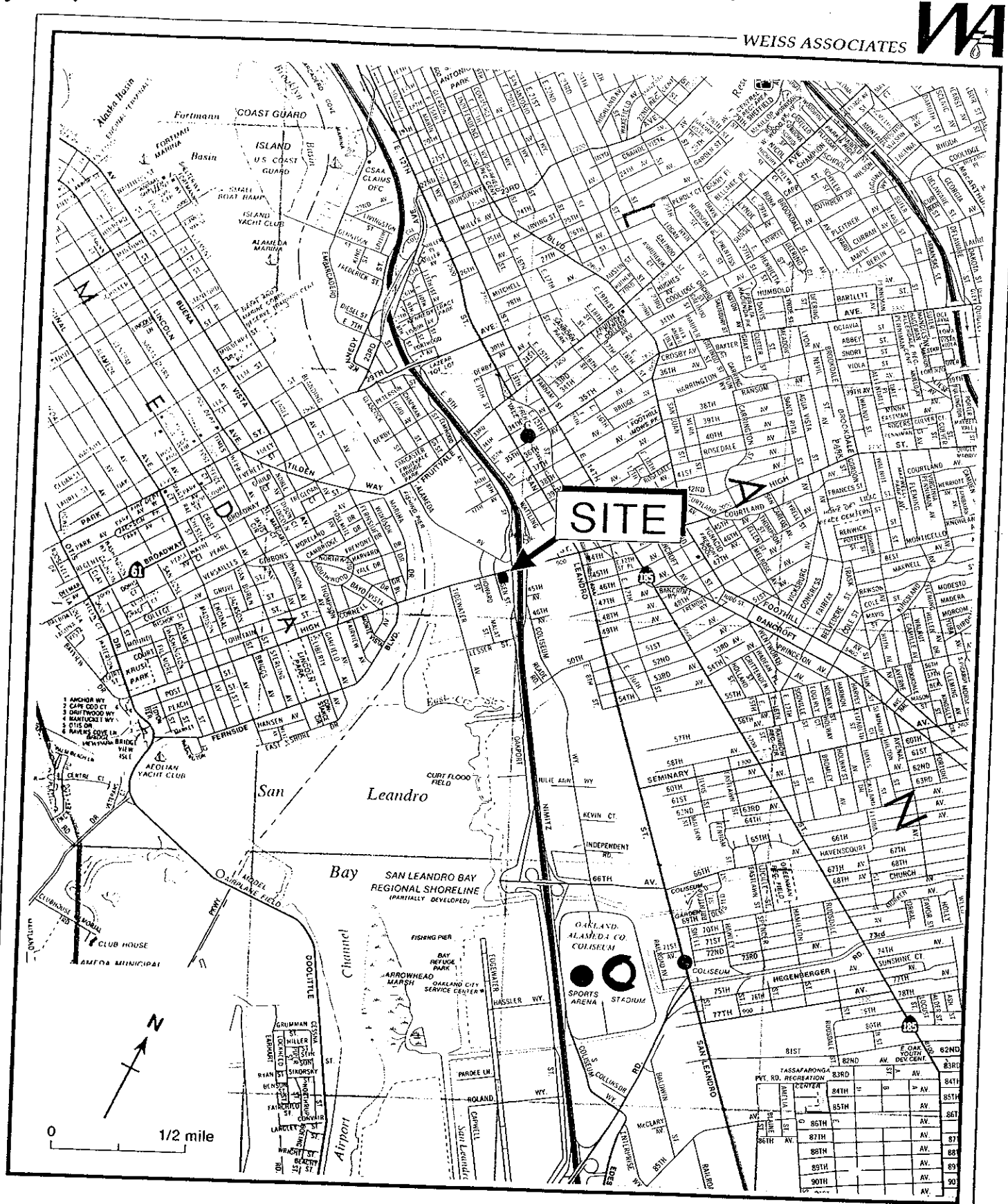


Figure 1. Site Location Map - Shell Service Station WIC #204-5508-5801, 630 High Street, Oakland, California

2/28/92

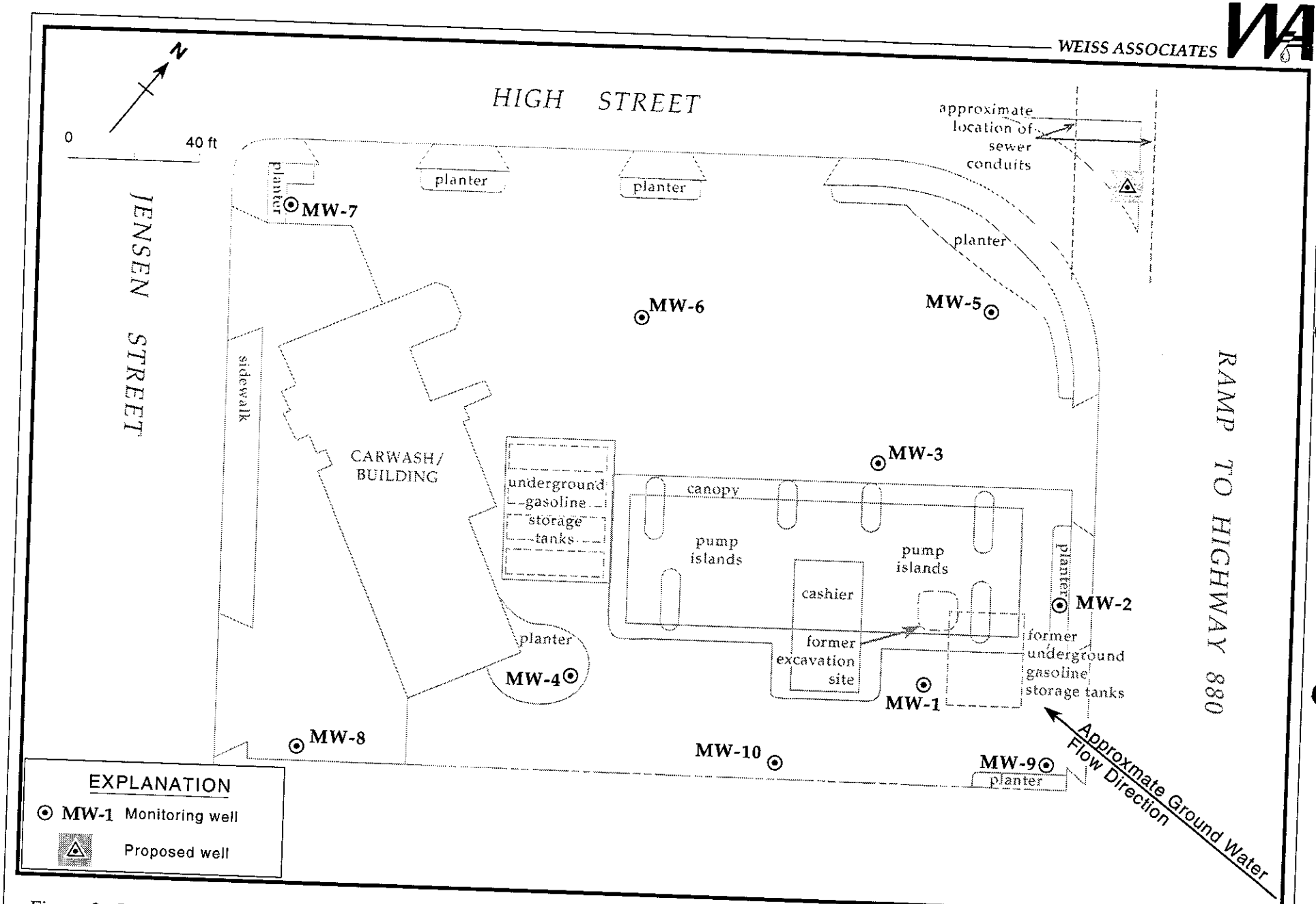


Figure 2. Proposed Well Location - Shell Service Station WIC #204-5508-5801, 630 High Street, Oakland, California

S602-001

8/20/93

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

March 18, 1993
StID # 3737

Mr. Dan Kirk
Shell Oil Company
P.O. Box 5278
Concord, CA 94520-9998

Re: Evaluation of March 1, 1993 Work Plan Proposal for Shell Service Station, 630 High St., Oakland CA 94601

Dear Mr. Kirk:

Our office is in receipt of Weiss Associates' March 1, 1993 proposal for further investigation at the above site. This proposal was generated after the February 16, 1993 meeting with you and Mr. Scott MacLeod of Weiss Associates. Recall, in this meeting we agreed on conditions where our office would allow "natural bioremediation" and require only quarterly monitoring. The submitted work tasks are acceptable under the following conditions:

1. Monitoring wells 1,4,5,6,9 will be analyzed **annually** for the proposed constituents: hydrocarbon-utilizing bacteria, the nutrients (nitrates, total Kjeldahl nitrogen, total phosphorous, total potassium and total dissolved solids) and dissolved oxygen. Please provide documentation as to "acceptable concentrations" of these parameters.

2. An offsite monitoring well to the north of the site, possibly on High St., will be installed due to the elevated levels of gasoline and benzene being found in MW-5. You should update our office in each quarterly report as to your progress in receiving drilling permission for this well. If you are not successful within a reasonable amount of time you will be required to install the monitoring well onsite, possibly within your site's planter area.

3. The last condition, not mentioned in the March 1, 1993 letter, is that monitoring wells MW-6, MW-7 and MW-8 will be used as indicators of the hydrocarbon contaminant plume migration. High levels of dissolved gasoline and concentrations of benzene exceeding its MCL, shall require the instituiton of a groundwater extraction system to contain the contamination on-site.

You may contact me at (510) 271-4530 should you have any questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office
R. Hiett, RWQCB
S. MacLeod, Weiss Associates, 5500 Shellmound St., Emeryville, CA 94608-2411
E. Howell, files

WP-630High

Weiss Associates Environmental and Geologic Services

5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: **510-547-5420**

March 16, 1993

Barney Chan
Alameda County Department
of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 94621-1426

Re: ACDEH STID #3737
Shell Service Station
630 High Street
Oakland, California
WA Job #81-602-103

Dear Mr Chan:

Weiss Associates prepared a letter on March 1, 1993 that addressed items that were presented in your January 14, 1993 letter and that we discussed in our February 16, 1993 meeting regarding the site referenced above. We are writing to confirm that we have adequately addressed your concerns and to request written approval to proceed with the program presented in our March 1 letter.

We appreciate your cooperation in this matter. Please call me at (510) 450-6120 of you have any questions or comments.

Sincerely,
Weiss Associates

Thomas Fojut
Senior Staff Geologist

TF:tf

J:\SHELL\HC_ENG\602-OAK\602L2MA3.WP

cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998

Weiss Associates
Environmental and Geologic Services
5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: 510-547-5420

2095 E. Clw. 2

March 15, 1993

Barney Chan
Alameda County Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 94621

Re: ACDEH STID #3737
Shell Service Station
630 High Street
Oakland, California
WA Job #81-602-103

Dear Mr. Chan:

This letter is to confirm the items discussed in your February 16, 1993 meeting with Shell Environmental Engineer Dan Kirk and Weiss Associates (WA) Project Geologist Scott MacLeod regarding the Shell station referenced above. As agreed to in the meeting, Shell and WA are conducting the following tasks:

Hydrocarbon Biodegradation in Ground Water: To assess the extent of naturally occurring hydrocarbon biodegradation in ground water beneath the site, WA is arranging for the annual sampling of monitoring wells MW-1, MW-4, MW-5, MW-6 and MW-9 for hydrocarbon-utilizing bacteria, nutrients and dissolved oxygen in ground water during the second quarter. WA will present the results of the first sampling, which will occur during the next sampling event, in our second quarter 1993 status report. WA will also make recommendations for additional analyses if necessary to document the occurrence of naturally occurring hydrocarbon biodegradation.

Offsite Monitoring Well: WA is evaluating the feasibility of installing a well in the street north of the site. WA is also checking with the Oakland Engineering Services Department and the California Department of Transportation about their requirements for a well on High Street. We will describe our progress in our upcoming quarterly status reports.

Previous Well Installation: WA investigated the City of Oakland encroachment permit application prepared by the previous consultant for this site to install a well in the street east of the site. According to our files, the previous consultant apparently installed well MW-9 at the southeast corner of the site instead of in the street (Figure 1). We are still investigating whether the previous consultant was denied access to drill in the street or whether some other factor led them to not install a well in the street.

We trust that we have addressed the concerns you expressed in the meeting regarding this site. Please do not hesitate to call Scott MacLeod or me at (510) 450-6000 if you have any questions or comments.

Sincerely,
Weiss Associates

David Nlias FOR:

Thomas Fojut
Senior Staff Geologist

TF/NSM:tf

J:\SHELL\600\LTRS\602L2FE3.WP

cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Oakland, California 94520-9998

Weiss Associates
Environmental and Geologic Services
5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: 510-547-5420

March 1, 1993

Glenn Bennett
Blaine Tech Services, Inc.
985 Timothy Drive
San Jose, California 95133

Re: Bacteria and Bacterial Nutrient Sampling
Shell Service Station
630 High Street
Oakland, California
WA Job #81-602-103

Dear Mr. Bennett:

As we discussed over the telephone on February 25, 1993, Shell Oil Company has requested that Weiss Associates coordinate the sampling of ground water at the site referenced above for dissolved oxygen, bacteria and bacterial nutrients. In addition to sampling all the site wells for hydrocarbons during your second quarter 1993 ground water monitoring visit to this station, please measure dissolved oxygen in ground water and collect ground water samples from wells MW-1, MW-4, MW-5, MW-6 and MW-9 for the analyses described below.

DISSOLVED OXYGEN MEASUREMENTS

Pump each well of at least three well casing volumes of ground water using a pneumatic bladder or equivalent non-aerating pump. To minimize mixing air into the water in the well, make sure the pump inlet is well below the water level in each well. After purging each well with the pump, collect a ground water sample from each well using a bailer. Lower the bailer gently into the water to avoid agitating water in the well. Decant the water sample, without sampling, into a container and measure the dissolved oxygen concentration in the sample with a dissolved oxygen meter. Please measure each sample twice to confirm the results. Also, as always, record the temperature, pH and electrical conductivity of the purge water prior to sampling for hydrocarbon constituents. Do not collect dissolved oxygen samples for laboratory analysis.

WATER SAMPLE COLLECTION

Because of the extremely short holding time for these samples, please submit the samples as soon as possible to the Anametrix laboratory in San Jose. Anametrix, Shell's contract laboratory, cannot perform these analyses but has arranged to subcontract the analyses to Coast-to-Coast Analytical Services (CCAS). Several days prior to sampling the wells, notify Simon Hague at Anametrix at (408) 432-8192 of the sampling. He will arrange for CCAS to provide you with the appropriate sample containers and for a courier to pick up the samples from the site, unless you choose to have your technician deliver the samples to Anametrix immediately after the sampling. If you have any questions about the sampling containers or analyses, please call Alison Abraham at CCAS at (800) 456-CCAS.

Please collect water samples from wells MW-1, MW-4, MW-5, MW-6 and MW-9 for the following analyses:

Bacteria Plate-Counts: Decant a water sample from each well into two sterilized 4-ounce containers, preserved with $NA_2S_2O_3$. One sample will be for a hydrocarbon-utilizing bacteria plate count and the other sample will be for a standard bacteria plate-count. **These samples have a 6-hour holding time.**

Nitrates: Decant each water sample into one 4-ounce plastic bottle with no preservative. These samples will be analyzed by EPA Method 300.0 and have a 48-hour holding time.

Total Kjeldahl Nitrogen (TKN) and Total Phosphorous: Decant each water sample into an 8-ounce plastic bottle, preserved with H_2SO_4. These samples will be analyzed by EPA Method 351.4 for TKN and 365.2 for phosphorous and have a 28-day holding time.

Total Potassium: Decant each water sample into one half-liter or liter glass amber bottle, preserved with HNO_3. These samples will be analyzed by EPA Method 7610 and have a 6-month holding time.

Total Dissolved Solids (TDS): Decant each water sample into one 250-ml plastic bottle with no preservative. These samples have a 7-day holding time.

As always, allow no headspace in the sample containers and refrigerate all samples during delivery to Anametrix, following normal Shell chain-of-custody procedures.

