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TRANSMITTAL

DATE: August 25, 2010

REFERENCE NO.: 240734

PROJECT NAME: 285 Hegenberger Road, Oakland

TO: Jerry Wickham

Alameda County Environmental Health

1131 Harbor Bay Parkway, Suite 250

Alameda, California 94502-6577

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QUANTITY	DESCRIPTION
1	Feasibility Study and Corrective Action Plan

As Requested For Review and Comment
 For Your Use

COMMENTS:

If you have any questions regarding the contents of this document, please call Peter Schaefer at
(510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US (*electronic copy*)
SF Data Room (*electronic copy*)

Completed by: Peter Schaefer

Signed:

Filing: Correspondence File



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10:55 am, Aug 26, 2010

Alameda County
Environmental Health

Jerry Wickham
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1131 Harbor Bay Parkway, Suite 250
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Re: Shell-branded Service Station
285 Hegenberger Road
Oakland, California
SAP Code 135691
Incident No. 98995749
ACEH Case No. RO0000220

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

A handwritten signature in black ink, appearing to read "Denis L. Brown".

Denis L. Brown
Project Manager



FEASIBILITY STUDY AND CORRECTIVE ACTION PLAN

**SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**

**SAP CODE 135691
INCIDENT NO. 98995749
AGENCY NO. RO0000220**

**Prepared by:
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AUGUST 25, 2010

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EXECUTIVE SUMMARY

Excavation, soil vapor extraction (SVE), and SVE with air sparging (AS) have been implemented at this site with varying success. Previous SVE and SVE/AS systems were operated until reaching their respective cost-effective limits. Dual phase extraction testing demonstrated the remaining source mass can not be remediated by any means other than excavation, which is not practical while the station is operating. In situ and extraction technologies are limited by the very low permeability soil types, which do not accommodate feasible dispersion or effective mass removal.

Previous investigations identified a possible risk of groundwater reaching San Leandro Channel via a trench for a 54-inch storm drain located in the south-bound lanes of Hegenberger Boulevard. However, there is no data that verifies this assertion, and our visual observations do not indicate that it is currently occurring. The calculated possible discharge concentration of constituents of concern (COCs) to San Leandro Channel, when compared with site-specific ecological risks (presented in CRA's August 25, 2010 letter to ACEH), are at acceptable levels. Based on these calculations, the preferred remediation option for the site is MNA.

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this Feasibility Study and Corrective Action Plan (FS/CAP) on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell). Alameda County Environmental Health's March 4, 2010 letter requested this study. This FS/CAP complies with California Code of Regulations, Title 23, Division 3, Chapter 16, Underground Storage Tank Regulations.

The subject site is a Shell-branded service station located on the northwest corner of Hegenberger Road and Leet Drive in a mixed commercial and industrial area of Oakland, California (Figure 1). The current site layout includes three underground storage tanks (USTs), two product dispenser islands, a station building, and a car wash (Figure 2).

A summary of previous work performed at the site and additional background information is contained in Appendix A.

2.0 SITE BACKGROUND

2.1 HISTORICAL SITE USE

Shell has owned and operated this gasoline station since 1966. The surrounding area is of mixed commercial and industrial use. Oakland International Airport is located approximately 1 mile west of the site. The property was purchased prior to 1960, and the service station was built between 1966 and 1967. Prior to 1966, no buildings existed on site. Aerial photographs prior to 1960 indicate that the area was reclaimed wetlands starting in 1947.

2.2 PRODUCT RELEASES AND SOURCE AREA

Release source and volume are unknown. The site has been an operating Shell-owned gasoline station since 1966. The on-site USTs were replaced with single-wall fiberglass tanks in 1984, but no soil data is available. Site investigation was implemented in 1989 in response to soil data from the adjacent site, 295 Hegenberger Road, indicating hydrocarbon impact near the Shell property line.

2.3 SITE GEOLOGY AND HYDROGEOLOGY

2.3.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

According to the *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report*, (California Regional Water Quality Control Board - San Francisco Bay Region, June 1999), the site is located within the Oakland Sub-Area of the San Francisco Basin of the East Bay Plain. The Oakland Sub-Area contains a sequence of alluvial fans. The alluvial fill thickness ranges from 300 to 700 feet deep. There are no well-defined aquitards such as the estuarine muds. The largest and deepest wells in this Sub-Area historically pumped 1 to 2 million gallons per day at depths greater than 200 feet. Overall, sustainable yields are low due to low recharge potential. The Merritt sand in west Oakland was an important part of the early water supply for Oakland. It is shallow (up to approximately 60 feet below grade [fbg]), and before the turn of the century, septic systems contaminated the water supply wells.

Throughout most of the Alameda County portion of the East Bay Plain, from Hayward north to Albany, water level contours show that the direction of groundwater flow is from east to west or from the Hayward Fault to San Francisco Bay. Groundwater flow direction generally correlates to topography. Flow direction and velocity are also influenced by buried stream channels that typically are oriented in an east-west direction. The site elevation is approximately 10 feet above mean sea level. Depth to groundwater in the vicinity is approximately 2 to 8 fbg. Based on quarterly groundwater monitoring data, local groundwater generally flows toward the southeast. The nearest natural drainage is San Leandro Creek, located approximately 200 feet south of the site.

According to the *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report*, the City of Oakland does not have "any plans to develop local groundwater resources for drinking water purposes, because of existing or potential saltwater intrusion, contamination, or poor or limited quantity." However, the San Francisco Bay Regional Water Quality Control Board's (RWQCB) basin plan denotes existing beneficial uses of municipal and domestic supply (MUN), industrial process supply (PROC), industrial service supply (IND), and agricultural supply (AGR) for the East Bay Plain groundwater basin. The California State Water Resources Control Board's Geotracker website file for the environmental case at this site states that the groundwater at this site is considered "Other Groundwater (Uses Other Than Drinking Water)."

2.3.2 SOIL TYPES

Available cross-sections and exploratory boring logs are included in Appendix B. The locations of the well and most of the soil borings are shown on Figure 2 and the locations of soil borings prior to 1994 are presented in Appendix C.

The site is located within the Oakland Sub-Area of the East Bay Plain in Alameda County, approximately 3 miles west of the Hayward Fault, and sits on approximately 5 to 10 feet of non-native fill, overlying Bay Mud. The East Bay Plain is characterized by Quaternary age Bay Mud composed of unconsolidated plastic clay and silty clay, rich in organic material with some lenses of silt and sand. Beneath the Bay Mud deposits lay unconsolidated younger and older alluvial deposits. Lithology consists primarily of silty sand, clayey sand, and gravel, underlain by silty clay, sandy clay, and clay. Appendix B presents all available boring logs.

2.3.3 GROUNDWATER DEPTH AND FLOW DIRECTION

The depth to groundwater at the site has historically been measured as shallow as 1.01 fbg and as deep as 8.03 fbg, but typically is found ranging between 3 to 6 fbg.

A groundwater contour map for the First Quarter 2010 groundwater monitoring event is included as Figure 3. As seen on Figure 3, the groundwater flow direction for the site is predominantly toward the southeast, which is consistent with historical groundwater flow direction.

2.3.4 GROUNDWATER QUALITY ASSESSMENT

The California State Water Resources Control Board's Geotracker website file for the environmental case at this site states that the groundwater at this site is considered "Other Groundwater (Uses Other Than Drinking Water)." Further, in accordance with the June 1999 California Regional Water Quality Control Board, San Francisco Bay Region Groundwater Committee's "*East Bay Plain Groundwater Basin Beneficial Use Evaluation Report for Alameda and Contra Costa Counties, CA.*", the City of Oakland (among other cities) does not have plans to develop local groundwater resources for drinking water purposes, because of existing or potential salt water intrusion, contamination, or poor or limited quantity. All the properties in the vicinity of the site are being served by the local municipal water purveyor for potable water. Given the above, and the fact that groundwater is considered shallow at this site, it is not likely

that the groundwater impacted by the subject site will be used for potable water now, or in the foreseeable future. In addition, pump testing data suggest that shallow saturated soils at the subject site would likely not provide sufficient water to supply a single well capable of producing an average, sustained yield of 200 gallons per day. The DPE pilot test data indicates that the sustained yield of the impacted water-bearing zone is approximately 162 gallons per day or less. Therefore, per RWQCB Resolution 89-39 "Sources of Drinking Water", the upper water bearing unit at this site is considered an exception to the general designation of being suitable, or potentially suitable, for municipal or domestic water supply.

2.4 PREFERENTIAL PATHWAY ANALYSIS

In 1999, Cambria Environmental Technology, Inc. (Cambria) conducted a utility survey which identified sanitary sewers running beneath the southern corner of the site and a 54-inch diameter storm drain running parallel to the southeast property line under the southwest-bound lanes of Hegenberger Road.

Soil samples collected from boring SB-1, near a manhole connecting two 8-inch sanitary sewer lines, did not contain hydrocarbons or methyl tertiary-butyl ether (MTBE). A groundwater sample collected from SB-1 contained 182 micrograms per liter ($\mu\text{g/l}$) total petroleum hydrocarbons as diesel (TPHd) and $86.3 \mu\text{g/l}$ MTBE. Since the sanitary sewer line is pressurized and slopes toward the site, it is not likely to serve as a conduit for contaminant transport to the water channel.

Soil samples from borings SB-2 and SB-3 did not contain benzene or MTBE, but did contain up to 43.3 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg) and 35.8 mg/kg TPHd. Groundwater samples from SB-2 and SB-3 contained TPHg, TPHd, benzene, toluene, ethylbenzene, xylenes (BTEX), and MTBE (by EPA Method 8260). Soil boring and groundwater monitoring data suggests that either the plume stabilizes before it reaches the down gradient monitoring wells (MW-11, MW-12, and MW-13) or possibly the storm drain intercepts and diverts groundwater flow.

The possible mass transport of contaminants of concern within the utility corridors was originally estimated in Cambria Environmental Technology, Inc.'s May 12, 2000 *Subsurface Investigation and Vapor Extraction Test Report* using a protocol established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) for a similar situation at the San Francisco International Airport. The discharge concentrations were estimated at $23 \mu\text{g/l}$ benzene and $13 \mu\text{g/l}$ MTBE which are below RWQCB

environmental screening levels¹ (ESL) for estuarine environments (Table F-2c of the ESL document). The calculated possible discharge concentration for TPHg was 2,680 µg/l, which exceeded the ESL for TPHg. CRA's August 25, 2010 letter to ACEH evaluated the calculated possible discharge concentration of COCs to San Leandro Channel, compared with site-specific ecological risks, and determined that current COC concentrations are at acceptable levels. In addition, CRA observed the outfall on May 3, 2010 and found no evidence of seeps around the outfall, hydrocarbon sheen, or odor associated with water being discharged from the outfall. Grab groundwater sample results from soil boring SB-1 (drilled by Cambria Environmental Technology, Inc. in 1999), located next to the storm drain, contained 182 µg/l TPHd, 86 µg/l MTBE, and no TPHg or BTEX (Appendix D). Soil vapor sample results from temporary soil vapor probe 4 (installed by Converse Environmental West in 1991) within the storm drain backfill contained 5.3 µg/l benzene, 5.9 µg/l ethylbenzene, and no TPHg, toluene, or xylenes (Appendix E).