We appreciate your cooperation in this matter. Please feel free to call me at (510) 450-6120 if you have any questions or comments.

Sincerely,
Weiss Associates

Thomas Fojut
Senior Staff Geologist

TF:tf

J:\SHELL\600\LTRS\602L1FE3.WP

cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998
Barney Chan, Alameda County Department of Environmental Health, Hazardous Materials Division, 80 Swan Way, Room 200, Oakland, California 94621-1426

Weiss Associates
Environmental and Geologic Services
5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: 510-547-5420

93 MAR -2 PM 12:45

March 1, 1993

Barney Chan
Alameda County Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 94621

Re: ACDEH STID #3737
Shell Service Station
630 High Street
Oakland, California
WA Job #81-602-103

Dear Mr. Chan:

This letter is to confirm the items discussed in your February 16, 1993 meeting with Shell Environmental Engineer Dan Kirk and Weiss Associates (WA) Project Geologist Scott MacLeod regarding the Shell station referenced above. As agreed to in the meeting, Shell and WA are conducting the following tasks:

Hydrocarbon Biodegradation in Ground Water: To assess the extent of naturally occurring hydrocarbon biodegradation in ground water beneath the site, WA is arranging for the annual sampling of monitoring wells MW-1, MW-4, MW-5, MW-6 and MW-9 for hydrocarbon-utilizing bacteria, nutrients and dissolved oxygen in ground water during the second quarter. WA will present the results of the first sampling, which will occur during the next sampling event, in our second quarter 1993 status report. WA will also make recommendations for additional analyses if necessary to document the occurrence of naturally occurring hydrocarbon biodegradation.

Offsite Monitoring Well: WA is evaluating the feasibility of installing a well in the street north of the site. WA is also checking with the Oakland Engineering Services Department and the California Department of Transportation about their requirements for a well on High Street. We will describe our progress in our upcoming quarterly status reports.

Previous Well Installation: WA investigated the City of Oakland encroachment permit application prepared by the previous consultant for this site to install a well in the street east of the site. According to our files, the previous consultant apparently installed well MW-9 at the southeast corner of the site instead of in the street (Figure 1). We are still investigating whether the previous consultant was denied access to drill in the street or whether some other factor led them to not install a well in the street.

We trust that we have addressed the concerns you expressed in the meeting regarding this site. Please do not hesitate to call Scott MacLeod or me at (510) 450-6000 if you have any questions or comments.

Sincerely,
Weiss Associates

Thomas Fojut

Thomas Fojut
Senior Staff Geologist

TF/NSM:tf

J:\SHELL\600\LTRS\602L2FE3.WP

cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Oakland, California 94520-9998

* What was left out was that in our 1/93 meeting, I requested additional investigation of TPHg + BTEX appears in MW6, 7 & 8.

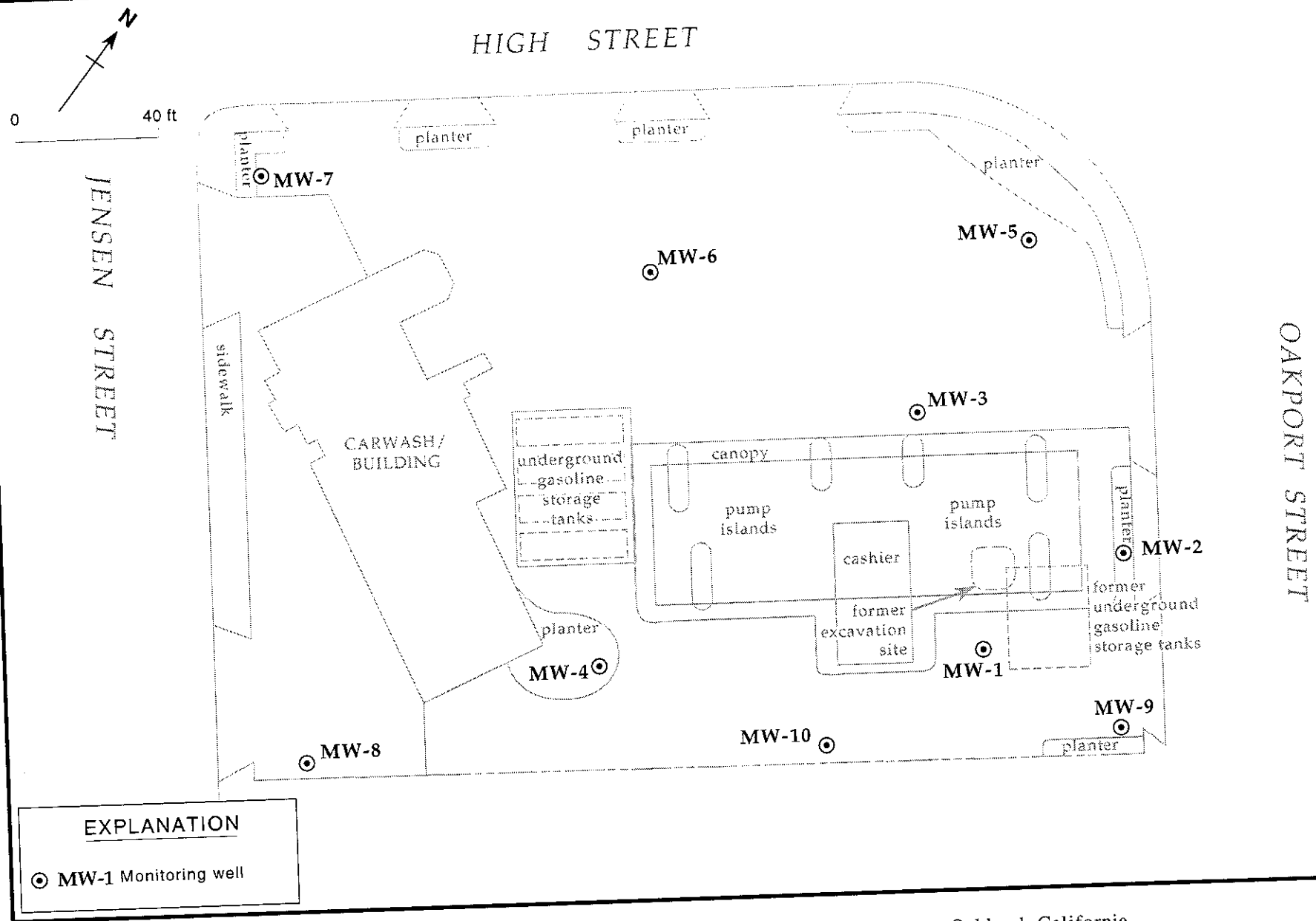


Figure 1. Monitoring Well Locations - Shell Service Station WIC #204-5508-5801, 630 High Street, Oakland, California

3/1/93

2/16/93 Meeting w/ D. Kirk & Scott MacLeod (Weiss)
Feb 13, 1989 - report
Confirmation samples. report from Blaine Tech.

- overexcavation was done & samples taken to confirm

(1) annually
- Verify quantification for biodegradation { D.O, N, ~~K~~ & P & bacterial count in MW 9, ~~10~~, 4, 5 & 6, 1

(2) - Need offsite well in NE ~~of~~ corner

(3) - agree to some type of active approach if [TPH5 & B] ~~found~~ in MW 8, 7, 6

- I stayed centroid monitoring with the (3) conditions. Our office can help facilitate offsite new installation approval if necessary.

Weiss Associates
Environmental and Geologic Services

Scott MacLeod
Geologist

5500 Shellmound St., Emeryville, CA 94608 • Phone: 510-547-5420 • Fax: 510-547-5043
AguaTierra Associates Incorporated, DBA

Shell Oil Company

P. O. Box 5278
Concord, CA 94520-9998
(510) 675-6165

FEBRUARY 2, 1993

ALAMEDA COUNTY HEALTH CARE SERVICES
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, RM. 200
OAKLAND, CA 94621
ATTN: BARNEY CHAN

SUBJECT: SHELL SERVICE STATION
630 HIGH ST.
OAKLAND, CA 94601

Dear Mr. Chan:

I have reviewed your letter of January 14, 1993. I was in receipt of your letter on January 18, 1993. Shell would like to schedule a meeting with you to discuss the site conditions. I am respectfully requesting an extension to March 18, 1993. This will give us time to schedule a meeting with you, review the data, and adequately respond to your request.

Thank you,

S.T. Kirk

D. T. Kirk
Environmental Engineer
Shell Oil Co.

cc: Rich Hiett, RWQCB
Scott MacLeod, Weiss Associates

DATE: 2/25/92

TO : **Local Oversight Program**

FROM: AMIR .K. GHOLAMI

SUBJ: **Transfer of Elligible Oversight Case**

3/10
Ray Newsome - RP!
628-1414 ext 128 ?
out til 3/12.
left msg to confirm RP

Site name: SHELL OIL COMPANY

Address: 630 HIGH STREET City OAKLAND Zip 94601

Closure plan attached? Y (N) DepRef remaining $_____

DepRef Project # 31 STID #(if any) 3737

Number of Tanks: _____ removed? Y N Date of removal _____

Leak Report filed? (Y) N Date of Discovery 1985

Samples received? Y N Contamination: YES

Petroleum (Y) N Types: Avgas Jet ~~leaded~~ unleaded (Diesel fuel oil (waste oil) kerosene solvents

Monitoring wells on site YES Monitoring schedule? Y N

Briefly describe the following:

Preliminary Assessment PRELIMINARY ASSESMENT FOUND CONTAMINATION OF TPH g, TPH d / BTEX.

Remedial Action JUST PLANNING TO CONTINUE MONITORING.

Post Remedial Action Monitoring _____

Enforcement Action _____

Comments: THERE IS NO DEPOSIT / REFUND ~~SHEET~~ AND NO CLOSURE PLAN WAS FOUND.
THERE HAS BEEN CONTAMINATION FOUND SINCE 1985 OF TPH g, TPH d / BTEX.
M.W'S ARE INSTALLED AND "SOME" QUARTERLY REPORTS SUBMITTED
THIS WAS A GAS STATION ~~WHICH~~ WITH LEAKING TANK.
RECEIPT # IN DEPOSIT/REFUND # IS 505531 DATED 12/28/87.
~~[redacted]~~ LAST REPORT INDICATES 8.6 PPM FOR TPH g AT M.W.1
5.9 " " " TPH d " " "
~~[redacted]~~
BTEX VALUES AT M.W.1 WERE .22 PPM, .023 PPM, .31 PPM, .27 PPM respectively
THEY ARE PLANNING TO ONLY CONTINUE MONITORING AND SUBMIT QUARTERLY REPORT.

DATE: 2/24/92

TO : **Local Oversight Program**

FROM: Jeff

SUBJ: **Transfer of Elligible Oversight Case**

Site name: SHELL Mini-MART

Address: 630 High STREET City OAK Zip 94601

Closure plan attached? Y (N) DepRef remaining $ 273.50

DepRef Project # 31 STID #(if any) 3737

Number of Tanks: 5 removed? Y N Date of removal _____

Leak Report filed? (Y) N Date of Discovery 1/27/89

Samples received? (Y) N Contamination: Yes

Petroleum Y N Types: Avgas Jet leaded (unleaded) Diesel
fuel oil (waste oil) kerosene solvents

Monitoring wells on site 10 Monitoring schedule? (Y) N

Briefly describe the following:

Preliminary Assessment _____

Remedial Action Excavation of Contaminated Soil

Post Remedial Action Monitoring _____

Enforcement Action _____

Comments: Several Qtrly Reports have been submitted. They need to continue Follow-up of Remediation and Qtrly Reports.

Suggestions 1) Request Copies of Leak report and Closure Plan.

2) Request up-date Qtrly Report.

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

January 14, 1992
STID # 3737

Mr. Dan Kirk
Shell Oil Co.
P.O. Box 4023
Concord, CA 94524

Re: **Request for Further Subsurface Investigation at Shell Station, 630 High St., Oakland CA 94601**

Dear Mr. Kirk:

As you are aware, the oversight of the remediation at the above referenced site has been transferred to the Local Oversight Program (LOP) section of Alameda County Environmental Health, Hazardous Materials Division and you new case worker is the undersigned Hazardous Materials Specialist.

Upon review of the numerous reports associated with this site, our office has the following concern:

It appears that there is a plume of TPHg, TPHd and BTEX emanating from near MW-1 which is moving across the site westerly, as the gradient would predict. The plume has reached MW-4, MW-5 and is beginning to be detected in MW-6 according to the 8/20/92 monitoring report. The concentrations of these parameters in groundwater have not been decreasing over the three year monitoring period. In the March 29, 1990 report Converse, your consultant, proposed to prepare a Groundwater and Soil Corrective Action Plan. In addition, an offsite well to the northeast of the site was also proposed. What is the status of these actions? Additional wells are now required to define the extent of the groundwater contamination. Soil contamination likely exists at this site, as evidenced in the 1989 Blaine Technical Services reports describing the results of numerous soil borings. These soils may be a source of the petroleum contamination being monitored in MW-1 and MW-3 through MW-6. The slug test performed on this site stated that the average linear velocity of the groundwater is approximately 17-25 feet/year. This calculation accurately describes the movement of the contaminant plume's migration.

Please provide a written response to the above concern to our office **within 30 days** of receipt of this letter.

Please be advised that our office is acting as an agent for the Regional Water Quality Control Board (RWQCB) and this request for technical reports is pursuant to Section 13267 (b) of the California Water Code. Failure to submit the requested documents may subject Shell Oil Company to civil liabilities.

You may contact me at (510) 271-4530 should you have any questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office
R. Hiett, RWQCB
J. Theisen, Weiss Associates, 5500 Shellmound St., Emeryville CA 94608-2411
E. Howell, files

WP-630High

CONVERSE ENVIRONMENTAL WEST

55 Hawthorne Street, Suite 500
San Francisco, California 94105-3906

Telephone **415 543-4200**
FAX 415 777-3157

91 APR 1 AM 8:53

March 29, 1991
88-44-369-20-1155

Ms. Dyan Whyte
Water Resource Control Engineer
San Francisco Bay Regional Water Quality Control Board
1800 Harrison Street, Room 700
Oakland, California 94612

Subject: Shell Oil Company - Quarterly Report - Q1/1991
630 High Street
Oakland, California

Dear Ms. Whyte:

Enclosed please find one copy of the Shell Oil Company Quarterly Report of Activities Quarter 1, 1991 prepared by Converse Environmental West (CEW) - San Francisco.

Very truly yours,

Converse Environmental West

Robin M. Breuer
Principal Regulatory Specialist

Enclosure

cc: Mr. Rafat Shahid - Alameda County Health Care Services
Mr. Charles Comstock - Converse Environmental West

CONVERSE
ENVIRONMENTAL WEST

55 Hawthorne Street, Suite 500
San Francisco, California 94105-3906

Telephone 415 543-4200
FAX 415 777-3157

92 JAN -3 AM 8:59

SH

STID 3737

December 31, 1991
88-44-369-20
WIC No. 204-5508-5801

Mr. Rafat Shahid
Director
Alameda County
Dept. of Environmental Health Services
80 Swan Avenue
Oakland, California

Subject: Request for Closure
Shell Oil Company Facility
630 High Street
Oakland, California

94601 give 5 spaces

94601

Dear Mr. Shahid:

Converse Environmental West (Converse) is requesting on behalf of Shell Oil Company (Shell) a site closure. During 1989, Converse conducted an investigation of the underground storage tank removal at the Shell gasoline service station at 630 High Street, Oakland, California. Closure activities and submittals conducted by Converse follow:

- Excavation of underground storage tanks and removal of contaminated soil from former pump islands; product pipelines and tank pits (January 1989).
- Installation and monitoring groundwater wells (March through November 1989).
- Quarterly groundwater sampling and reporting to agencies (January 1989 to present).

Based on the lack of evidence of contamination at site from the former underground storage tanks, Converse on behalf of Shell requests site closure. If you have any questions, please call me at (415) 543-4200.

Very truly yours,

Converse Environmental West

Robin M. Breuer
Principal Regulatory Specialist

Peter A. Fuller
Shell Account Manager

cc: Mr. Thomas Callahan - RWQCB
Mr. Paul Hayes - Shell Oil Company

8/31/89

Shell Oil Company

EAST BAY
MARKETING DISTRICT

P.O. Box 4023
Concord, CA 94524
(415) 676-1414

August 29, 1989

Mr. Ariu Levi
Alameda County Health Care Agency
80 Swan way, Suite 200
Oakland, CA 94621

Dear Mr. Levi:

SUBJECT: SHELL STATION
630 HIGH STREET
OAKLAND, CA

Enclosed are copies of manifests used for hauling contaminated soil at 630 High Street.

If you have any questions, please contact me at (415) 676-1414, Ext. 127.

Very truly yours,

Diane M. Lundquist

Diane M. Lundquist
District Environmental Engineer

Enclosure

JM924102

DAVIS STREET TRANSFER STATION-FACILITY
2615 DAVIS STREET, SAN LEANDRO, CA 94577

DATE 4-13-89 20207

TO Crosby & Overton Inc.

CUSTOMER'S ORDER NO. 2T08560

FINAL

$47320
GROSS WEIGHT

TARE WEIGHT

NET WEIGHT

YARDAGE

DRIVERS LICENSE NO.

DRIVER X

DPTK	0.00
GROS	143.20
TARE	-136.80
SUBT	6.40
99.999%	
NET	-6.40
0.640KG	
@	10.00
TOTL	6.40
SUBT	6.40
SCHG	0.19
CHRG	6.59
	2 ITM

MAKE CHECKS PAYABLE TO 8717A003 12:37

(OFFICE)

DAVIS STREET TRANSFER STATION

2615 DAVIS STREET, SAN LEANDRO, CA 94577

638-2303

71-001 (10-88) CUSTOMER'S COPY

Form Approved OMB No. 2050-0039 (Expires 9-30-91) MCH10571 4385S

Please print or type. (Form designed for use on elite (12-pitch typewriter).)

Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000165773 | Manifest Document No. 10571 | Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SHELL OIL COMPANY, PO BOX 6249
CARSON, CA 90749

4. Generator's Phone (213) 816-2037

GENERATING SITE
SHELL STATION
630 HIGH/OAKPORT
OAKLAND, CA 94601

A. State Manifest Document Number: 88354253

B. State Generator's ID: TAX ID NO. HYH036-010177

5. Transporter 1 Company Name: CROSBY & OVERTON EMI

6. US EPA ID Number: CAD981461064

C. State Transporter's ID

D. Transporter's Phone: 213/495-4011

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
PETROLEUM WASTE INC
LOKEIN RD
BUTTONWILLOW, CA 93206

10. US EPA ID Number: CAD980675276

G. State Facility's ID: CAD980675276

H. Facility's Phone: 805/589-4912

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste soil contaminated with petroleum hydrocarbon "California Regulated Waste Only"	001	DT	00013	Y	State 611
					EPA/Other
b.					State
					EPA/Other
c.					State
					EPA/Other
d.					State
					EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS-99.5%; WASTE OIL-.5%
TOTAL PETROLEUM HYDROCARBONS 300mg/kg
LEAD (TTLC) 44mg/kg; (STLC) 4.3mg/kg; BERYLLIUM 121ppm

K. Handling Codes for Wastes Listed Above
a. 04
b.
c.
d.

15. Special Handling Instructions and Additional Information
AVOID CONTACT WITH EYES AND SKIN.
PWI# M-371 M377

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: R G NAVIOMA | Signature: [signature] ON BEHALF OF SHELL OIL CO. | Month 04 Day 27 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] | Signature: [signature] | Month 04 Day 27 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: ROGER BARRERA | Signature: [signature] | Month 04 Day 28 Year 89

8022 A (1/88)
5700—22
9-88) Previous editions are obsolete.

Do Not Write Below This Line

GREEN: HAULER RETAINS

162504

_____ RCRA

__✓__ HAZARDOUS (Non-RCRA)

_____ NON HAZARDOUS

DATE 4-29-89

Petroleum Waste, Inc.

P.O. Box 787 • Buttonwillow, CA 93206 • (805) 762-7372

LOAD # 1

WMU # 11 LOCATION _____

1:04PM 4-29-89 73000 16 GR

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighed on Lokern Road 7 miles West of Buttonwillow

01:42 PM APR 29,89
73890 LB KEYED G
01:43 PM APR 29,89
31540 LB TARE
01:43 PM APR 29,89
42350 LB NET

85354253 MANIFEST NO.

42,260 bbls./lbs. QUANTITY

_____ bbls./lbs. RATE

TRUCKING CO. C Overton WASTE HAULER REGISTRATION NO. _____

GENERATOR Shell Oil Bay Oakland
COMPANY LOCATION

PETROLEUM WASTE, INC.

Weighmaster by _____ Deputy

I CERTIFY THAT THE DESCRIBED WASTE WAS HAULED BY ME TO THE DISPOSAL FACILITY NAMED ABOVE.

FOR WASHOUT: DRIVER'S INITIALS _____ DRIVER'S SIGNATURE X _____

Truck # 216

Truck Lic. No. 3K54491

TYPE OF WASTE: ☐ SOIL w/HC ☐ ROTARY MUD ☐ TANK BOTTOMS ☐ SCRUBBER WASTE

STATE ID # 4.11 EPA ID # _____

Trailer Lic. No. 10L7424

DESCRIPTION: SOLID ✓ SLUDGE _____ LIQUID _____ WASTE ID #: 21377

Trailer Lic. No. _____

ON-SITE ID: ANALYST S. Bittner

TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO
pH (3)	8.35	✓		HCVP(22)*	<100 PPM	✓		Absp(26)	PASS FAIL	X	
Vis.(1)	OK	✓		Sul(8A)	POS (NEG)	X					
F.L.(21)	YES (NO)	X		Cya(9 A)	POS (NEG)	X					

COLOR Brown

% SOLIDS** _____

% OIL** _____

% WATER:**

*N.O. - No oil present

**To be done on hazardous liquids only.

SAMPLING PROCEDURE:

*By: S. Bittner

Coliwassa _____

Thief _____

Grab: Top ____ Bottom ____

Scoop X

Waste Pile Sampler _____

*D = Driver

COMMENTS: _____

I CERTIFY THE THE HAULER ABOVE DELIVERED THE DESCRIBED WASTE TO THIS DISPOSAL FACILITY AND IT WAS ACCEPTABLE MATERIAL UNDER TERMS OF RWQCB ORDER NUMBER 86-199.

SIGNATURE OF TSDF OPERATOR X _____

I CERTIFY THAT THE ABOVE DESCRIBED WASTE WAS PROPERLY PLACED INTO THE DESIGNATED WASTE MANAGEMENT UNIT UNDER MY SUPERVISION AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT WAS WORN

SIGNATURE X _____

Please print or type. (Form designed for use on elite (12-pitch) typewriter)

Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CACOCC105773 — Manifest Document No. — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SHELL OIL COMPANY, PO BOX 6249
CARSON, CA 90749
GENERATING SITE
SHELL STATION
630 HIGH/OAKPORT
OAKLAND, CA 94601

4. Generator's Phone (213) 816-2037

A. State Manifest Document Number: 88354230

B. State Generator's ID: TAX ID NO. EXEMPT-010177

5. Transporter 1 Company Name: CROSBY & OVERTON INC — 6. US EPA ID Number: CAD981466064

C. State Transporter's ID

D. Transporter's Phone: 213/495-4011

7. Transporter 2 Company Name — 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
PETROLEUM WASTE INC
LOKERN RD
BUTTONWILLOW, CA 93206

10. US EPA ID Number: CAD982067526

G. State Facility's ID: CAD982067526

H. Facility's Phone: 805/589-4917

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. Waste soil contaminated with petroleum hydrocarbon "California Regulated Waste Only"	001	DT	1	Y	State 611 / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS-99.5%; WASTE OIL-.5%
TOTAL PETROLEUM HYDROCARBONS 300mg/kg
LEAD (TTLC) 44mg/kg; (STLC) 5.3mg/kg; BENZENE 121ppb

K. Handling Codes for Wastes Listed Above
a. 13 b. c. d.

15. Special Handling Instructions and Additional Information
AVOID CONTACT WITH EYES AND SKIN.
PWI# M-371
M-377

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: R.C. Hawthorne — Signature — ON BEHALF OF SHELL OIL CO. — Month Day Year: 04 25 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Reggie Barrera — Signature — Month Day Year: 04 25 89

Do Not Write Below This Line

8022 A (1/88)
8700—22
9-88) Previous editions are obsolete.

GREEN: HAULER RETAINS

GENERATOR — TRANSPORTER — FACILITY

IN CASE OF SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

162441

RCRA

X HAZARDOUS (Non-RCRA)

NON HAZARDOUS

DATE 4-28-89

Petroleum Waste, Inc.

P.O. Box 787 • Buttonwillow, CA 93206 • (805) 762-7372

LOAD # 1

WMU # 28 LOCATION 1-2/3

1:09PM 1-28-93 78680 lb GR

03:58 PM APR 28,89
78680 LB KEYED G
03:58 PM APR 28,89
32320 LB TARE
03:58 PM APR 28,89
46360 LB NET

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighed on Lokern Road 7 miles West of Buttonwillow

88354230 MANIFEST NO.

11675 bbls./lbs. QUANTITY

bbls./lbs. RATE

TRUCKING CO. COVARTON WASTE HAULER REGISTRATION NO.

GENERATOR SHELL OIL COMPANY OAKLAND CA LOCATION

PETROLEUM WASTE, INC.

Weighmaster by [signature] Deputy

Truck # 210

Truck Lic. No. 3K54491

Trailer Lic. No. 1UL7429

Trailer Lic. No.

I CERTIFY THAT THE DESCRIBED WASTE WAS HAULED BY ME TO THE DISPOSAL FACILITY NAMED ABOVE.

FOR WASHOUT: DRIVER'S INITIALS DRIVER'S SIGNATURE X [signature]

TYPE OF WASTE: ☐ SOIL w/HC ☐ ROTARY MUD ☐ TANK BOTTOMS ☐ SCRUBBER WASTE

STATE ID # CA EPA ID #

DESCRIPTION: SOLID X SLUDGE LIQUID WASTE ID #: M377

ON-SITE ID: ANALYST D MINER

TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO
pH (3)	7.67	X		HCVP(22)*	LO PPM	X		Absp(26)	PASS FAIL	X	
Vis.(1)	CK	X		Sul(8A)	POS (NEG)	X					
F.L.(21)	YES (NO)	X		Cya(9,A)	POS (NEG)	X					

COLOR BROWN

% SOLIDS*

% OIL**

% WATER:**

*N.O. - No oil present

**To be done on hazardous liquids only.

SAMPLING PROCEDURE:

*By: T CHANEY

Coliwassa

Thief

Grab: Top Bottom

Scoop 2

Waste Pile Sampler

*D = Driver

COMMENTS:

I CERTIFY THE THE HAULER ABOVE DELIVERED THE DESCRIBED WASTE TO THIS DISPOSAL FACILITY AND IT WAS ACCEPTABLE MATERIAL UNDER TERMS OF RWQCB ORDER NUMBER 86-199.

SIGNATURE OF TSDF OPERATOR X [signature]

I CERTIFY THAT THE ABOVE DESCRIBED WASTE WAS PROPERLY PLACED INTO THE DESIGNATED WASTE MANAGEMENT UNIT UNDER MY SUPERVISION AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT WAS WORN

SIGNATURE X

MCH 19871 WIC/LOC. NO. 204-5505-5801-ES /R. [redacted]3855

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. / Manifest Document No.	C A C 0 0 0 1 6 5 7 7 3 / 3 1 0 5 7 1
2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
A. State Manifest Document Number	88354252
3. Generator's Name and Mailing Address	SHELL OIL COMPANY, PO BOX 6249 CARSON, CA 90749
4. Generator's Phone	(213) 816-2037
GENERATING SITE	SHELL STATION 630 HIGH/OAKPORT OAKLAND, CA 94601
B. State Generator's ID	TAX ID NO. H Y H C 3 6 - 0 1 0 1 7 7
C. State Transporter's ID	
5. Transporter 1 Company Name / 6. US EPA ID Number	CROSBY & OVERTON INC / C A D 9 8 1 4 6 1 0 6 4
D. Transporter's Phone	213/495-4011
7. Transporter 2 Company Name / 8. US EPA ID Number	
E. State Transporter's ID	
F. Transporter's Phone	
9. Designated Facility Name and Site Address / 10. US EPA ID Number	PETROLEUM WASTE INC LOKERN RD BUTTONWILLOW, CA 93206 / C A D 9 8 0 6 7 5 2 7 6
G. State Facility's ID	CA 1980 75276
H. Facility's Phone	805/589-4912

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste soil contaminated with petroleum hydrocarbon "California Regulated Waste Only"	1	DT	16	Y	State 611
					EPA/Other
b.					State
					EPA/Other
c.					State
					EPA/Other
d.					State
					EPA/Other

J. Additional Descriptions for Materials Listed Above

SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS-99.5%; WASTE OIL-.5%
TOTAL PETROLEUM HYDROCARBONS 300mg/kg
LEAD(TTLC) 44mg/kg;(STLC) 4.3mg/kg; BERYLLIUM 121mg/kg

K. Handling Codes for Wastes Listed Above

a. 03 b. c. d.

15. Special Handling Instructions and Additional Information

AVOID CONTACT WITH EYES AND SKIN.
PWI# M-371
M 377

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: P.C. [illegible] Signature: [illegible] ON BEHALF OF SHELL OIL CO. Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] Signature: [illegible] Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] Signature: [illegible] Month Day Year 10/15/87

Do Not Write Below This Line

DHS 8022 A (1/88)

GENERATOR

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

88354252

162438

____RCRA

__X__HAZARDOUS (Non-RCRA)

_____NON HAZARDOUS

DATE 4-28-89

Petroleum Waste, Inc.

P.O. Box 787 • Buttonwillow, CA 93206 • (805) 762-7372

LOAD # 1

WMU # 2S LOCATION 4/2/3

1:10PM 4-28-89 73560 lb GR

03:29 PM APR 28,89
73560 LB KEYED G
03:29 PM APR 28,89
31560 LB TARE
03:29 PM APR 28,89
42000 LB NET

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighed on Lokern Road 7 miles West of Buttonwillow

SS 354252 (MANIFEST NO.) 1bbl (QUANTITY) bbls./lbs. _____ (RATE) bbls./lbs.

TRUCKING CO. C. OVERTON WASTE HAULER REGISTRATION NO. _____

GENERATOR Shell Oil (COMPANY) OAKLAND CC (LOCATION)

PETROLEUM WASTE, INC.

Weighmaster by _____ Deputy

Truck # 202

Truck Lic. No. 3K5495

Trailer Lic. No. 1IL7426

Trailer Lic. No. _____

I CERTIFY THAT THE DESCRIBED WASTE WAS HAULED BY ME TO THE DISPOSAL FACILITY NAMED ABOVE.

FOR WASHOUT: DRIVER'S INITIALS _____ DRIVER'S SIGNATURE X _____

TYPE OF WASTE: ☐ SOIL w/HC ☐ ROTARY MUD ☐ TANK BOTTOMS ☐ SCRUBBER WASTE

STATE ID # CA EPA ID # _____

DESCRIPTION: SOLID X SLUDGE _____ LIQUID _____ WASTE ID #: 77377

ON-SITE ID: ANALYST D Mixon

TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO
pH (3)	9.19	X		HCVP(22)*	<100	X		Absp(26)	PASS FAIL	X	
Vis.(1)	ot	o		Sul(8A)	POS (NEG)	X					
F.L.(21)	YES (NO)	~		Cya(9 4)	POS (NEG)	X					

COLOR Brown

% SOLIDS* _____

% OIL** _____

% WATER:** _____

*N.O. - No oil present

**To be done on hazardous liquids only.

SAMPLING PROCEDURE:

*By: T Chaney

Coliwassa _____

Thief _____

Grab: Top ____ Bottom ____

Scoop 2

Waste Pile Sampler ____

*D = Driver

COMMENTS: _____

I CERTIFY THE THE HAULER ABOVE DELIVERED THE DESCRIBED WASTE TO THIS DISPOSAL FACILITY AND IT WAS ACCEPTABLE MATERIAL UNDER TERMS OF RWQCB ORDER NUMBER 86-199.