2.5 SENSITIVE RECEPTORS

In March 2004, Cambria conducted a well survey of available agency records. Cambria reviewed California State Department of Water Resources well logs and the California State Water Resources Control Board Geotracker system data and identified six water-producing wells within a ½-mile radius of the site. Three wells were identified as being used for agricultural/irrigation use, one was for industrial use, and two were of unidentified use (Figure 1).

The nearest down-gradient surface water body is the engineered channel of San Leandro Channel located across Leet Drive south and west of the site.

3.0 REMEDIATION

Appendix F presents available tables detailing the performance of remediation tests and system operations.

¹ Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final – November 2007 [Revised May 2008]

3.1 1991 SOIL VAPOR EXTRACTION (SVE) TEST

In November 1991, Converse Environmental West (CEW) installed one SVE well (VEW-1) and three soil vapor monitoring points (VM-2, VM-3, and VM-4), and conducted a series of short-term SVE tests from VEW-1 at varying extraction flow rates. Vacuum influence was monitored in VM-2, VM-3, VM-4, MW-1, MW-6, and MW-9. The SVE test results indicated a measurable radius of influence of 30 to 35 feet from well VEW-1, with heterogeneous vapor permeability in subsurface soils. Using the average TPHg concentration of 49 parts per million by volume (ppmv) observed during the pilot test and an average vapor extraction rate of 80 standard cubic feet per minute (scfm), the hydrocarbon removal rate was estimated to be approximately 14.5 pounds per hour.

3.2 1992 EXCAVATION

In 1992, an oil/water separator and the three hydraulic lifts were removed and impacted soils were over-excavated. Post-excavation soil samples contained up to 1,800 mg/kg TPHg, 7,600 mg/kg TPHd, 6,800 mg/kg total oil and grease, and 1.9 mg/kg benzene. The laboratory noted that the positive results for TPHd appear to be a combination of heavier and lighter hydrocarbons, rather than diesel. Grab groundwater samples were collected from one of the hydraulic lift excavations and a canopy footing excavation. Up to 88,000 µg/l TPHg and 18,000 µg/l benzene were detected in the grab groundwater samples.

3.3 1993 TO 1995 SVE SYSTEM OPERATION

Between August 1993 and February 1995, Pacific Engineering Group, Inc. operated an SVE system which extracted soil vapors from wells VEW-1 through VEW-5. System operation was discontinued due to negligible hydrocarbon removal. The SVE system removed approximately 707 pounds of TPHg and 6.9 pounds (lbs.) of benzene.

3.4 1999 SVE TEST

In November 1999, Cambria Environmental Technology, Inc. (Cambria) performed short-term SVE testing of four existing SVE wells (VW-1 through VW-4) for approximately 2 hours each, followed by a long-term test of wells VW-1 and VW-4 for approximately 5 days. Influent concentrations ranged from 259 to 1,410 ppmv TPHg, 2.3 to 32.3 ppmv benzene, and 3.47 to 129 ppmv MTBE. During short-term testing,

vapor extraction flow rates ranged from 0 to 26 scfm per well based on applied vacuum ranging from 45 to 60 inches of water, resulting in a TPHg removal rate of 0.95 to 2.1 pounds per day per well. During long-term testing, vapor extraction flow rates ranged from 18.0 to 22.7 scfm (combined extraction from wells VW-1 and VW-4). The TPHg removal rate during the long-term test ranged from 2.13 to 5.95 pounds per day. The total estimated constituents of concern mass removed during SVE testing were 18.7 lbs. TPHg, 2.3 lbs. MTBE, and 0.97 lbs. benzene.

3.5 2002-2003 SVE WITH AIR SPARGING (SVE/AS)

Between March 2002 and February 2003, Cambria operated a SVE/AS system, using wells SVE-5/AS-1, SVE-6/AS-2, and/or SVE-7/AS-3. The system was shut down in February 2003 due to declining TPHg, MTBE, and benzene influent concentrations, corresponding to negligible hydrocarbon removal rates. During operation, vapor extraction flow rates ranged from 4.7 to 39.4 scfm. The TPHg removal rate ranged from 0.0 to 0.49 pounds per hour. The SVE/AS system removed an estimated total 99.3 pounds TPHg, 0.18 pounds MTBE, and 0.48 pounds benzene.

3.6 2004 EXCAVATION

During fuel dispenser and piping upgrades in June and July 2005, the area beneath the former product piping was over-excavated. Up to 6,500 mg/kg TPHg, 170 mg/kg TPHd, 3.6 mg/kg benzene, and 21 mg/kg MTBE were detected in soil samples collected following the over-excavation.

3.7 2004 DUAL-PHASE EXTRACTION (DPE) TEST

In November 2004, Cambria conducted a DPE test from wells MW-1, MW-9, and MW-10. The test results are presented in the following table.

TABLE A						
Well	Test Hours	Average Flow Rate (SCFM)	Induced Vacuum (Inches of Water)	Estimated TPHg Mass Removal (pounds)	Estimated Benzene Mass Removal (pounds)	Estimated MTBE Mass Removal (pounds)
MW-10	163.2	6.6	90.1-218.1	93.6	1.37	0.389
MW-9	25.4	2.4	23.8-191.7	0.009	0.0002	0.000003
MW-1	24.4	5.0	26.5-199.1	4.38	0.068	0.004

Vacuum influence was monitored, but not detected, in surrounding wells. The groundwater yield during this test was low, totaling approximately 950 gallons during 213 hours of DPE.

3.8 APRIL 2005 DPE TEST

In April 2005, Cambria conducted a DPE test from well MW-10. During 148.5 hours of DPE from well MW-10, an average flow rate of approximately 11.9 scfm was obtained with a measured wellhead vacuum level ranging from 6.5 to 233.0 inches. An estimated 2.19 pounds TPHg, 0.157 pounds benzene, and 0.425 pounds were removed from well MW-10 during the test. Vacuum influence was monitored in surrounding wells, but was either minimal or not detected. A total of approximately 1,000 gallons of groundwater was extracted during 148.5 hours of DPE, for an average extraction rate of 0.11 gallons per minute (gpm).

4.0 DISTRIBUTION OF COCs

4.1 HYDROCARBON DISTRIBUTION IN SOIL

Hydrocarbons in soils have been detected primarily in the area of the dispensers, the USTs (fuel and waste oil) and in the eastern corner of the site. TPHg, TPHd, BTEX are defined in soil laterally in the down-gradient direction by wells MW-11, MW-12, and MW-13 (with the exception of toluene in MW-11 at 5.5 fbg). TPHg, TPHg, and xylenes are defined cross gradient in soil by wells MW-4 and MW-6. Benzene and toluene were detected in MW-6 and 5 at 10 fbg. Toluene and ethylbenzene were detected in MW-4 at 5 and 10 fbg, respectively. BTEX components are defined up gradient in soil by MW-2, MW-3, and VEW-4. TPHg was detected in wells MW-2 and MW-3 at 6 and 5 fbg, respectively. MTBE in soil is defined down gradient by MW-11, MW-12, and MW-13. Soil samples from wells and borings drilled prior to 1998 were not analyzed for MTBE. TPHg, TPHd, BTEX, and MTBE in soil are not defined vertically beneath the site or off site. Historical soil samples have been collected from up to 14 fbg on site, and 17 fbg off site.

Historical soil analytical data and soil sampling locations are presented in Appendix C.

4.2 HYDROCARBON DISTRIBUTION IN GROUNDWATER

Currently, there are 11 monitoring wells located both on site and off site and seven on-site vapor extraction wells at the site. Groundwater has been monitored on site since February 1989. As approved in Alameda County Environmental Health's January 21, 2010 letter, groundwater monitoring frequency has been reduced to annual events. Historical groundwater data is presented in Appendix D. During the most recent groundwater monitoring event on January 4, 2010 (Figure 2), maximum concentrations of 22,000 µg/l TPHg, 2,500 µg/l TPHd, 7,200 µg/l benzene, 810 µg/l MTBE and 2,600 µg/l TBA were detected in monitoring well MW-10. Trends of TPHg and benzene concentrations in MW-9 and MW-10 are presented in Figures 3 and 4.

TABLE B

Well ID	Constituent of Concern	January 4 2010 Concentration (µg/l)	R/NQCB Non-Drinking Water ESL	Time to Reach Non-Drinking Water ESL
MW-9	TPHg	8,300	210	8
	Benzene	3,200	46	20
	MTBE	<50	1,800	Achieved
MW-10	TPHg	22,000	210	17
	Benzene	7,200	46	50
	MTBE	870	1,800	Achieved

The hydrocarbon plume in groundwater is adequately delineated down gradient to the south by wells MW-4 and MW-8, to the north by wells MW-2 and MW-6, and to the east by wells MW-11 through MW-13. As stated above, a 54-inch storm drain located below the south-bound lanes of Hegenberger Road may present a preferential pathway for groundwater moving down gradient to the east (Figure 2).

4.3 OFF-SITE SOIL VAPOR INVESTIGATION

In July 1991, CEW conducted a soil gas survey in backfill of a 54-inch storm drain in the south-bound lanes of Hegenberger Road to investigate the presence of hydrocarbons in the City of Oakland utility trench. Up to 62 milligrams per liter (mg/l) TPHg and 890 µg/l benzene were detected in samples collected from five soil gas sampling points. Soil vapor survey point 4, located closest to the storm drain outfall into San Leandro Channel, contained 5.3 µg/l benzene, 5.9 µg/l ethylbenzene, and no TPHg, toluene, or xylenes. Sample locations and laboratory data are presented in Appendix E.

5.0 FEASIBILITY STUDY / CORRECTIVE ACTION PLAN

5.1 PROPOSED SITE CLEANUP GOALS

Cleanup goals are typically based on one or more of the following criteria:

- California Department of Health Services (DHS) primary or secondary maximum contaminant levels (MCLs) for drinking water,
- Environmental Screening Levels (ESLs) established by the RWQCB,
- Risk-based clean-up levels established by risk assessment or risk-based corrective action (RBCA) analysis,
- Current closure guidelines from the regulatory agencies, such as the California State Water Resources Control Board (SWRCB) criteria for low-risk groundwater cases,
- Application of Best Available Technology based on remediation system operation data that demonstrate asymptotic levels have been achieved for chemical concentrations in soil and/or groundwater,
- Background concentrations of individual pollutants, or
- Technologic and economic feasibility.