SIGNATURE OF TSDF OPERATOR X Roger Barnes

I CERTIFY THAT THE ABOVE DESCRIBED WASTE WAS PROPERLY PLACED INTO THE DESIGNATED WASTE MANAGEMENT UNIT UNDER MY SUPERVISION AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT WAS WORN

*SIGNATURE X _____

Please print or type. (Form designed for use on elite (12-pitch typewriter). MCH10571 4252 Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C A C 0 0 0 1 6 5 7 7 3 Manifest Document No. 1 2 7 1 [redacted]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SHELL OIL COMPANY, PO BOX 6249
CARSON, CA 90749
4. Generator's Phone (213) 816-2037

GENERATING SITE
SHELL STATION
630 HIGH/ONPORT
OAKLAND, CA 94601

A. State Manifest Document Number 88354251
B. State Generator's ID TAX ID NO. E Y H C 3 6 - 0 1 0 1 7 7
C. State Transporter's ID 10192
D. Transporter's Phone 213/495-4011

5. Transporter 1 Company Name: CROSBY & OVERTON EMI
6. US EPA ID Number: C A D 9 8 1 4 6 1 0 6 4
E. State Transporter's ID
F. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
PETROLEUM WASTE INC
LOKERN RD
BUTTONWILLOW, CA 93206
10. US EPA ID Number: C A D 9 8 0 6 7 5 2 7 6
G. State Facility's ID C A D 9 8 0 6 7 5 2 7 6
H. Facility's Phone 805/589-4912

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste soil contaminated with petroleum hydrocarbon "California Regulated Waste Only"	001	DT	00018	Y	State 611 / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS-99.5%; WASTE OIL-.5%
TOTAL PETROLEUM HYDROCARBONS 300mg/kg
LEAD (TTLC) 44mg/kg; (STLC) 4.3mg/kg; BERYLLIUM 121ppm

K. Handling Codes for Wastes Listed Above
a. 03
b.
c.
d.

15. Special Handling Instructions and Additional Information
AVOID CONTACT WITH EYES AND SKIN.
PWI# ~~M-371~~ M377

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: K G NEWSOME
Signature: [signature] ON BEHALF OF SHELL OIL CO.
Month Day Year: 04 27 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JON FRASER/DAWSON
Signature: [signature]
Month Day Year: 04 28 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: ROSS BANNERT
Signature: [signature]
Month Day Year: 04 29 89

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

HS 8022 A (1/88)
PA 8700—22
Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

GREEN: HAULER RETAINS

162503

____RCRA

__X__HAZARDOUS (Non-RCRA)

____NON HAZARDOUS

DATE 4-29-89

Petroleum Waste, Inc.

P.O. Box 787 • Buttonwillow, CA 93206 • (805) 762-7372

LOAD # 1

WMU # 25 LOCATION 13-D-7

12:55PM 4-29-89 77700 LB GR

01:51 PM APR 29,89
32780 LB KEYED G
01:51 PM APR 29,89
31520 LB TARE
01:51 PM APR 29,89
46980 LB NET

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighed on Lokern Road 7 miles West of Buttonwillow

88354251 MANIFEST NO. | 46,080 QUANTITY bbls./lbs. | RATE bbls./lbs.

TRUCKING CO. C. Erickson WASTE HAULER REGISTRATION NO.

GENERATOR Shell Oil Corp COMPANY | Oakland Ca LOCATION

PETROLEUM WASTE, INC.

Weighmaster by [signature] Deputy

I CERTIFY THAT THE DESCRIBED WASTE WAS HAULED BY ME TO THE DISPOSAL FACILITY NAMED ABOVE.

FOR WASHOUT: DRIVER'S INITIALS _____ DRIVER'S SIGNATURE X [signature]

Truck # 214

Truck Lic. No. 3K54492

TYPE OF WASTE: ☐ SOIL w/HC ☐ ROTARY MUD ☐ TANK BOTTOMS ☐ SCRUBBER WASTE

STATE ID # All EPA ID # _____

Trailer Lic. No. 1UL7425

DESCRIPTION: SOLID X SLUDGE _____ LIQUID _____ WASTE ID #: A1377

Trailer Lic. No. _____

ON-SITE ID: ANALYST S. Bittner

TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO
pH (3)	8.61	X		HCVP(22)*	<1ppm	X		Absp(26)	PASS FAIL		
Vis.(1)	60	X		Sul(8A)	POS (NEG)	X					
F.L.(21)	YES (NO)	X		Cya(9 △)	POS (NEG)	X					

COLOR Brown

% SOLIDS** _____

% OIL** _____

% WATER:** _____

*N.O. - No oil present

**To be done on hazardous liquids only.

SAMPLING PROCEDURE:

*By: S. Bittner

Coliwassa _____

Thief _____

Grab: Top ____ Bottom ____

Scoop X

Waste Pile Sampler _____

*D = Driver

COMMENTS: _____

I CERTIFY THE THE HAULER ABOVE DELIVERED THE DESCRIBED WASTE TO THIS DISPOSAL FACILITY AND IT WAS ACCEPTABLE MATERIAL UNDER TERMS OF RWQCB ORDER NUMBER 86-199.

SIGNATURE OF TSDF OPERATOR X [signature]

I CERTIFY THAT THE ABOVE DESCRIBED WASTE WAS PROPERLY PLACED INTO THE DESIGNATED WASTE MANAGEMENT UNIT UNDER MY SUPERVISION AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT WAS WORN

SIGNATURE X _____

MCH 1057 [illegible] C/LOC. NO. 204-5508-5801-EB /R. NEWCOME 43855

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	CAC000165773
Manifest Document No.	105711
2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
A. State Manifest Document Number	88354250

3. Generator's Name and Mailing Address
SHELL OIL COMPANY, PO BOX 6249
CARSON, CA 90749

GENERATING SITE
SHELL STATION
630 HIGH/OAKPORT
OAKLAND, CA 94601

4. Generator's Phone (213) 816-2037

B. State Generator's ID TAX ID NO. HYB036-010177

5. Transporter 1 Company Name
CROSBY & OVERTON EMT

6. US EPA ID Number
CAD981461064

C. State Transporter's ID [illegible]

D. Transporter's Phone 213/495-4011

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
PETROLEUM WASTE INC
LOKERN RD
BUTTONWILLOW, CA 93206

10. US EPA ID Number
CAD982667276

G. State Facility's ID CAD982667276

H. Facility's Phone 805/589-4912

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste soil contaminated with petroleum hydrocarbon "California Regulated Waste Only"	001	DT	00018	Y	State 611
					EPA/Other
b.					State
					EPA/Other
c.					State
					EPA/Other
d.					State
					EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS-99.5%; WASTE OIL-.5%
TOTAL PETROLEUM HYDROCARBONS 300mg/kg
LEAD(TTLC) 44mg/kg; (STLC) 4.3mg/kg; BERYLLIUM 121ppm

K. Handling Codes for Wastes Listed Above
a. [illegible] b.
c. OC d.

15. Special Handling Instructions and Additional Information
AVOID CONTACT WITH EYES AND SKIN.
PWI# M-371
M377

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name D.G. NEWCOME | Signature [illegible] ON BEHALF OF SHELL OIL CO. | Month 11 Day 17 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name [illegible] | Signature [illegible] | Month 11 Day 17 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name Raquel Contreras | Signature [illegible] | Month 11 Day 21 Year 89

Do Not Write Below This Line

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

GREEN: HAULER RETAIN

GENERATOR

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

88354250

162437

___ RCRA

X HAZARDOUS (Non-RCRA)

___ NON HAZARDOUS

DATE 4-25-89

Petroleum Waste, Inc.

P.O. Box 787 • Buttonwillow, CA 93206 • (805) 762-7372

LOAD # 1

WMU # 28 LOCATION 13 1/3

2:00PM 4-20-89 68060 lb GR.

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighed on Lokern Road 7 miles West of Buttonwillow

03:42 PM APR 28,89
68060 LB KEYED G
03:42 PM APR 28,89
31840 LB TARE
03:42 PM APR 28,89
36220 LB NET

MANIFEST NO. 88354250 QUANTITY ___ bbls./lbs. RATE ___ bbls./lbs.

TRUCKING CO. C. OVERTON. WASTE HAULER REGISTRATION NO. ___

GENERATOR Shell oil COMPANY OAKLAND Ca. LOCATION

PETROLEUM WASTE, INC.
Weighmaster by ___ Deputy

I CERTIFY THAT THE DESCRIBED WASTE WAS HAULED BY ME TO THE DISPOSAL FACILITY NAMED ABOVE.

FOR WASHOUT: DRIVER'S INITIALS ___ DRIVER'S SIGNATURE X ___

Truck # 214

Truck Lic. No. 3K54492

TYPE OF WASTE: ☐ SOIL w/HC ☐ ROTARY MUD ☐ TANK BOTTOMS ☐ SCRUBBER WASTE

STATE ID # 611 EPA ID # ___

Trailer Lic. No. 1UL7428

DESCRIPTION: SOLID ✓ SLUDGE ___ LIQUID ___ WASTE ID #: M377

Trailer Lic. No. ___

ANALYST D Mixon

TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO
pH (3)	10.78	X		HCVP(22)*	<100	X		Absp(26)	(PASS) FAIL	X	
Vis.(1)	OK	✓		Sul(8A)	POS (NEG)	✓					
F.L.(21)	YES (NO)	X		Cya(9 A)	POS (NEG)	✓					

COLOR Brown

% SOLIDS** ___

% OIL** ___

% WATER:** ___

*N.O. - No oil present

**To be done on hazardous liquids only.

SAMPLING PROCEDURE:

*By: T Chaney

Coliwassa ___

Thief ___

Grab: Top ___ Bottom ___

Scoop ✓

Waste Pile Sampler ___

*D = Driver

COMMENTS: TH OK'D by ... 3:20 PM 4/28/89

I CERTIFY THE THE HAULER ABOVE DELIVERED THE DESCRIBED WASTE TO THIS DISPOSAL FACILITY AND IT WAS ACCEPTABLE MATERIAL UNDER TERMS OF RWQCB ORDER NUMBER 86-199.

SIGNATURE OF TSDF OPERATOR X ___

I CERTIFY THAT THE ABOVE DESCRIBED WASTE WAS PROPERLY PLACED INTO THE DESIGNATED WASTE MANAGEMENT UNIT UNDER MY SUPERVISION AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT WAS WORN

SIGNATURE X ___

162375

RCRA

X HAZARDOUS (Non-RCRA)

NON HAZARDOUS

DATE 04-27-89

Petroleum Waste, Inc.

P.O. Box 787 • Buttonwillow, CA 93206 (805) 762-7372

LOAD # 1

WMU # 26 LOCATION 13 D/3

2:57 PM 4-27-89 70160 LB GR

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture

Weighed on Lokern Road 7 miles West of Buttonwillow.

03:58 PM APR 27,89
70160 LB KEYED G
03:58 PM APR 27,89
30900 LB TARE
03:58 PM APR 27,89
39260 LB NET

88 354227 — MANIFEST NO.

39260 — QUANTITY

bbls/lbs

RATE bbls./lbs.

TRUCKING CO. Fuller Exc.

WASTE HAULER REGISTRATION NO.

GENERATOR Shell Oil Co — COMPANY

Oakland Ca — LOCATION

PETROLEUM WASTE, INC.

Weighmaster by _____ Deputy

I CERTIFY THAT THE DESCRIBED WASTE WAS HAULED BY ME TO THE DISPOSAL FACILITY NAMED ABOVE

FOR WASHOUT: DRIVER'S INITIALS _____ DRIVER'S SIGNATURE X Richard Wunder

Truck # 86

Truck Lic. No. 3F24696

TYPE OF WASTE: ☐ SOIL w/HC ☐ ROTARY MUD ☐ TANK BOTTOMS ☐ SCRUBBER WASTE

STATE ID # 611 EPA ID # _____

Trailer Lic. No. VB8367

Trailer Lic. No. _____

DESCRIPTION: SOLID Y SLUDGE _____ LIQUID _____

WASTE ID #: M-371

ON-SITE: ANALYST G. Romero B. Stuck

TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO
*pH (3)		Y		HCVP(22)*				Absp(26)	PASS FAIL		
Vis (1)	O.K.	X		Sul(8A)	POS NEG						
F.L (21)	YES (NO)	X		Cya(9)	POS NEG						

COLOR Brn

% SOLIDS* _____

% OIL** _____

% WATER:** _____

*N.O. - No oil present

**To be done on hazardous liquids only.

SAMPLING PROCEDURE:

*By: B. Stuck

Coliwassa _____

Thief _____

Grab: Top ___ Bottom ___

Scoop X

Waste Pile Sampler _____

*D = Driver

COMMENTS: _____

I CERTIFY THE THE HAULER ABOVE DELIVERED THE DESCRIBED WASTE TO THIS DISPOSAL FACILITY AND IT WAS ACCEPTABLE MATERIAL UNDER TERMS OF RWQCB ORDER NUMBER 86-199.

SIGNATURE OF TSDF OPERATOR X Gary Romero

I CERTIFY THAT THE ABOVE DESCRIBED WASTE WAS PROPERLY PLACED INTO THE DESIGNATED WASTE MANAGEMENT UNIT UNDER MY SUPERVISION AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT WAS WORN

SIGNATURE X Tim Hixon Tim Hixon

162374

____RCRA

X HAZARDOUS (Non-RCRA)

____NON HAZARDOUS

DATE 04-27-89

Petroleum Waste, Inc.

P.O. Box 787 • Buttonwillow, CA 93206 • (805) 762-7372

LOAD # 1

WMU # 28 LOCATION 13 0/3

2:53PM 4-27-89 67360 lb GR

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture

Weighed on Lokern Road 7 miles West of Buttonwillow.

03:44 PM APR 27,89
67360 LB KEYED G
03:44 PM APR 27,89
28840 LB TARE
03:45 PM APR 27,89
38520 LB NET

8835-4226 — MANIFEST NO.

38520 — QUANTITY bbls. /lbs.

____ RATE bbls. /lbs.

TRUCKING CO Fuller Excavating WASTE HAULER REGISTRATION NO. ____

GENERATOR Shell Oil Co. — COMPANY — Oakland, Ca — LOCATION

PETROLEUM WASTE, INC.

Weighmaster by ____ Deputy

I CERTIFY THAT THE DESCRIBED WASTE WAS HAULED BY ME TO THE DISPOSAL FACILITY NAMED ABOVE.

FOR WASHOUT: DRIVER'S INITIALS ____ DRIVER'S SIGNATURE X ____

Truck # 07

Truck Lic. No. 3F70815

TYPE OF WASTE: ☐ SOIL w/HC ☐ ROTARY MUD ☐ TANK BOTTOMS ☐ SCRUBBER WASTE

STATE ID # 611 EPA ID # ____

Trailer Lic. No. 10B6474

DESCRIPTION: SOLID X SLUDGE ____ LIQUID ____

WASTE ID #: M 321

Trailer Lic. No. ____

ANALYST B. Stuck

TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO
pH (3)	9.06	X		HCVP(22)*	Cloudy			Absp(26)	PASS FAIL	NA	
Vis (1)	O.K.	X		Sul(8A)	POS NEG	X					
F.I. (21)	YES NO	X		Cya(9A)	POS NEG	X					

COLOR Brn

% SOLIDS* ____

% OIL** ____

% WATER:** ____

*N.O. - No oil present

**To be done on hazardous liquids only.

SAMPLING PROCEDURE:

*By: B. Stuck

Coliwassa ____

Thief ____

Grab: Top ____ Bottom ____

Scoop X

Waste Pile Sampler ____

*D = Driver

COMMENTS: ____

I CERTIFY THE THE HAULER ABOVE DELIVERED THE DESCRIBED WASTE TO THIS DISPOSAL FACILITY AND IT WAS ACCEPTABLE MATERIAL UNDER TERMS OF RWQCB ORDER NUMBER 86-199.

SIGNATURE OF TSDF OPERATOR X ____

I CERTIFY THAT THE ABOVE DESCRIBED WASTE WAS PROPERLY PLACED INTO THE DESIGNATED WASTE MANAGEMENT UNIT UNDER MY SUPERVISION AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT WAS WORN.

SIGNATURE X ____

162382

____ RCRA

X HAZARDOUS (Non RCRA)

____ NON HAZARDOUS

DATE 4.27.89

Petroleum Waste, Inc.

P.O. Box 787 • Buttonwillow, CA 93206 • (805) 762-7372

LOAD # 1

WMU # 28 LOCATION 13 D 5

1:01 PM 4-27-89 74360 lb GR

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighed on Lokern Road 7 miles West of Buttonwillow

05:41 PM APR 27,89
74360 LB KEYED G
05:41 PM APR 27,89
32700 LB TARE
05:41 PM APR 27,89
41660 LB NET

88354/2,4 11,660 bbls /lbs ____ bbls /lbs

MANIFEST NO QUANTITY RATE

TRUCKING CO. Kovell Trk WASTE HAULER REGISTRATION NO

GENERATOR Shell Oil Co. Carson Cal.

COMPANY LOCATION

PETROLEUM WASTE, INC.

Weighmaster by D. Rowe Deputy

I CERTIFY THAT THE DESCRIBED WASTE WAS HAULED BY ME TO THE DISPOSAL FACILITY NAMED ABOVE.

Truck # 524

FOR WASHOUT: DRIVER'S INITIALS ____ DRIVER'S SIGNATURE X G. D. Middleton

Truck Lic. No. APH8924

TYPE OF WASTE: ☐ SOIL w/HC ☐ ROTARY MUD ☐ TANK BOTTOMS ☐ SCRUBBER WASTE

STATE ID # 611 EPA ID #

Trailer Lic. No. CTC5413

DESCRIPTION: SOLID X SLUDGE ____ LIQUID ____

WASTE ID #: M 377

Trailer Lic. No.

ON SITE ID: ANALYST B. Stock

TEST	RESULT	YES	NO	TEST	RESULT	YES	NO	TEST	RESULT	YES	NO
pH (5)	7.90	X		HCVP(22)	<100	X		Asb(26)	PASS FAIL		X
Vis (1)	OK	X		Sul(8A)	POS (NEG)	X					
FI (21)	YES (NO)	X		Cya(9)	POS (NEG)	X					

COLOR Brn

% SOLIDS*

% OIL**

% WATER**

*N.O. - No oil present

**To be done on hazardous liquids only.

SAMPLING PROCEDURE

*By B Stock

Coliwassa ____

Thief ____

Grab Top ____ Bottom ____

Scoop X

Waste Pile Sampler ____

*D = Driver

COMMENTS: Bags of Absorbent in Rear of Trailer (Tarp)

I CERTIFY THE THE HAULER ABOVE DELIVERED THE DESCRIBED WASTE TO THIS DISPOSAL FACILITY AND IT WAS ACCEPTABLE MATERIAL UNDER TERMS OF RWQCB ORDER NUMBER 86-199.

SIGNATURE OF TSDF OPERATOR X [signature]

I CERTIFY THAT THE ABOVE DESCRIBED WASTE WAS PROPERLY PLACED INTO THE DESIGNATED WASTE MANAGEMENT UNIT UNDER MY SUPERVISION AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT WAS WORN.

SIGNATURE X [signature]

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible] Manifest Document No. [illegible] | 2. Page 1 of [illegible] | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address [illegible]

A. State Manifest Document Number 8835[illegible]

B. State Generator's ID [illegible]

4. Generator's Phone [illegible]

5. Transporter 1 Company Name [illegible] 6. US EPA ID Number [illegible]

C. State Transporter's ID [illegible]

D. Transporter's Phone [illegible]

7. Transporter 2 Company Name [illegible] 8. US EPA ID Number [illegible]

E. State Transporter's ID [illegible]

F. Transporter's Phone [illegible]

9. Designated Facility Name and Site Address 10. US EPA ID Number [illegible]

G. State Facility's ID [illegible]

H. Facility's Phone [illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. [illegible] soil contaminated with petroleum hydrocarbon "California Regulated Waste Only"	[illegible]	[illegible]	[illegible]	[illegible]	State [illegible] EPA/Other [illegible]
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above [illegible]

K. Handling Codes for Wastes Listed Above [illegible]

15. Special Handling Instructions and Additional Information [illegible]

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name [illegible] | Signature [illegible] ON BEHALF OF [illegible] | Month Day Year [illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name [illegible] | Signature [illegible] | Month Day Year [illegible]

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name [illegible] | Signature [illegible] | Month Day Year [illegible]

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

GREEN: HAULER RETAINS

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

162581

__ RCRA

✓ HAZARDOUS (Non RCRA)

__ NON HAZARDOUS

DATE 4-27-89

Petroleum Waste, Inc.

P.O. Box 787 • Buttonwillow, CA 93206 • (805) 762-7372

LOAD # 1

WMU # 3/6 LOCATION L.D.3

3:55PM 4-27 0 73600 LB GR

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture

Weighed on Lokern Road 7 miles West of Buttonwillow.

05:46 PM APR 27,89
73600 LB KEYED G
05:46 PM APR 27,89
32280 LB TARE
05:46 PM APR 27,89
41320 LB NET

PETROLEUM WASTE, INC.

Weighmaster by S. Romero Deputy

MANIFEST NO 88354254 QUANTITY 41.320 bbls./lbs. RATE ______ bbls./lbs.

TRUCKING CO Casey Bearrod WASTE HAULER REGISTRATION NO. ______

GENERATOR Shell Oil (Shell Station) COMPANY Oakland LOCATION

I CERTIFY THAT THE DESCRIBED WASTE WAS HAULED BY ME TO THE DISPOSAL FACILITY NAMED ABOVE.

FOR WASHOUT: DRIVER'S INITIALS ______ DRIVER'S SIGNATURE X Larry Stewart

TYPE OF WASTE: ☐ SOIL w/HC ☐ ROTARY MUD ☐ TANK BOTTOMS ☐ SCRUBBER WASTE

STATE ID # 611 EPA ID # ______

DESCRIPTION SOLID X SLUDGE ______ LIQUID ______ WASTE ID #: M-371

Truck # 106

Truck Lic. No. BP65004

Trailer Lic. No. DT27210

Trailer Lic. No. ______

ON SITE ID: ANALYST B. Stuck

TEST	RESULT	YES	NO	TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO
pH (3)	8.0	X		HCVP(22)*	<100	X		Absp(26)	(PASS) FAIL	X	
Vis (1)	OK	X		Sul(8A)	POS (NEG)	X					
FL (21)	YES (NO)	X		Cya(9A)	POS (NEG)	X					

COLOR Brown

% SOLIDS* ______

% OIL** ______

% WATER:** ______

*N.D. - No oil present

**To be done on hazardous liquids only.

SAMPLING PROCEDURE:

*By: B. Stuck

Coliwassa ______

Thief ______

Grab: Top ____ Bottom ____

Scoop X

Waste Pile Sampler ______

*D = Driver

COMMENTS: Some Bags of Absorbent in Rear of trailer

I CERTIFY THE THE HAULER ABOVE DELIVERED THE DESCRIBED WASTE TO THIS DISPOSAL FACILITY AND IT WAS ACCEPTABLE MATERIAL UNDER TERMS OF RWQCB ORDER NUMBER 86-199.

SIGNATURE OF TSDF OPERATOR X Brenda Stuck

I CERTIFY THAT THE ABOVE DESCRIBED WASTE WAS PROPERLY PLACED INTO THE DESIGNATED WASTE MANAGEMENT UNIT UNDER MY SUPERVISION AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT WAS WORN

SIGNATURE X [illegible signature]

Please print or type. (Form designed for use on elite (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1a. Generator's US EPA ID No. [redacted] Manifest Document No. [redacted] 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: SHELL OIL COMPANY, PO BOX 4848, CARSON, CA 90749 — GENERATING SITE: SHELL STATION, 630 HEGENBERGER, OAKLAND, CA 94601

4. Generator's Phone: 213-816-2037

5. Transporter 1 Company Name: CROSBY & OVERTON INC — 6. US EPA ID Number: CAD981463964

7. Transporter 2 Company Name: [illegible] — 8. US EPA ID Number: [illegible]

9. Designated Facility Name and Site Address: PETROLEUM WASTE INC, 1000 E ID, WILMINGTON, CA 90744 — 10. US EPA ID Number: CAD981437716

A. State Manifest Document Number: 88354254

B. State Generator's ID: [illegible]

C. State Transporter's ID: [illegible]

D. Transporter's Phone: 213/495-4011

E. State Transporter's ID: [illegible]

F. Transporter's Phone: [illegible]

G. State Facility's ID: [illegible]

H. Facility's Phone: [illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	Unit Wt/Vol	14. Waste No.
a. Waste oil contaminated with petroleum hydrocarbon "California Regulated Waste Only"	001	DT	000018	Y	EPA/Other: 01 State:
b.					EPA/Other: State:
c.					EPA/Other: State:
d.					EPA/Other: State:

15. Special Handling Instructions and Additional Information: AVOID CONTACT WITH EYES AND SKIN. PH# 924-371

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: R.G. NAKAMA — Signature: [signature] — ON BEHALF OF SHELL OIL CO. — Month 04 Day 17 Year 89

17. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month — Day — Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] — Signature: [signature] — Month 04 Day 17 Year 89

19. Discrepancy Indication Space:

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: [illegible] — Signature: [signature] — Month 04 Day 19 Year 89

DHS 8022A (1/88)
EPA 8700-22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

GREEN: HAULER RETAINS

TRANSPORTER

FACILITY

IN CASE OF AN EMERGENCY OR SPILL CALL CHEMTREC INTERNATIONAL RESPONSE CENTER (800) 424-9300 WITHIN CALIFORNIA CALL (800) 852-7550

GENERATOR

162365

_____ RCRA

X HAZARDOUS (Non-RCRA)

_____ NON HAZARDOUS

DATE 04-27-89

Petroleum Waste, Inc.

P.O. Box 787 • Buttonwillow, CA 93206 • (805) 762-7372

LOAD # 1

WMU # 2S LOCATION 13

2:05PM 4-27-89 70020 16 GR

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighed on Lokern Road 7 miles West of Buttonwillow.

02:57 PM APR 27,89
70020 LB KEYED G
02:57 PM APR 27,89
35380 LB TARE
02:57 PM APR 27,89
48520 LB NET

OC 35-1252 — MANIFEST NO.

40.00 — QUANTITY bbls. /lbs.

RATE bbls./lbs.

TRUCKING CO. Bodine Trkg.

WASTE HAULER REGISTRATION NO.

GENERATOR Shell Oil Co. — COMPANY

Oakland Ca — LOCATION

PETROLEUM WASTE, INC.

Weighmaster by _____ Deputy

Truck # B-62

Truck Lic. No. 3S-1847

Trailer Lic. No. 8x12

Trailer Lic. No.

I CERTIFY THAT THE DESCRIBED WASTE WAS HAULED BY ME TO THE DISPOSAL FACILITY NAMED ABOVE.

FOR WASHOUT: DRIVER'S INITIALS _____ DRIVER'S SIGNATURE X _____

TYPE OF WASTE: ☐ SOIL w/HC ☐ ROTARY MUD ☑ TANK BOTTOMS ☑ SCRUBBER WASTE

STATE ID # _____ EPA ID # _____

DESCRIPTION: SOLID X SLUDGE _____ LIQUID _____ WASTE ID #: 111371

WASTE ID: ANALYST B Stuck

TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO
pH (3)	6.37	X		HCVP(22)*	<10 ppm	✓		Absp(26)	PASS FAIL	X	
Vis.(1)	OK			Sul(8A)	POS (NEG)	✓					
F.L.(21)	YES (NO)			Cya(9A)	POS (NEG)	✓					

COLOR Brn

% SOLIDS* _____

% OIL** _____

% WATER:** _____

*N.O. - No oil present

**To be done on hazardous liquids only.

SAMPLING PROCEDURE:

*By: B. Stuck

Coliwassa _____

Thief _____

Grab: Top ___ Bottom ___

Scoop X

Waste Pile Sampler _____

*D = Driver

COMMENTS: _____

I CERTIFY THE THE HAULER ABOVE DELIVERED THE DESCRIBED WASTE TO THIS DISPOSAL FACILITY AND IT WAS ACCEPTABLE MATERIAL UNDER TERMS OF RWQCB ORDER NUMBER 86-199.

SIGNATURE OF TSDF OPERATOR X _____

I CERTIFY THAT THE ABOVE DESCRIBED WASTE WAS PROPERLY PLACED INTO THE DESIGNATED WASTE MANAGEMENT UNIT UNDER MY SUPERVISION AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT WAS WORN

SIGNATURE X _____

162353

___ RCRA

X HAZARDOUS (Non-RCRA)

___ NON HAZARDOUS

DATE 4-27-89

Petroleum Waste, Inc.

P.O. Box 787 • Buttonwillow, CA 93206 • (805) 762-7372

LOAD # 1

WMU # 1028 LOCATION 13 1/2

02PM 4-27-89 71440 LB GR

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighed on Lokern Road 7 miles West of Buttonwillow.

02:23 PM APR 27,89
71440 LB KEYED G
02:23 PM APR 27,89
28640 LB TARE
02:23 PM APR 27,89
42800 LB NET

8235/255 MANIFEST NO.

17.00 bbls./lbs. QUANTITY

bbls./lbs. RATE

TRUCKING CO. Rodine trk

WASTE HAULER REGISTRATION NO.

GENERATOR Shell Oil Co. COMPANY Coalson, Ca. LOCATION

PETROLEUM WASTE, INC.

Weighmaster by Deputy

I CERTIFY THAT THE DESCRIBED WASTE WAS HAULED BY ME TO THE DISPOSAL FACILITY NAMED ABOVE

FOR WASHOUT: DRIVER'S INITIALS ___ DRIVER'S SIGNATURE X Daniel J Parker

Truck # B6

Truck Lic. No. 81682Y

TYPE OF WASTE: ☐ SOIL w/HC ☐ ROTARY MUD ☐ TANK BOTTOMS ☐ SCRUBBER WASTE

STATE ID # 611 EPA ID #

Trailer Lic. No. XU1980

DESCRIPTION: ~~SOLID~~ SLUDGE ___ LIQUID ___ WASTE ID #: M-377

Trailer Lic. No. ___

ON SITE ID: ANALYST H. Cuevas

TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO
pH (3)	8.4/4	X		HCVP(22)*	L 100	X		Absp(26)	PASS FAIL	X	
Vis (1)	Oil	X		Sul(8A)	POS NEG	X					
F.L.(21)	YES NO	X		Cya(9	POS NEG	X					

COLOR Gray

% SOLIDS*

% OIL**

% WATER:**

*N.O. - No oil present

**To be done on hazardous liquids only.

SAMPLING PROCEDURE:

*By: T. Gurney

Coliwassa ___

Thief ___

Grab: Top ___ Bottom ___

Scoop X

Waste Pile Sampler ___

*D = Driver

COMMENTS: Truck

I CERTIFY THE THE HAULER ABOVE DELIVERED THE DESCRIBED WASTE TO THIS DISPOSAL FACILITY AND IT WAS ACCEPTABLE MATERIAL UNDER TERMS OF RWQCB ORDER NUMBER 86-199.

SIGNATURE OF TSDF OPERATOR X

I CERTIFY THAT THE ABOVE DESCRIBED WASTE WAS PROPERLY PLACED INTO THE DESIGNATED WASTE MANAGEMENT UNIT UNDER MY SUPERVISION AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT WAS WORN

SIGNATURE X

88354124

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SHELL OIL COMPANY, PO BOX 5248, SHELL STATION
CARSON, CA 90749
4. Generator's Phone (213) 816-2017

State Manifest Document Number
A. State Generator's ID
B. State Transporter's ID
C. Transporter's Phone

5. Transporter 1 Company Name: CROSBY & OVERTON INC
6. US EPA ID Number: CAD981461064

7. Transporter 2 Company Name
8. US EPA ID Number
D. State Transporter's ID
E. Transporter's Phone

9. Designated Facility Name and Site Address
PETROLEUM WASTE, INC.
LOKERT RD.
BAKERSFIELD, CA 93206
10. US EPA ID Number: CAD980675276
G. State Facility's ID
H. Facility's Phone: 805/589-4912

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste soil contaminated with petroleum hydrocarbon "California Regulated Waste Only"	001	DT		T	State: EPA/Other:
b.					State: EPA/Other:
c.					State: EPA/Other:
d.					State: EPA/Other:

J. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS 35-1000
TOTAL PETROLEUM HYDROCARBONS 1900mg/kg
LEAD (TTLC) 1.8mg/kg (SOLUBLE) 0.12mg/kg

K. Handling Codes for Wastes Listed Above
a. D79
b.
c.
d.

15. Special Handling Instructions and Additional Information
AVOID CONTACT WITH EYES AND SKIN.
PWI APPROVAL #G-725

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: R.C. Mathews
Signature: [signature] ON BEHALF OF SHELL OIL CO.
Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

18. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 18.
Printed/Typed Name: Roger Lokert
Signature: [signature]
Month Day Year: 05/15/8

Do Not Write Below This Line

DHS 8022 A (1/88)
EPA 8700-22
(Rev. 9-88) Previous editions are obsolete.