As stated above, the RWQCB adopted Resolution 89-39 "Sources of Drinking Water", which defines a "potable" water bearing formation if it can provide sufficient water to supply a single well capable of producing an average, sustained yield of 200 gallons per day. The 2004 DPE pilot test data indicates that the sustained yield of the impacted water-bearing zone is approximately 107 gallons per day or less. The 2005 DPE pilot test data indicates that the sustained yield of the impacted water-bearing zone is approximately 162 gallons per day or less. Based on the rationale of Resolution 89-39, CRA concludes that the impacted water-bearing zone is not suitable for potable water and the RWQCB should consider the groundwater at this site an exception to the general designation of being suitable, or potentially suitable, for municipal or domestic water supply. With this consideration, the San Leandro Channel becomes the primary receptor. CRA's August 25, 2010 letter to ACEH evaluated the calculated possible discharge concentration of COCs to San Leandro Channel, and proposed site-specific ESLs which are protective of ecological receptors. We propose these ESLs as the remediation goals for the site.

5.2 REMEDIAL ALTERNATIVES DISCUSSION AND APPROACH

Excavation, SVE, and SVE/AS have been implemented at this site with varying success. The SVE and SVE/AS systems were operated until reaching their respective cost-effective limits. DPE testing demonstrated the remaining source mass can not be remediated by any means other than excavation. In situ and extraction technologies are limited by the very low permeability soil types, which do not accommodate feasible dispersion or effective mass removal.

Mass transport analyses suggested the calculated possible discharge concentration of COCs to San Leandro Channel, when compared with site-specific ESLs which are protective of ecological receptors, are at acceptable levels.

Given the site conditions and remedial objective, excavation is considered the only feasible source removal method and excavation is not practical while the service station is in operation. Based on the site-specific ESLs presented in CRA's August 25, 2010 letter to ACEH, the calculated possible discharge concentration of COCs to San Leandro Channel, are currently at acceptable levels. As discussed below, CRA recommends MNA as the final remediation option for the site.

5.2.1 MONITORED NATURAL ATTENUATION

Description: MNA consists of allowing hydrocarbons to biodegrade naturally and implementing a long-term groundwater monitoring plan. Biodegradation, adsorption, chemical reactions, and volatilization can all naturally degrade hydrocarbons found in impacted groundwater. MNA is performed by monitoring the natural degradation process that can take place in the subsurface. The primary indicator of the success of natural attenuation is a decrease in the concentration trend. Secondary indicators such as DO concentrations, oxidation-reduction potential, alkalinity, nitrate, sulfate, and ferrous iron concentrations are also used to evaluate the presence of and the potential for natural attenuation.

Feasibility and Cost-Effectiveness: MNA is typically a low-cost alternative if cleanup levels can be met in a reasonable timeframe. DO data suggest anaerobic biodegradation is occurring, which is slower than aerobic biodegradation. As previously discussed, the calculated possible discharge concentration of COCs to San Leandro Channel, are currently at acceptable levels, thus MNA would be the most cost-effective approach.

6.0 CONCLUSIONS

The average, sustained yield of a single well in the impacted water-bearing zone is less than 200 gallons per day, which is below the criteria for potable water. The RWQCB should consider the groundwater at this site an exception to the general designation of being suitable, or potentially suitable, for municipal or domestic water supply. CRA's August 25, 2010 letter to ACEH evaluated the calculated possible discharge concentration of COCs to San Leandro Channel, and proposed site-specific ESLs which are protective of ecological receptors. We propose these ESLs as the remediation goals for the site.

Any residual source mass can not be removed efficiently or cost effectively. Additionally, the apparent risk to receptors does not warrant active remediation.

7.0 RECOMMENDATIONS

Based on the information presented, CRA recommends implementing MNA and continuing semiannual groundwater monitoring following the established monitoring program.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



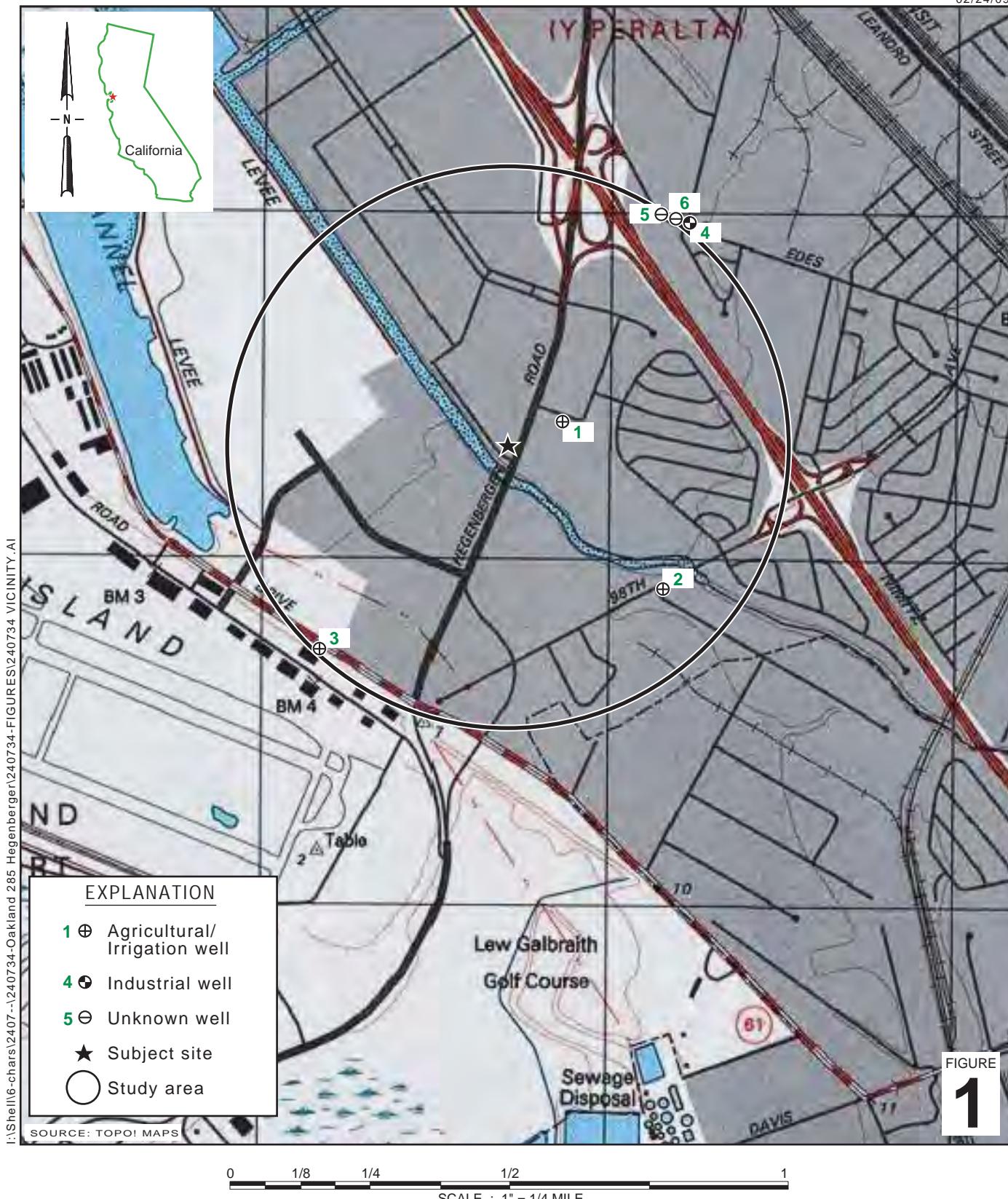
Peter Schaefer, CEG, CHG



Dan Lescure, PE



FIGURES



Shell-branded Service Station

285 Hegenberger Road
Oakland, California



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& ASSOCIATES

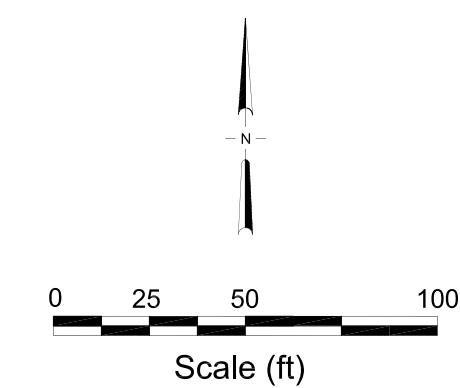
Vicinity Map

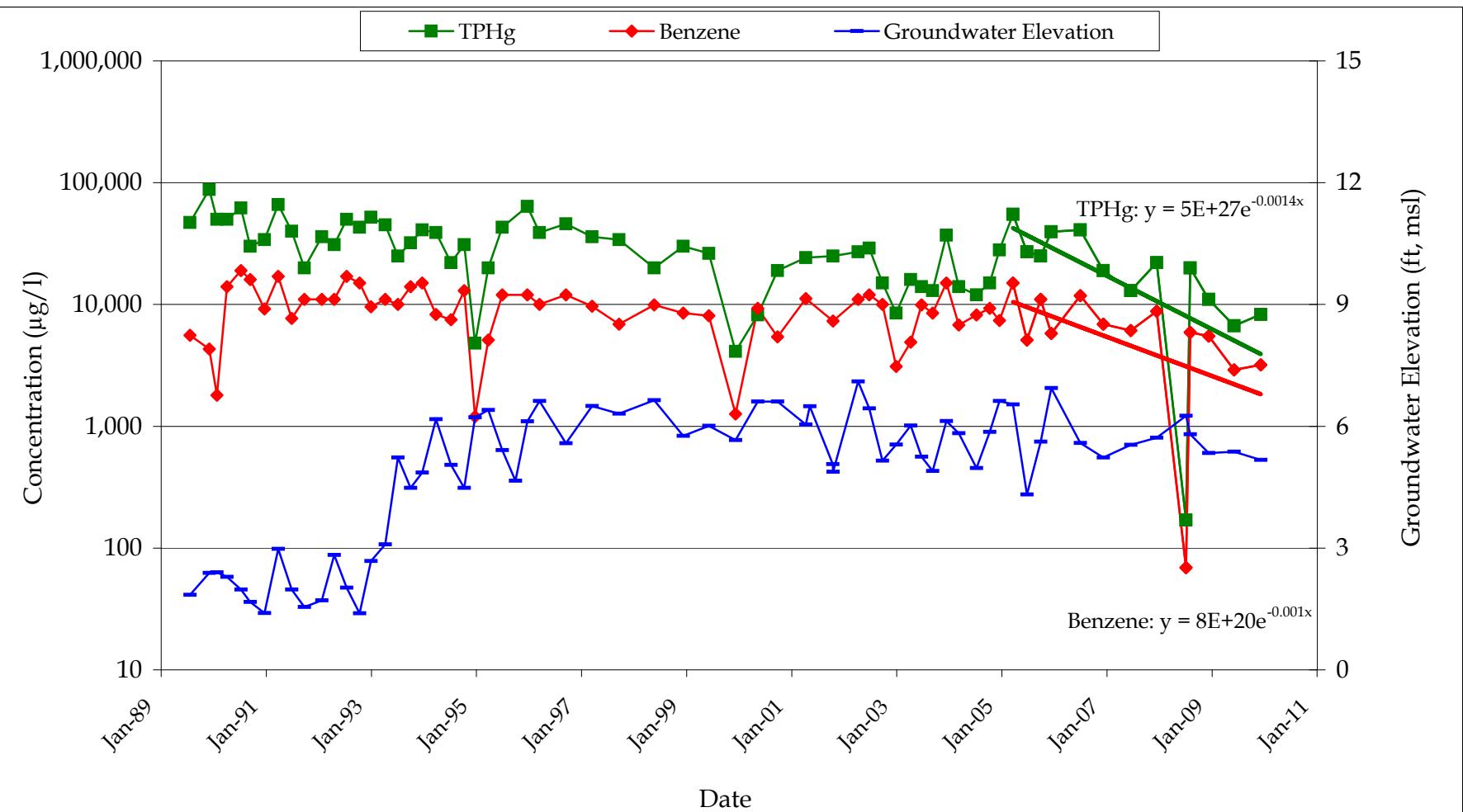
Site Plan

CONFSTOGA-ROVERS
& ASSOCIATESFIGURE
2Shell-branded Service Station
285 Hegenberger Road
Oakland, California

EXPLANATION	
VEW-5/ AS-1	Co-axial vapor and sparge well; air-sparge well not monitored or sampled
MW-1	Groundwater monitoring well location
VEW-1	Soil vapor extraction well
VEW-2	Dual completion air sparging/soil vapor extraction well
VEW-5	Abandoned well location
●	Product dispenser number
SB-1	Soil boring location
D-1	Soil sample location
P-1-5'	Soil sample location
P-7-6.5'	Over-excavation soil sample location
—	Electrical line (E)
—	Gas line (G)
—	Storm drain line (STM)
—	Sanitary sewer line (SAN)
○	Manhole (MH)
□	Utility vault
XX.XX	Groundwater elevation contour, in feet above mean sea level (msl)
Well	Well designation
ELEV.	Groundwater elevation, in feet above msl
Benzene	Benzene and MTBE concentrations are in micrograms per liter
MTBE	

Notes:
 ND = Not detected
 NDa = Elevated reporting limit, see laboratory report for details
 NS = Not sampled

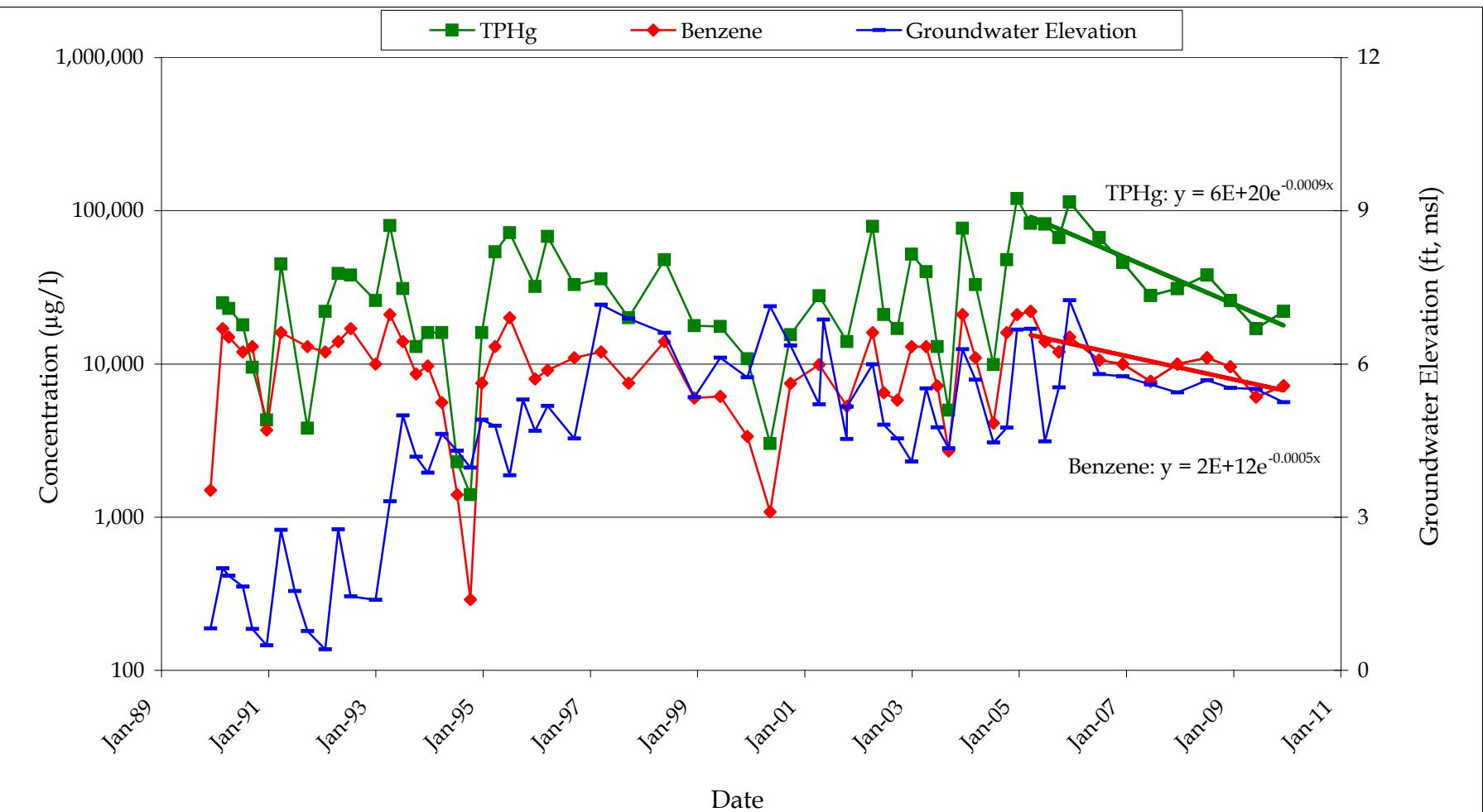




SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



FIGURE 3: MW-9 TPHG AND BENZENE CONCENTRATIONS AND GROUNDWATER ELEVATION VERSUS TIME



SHELL-BRANDED SERVICE STATION
285 HEGENBERGER ROAD
OAKLAND, CALIFORNIA



FIGURE 4: MW-10 TPHG AND BENZENE CONCENTRATIONS AND GROUNDWATER ELEVATION VERSUS TIME

APPENDIX A

SITE HISTORY

SITE HISTORY

1984 Underground Storage Tank (UST) Replacement: In 1984, the on-site USTs were replaced with single-wall fiberglass tanks.

1989 Site Investigations: Between February and November 1989, Converse Environmental West (CEW) installed 10 groundwater monitoring wells (MW-1 through MW-10) and drilled 13 soil borings (SB-1 through SB-13). Up to 31,000 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg) and 14 mg/kg benzene were detected in soil samples. Site investigation results are presented in CEW's quarterly activities reports dated April 10, June 29, September 21, and December 30, 1989.

1990 Off-Site Investigation: During August and September 1990, CEW drilled soil borings SG-1 through SG-17 at the off-site and adjacent property (295 Hegenberger Road) occupied by Rollins Trucking. Up to 4,000 mg/kg TPHg and 22 mg/kg benzene were detected in soil samples. Off-site site investigation results are presented in CEW's September 28, 1990 *Report of Activities - Quarter 3, 1990*.

1991 Soil Gas Survey: In July 1991, CEW conducted a soil gas survey in backfill of a 54-inch storm drain in the south-bound lanes of Hegenberger Road to investigate the presence of hydrocarbons in the City of Oakland utility trench. Up to 62 milligrams per liter (mg/l) TPHg and 0.89 mg/l benzene were detected in samples collected from five soil gas sampling points. Soil gas survey results are presented in CEW's September 30, 1991 *Report of Activities - Quarter 3, 1991*.

1991 Soil Vapor Extraction (SVE) Test: In November 1991, CEW installed one SVE well (VEW-1) and three soil vapor monitoring points (VM-2, VM-3, and VM-4), and conducted a series of short-term SVE tests from VEW-1 at varying extraction flow rates. Vacuum influence was monitored in VM-2, VM-3, VM-4, MW-1, MW-6, and MW-9. The SVE test results indicated a measurable radius of influence of 30 to 35 feet from well VEW-1, with heterogeneous vapor permeability in subsurface soils. Using the average TPHg concentration of 49 ppm (parts per million) observed during the pilot test and an average vapor extraction rate of 80 cubic feet per minute, the hydrocarbon removal rate was estimated to be approximately 14.5 pounds per hour. Detailed results are presented in CEW's January 31, 1992 report, entitled *Results of Soil Vapor Extraction Pilot Test*.

1992 Equipment Removal: In February 1992, Gettler-Ryan Inc. sampled the excavations of the former oil/water separator and at the three former hydraulic lifts. Additional excavation was performed in April and May 1992, and additional samples were collected by Pacific Engineering Group, Inc. (PEG). Post-excavation soil samples contained up to 1,800 mg/kg TPHg, 7,600 mg/kg total petroleum hydrocarbons as diesel (TPHd), 6,800 mg/kg total oil and grease (TOG), and 1.9 mg/kg benzene. The laboratory noted that the positive results for TPHd appear to be a combination of heavier and lighter hydrocarbons, rather than diesel. Grab groundwater samples were collected from one of the hydraulic lift excavations and a canopy footing excavation. Up to 88,000 micrograms per liter ($\mu\text{g/l}$) TPHg and 18,000 $\mu\text{g/l}$ benzene were detected in the grab groundwater samples. Equipment removal activities are documented in PEG's July 17, 1992 report.

1993 Site Investigation: In June 1993, PEG installed of three groundwater monitoring wells (MW-11 through MW-13) and four dual-completion SVE/AS wells (VEW-2 through VEW-5). Soil samples collected from groundwater monitoring well borings did not contain petroleum hydrocarbon constituents with the exception of 0.008 mg/kg toluene in MW-11 at 5.5 feet below grade (fbg). Soil samples from the SVE/AS well borings contained up to 1,900 mg/kg TPHg, 560 mg/kg TPHd, and 6.4 mg/kg benzene. The laboratory noted that the compounds detected and calculated as TPHd are due to a non-diesel mix. Investigation results are presented in PEG's November 5, 1993 report.