GREEN: HAULER RETAINS

Crosby

GENERATOR
TRANSPORTER
FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER (1-800-424-8802) (WITHIN CALIFORNIA, CALL 1-800-852-7550)

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

MIC/LOC. NO. 204-5508-5801-EB /R. NEWSOME

Department of Health Service
Toxic Substances Control Divisio
Sacramento, Californi

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC001637731 | Manifest Document No. 16571 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SHELL OIL COMPANY, PO BOX 6249
CARSON, CA 90749

GEOGRAPHIC SITE
SHELL STATION
630 HIGH/OAKPORT
OAKLAND, CA 94601

4. Generator's Phone (213) 816-2037

A. State Manifest Document Number 8835425

B. State Generator's ID TAX ID NO. HYK036-010177

5. Transporter 1 Company Name
CROSBY & OVERTON INC

6. US EPA ID Number CAD981461064

C. State Transporter's ID

D. Transporter's Phone 213/495-4011

7. Transporter 2 Company Name
Bodine Trucking

8. US EPA ID Number CAT080013784

E. State Transporter's ID

F. Transporter's Phone 408-262-7726

9. Designated Facility Name and Site Address
PETROLEUM WASTE INC
LOKEEN RD
BUTTONWILLOW, CA 93206

10. US EPA ID Number CAD980675276

G. State Facility's ID CA980675276

H. Facility's Phone 805/589-4912

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. Waste soil contaminated with petroleum hydrocarbon "California Regulated Waste Only"	001	DT	73000	Y	State 611
					EPA/Other
b.					State
					EPA/Other
c.					State
					EPA/Other
d.					State
					EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS-99.5%; WASTE OIL-.5%
TOTAL PETROLEUM HYDROCARBONS 300mg/kg
LEAD (TTLC) 44mg/kg; (STLC) 4.3mg/kg; BERYLLIUM 121ppm

K. Handling Codes for Wastes Listed Above
a. 02 b. c. d.

15. Special Handling Instructions and Additional Information
AVOID CONTACT WITH EYES AND SKIN.
PWI# M-371

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: R G Newsome | Signature: [signature] ON BEHALF OF SHELL OIL CO. | Month 04 Day 27 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: — | Signature: — | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: John Crabtree | Signature: [signature] | Month 04 Day 27 Year 89

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: George Romero | Signature: [signature] | Month 04 Day 27 Year 89

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

GREEN: HAULER RETAINS

2-B/O NO. MOH-73809 REL NO.MOH-10571 DS-B/O NO. MOH-8561 REL NO.MOH-10571

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-9
Please print or type. (Form designed for use on elite

MTC/LDC. NO. 204-5508-5801-EB /R. MENSCHE

Department of Health Services
Toxic Substances Control Division
Sacramento, California

88354255

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C A C 0 0 1 6 5 7 7 3 1 0 5 7 1
Manifest Document No.
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SHELL OIL COMPANY, PO BOX 6249
CARSON, CA 90749

GENERATING SITE
SHELL STATION
630 HIGH/OAKPORT
OAKLAND, CA 94601

4. Generator's Phone (213) 816-2037

A. State Manifest Document Number 88354255

B. State Generator's ID TAX ID NO. 94X036-010177

5. Transporter 1 Company Name
CROSBY & OVERTON INC

6. US EPA ID Number
C A D 9 8 1 4 6 1 0 6 4

C. State Transporter's ID

D. Transporter's Phone 213/435-4011

7. Transporter 2 Company Name
Bodine Trucking

8. US EPA ID Number
C A T 0 4 0 0 3 2 8 0 8

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
PETROLEUM WASTE INC
LOKERN RD
BUTTONWILLOW, CA 93206

10. US EPA ID Number
C A D 9 8 0 6 7 5 2 7 6

G. State Facility's ID CAD980675276

H. Facility's Phone 762-7341 805-589-4912

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. Waste soil contaminated with petroleum hydrocarbon "California Regulated Waste Only"	001	DT	00018	Y	State 611
					EPA/Other
b.					State
					EPA/Other
c.					State
					EPA/Other
d.					State
					EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS-99.5%; WASTE OIL-.5%
TOTAL PETROLEUM HYDROCARBONS 300mg/kg
LEAD (TTLC) 44mg/kg; (STLC) 4.3mg/kg; BERYLLIUM 121ppm

K. Handling Codes for Wastes Listed Above
a. 04
b.
c.
d.

15. Special Handling Instructions and Additional Information
AVOID CONTACT WITH EYES AND SKIN.
PNL# M-371 M-377 M.C. 4/27/89

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature		Month	Day	Year
R G Nawsoma	R G Nawsoma	ON BEHALF OF SHELL OIL CO.	04	27	89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Daniel J. Parks	Daniel J. Parks	04	27	89

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year
V PAZO		5	2	89

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

GREEN: HAULER RETAINS

GENERATOR

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

88354255

163264

___ RCRA

X HAZARDOUS (Non RCRA)

___ NON HAZARDOUS

DATE 5-17-89

Petroleum Waste, Inc.

P.O. Box 787 • Buttonwillow, CA 93206 • (805) 762-7372

LOAD # 1

WMU # 16 LOCATION ___

7:53AM 5-17-89 70860 LB GR

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture

Weighed on Lokern Road 7 miles West of Buttonwillow.

08:40 AM MAY 17,89
70860 LB KEYED G
08:40 AM MAY 17,89
32800 LB TARE
08:40 AM MAY 17,89
38060 LB NET

88354724 — MANIFEST NO.
38,060 — QUANTITY bbls./lbs.
___ bbls./lbs. RATE

TRUCKING CO C. Collis WASTE HAULER REGISTRATION NO. ___

GENERATOR Shell Oil (COMPANY) Carson Ca. (LOCATION)

PETROLEUM WASTE, INC.
Weighmaster by ___ Deputy

I CERTIFY THAT THE DESCRIBED WASTE WAS HAULED BY ME TO THE DISPOSAL FACILITY NAMED ABOVE.

FOR WASHOUT: DRIVER'S INITIALS ___ DRIVER'S SIGNATURE X [signature]

Truck # C.3

Truck Lic. No. 3D40501

TYPE OF WASTE: ☐ SOIL w/HC ☐ ROTARY MUD ☐ TANK BOTTOMS ☐ SCRUBBER WASTE

STATE ID # 611 EPA ID # ___

Trailer Lic. No. CT-9t223

Trailer Lic. No. ___

DESCRIPTION: SOLID X SLUDGE ___ LIQUID ___ WASTE ID # C 725

ON-SITE ANALYST D. Minar

TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO	TEST #	RESULT	YES	NO
pH (3)	7.77	X		HCVP(22)	[illegible]	X		Absp(26)	PASS FAIL	X	
Vis (1)	ok	X		Sul(8A)	POS NEG	/					
FL (21)	YES NO	/		Cya(9)	POS NEG	X					

COLOR Brown

% SOLIDS* ___

% OIL** ___

% WATER** ___

*N.O. - No oil present

**To be done on hazardous liquids only.

SAMPLING PROCEDURE:

*By: D. Minar

Coliwassa ___

Thief ___

Grab: Top ___ Bottom ___

Scoop X

Waste Pile Sampler ___

*D = Driver

COMMENTS: ___

I CERTIFY THE THE HAULER ABOVE DELIVERED THE DESCRIBED WASTE TO THIS DISPOSAL FACILITY AND IT WAS ACCEPTABLE MATERIAL UNDER TERMS OF RWQCB ORDER NUMBER 86-199.

SIGNATURE OF TSDF OPERATOR X [signature]

I CERTIFY THAT THE ABOVE DESCRIBED WASTE WAS PROPERLY PLACED INTO THE DESIGNATED WASTE MANAGEMENT UNIT UNDER MY SUPERVISION AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT WAS WORN

SIGNATURE X [signature]

ROBERT H. LEE & ASSOCIATES, INC.
900 Larkspur Landing Circle
Suite 125
LARKSPUR, CALIFORNIA 94939

(415) 461-8890

LETTER OF TRANSMITTAL

DATE	JOB NO.
6/23/89	6392
ATTENTION: RAFAT SHAHID	
RE: 6/28/89	
SHELL STATION	
630 HIGH ST.	
OAKLAND, CA	

ALAMEDA COUNTY
DEPT. OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS

TO ALAMEDA CO HEALTH - HAZARDOUS MATERIALS
80 SWAN WAY RM 200
OAKLAND, CA 94621

WE ARE SENDING YOU ☑ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
1			CHECK COVERING ADDITIONAL FEES, AS REQUESTED IN YOUR LETTER DATED 6/9/89

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☑ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☑ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO _____

SIGNED: G. LOSSING

PRODUCT 240-2 NEBS Inc. Groton, Mass. 01471

If enclosures are not as noted, kindly notify us at once.

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

June 9, 1989

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

Shell Oil
P.O. Box 4023
Concord, CA 94520

Attn: Mr. Raymond Newsome

Re: 630 High Street, Oakland

Dear Mr. Newsome:

The deposit submitted to Alameda County Environmental Health, Hazardous Materials Program for the above noted site has been depleted. An additional deposit of three hundred thirty six dollars ($336.00) is required by this Office to continue our evaluation of the work performed by the contracted Environmental Consultants to further assess this site's degree of subsurface soils and ground water contamination.

If you have any questions concerning the contents of this letter or the status of this case please contact Hazardous Materials Specialist, Ariu Levi. Mr. Levi can be reached at 415-271-4320.

Sincerely,

Rafat Shahid, Chief
Hazardous Materials Program

cc:
Gil Jensen, Alameda County District Attorney, Consumer and Environmental Protection

U552804
U505531-Add
6-28-89
$336.00

Shell Oil Company

EAST BAY
MARKETING DISTRICT

P.O. Box 4023
Concord, CA 94524
(415) 676-1414

June 15, 1989

Mr. Ariu Levi
Alameda County Department
of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

SUBJECT: SHELL STATION
630 HIGH STREET
OAKLAND, CA

Dear Mr. Levi:

I received your June 1, 1989 letter raising several questions about the site. Responses to those questions follow:

Further boring and sampling will be done in the areas of the former waste oil tank. Testing for TOG and VOC's will be performed to confirm that the lateral and vertical extent of the contamination was removed. This will be addressed in upcoming work at the site.

All soil stockpiles were disposed of offsite at a Class I disposal facility by a licensed hazardous waste hauler. Ray Newsome, who handled this disposal is on vacation this week. When he returns, I will obtain copies of the manifests and forward them to you.

Regarding the sample preparation for the lead analysis, I have attached a copy of a letter from Converse which clarifies the sampling and preparation methods for all site assessment work. I will again have to get clarification from Ray Newsome when he returns on the methods used in February's work.

If you have any questions, please contact me at (415) 676-1414, Ext. 127.

Very truly yours,

Diane M. Lundquist/pm

Diane M. Lundquist
District Environmental Engineer

Attachment

cc: Gil Jensen, Alameda County District Attorney's Office
Alan Whitman, Oakland Police Department
Scott Hugenberger, RWQCB
Howard Hatayama, DOHS

JM916603

Converse Environmental Consultants California

55 Hawthorne Street, Suite 500
San Francisco, California 94105

Telephone 415 543-4200

June 9, 1989
88-44-369-01-093

Ms. Leslie Ferguson
Water Resource Control Engineer
San Francisco Bay Regional Water Quality Control Board
1111 Jackson Street, Sixth Floor
Oakland, California 94607

Subject: Work Plan Certification
630 High Street
Oakland, California

Dear Ms. Ferguson:

This letter is to attest to the fact that the Site Investigation and Remediation Work Plan for this site prepared by Converse Environmental Consultants California (CECC) (03/20/89) was submitted by the plan author, Douglas W. Charlton, California Registered Geologist # 4110. The signature block on the transmittal letter with the plan read "Douglas W. Charlton, V.P."

Future documents will be signed by Dr. Charlton, or other California Registered Geologist, showing registration number in the signature block, and properly stamped.

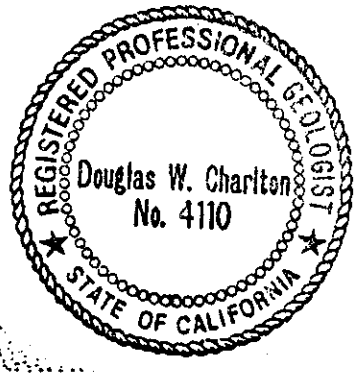
As a further point of clarification, please be advised that all analysis under the referenced Work Plan and its modifications will follow the RWQCB requirements 10/06/88 as shown in the attached list.

WP_CERT

Please incorporate this letter as an addendum to the Shell Work Plan for 630 High Street (03/20/89), to confirm compliance with registration and analytical requirements.

Very truly yours,

Converse Environmental Consultants California



Douglas W. Charlton
California Registered Geologist # 4110

DWC:fs

Enclosure

cc: Ms. Diane Lundquist - Shell Oil Company - (w/encl.)
Mr. Rafat Shahid - Alameda County - (w/encl.)
Ms. Robin Breuer - CECC - (w/encl.)

TABLE 3
REVISED 6 OCTOBER 1988

RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND TANK LEAKS

HYDROCARBON LEAK	SOIL ANALYSIS			WATER ANALYSIS		
		Prep	Analysis		Prep	Analysis
Unknown Fuel	TPH G	5030	8015	TPH G	5030	8015
	TPH D	3550	8015	TPH D	3510	8015
	BTX&E	5030	8020/8240	BTX&E	5030	602/624
	LEAD	3050	7421	LEAD	3050	7421
Leaded Gas	TPH G	5030	8015	TPH G	5030	8015
	BTX&E	5030	8020/8240	BTX&E	5030	602/624
	LEAD	3050	7421	LEAD	3050	7421
Unleaded Gas	TPH G	5030	8015	TPH G	5030	8015
	BTX&E	5030	8020/8240	BTX&E	5030	602/624
Diesel	TPH D	3550	8015	TPH D	3510	8015
	BTX&E	5030	8020/8240	BTX&E	5030	602/624
Waste Oil or Unknown	TPH G	5030	8015	TPH G	5030	8015
	TPH D	3550	8015	TPH D	3510	8015
	O & G	503D	503E	O & G	503A	503E
	BTX&E	5030	8020/8240	BTX&E	5030	8020/8240
	CL HC	5030	8010/8240	CL HC	5030	601/624
	ICAP or AA to detect metals: Cd, Cr, Pb, Zn					

Converse Environmental Consultants California

5 Hawthorne Street, Suite 500
San Francisco, California 94105
Telephone 415 543-4200

June 9, 1989
88-44-369-01-093

Ms. Leslie Ferguson
Water Resource Control Engineer
San Francisco Bay Regional Water Quality Control Board
1111 Jackson Street, Sixth Floor
Oakland, California 94607

Subject: Work Plan Certification
630 High Street
Oakland, California

Dear Ms. Ferguson:

This letter is to attest to the fact that the Site Investigation and Remediation Work Plan for this site prepared by Converse Environmental Consultants California (CECC) (03/20/89) was submitted by the plan author, Douglas W. Charlton, California Registered Geologist # 4110. The signature block on the transmittal letter with the plan read "Douglas W. Charlton, V.P."

Future documents will be signed by Dr. Charlton, or other California Registered Geologist, showing registration number in the signature block, and properly stamped.

As a further point of clarification, please be advised that all analysis under the referenced Work Plan and its modifications will follow the RWQCB requirements 10/06/88 as shown in the attached list.