1993 to 1995 SVE System Operation: PEG operated an SVE system between August 1993 and February 1995. System operation was discontinued due to negligible hydrocarbon removal. The SVE system extracted soil vapors from wells VEW-1 through VEW-5. The SVE system removed approximately 707 pounds of TPHg and 6.9 pounds of benzene. PEG's November 11, 1993 system installation report and February 9, 1995 and June 20, 1995 quarterly reports present details of the system operations.

1995 Well Destruction: On September 14, 1995, PEG destroyed well VEW-5 by over-drilling to accommodate car wash construction. Well destruction details are presented in PEG's October 25, 1995 *Quarterly Report - Third Quarter 1995*. Following car wash construction, PEG could not locate wells MW-5 and MW-7.

1998 UST and Dispenser Upgrade: In July 1998, Paradiso Mechanical, Inc. (Paradiso) upgraded UST and dispenser equipment. On July 30, 1998, Cambria

collected soil samples from beneath the dispensers. Up to 790 mg/kg TPHg, 400 mg/kg TPHd, and 2.0 mg/kg benzene were detected in the soil samples. Cambria Environmental Technology, Inc.'s (Cambria's) October 13, 1998 *Dispenser Soil Sampling Report* presents results.

1999 Utility Survey, Site Investigation, and SVE Test: Cambria conducted a utility survey which identified sanitary sewers run beneath the southern corner of the site and a 54-inch storm drain runs parallel to the southeast property line under the southwest-bound lanes of Hegenberger Road.

In March 1999, Cambria drilled three soil borings (SB-1 through SB-3) adjacent to down-gradient utility lines. The borings were located between the site and a 54-inch storm drain running along the westbound lanes of Hegenberger Road. Up to 43.3 mg/kg TPHg and 35.8 mg/kg TPHd were detected in soil samples. No benzene or methyl tertiary-butyl ether (MTBE) was detected in soil samples. Up to 16,500 µg/l TPHg, 5,080 µg/l TPHd, 268 µg/l benzene, and 180 µg/l methyl tertiary-butyl ether were detected in grab groundwater samples. Soil boring and groundwater monitoring data suggest that either the storm drain intercepts and diverts groundwater flow or the plume has stabilized before it reaches the down-gradient monitoring wells. The mass transport of contaminants of concern within the utility corridors was estimated using a protocol established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) for a similar situation at the San Francisco International Airport. The discharge concentrations were estimated at 23 µg/l benzene and 13 µg/l MTBE which are below RWQCB environmental screening levels (ESL) for estuarine environments (Table F-2c of the ESL document).¹ The discharge concentration for TPHg was estimated at 2,680 µg/l, which exceeds the ESL for TPHg.

In November 1999, Cambria performed short-term SVE testing of four existing SVE wells (VW-1 through VW-4) for approximately 2 hours each, followed by a long-term test of wells VW-1 and VW-4 for approximately 5 days. Granular activated carbon (GAC) was used for vapor abatement. Influent concentrations ranged from 259 to 1,410 parts per million by volume (ppmv) TPHg, 2.3 to 32.3 ppmv benzene, and 3.47 to 129 ppmv MTBE. During short-term testing, vapor extraction flow rates ranged from 0 to 26 standard cubic feet per minute (scfm) per well based on applied vacuum ranging from 45 to 60 inches of water, resulting in a TPHg removal rate of 0.95 to 2.1 pounds per day per well. During

¹ *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final – November 2007 [Revised May 2008]*

long-term testing, vapor extraction flow rates ranged from 18.0 to 22.7 scfm (combined extraction from wells VW-1 and VW-4). The TPHg removal rate during the long-term test ranged from 2.13 to 5.95 pounds per day. The total estimated constituents of concern mass removed during SVE testing were 18.7 pounds TPHg, 2.3 pounds MTBE, and 0.97 pounds benzene.

Cambria's May 12, 2000 *Subsurface Investigation Report and Vapor Extraction Test Report* presents the results of the off-site soil borings and on-site SVE testing.

2000 SVE/Air Sparge (AS) Well Installation: In June 2000, Cambria installed three additional co-axial SVE/AS wells (VEW-5/AS-1, VEW-6/AS-2, and VEW-7/AS-3) along the southeast side of the site to facilitate remediation. Up to 1,800 mg/kg TPHg, 2.93 mg/kg MTBE and 13.2 mg/kg benzene were detected in soil samples. Cambria's September 12, 2000 *Soil Vapor and Air Sparge Well Installation Report* details the remediation well installation.

SVE/AS 2002-2003: Between March 2002 and February 2003, Cambria operated a SVE/AS system, using wells VEW-5/AS-1, VEW6/AS-2, and/or VEW-7/AS-3. The system was shut down in February 2003 due to declining TPHg, MTBE, and benzene influent concentrations, corresponding to negligible hydrocarbon removal rates. During operation, vapor extraction flow rates ranged from 4.7 to 39.4 scfm. The TPHg removal rate ranged from 0.0 to 0.49 pounds per hour. The SVE/AS system removed an estimated total 99.3 pounds TPHg, 0.18 pounds MTBE, and 0.48 pounds benzene. Cambria presented SVE/AS system analytical and operational data in the quarterly monitoring reports corresponding to the period of operation.

2004 Well Survey: In March 2004, Cambria conducted a well survey of available agency records. Cambria reviewed California State Department of Water Resources well logs and the California State Water Resources Control Board Geotracker system data and identified six water-producing wells within a ½-mile radius of the site. Three wells were identified as being used for agricultural/irrigation use, one was for industrial use, and two were of unidentified use. The well survey results were presented in Cambria's April 16, 2006 *Site Conceptual Model*.

2004 Fuel System Upgrade and Over-Excavation: In June and July 2004, Paradiso upgraded fuel dispensers and piping. Paradiso upgraded under-dispenser containment to the dispenser locations adjacent to product, vapor, and vent lines. Paradiso also removed and replaced all fuel and vent piping from the

dispensers to the UST complex and installed enhanced vapor recovery equipment on the UST fuel fill port sumps. On June 29, 2004, Cambria collected nine soil samples (P-1-5' through P-5-5' and D-1-5' through D-4-5') from beneath the dispensers and product piping at approximately 5 fbg. Up to 7,200 mg/kg TPHg, 1,800 mg/kg TPHd, 3.3 mg/kg benzene, and 40 mg/kg MTBE were detected in the compliance soil samples.

Following over-excavation of the piping trenches, on July 6, 2004 Cambria collected seven additional soil samples (P-6-6.5' through P-12-6.5') from approximately 6.5 fbg. Up to 6,500 mg/kg TPHg, 170 mg/kg TPHd, 3.6 mg/kg benzene, and 21 mg/kg MTBE were detected in the over-excavation soil samples. Cambria's August 4, 2004 *Dispenser and Piping Upgrade Sampling Report* presents the results of fuel system upgrade activities.

2004 Dual-Phase Extraction (DPE) Test: In November, 2005, Cambria conducted a DPE test from wells MW-1, MW-9, and MW-10.

Table A						
Well	Test Hours	Average Flow Rate (SCFM)	Induced Vacuum (Inches of Water)	Estimated TPHg Mass Removal (Pounds)	Estimated Benzene Mass Removal (pounds)	Estimated MTBE Mass Removal (Pounds)
MW-10	163.2	6.6	90.1-218.1	93.6	1.37	0.389
MW-9	25.4	2.4	23.8-191.7	0.009	0.0002	0.000003
MW-1	24.4	5.0	26.5-199.1	4.38	0.068	0.004

Vacuum influence was monitored, but not detected, in surrounding wells. The groundwater yield during this test was low, totaling approximately 950 gallons during 213 hours of DPE. Cambria's March 31, 2005 *Interim Remediation Report* presents detailed results this DPE test.

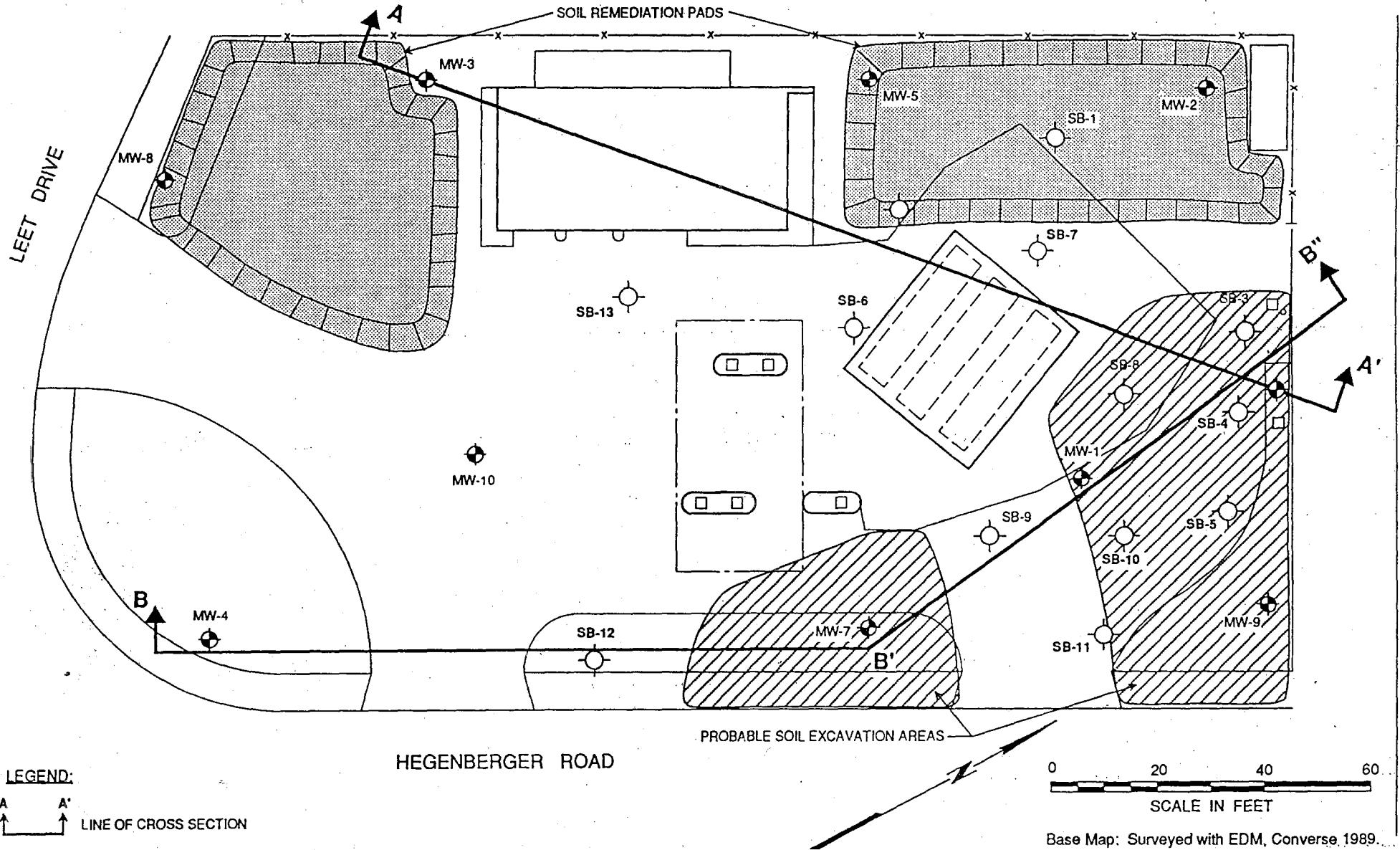
2005 DPE Test: In April 2005, Cambria conducted an additional DPE test from well MW-10. During 148.5 hours of DPE from well MW-10, an average flow rate of approximately 11.9 scfm was obtained with a measured wellhead vacuum level ranging from 6.5 to 233.0 inches. An estimated 2.19 pounds TPHg, 0.157 pounds benzene, and 0.425 pounds were removed from well MW-10 during the test. Vacuum influence was monitored in surrounding wells, but was either minimal or not detected. A total of approximately 1,000 gallons of groundwater was extracted during 148.5 hours of DPE, for an average extraction

rate of 0.11 gallons per minute (gpm). Cambria's June 30, 2005 *Additional Interim Remediation Report* presents the results of this DPE test.

1989-Present Groundwater Monitoring: Groundwater has been monitored on site since February 1989. As approved in Alameda County Environmental Health's January 21, 2010 letter, groundwater monitoring frequency has been reduced to annual events. During the most recent groundwater monitoring event on January 4, 2010, maximum concentrations of 22,000 µg/l TPHg, 2,500 µg/l TPHd, 7,200 µg/l benzene, 810 µg/l MTBE and 2,600 µg/l TBA were detected in monitoring well MW-10.

APPENDIX B

CROSS SECTIONS AND EXPLORATORY BORING LOGS



Base Map: Surveyed with EDM, Converse 1989.

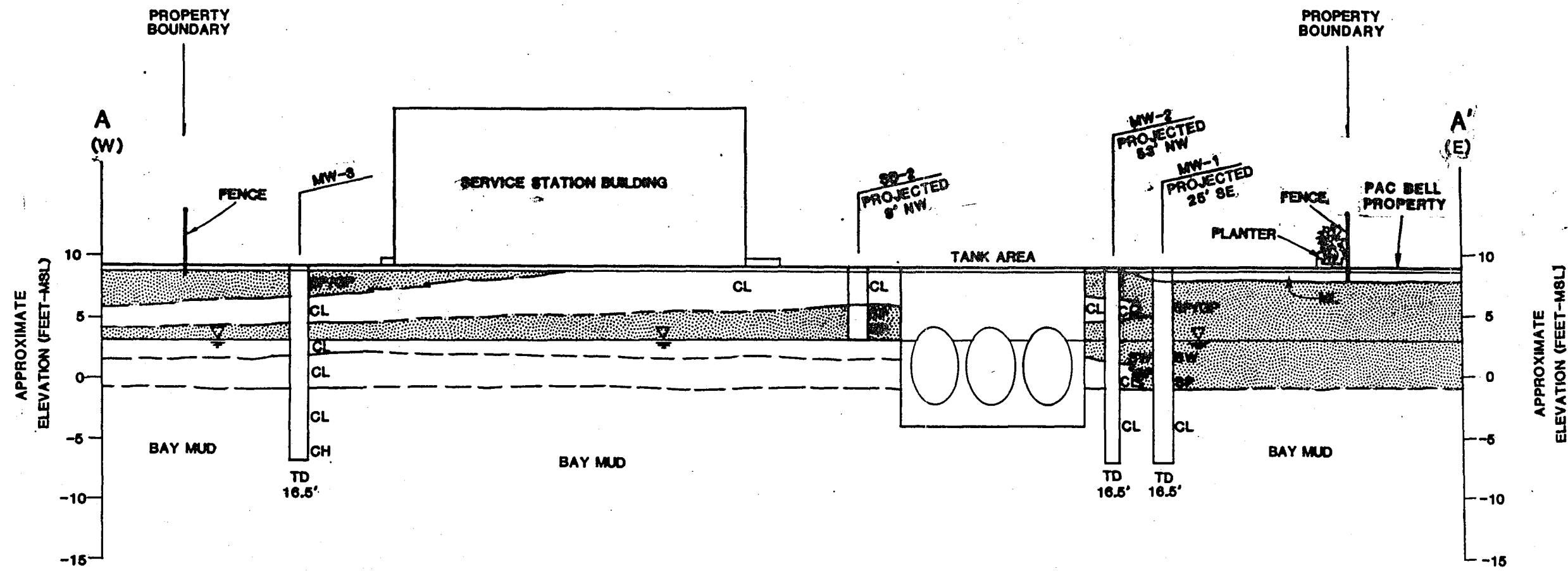
PROPOSED SOIL EXCAVATION

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Scale	Project No.
AS SHOWN	88-44-359-01
Prepared by	Date
LQL	12-30-89
Checked by	Drawing No.
RMB	12
Approved by	DWC



Converse Environmental West

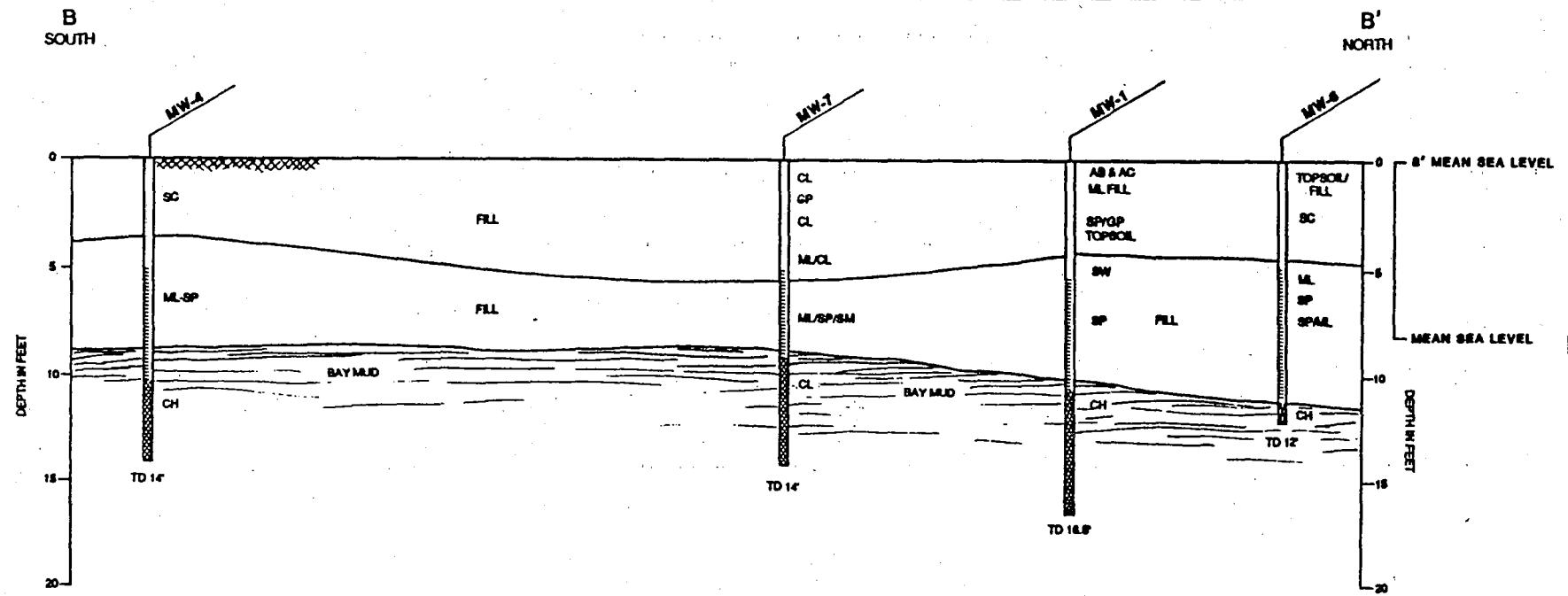


SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California



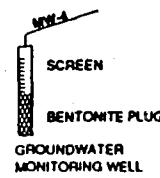
Converse Environmental Consultants California

Scale	AS SHOWN	Project No.
Date	3/22/89	88-44-359-01
Prepared By	KGC	Drawing No.
Checked By	REH	
Approved By		



LEGEND

	ASPHALT/CONCRETE
	FILL: CL ML GP/MG/C SP/MS/SC
	BAY MUD



0 20 40

SCALE FEET

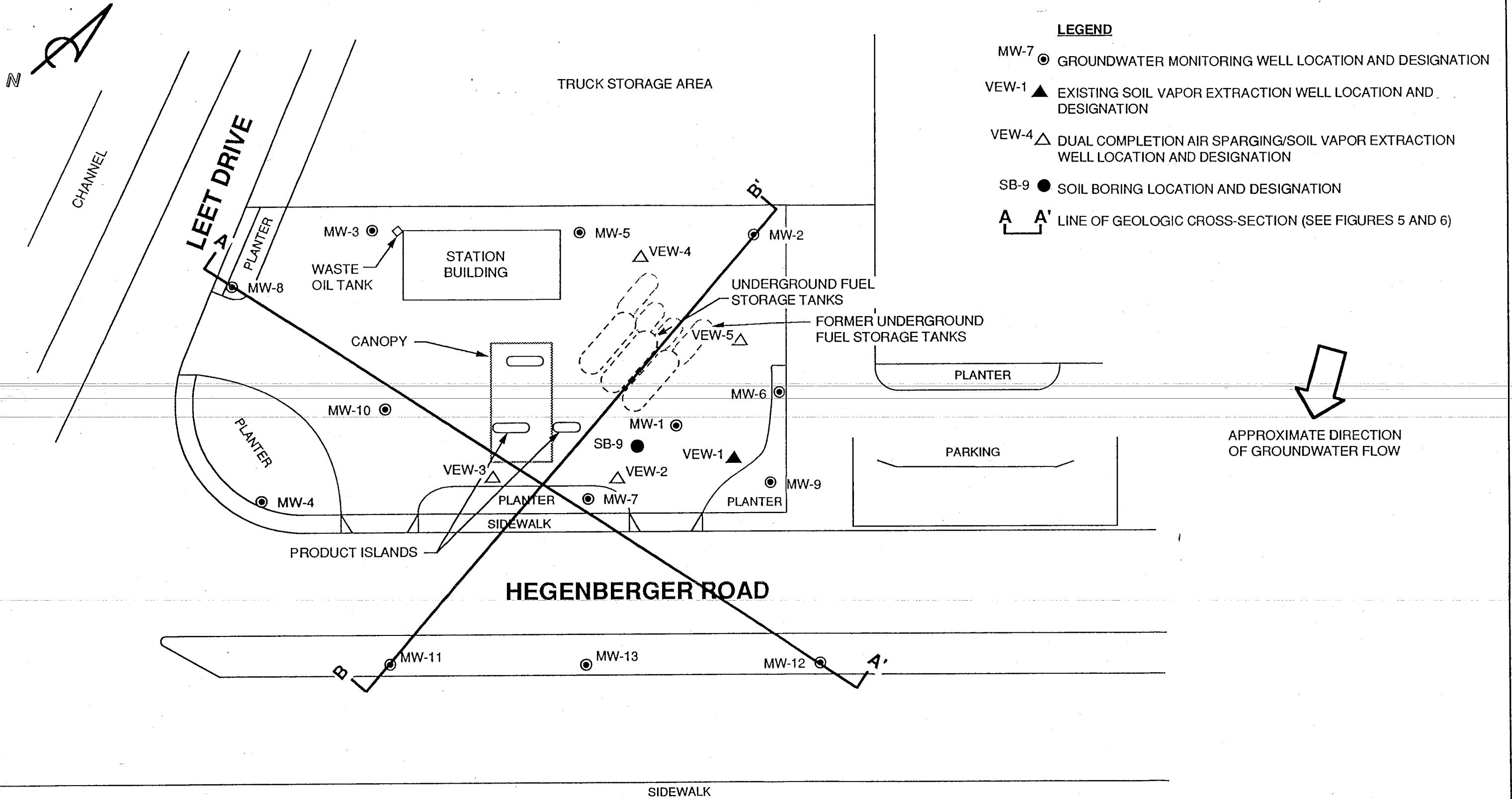
CROSS SECTION B-B'