WP_CERT

Please incorporate this letter as an addendum to the Shell Work Plan for 630 High Street (03/20/89), to confirm compliance with registration and analytical requirements.

Very truly yours,

Converse Environmental Consultants California

Douglas W. Charlton
California Registered Geologist # 4110

DWC:fs

Enclosure

cc: Ms. Diane Lundquist - Shell Oil Company - (w/encl.)
Mr. Rafat Shahid - Alameda County - (w/encl.)
Ms. Robin Breuer - CECC - (w/encl.)

TABLE 3
REVISED 6 OCTOBER 1988

RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND TANK LEAKS

HYDROCARBON LEAK	SOIL ANALYSIS			WATER ANALYSIS		
		Prep	Analysis		Prep	Analysis
Unknown Fuel	TPH G	5030	8015	TPH G	5030	8015
	TPH D	3550	8015	TPH D	3510	8015
	BTX&E	5030	8020/8240	BTX&E	5030	602/624
	LEAD	3050	7421	LEAD	3050	7421
Leaded Gas	TPH G	5030	8015	TPH G	5030	8015
	BTX&E	5030	8020/8240	BTX&E	5030	602/624
	LEAD	3050	7421	LEAD	3050	7421
Unleaded Gas	TPH G	5030	8015	TPH G	5030	8015
	BTX&E	5030	8020/8240	BTX&E	5030	602/624
Diesel	TPH D	3550	8015	TPH D	3510	8015
	BTX&E	5030	8020/8240	BTX&E	5030	602/624
Waste Oil or Unknown	TPH G	5030	8015	TPH G	5030	8015
	TPH D	3550	8015	TPH D	3510	8015
	O & G	503D	503E	O & G	503A	503E
	BTX&E	5030	8020/8240	BTX&E	5030	8020/8240
	CL HC	5030	8010/8240	CL HC	5030	601/624
	ICAP or AA to detect metals: Cd, Cr, Pb, Zn					

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

June 9, 1989

Shell Oil
P.O. Box 4023
Concord, CA 94520

Attn: Mr. Raymond Newsome

Re: 630 High Street, Oakland

Dear Mr. Newsome:

The deposit submitted to Alameda County Environmental Health, Hazardous Materials Program for the above noted site has been depleted. An additional deposit of three hundred thirty six dollars ($336.00) is required by this Office to continue our evaluation of the work performed by the contracted Environmental Consultants to further assess this site's degree of subsurface soils and ground water contamination.

If you have any questions concerning the contents of this letter or the status of this case please contact Hazardous Materials Specialist, Ariu Levi. Mr. Levi can be reached at 415-271-4320.

Sincerely,

Edgar B. Howell Jr.

Rafat Shahid, Chief
Hazardous Materials Program

cc:
Gil Jensen, Alameda County District Attorney, Consumer and Environmental Protection

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

June 2, 1989

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

Shell Oil
P.O. Box 4023
Concord, CA 94520

Attn: Ms. Diane Lundquist

Re: Work Plan for 630 High Street In Oakland

Dear Ms. Lundquist:

Thank you for submitting the Work Plan prepared by Converse Environmental Consultants California (CECC) for the Shell facility located at 630 High Street in Oakland as requested in this Office's letter to Mr. Ray Newsome dated February 24, 1989.

The Division has completed it's review of the proposed Work Plan. Based on this review, and consultation with the Regional Water Quality Control Board (RWQCB), the Division accepts your general approach to further assess the degree of site contamination by MVF. Several questions, though, concerning earlier work, and sample preparation methods remain unanswered. Specific comments on the submittal follow.

The initial site work conducted by Blaine Tech, which is included in the work plan as attachment 1, discovered an area of contamination where a waste oil tank was formerly located. Soil samples from this area were tested for TPH-g&d and BTXE. The samples were not evaluated for Total Oil and Grease (TOG) (by EPA Method 3550 and gravimetric determination by Method 503E), or Volatile Organic Compounds (VOC's) (by EPA Method 8240, or 8010 and 8020) as required by RWQCB guidelines. Failure to properly evaluate the samples at the time of excavation renders the determination of lateral and vertical extent of contamination incomplete. Additional sampling and proper testing will be required.

The disposition of soil stockpiles remains unclear. Page four of the Work Plan describes two piles in the northern part of the site, which from page four of Attachment 1 appears to be the same general location of the stock pile from the waste oil tank excavations. If soils from any area where sampling showed TPH in excess of 100 ppm have been moved off site please provide this Office with documentation that shows it was properly handled. Also inform this Office how the waste oil tank stockpile will be handled, and if it is your intent to address this issue separately or as part of the Soil Remedial Action Plan still to be submitted.

The sample preparation method for lead analysis remains unclear. Please specify whether EPA Preparation Method 3020 or 3040 for analysis by EPA Method 7421 was used during the February excavation and will be used for future sample analysis.

Should you have any questions concerning the contents of this letter please contact Hazardous Materials Specialist, Ariu Levi. Mr. Levi can be reached at 415-271-4320.

Sincerely,

Edgar B. Howell for

Rafat Shahid, Chief
Hazardous Materials Program

cc: Gil Jensen, Alameda County District Attorney, Consumer and Environmental Protection
Alan Whitman, OPD
Scott Hugenberger, RWQCB
Howard Hatayama, DOHS

3737

5/26/89 — MWs 1-4 sampled 5/26/89
8/15/89 — MW 5-8 . installed & sampled on 8/22/89
12/81/89 — MWs 9-10 surveyed & sampled

(2/90) - Slug test performed on MW-5 through MW-9
1st of series of QMR Q4/90 for MWs 1-10
Have records of Q1-Q4/91

Areas of soil contamination still existing!

1/26/89 Blaine Tech Services 10 soil spls ?

(2/3/89) Blaine Tech Serv. — Spl # 12-600ppm gf
GW spl No. 3 — 1800 ppm F & 2ppm Cl

8/20/92	g	&	B	T	E	X	ppm
MW 1	(9.1)	5.2	0.53	0.34	0.86	0.5	
MW 2	ND →						
MW 3	(13)	0.34	0.072	0.085	.071	0.14	
MW 4	3.1	3.4	0.1	0.045	0.014	0.045	
MW 5	(7.4)	0.3	0.056	0.095	0.091	0.15	
MW 6	0.14+	— N/D →					
MW 7	ND →						

Unit Lowcare
TOG

MW 8, 9, 10 & 22(?) → all ND

Gradient ≈ 0.005 to 0.042 ft/ft
Using slug test results of .005 by gradient, assuming fine sandy silt ave. linear velocity 0.046 - 0.069 ft/day or 17-25 ft/yr

GW Remediation — Risk Assessment
Soil Remediation
GW plume

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Director

Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

Telephone Number: (415) 271-4320

Certified Mail #P 833 981 239

February 24, 1989

Shell Oil
P.O. Box 4023
Concord, CA 94520

ATTN: Mr. Raymond Newsome

RE: 630 High St., Oakland

Dear Mr. Newsome:

In response to conditions found during site visits and verbal communication of subsurface soil sampling results, the Shell facility at 630 High St. in Oakland, is considered to have a confirmed fuel release.

The Alameda County Environmental Health Department, Hazardous Materials Program, has an official agreement with the State Water Resources Control Board to oversee and evaluate investigations and cleanups at leaking underground fuel system sites in the County of Alameda. The above referenced site is considered to have soil and/or ground water contamination that will require investigation and/or cleanup.

The proposed investigative work is to be submitted in the form of a workplan. This plan is to include the following information:

I. Introduction

A. Statement of scope of work
B. Site location showing location of existing and past UST
C. Site History

- describe any previous subsurface work at the site or adjacent sites.

II. Site Description

A. Vicinity description including hydrogeologic setting
B. Existing soil contamination and excavation results

P 833 981 239

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Shell O:1	
Street and No. P.O. Box 4023	
P.O., State and ZIP Code Concord 94520	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

30, June 1985

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:
Shell O:1
P.O. Bx 4023
Concord, CA 94520
ATTN: Raymond Newsome

4. Article Number
P833 981 239

Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X

7. Date of Delivery
2-28-89

8. Addressee's Address *(ONLY if requested and fee paid)*
ALAMEDA COUNTY
DEPT. OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS
3-1-89

PS Form 3811, Mar. 1987 ★ U.S.G.P.O. 1987-178-268 DOMESTIC RETURN RECEIPT

- provide sampling procedures used
- indicate depth to ground water
- describe soil strata encountered
- provide soil sampling results, chain of custody forms, identity of sampler
- describe methods for storing and disposal of all soils

III. Plan for determining extent of soil contamination on site

A. Describe method for determining extent of contamination within excavation

- identify subcontractors, if any
- identify methods or techniques used for analysis
- provide sampling map showing lines of excavation and sampling points
- provide chain of custody forms, lab analysis results, identity of sampler

B. Describe method and criteria for screening clean versus contaminated soil. If onsite soil aeration/bioremediation is to be utilized, then provide a complete description of method that includes:

- volume and rate of aeration/turning
- method of containment and cover
- wet weather contingency plans
- permits obtained

C. Describe security measures

IV. Plan for determining ground water contamination

- Construction and placement of wells should adhere to the requirements of the "Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks". Provide a description of placement and rationale for the location of monitoring wells including a map to scale.

A. Drilling method for construction of monitoring wells

- expected depth and diameter of monitoring wells
- date of expected drilling

- casing type, diameter, screen interval, and pack and slot sizing techniques
- depth and type of seal
- development method and criteria for adequacy of development
- plans for cuttings and development water

B. Ground water sampling plan

- method for free product measurement, observation of sheen
- well purging procedures
- sample collection procedures
- chain of custody procedures

V. Provide a site safety plan

Please submit your work plan for this site within twenty five days from the above letter date. Implementation of remediation plans may begin before acceptance and approval of the work plan. Final approval for site sign off by this office, though, will depend on adequacy of work done per the above requirements. Final site sign off will remain the responsibility of the RWQCB.

Should you have any questions concerning the contents of this letter or the status of this case, please contact Hazardous Materials Specialist, Ariu Levi. Mr. Levi can be reached at 415-271-4320.

Sincerely,

R/t A Shd

Rafat A. Shahid, Chief
Hazardous Materials Program

RAS:AL:mnc

cc: Lisa McCann, RWQCB
Gil Jensen, Alameda County District Attorney, Consumer and Environmental Protection Agency
Howard Hatayama, DOHS
Files

Armer/Norman & Associates
1561 Third Ave.
Walnut Creek, California 94596
(415) 937-8501

General and Engineering Contractors
State Contractors License No. 256896

2/24/89

February 23, 1989

Alameda County Health Services
80 Swan Way
Room 200
Oakland, CA 94621

ATTN: Ariu Levi

RE: Shell Oil Co. located at 630 High St., Oakland, CA

Gentlemen:

We had inadvertently misfiled the HSC-05 form that was filled out by Mr. Newsome with Shell Oil Company. As you are aware, Shell is following up with a site investigation.

Sincerely,

ARMER/NORMAN & ASSOCIATES

W. A. Armer

lcs
Enclosure 1

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

REPORT DATE: 02/01/89 | CASE #:

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFTY CODE.
SIGNED _____ DATE _____

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: R G Nawsome | PHONE: (415) 676-1914 | SIGNATURE: R G Nawsome
REPRESENTING ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER _____
COMPANY OR AGENCY NAME: Shell Oil Company
ADDRESS: 1390 Willow Pass Rd. (STREET) | CITY: Concord | STATE: Ca | ZIP: 94524

RESPONSIBLE PARTY
NAME: Shell Oil Co. ☐ UNKNOWN | CONTACT PERSON: R. G. Nawsome | PHONE: (415) 676-1914
ADDRESS: 1390 Willow Pass (STREET) Rd. | CITY: Concord | STATE: Ca. | ZIP: 94524

SITE LOCATION
FACILITY NAME (IF APPLICABLE): Shell Self Service | OPERATOR: Jack Edwards | PHONE: (415) 536-0808
ADDRESS: 630 High (STREET) Oakland (CITY) Alameda (COUNTY) | ZIP: 9
CROSS STREET: Oakport
TYPE OF AREA ☐ COMMERCIAL ☒ INDUSTRIAL ☐ RURAL ☐ RESIDENTIAL ☐ OTHER _____
TYPE OF BUSINESS ☒ RETAIL FUEL STATION ☐ FARM ☐ OTHER _____

IMPLEMENTING AGENCIES
LOCAL AGENCY / AGENCY NAME: Alameda Co. Environ Health | CONTACT PERSON: ARUL LEVI | PHONE: (415) 271-4320
REGIONAL BOARD: Regional Water Board S.F. Bay Area | CONTACT PERSON: Tom Callaghan | PHONE: 415 464-1255

SUBSTANCES INVOLVED
(1) NAME: Gasoline - grade unknown | QUANTITY LOST (GALLONS): _____ ☒ UNKNOWN
(2) _____ ☐ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 01/27/89 | HOW DISCOVERED: ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☐ TANK REMOVAL ☐ OTHER Product lines
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☒ REMOVE CONTENTS ☐ REPLACE TANK ☐ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE ☐ OTHER _____

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☐ TANK LEAK ☒ UNKNOWN ☐ PIPING LEAK ☐ OTHER
TANKS ONLY/CAPACITY: 40m GAL. | AGE _____ YRS ☐ UNKNOWN
MATERIAL: ☒ FIBERGLASS ☐ STEEL ☐ OTHER _____
CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ CORROSION ☒ UNKNOWN ☐ SPILL ☐ OTHER _____

CASE TYPE
CHECK ONE ONLY: ☐ UNDETERMINED ☒ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY: ☒ SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) ☐ CLEANUP IN PROGRESS ☐ SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) ☐ NO ACTION TAKEN ☐ POST CLEANUP MONITORING IN PROGRESS ☐ NO FUNDS AVAILABLE TO PROCEED ☐ EVALUATING CLEANUP ALTERNATIVES

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ CAP SITE (CD) ☐ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT)
☐ CONTAINMENT BARRIER (CB) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS)
☐ TREATMENT AT HOOKUP (HU) ☐ NO ACTION REQUIRED (NA) ☐ OTHER (OT) Unknown at present

COMMENTS
Contaminated soil discovered during removal of underground lines and pump islands. Samples are being analyzed to determine extent & concentration of contamination.

HSC 05 (4/87)

FACILITY FILE 2/10/89 AM

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☐ NO

REPORT DATE: 02/09/89 | CASE #:

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFTY CODE.
SIGNED: _____ DATE: 2/9/89

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: ARIN LEVI | PHONE: (415) 271 4320 | SIGNATURE
REPRESENTING ☐ OWNER/OPERATOR ☐ REGIONAL BOARD ☒ LOCAL AGENCY ☐ OTHER _____ | COMPANY OR AGENCY NAME
ADDRESS: 80 STREET SWAN #200 CITY OAKLAND STATE CA ZIP 94621

RESPONSIBLE PARTY
NAME: SHELL OIL ☐ UNKNOWN | CONTACT PERSON: RAY NEWSOME | PHONE: (415) 676 1414
ADDRESS: 630 STREET HIGH CITY OAKLAND STATE CA ZIP 94601

SITE LOCATION
FACILITY NAME (IF APPLICABLE): SHELL OIL | OPERATOR | PHONE: ( )
ADDRESS: 630 HIGH STREET CITY OAKLAND COUNTY ALAMEDA ZIP 94601
CROSS STREET: HWY 880
TYPE OF AREA ☐ COMMERCIAL ☐ INDUSTRIAL ☐ RURAL ☐ RESIDENTIAL ☐ OTHER _____
TYPE OF BUSINESS ☐ RETAIL FUEL STATION ☐ FARM ☐ OTHER _____

IMPLEMENTING AGENCIES
LOCAL AGENCY: ALAMEDA COUNTY | AGENCY NAME: ENVIRONMENTAL HEALTH | CONTACT PERSON: ARIN LEVI | PHONE: (415) 271-4320
REGIONAL BOARD | PHONE: ( )

SUBSTANCES INVOLVED
(1) NAME: GAS | QUANTITY LOST (GALLONS): _____ ☒ UNKNOWN
(2) WASTE OIL _____ ☒ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 02/03/89 | HOW DISCOVERED ☐ TANK TEST ☐ INVENTORY CONTROL ☐ TANK REMOVAL ☐ SUBSURFACE MONITORING ☐ OTHER PIPE REMOVAL ☐ NUISANCE CONDITIONS
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☐ REPLACE TANK ☒ CLOSE TANK ☐ REPAIR TANK ☒ REPAIR PIPING ☐ CHANGE PROCEDURE ☐ OTHER _____

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☒ TANK LEAK ☐ UNKNOWN ☐ PIPING LEAK ☐ OTHER
TANKS ONLY/CAPACITY: _____ GAL. AGE _____ YRS ☒ UNKNOWN
MATERIAL: ☐ FIBERGLASS ☐ STEEL ☒ OTHER _____
CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ CORROSION ☒ UNKNOWN ☐ SPILL ☐ OTHER _____

CASE TYPE
CHECK ONE ONLY: ☐ UNDETERMINED ☐ SOIL ONLY ☒ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY: ☒ SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) ☐ CLEANUP IN PROGRESS ☐ SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) ☐ NO ACTION TAKEN ☐ POST CLEANUP MONITORING IN PROGRESS ☐ NO FUNDS AVAILABLE TO PROCEED ☐ EVALUATING CLEANUP ALTERNATIVES

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ CAP SITE (CD) ☐ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT)
☐ CONTAINMENT BARRIER (CB) ☒ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS)
☐ TREATMENT AT HOOKUP (HU) ☐ NO ACTION REQUIRED (NA) ☐ OTHER (OT) _____

COMMENTS
IN PROCESS OF REMOVING PIPES SOIL CONTAMINATION DISCOVERED. HISTORICAL CHECK FOUND PREVIOUS TANK REMOVALS MAY NOT HAVE ADDRESSED SOIL CONTAMINATION.