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Scale	AS SHOWN	Project No.
Date	6/2/89	88-44-356-01
Prepared By	KOC/CRB	Drawing No.
Checked By	PMB	14
Approved By	DWC	



Converse Environmental Consultants California



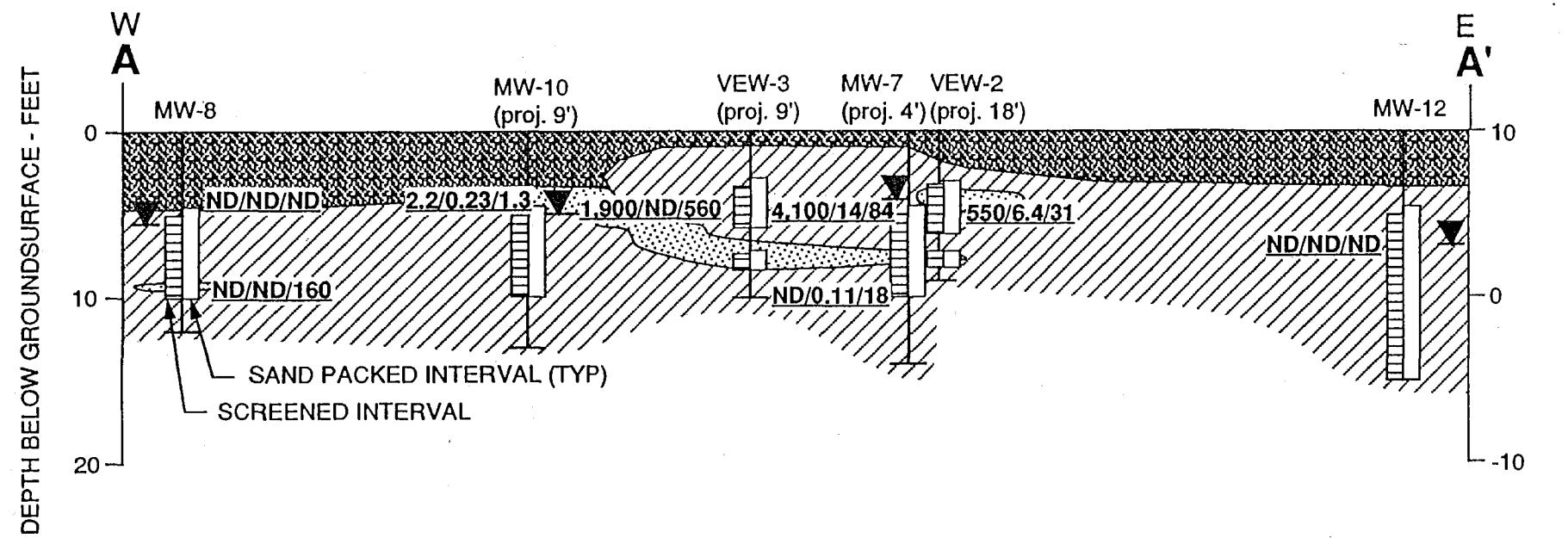
PACIFIC
ENVIRONMENTAL
GROUP, INC.

SCALE
0 40 80 FEET

SHELL SERVICE STATION
285 Hegenberger Road at Leet Drive
Oakland, California

SITE MAP

FIGURE:
2
PROJECT:
305-79.01



LEGEND

- [Hatched Box] ARTIFICIAL FILL
- [Diagonal Hatching] PRIMARILY FINE GRAINED DEPOSITS - SILTS AND CLAYS
- [Cross-hatching] PRIMARILY COARSE GRAINED DEPOSITS - SANDS AND GRAVELS
- MW-8 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- VEW-2 DUAL COMPLETION AIR SPARGING/SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
- proj PROJECTED ONTO LINE OF SECTION IN FEET
- ▼ STATIC WATER LEVEL, 7-20-93
- 550/6.4/31 TPH-g/BENZENE/TPH-d CONCENTRATION IN SOIL, IN PARTS PER MILLION, 7-13-89 to 6-10-93
- ND NOT DETECTED
- NA NOT ANALYZED



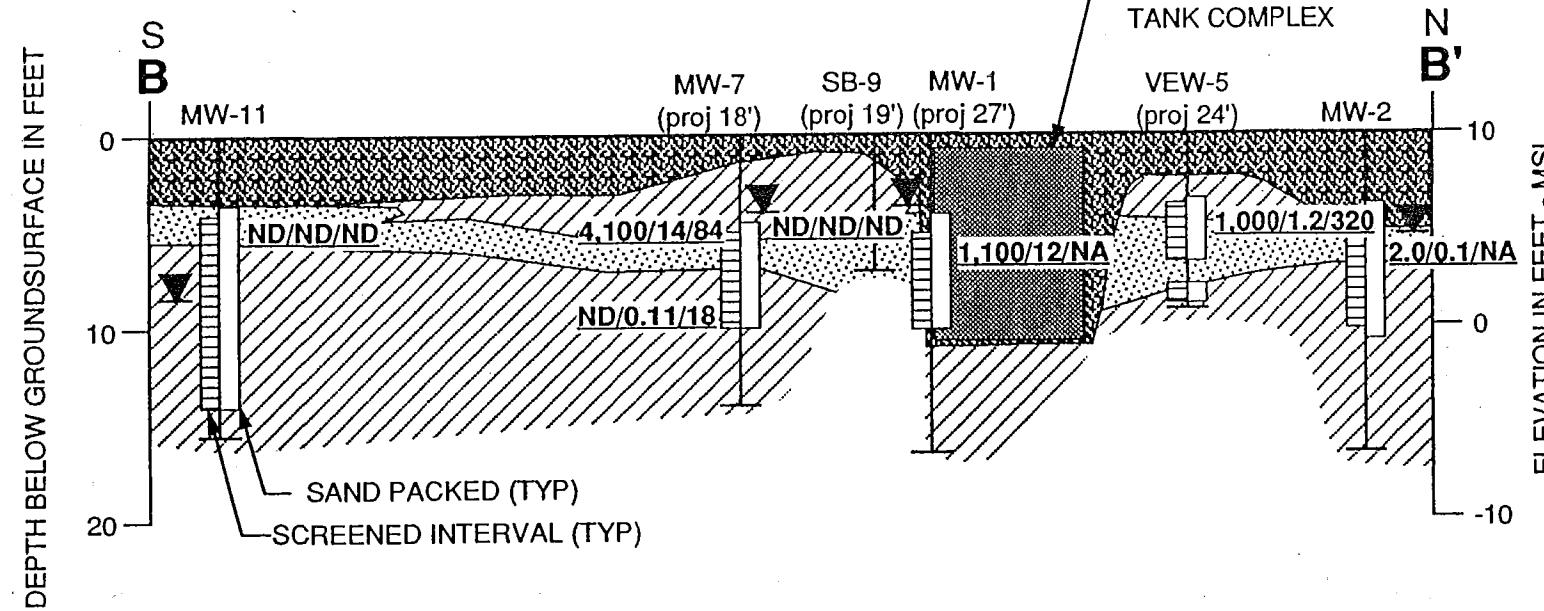
PACIFIC
ENVIRONMENTAL
GROUP, INC.

SCALE
HORIZONTAL : 1" = 40'
VERTICAL : 1" = 10'

SHELL SERVICE STATION
285 Hegenberger Road at Leet Drive
Oakland, California

GEOLOGIC CROSS-SECTION A-A"

FIGURE:
3
PROJECT:
305-79.01



PACIFIC
ENVIRONMENTAL
GROUP, INC.