HSC 05 (4/87)

2/10/89

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
(415) 271-4320

[ ] HAZARDOUS MATERIALS RELEASE AND NOTIFICATION REPORT (H&SC 25180.7)
[ ] EMERGENCY RESPONSE

1. INFORMATION RECEIVED BY: ARIK LEVI
   DATE: 2/9/89 TIME: 3PM
2. INCIDENT LOCATION: 630 HIGH
   CITY: OAKLAND ZIP CODE: 94601
3. DATE OF INCIDENT: 2/3/89 TIME OF INCIDENT: 4PM
4. REPORTED BY: ARIK LEVI AGENCY: ALAMEDA COUNTY
   ADDRESS: 80 SWAN WY # 200 CITY, ZIP: OAKLAND 94621
   TELEPHONE: 415 271 4320 CONTACT: ARIK LEVI
   PHONE: 415 271 4320
5. TYPE OF DISCHARGE:
   [ ] Discharge from vehicle License Plate No. _____
   Manifest/Shipping Information: _____
   [ ] Abandoned Material [X] Fixed Facility
   Name: _____ Address: _____
   City: _____ Zip Code: _____
   [ ] Other (specify) _____
6. ESTIMATED QUANTITY DISCHARGED: ?
   QUANTITY THREATENED TO BE RELEASED: —
7. NATURE OF MATERIAL:
   [ ] Solid [X] Liquid [ ] Gas [ ] Powder [ ] Granular
   [ ] Radioactive [ ] Other
   Chemical Name: GAS, WASTE OIL Common Name: _____
8. HAZARDOUS PROPERTIES: [ ] Corrosive [X] Ignitable [X] Toxic
   [ ] Reactive [ ] Other
9. HAZARDOUS MATERIAL WAS RELEASED TO:
   [ ] Air [ ] Storm Drain [ ] San Francisco Bay [ ] Sanitary Sewer
   [ ] Other Natural Waterway (creek, lake, reservoir) [X] Groundwater
   [ ] Groundsurface (soil, road, etc.) [ ] Other (specify) _____
10. WEATHER CONDITIONS: RAINING
11. NUMBER OF INJURED PERSONS REQUIRING HOSPITALIZATION: —
    NAMES AND ADDRESSES OF HOSPITALS UTILIZED:

12. PERSONS PRESENT AT SCENE:
NAME: RAY WEWSOME AFFILIATION SHELL OIL PHONE NO.

13. RESPONSIBLE PARTY:
NAME: RAY NEWSOME PHONE NO.
ADDRESS:

14. EVIDENCE COLLECTED (SAMPLES, PHOTOGRAPHS, ETC.)

15. CLEAN-UP ACTIONS: SITE ASSESSMENT ONGOING

NAMES AND ADDRESSES OF PERSONS DOING CLEAN-UP:
PENDING.

DESCRIPTION OF CLEAN-UP ACTIONS:
ASSESSMENT

16. TIME INCIDENT CLOSED: —

17. ELAPSED TIME: —

18. [ ] DISCHARGE NOT TO BE NOTIFIED:
X Unlikely to Cause Substantial Injury to Public Health & Safety
___ Public knowledge ___ Ongoing criminal investigations
___ Permitted Discharge ___ Other

19. [ ] DISCHARGE TO BE NOTIFIED:
FACTORS DETERMINING THAT THIS HAZARDOUS WASTE DISCHARGE OR POTENTIAL DISCHARGE IS LIKELY TO CAUSE SUBSTANTIAL INJURY TO THE PUBLIC HEALTH OR SAFETY:

20. NOTIFICATION:
___ Board of Supervisors
___ Health Officer
___ Alameda County Press Room
X California Department of Health Services
X Reporting Agency or Individual

By copy of this report to the above listed agencies and officials, we are hereby submitting this information on behalf of all designated employees of the Department of Environmental Health, according to Section 25180.7, Health & Safety Code. The information submitted in this report is based upon the best available information at the time the report was completed.

Inspector's Name: ARIU LEVI Date: 2/9/88
Inspector's Signature:

EH/mam/88

ROBERT H. LEE & ASSOCIATES INC.
900 Larkspur Landing Circle
Suite 125
LARKSPUR, CALIFORNIA 94939

(415) 461-8890

LETTER OF TRANSMITTAL

DATE 1/31/89	JOB NO. 6392
ATTENTION ARIU LEVI	
RE: SHELL OIL PIPING/DISPENSER INSTALLATION @ 630 HIGH STREET OAKLAND, CA	

TO DEPARTMENT OF ENVIRONMENTAL HEALTH
DIVISION OF HAZARDOUS MATERIALS

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via HAND DELIVER the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☒ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
2		PP-1	PIPING PLAN
		PP-2	DISPENSER & PIPING DETAILS
		PP-3	PIPING SECONDARY CONTAINMENT
		PP-4	TYPICAL PIPING SECONDARY CONTAINMENT

THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ Approved as submitted ☐ Resubmit_____copies for approval
☐ For your use ☐ Approved as noted ☐ Submit_____copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return_____corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19_____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS MR LEVI:
PLEASE STAMP & SIGN FOR APPROVAL. ENCLOSED PLEASE FIND COPY OF TRANSMITTAL FROM DEC. OF 1987 FOR ORIGINAL PLAN REVIEW BY YOURSELF. PLEASE KEEP ONE COPY FOR YOUR FILES.

ALAMEDA COUNTY
DEPT. OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS
1/31/89
mnc

COPY TO RAY NEWSOME

SIGNED: Julia E. Niles

If enclosures are not as noted, kindly notify us at once.

ROBERT H. LEE & ASSOCIATES, INC.
900 Larkspur Landing Circle, Suite 125
LARKSPUR, CALIFORNIA 94939

(415) 461-8890

LETTER OF TRANSMITTAL

DATE	JOB NO.
12/28/87	6392

ATTENTION: ARIN LEVY

RE: SHELL MINI-MART @
630 HIGH ST.
OAKLAND, CA

TO DIVISION OF HAZARDOUS MATERIALS
DEPT. OF ENVIRONMENTAL HEALTH

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☒ CHECK FOR PLAN REVIEW DEPOSIT.

COPIES	DATE	NO.	DESCRIPTION

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit_____copies for approval
☐ For your use ☐ Approved as noted ☐ Submit_____copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return_____corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS MR LEVI:
ENCLOSED PLEASE FIND A CHECK FOR $300.00
FOR PLAN REVIEW DEPOSIT FOR THE ABOVE
MENTIONED JOB AS PER OUR DISCUSSION
ON 12/23/87. PLEASE CONTACT ME WHEN
THE REVIEW HAS BEEN COMPLETED.

COPY TO _____

SIGNED: Leticia Estrada

If enclosures are not as noted, kindly notify us at once. LETICIA ESTRADA

REF./ A/C NO.

COUNTY OF ALAMEDA
OFFICE OF THE AUDITOR-CONTROLLER

DATE: 12/28/87

№ 505531

MISCELLANEOUS RECEIPT

$300.00 DOLLARS

(PLAN REVIEW DEPOSIT)

RECEIVED FROM: Robert Lee & Assc. Inc.

~~FOR:~~ 900 Larkspur Landing Circle, Suite 125, Larkspur CA 94939
for Shell Mini-Mart, 630 High St, Oakland 94601

RECEIVED BY:

DEPT. NO.: 430-453

☐ CASH ☒ PERSONAL/CASHIER'S CHECK/M. O. # 2953 ☐ OTHER:

110-1 (Rev 10/85) [0134E (08)] 3-Part Distribution: White - Payor Yellow & Pink - Depart.

ROBERT H. LEE & ASSOCIATES, INC.
900 LARKSPUR LANDING CIRCLE, SUITE 125 461-8890
LARKSPUR, CA 94939

PLAN REVIEW DEPOSIT

2953

90-4021/1211

12/28 19 87

PAY TO THE ORDER OF Dept. of Environmental Health $ 300.00

Three Hundred 00/100 DOLLARS

WESTAMERICA BANK N.A.
LARKSPUR-KENTFIELD OFFICE 924-6923
P.O. BOX 567 • 1177 MAGNOLIA AVENUE
LARKSPUR, CA 94939

FOR Shell #6392 - OAKLAND

Donna McCue

⑈002953⑈ ⑆121140218⑆ 050730175 2⑈

BC

3209 Castro Valley Boulevard
Suite 4
Castro Valley, CA 94546
December 13, 1988

Alameda County Department
of Environmental Health
80 Swan Way, No. 200
Oakland, CA 94621

Gentlemen:

RE: HIGH STREET SHELL
630 High Street, Oakland

This is a follow-up to our letter of December 6, a copy of which is attached.

The records in question have been delivered to the station by the previous management, and are available for inspection.

Sincerely,

Jack F. Edwards
for High Street Shell

JFE:d
Enclosure

3209 Castro Valley Boulevard, Suite 4
Castro Valley, CA 94546
December 6, 1988

Alameda County Department of
Environmental Health
80 Swan Way, No. 200
Oakland, CA 94621

Gentlemen:

RE: HIGH STREET SHELL
630 High Street, Oakland

This is in response to the citing for our failure to have the 12-month record of gas and diesel stickings on the station.

This would not have happened except for the fact that there had been a change of ownership shortly before your inspection. I'm sure the former owners were not aware that their records should have been left at the station.

Robert and Elaine Hutchison of 1334 Breckenridge Street, San Leandro, CA 94579, have been notified by certified mail to return the records immediately.

We have been given extensive training by Shell Oil and are well-prepared to maintain all of the records required by all of the environmental agencies.

Please call me at 581-0230 if you require further information.

Sincerely,
EDWARDS & ANDERSON, INC.

Jack F. Edwards
for High Street Shell

JFE:d

ROBERT H. LEE & ASSOCIATES, INC.
900 Larkspur Landing Circle, Suite 125
LARKSPUR, CALIFORNIA 94939

(415) 461-8890

LETTER OF TRANSMITTAL

DATE	JOB NO.
12/28/87	6392

ATTENTION: ARIU LEVY

RE: SHELL MINI-MART @
630 HIGH ST.
OAKLAND, CA 94601

TO DIVISION OF HAZARDOUS MATERIALS
DEPT. OF ENVIRONMENTAL HEALTH

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☒ CHECK FOR PLAN REVIEW DEPOSIT.

COPIES	DATE	NO.	DESCRIPTION

Project # U 605531
Fee Paid 300.00
Date 12/28/87

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit_____copies for approval
☐ For your use ☐ Approved as noted ☐ Submit_____copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return_____corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19_____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS MR LEVI:
ENCLOSED PLEASE FIND A CHECK FOR $ 300.00 FOR PLAN REVIEW DEPOSIT FOR THE ABOVE MENTIONED JOB AS PER OUR DISCUSSION ON 12/23/87. PLEASE CONTACT ME WHEN THE REVIEW HAS BEEN COMPLETED.

COPY TO _____

SIGNED: Leticia Estrada
LETICIA ESTRADA

If enclosures are not as noted, kindly notify us at once.

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

DEPARTMENT OF ENVIRONMENTAL HEALTH

MFR Sent _____ (date)

PURPOSE: Permit Application ☐ Service ☐ Update ☐ Computer No. ☐☐☐☐

TYPE OF ACTION: New Premises ☐ Change of Owner ☐ Change of Name ☐ Change of Status ☐ Inactivate ☐ Delete ☐ Unincorp. ☐

Premises Name SHELL MINI MART SUPV. DIST. ☐☐☐ C.T. 4☐☐☐

A. Premises Address 630 HIGH ST (Number / Street) OAK. (City) 94601 (Zip Code) _____ (Phone)

Owner/Operator SHELL OIL CO. (If corporation, also show name of corporation president) 676-1414 EXT 128 (Phone)

B. Home Address _____ (Number / Street / City / Zip Code)

SEND BILLING TO ADDRESS: (A) / B (circle one)

Prior Business Name _____ Prior Owner's Name _____

Property Owner _____ (If corporation, also show name of corporation president) _____ (Phone)

Address _____ (Number / Street / City / Zip Code)

FOOD PREMISES SWEEPS CODE ☐☐ E. U. NO. ☐☐☐

Bakery
- ___ Under 2,000 sq. ft.
- ___ 2,000 - 6,000 sq. ft.
- ___ Over 6,000 sq. ft.

Food Market, Retail
- ___ Under 3,000 sq. ft.
- ___ 3,000 - 10,000 sq. ft.
- ___ Over 10,000 sq. ft.
- ___ **Confectionary**

Food Vehicle
- ___ Industrial Catering
- ___ Mobile Food Prep. Unit
- ___ Itinerant

Restaurant
- ___ Temporary (1-45 days)
- ___ Tavern, Cocktail lounge
- ___ Snack Bar
- ___ Drive-In, Take Out
- ___ Catering Commissary
- ___ Under 26 seats
- ___ 26 - 50 seats
- ___ 51 - 75 seats
- ___ Over 75 seats

- ___ **Vending Machine**
- ___ **Food Crop Growing & Harvesting Oper.**
- ___ **Ice Plant/Distributor**

Other Food
- ___ _____

GENERAL CATEGORIES
- ___ **Public Swimming Area**
- ___ **Wiping Rag Business**
- ___ **Mobilehome Park**
  - No. Spaces _____
- ~~/~~ **Plan Review**
- ___ **Home Quarantine of Biting Animals**

Waste Disposal
- ___ **Sewage Transport Vehicle**
- ___ **Discrete Sewerage Facility**

Private Waste Disposal
- ___ **Hog Farm**
- ___ **Animal Feed Lot**

Septic Tank
- ___ Site Evaluation
- ___ Plan Review
- ___ Percolation Test
- ___ Installation

Holding Tank
- ___ Site Evaluation
- ___ Installation
- ___ Inspection

Water Supply-Utility
- ___ Community System
- ___ Non-Community System
- ___ State Small Water System
- ___ Local Small Water System

Private Water Supply
- ___ Flow, Bacti. & Chem. Anal.

Drinking Water Analysis
- ___ Bacterial
- ___ Chemical

Other
- ___ _____

Number of Units/Hrs. _____ Fee Per Unit/Hr. $ _____ Total Fee $ _____

REMARKS: DEPOSIT RECORDED.

You will receive a **BILL** in accordance with Article 11 of Chapter 6, Title 3 of the Ordinance Code of Alameda County

Owner/Operator or Authorized Representative [signature] Date _____

Sanitarian _____ Phone _____ Date _____

400-WA-1-4/87 WHITE—BILLING YELLOW—OFFICE PINK—APPLICANT