SCALE
HORIZONTAL : 1" = 40'
VERTICAL : 1" = 10'

SHELL SERVICE STATION
285 Hegenberger Road at Leet Drive
Oakland, California
GEOLOGIC CROSS-SECTION B-B'

FIGURE:
4
PROJECT:
305-79.01

Table 1. Existing Well Data, Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Name	Type/ Drilling Method	Date Installed	TOC ¹ (ft msl)	Total Boring Depth (fbg)	Soil Sample Interval (ft)	First Encountered GW Depth (fbg)	Elev (ft msl)	Screen Diam. (in)	Screen Depth (fbg) Top	Bottom	Comments
MW-1	Monitoring Well/HSA	14-Feb-89	9.37	16.5	5	6	3.37	4	5	10	
MW-2	Monitoring Well/HSA	15-Feb-89	10.07	16.5	5	6	4.07	4	5	10	
MW-3	Monitoring Well/HSA	14-Feb-89	10.58	16.5	5	6	4.58	4	5	10	
MW-4	Monitoring Well/HSA	28-Apr-89	9.83	14	5	7	2.83	4	5	10	
MW-6	Monitoring Well/HSA	28-Apr-89	9.14	12	5	5.5	3.64	4	5	10	
MW-8	Monitoring Well/HSA	28-Apr-89	-	12	5	9	-	4	5	10	
MW-9	Monitoring Well/HSA	13-Jul-89	10.04	10.5	5	6	4.04	4	5	10	
MW-10	Monitoring Well/HSA	16-Nov-89	9.78	13	5	6.5	3.28	4	5	10	
MW-11	Monitoring Well/HSA	8-Jun-93	10.06	15.5	5	8.5	1.56	4	4	14	
MW-12	Monitoring Well/HSA	8-Jun-93	9.09	15.5	5	8.5	0.59	4	5	15	
MW-13	Monitoring Well/HSA	10-Jun-93	9.62	15.5	5	8.5	1.12	4	5	15	
VEW-1	Vapor Ext. Well/HA	21-Nov-91	-	7	5	6	-	4	3.5	6.5	
VEW-2	Vapor Ext. Well/HSA	9-Jun-93	8.87	8.5	5	4.5	4.37	2	3.5	6.5	
VEW-2	Sparge Well/HSA	9-Jun-93	-	8.5	5	4.5	-	2	7.5	8.5	
VEW-3	Vapor Ext. Well/HSA	9-Jun-93	9.21	10	5	4.5	4.71	2	3.5	6.5	
VEW-3	Sparge Well/HSA	9-Jun-93	-	10	5	4.5	-	2	7.5	8.5	
VEW-4	Vapor Ext. Well/HSA	9-Jun-93	9.26	9.5	5	5	4.26	2	3.5	6.5	
VEW-4	Sparge Well/HSA	9-Jun-93	-	9.5	5	5	-	2	8	9	
VEW-5	Vapor Ext. Well/HSA	28-Jun-00	8.79	10	5	4	4.79	4	3	10	
AS-1	Sparge Well/HSA	-	-	15	-	-	-	2	13	15	
VEW-6	Vapor Ext. Well/HSA	28-Jun-00	9.22	10	5	4	5.22	4	3	10	
AS-2	Sparge Well/HSA	-	-	15	-	-	-	2	13	15	
VEW-7	Vapor Ext. Well/HSA	28-Jun-00	9.43	10	5	4	5.43	4	3	10	
AS-3	Sparge Well/HSA	-	-	15	-	-	-	2	13	15	

Abbreviations:

HSA = Hollow stem auger

Ext. = Extraction

HA = Hand auger

TOC = Top of casing

ft msl = Feet referenced to mean sea level

fbg = Feet below grade

ft = Feet

in = Inches

GW = Groundwater

Table 1. Existing Well Data. Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Name	Type/ Drilling Method	Date Installed	TOC ¹ (ft msl)	Total Boring Depth (fbg)	Soil Sample Interval (ft)	First Encountered GW Depth (fbg)	Elev (ft msl)	Screen Diam. (in)	Screen Depth (fbg) Top	Bottom	Comments
Diam. = Diameter											
1. TOC elevations from October 11, 2005 monitoring well survey report, Virgil Chavez Land Surveying.											

305-79.01

TABLE 1. SOIL BORING INFORMATION

**Shell Oil Company Facility
285 Hegenberger Road
Oakland, California**

Boring No.	Date Drilled	Total Depth (ft bgs)	Completion	Unsaturated Soil Samples (ft bgs)	Saturated Soil Samples (ft bgs)	Highest OVM Reading (ppm)
SB-1	02/89	6.5	2/89	4	None	NM
SB-2	02/89	6.0	2/89	5	None	NM
SB-3	5/24/89	5.0	5/24/89	2,4	None	1030 @ 3.5'
SB-4	5/24/89	4.0	5/24/89	2,4	None	780 @ 4'
SB-5	5/24/89	5.0	5/24/89	2	None	0
SB-6	7/13/89	7.0	7/13/89	None	None	200 @ 7'
SB-7	7/13/89	6.0	7/13/89	None	None	NM
SB-8	7/13/89	6.5	7/13/89	4	None	260 @ 5'
SB-9	7/13/89	7.0	7/13/89	4	None	280 @ 4.5'
SB-10	7/13/89	6.5	7/13/89	4	None	500 @ 3.5'
SB-11	7/13/89	6.5	7/13/89	4	None	280 @ 4.4'
SB-12	11/16/89	9.0	11/16/89	5,7	None	0
SB-13	11/16/89	7.0	11/16/89	5	None	215 @ 5'

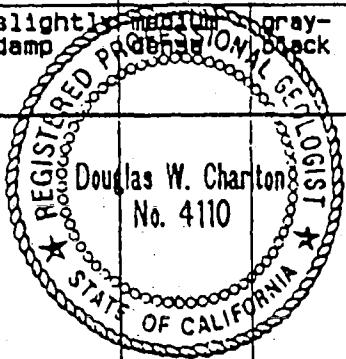
NOTES:

NM Sample not taken, in underground storage tank gravel backfill
 ft bgs Not Measured
 OVM Feet below ground surface
 ppm Organic vapor meter
 Part per million

Site: 204-5508-5504
 Proj Rem. Rpt. Bill
 1 2 3 4 5 6

LOG OF BORING NO. MW-1

DATE DRILLED: 2/14/89		ELEVATION		ML TAKEN 2-14-89		EQUIPMENT: Hollow Stem Auger					
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	TOTAL PETROLEUM HYDROCARBONS mg/kg	TESTS
				hard			0-2" ASPHALT, 2"-12" BASE ROCK				
				dry	firm	brown to black	SANDY SILT ML				
							CLAYEY SAND and GRAVEL SP/GP (Fill)				
5	D			wet	loose	gray-black	CLAYEY fine SAND SN (Bay Mud) Some gasoline odor				
10	D			moist	soft to medium	gray-black	CLAY (Bay Mud) CH No gasoline odor				
15	D			slightly damp	medium	gray-black	SANDY CLAY CH/CL Trace of gravel				
20							Bottom of Hole at 16.5 ft.				



SHELL OIL COMPANY
258 Hegenberger Road
Oakland, California

Project No.

88-44-359-01

Drawing No.

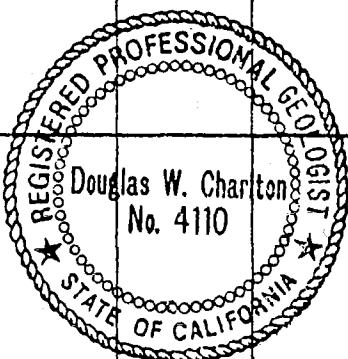
A-3



Converse Environmental Consultants California

LOG OF BORING NO. MW-2

DATE DRILLED: 2/15/89		ELEVATION:		WL TAKEN: 2-15-89	EQUIPMENT: Hollow Stem Auger					
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	TOTAL PETROLEUM HYDROCARBONS mg/kg	TESTS
				hard			0-2" ASPHALT; 2-6" BASEROCK			
				dry	medium dense	brown	SILTY SAND and GRAVEL SM/GM (Fill)			
				slightly damp	soft to medium	gray	SANDY CLAY (Fill) CL			
5	D			wet	soft	dark gray	CLAYEY SAND (Bay Mud) SP/CL Trace of gravel			
							SANDY CLAY (Bay Mud) CL			
10	D			moist	soft, firmer with depth	gray	CLAY (Bay Mud) CH			
							SANDY CLAY			
15	D									
							Douglas W. Charlton No. 4110			
							Bottom of Hole at 16.5 ft.			
20										



SHELL OIL COMPANY
258 Hegenberger Road
Oakland, California

Project No.

88-44-359-01

Drawing No.

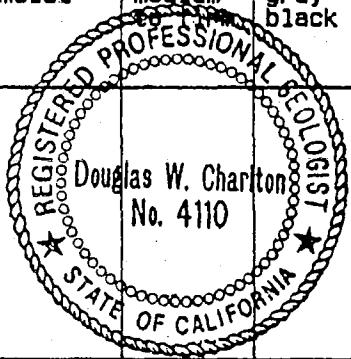
A-4



Converse Environmental Consultants California

LOG OF BORING NO. MW-3

DATE DRILLED: 2/14/89		ELEVATION:		WL TAKEN: 2-14-89		EQUIPMENT: Hollow Stem Auger				
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	TOTAL PETROLEUM HYDROCARBONS mg/kg	TESTS
					hard		0-2" ASPHALT; 2-12" BASE ROCK			
				moist	medium dense	brown to black	CLAYEY SAND and GRAVEL (Fill)	SP/GP		
5	D			moist	soft	brown	SILTY SAND and GRAVEL (Fill)	SW/GP	CH	
				wet	soft	black	CLAYEY SAND (Fill)	CL		
							SILTY CLAY (Bay Mud) Some fine sand			
10	D			sat.	soft, firmer with depth		CLAY (Bay Mud)	CH		
15	D			moist	medium	gray-black				
20-							Bottom of Hole at 16.5 ft.			



SHELL OIL COMPANY
258 Hegenberger Road
Oakland, California

Project No.

88-44-359-01

Drawing No.

A-5



Converse Environmental Consultants California

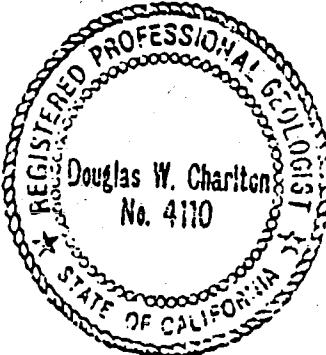
LOG OF BORING NO. MW-4

DATE DRILLED: 4/28/89		ELEVATION:		WL TAKEN: 4-28-89		EQUIPMENT: Hollow Stem Auger						
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	B.DNS/FT.	T.P.H kg/kg	TESTS
			O O O O	moist	medium	brown	Import Top Soil					
				moist	medium	brown	CLAYEY SAND and rock fragment (Fill) SC					
0				moist	medium	brown-gray	Mix SILTS and SANDS Trace dry Bay Mud ML-SM			7		
5				very moist			Lenses and pockets silts, sand, clayey silt, trace organics			12		
0				wet			Lenses and layers of silts, fine sands			3		
0				very moist	soft	light gray	BAY MUD CH			1		
10						dark gray	Calcareous, trace vertical organics			8		
0					medium							
0					stiff					20		
				gray	Calcareous SILTY CLAY CL							
15							Bottom of Hole at 14 ft.					
20												

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



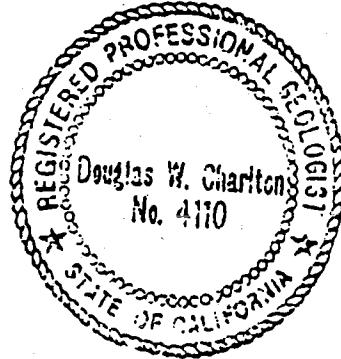
Converse Environmental Consultants California

Drawing No.

A-1

LOG OF BORING NO. MW-5

DATE DRILLED: 4/27/89		ELEVATION: N/A		WL TAKEN: 4-27-89		EQUIPMENT: Hollow Stem Auger						
DEPTH (ft)	SAMPLE #	WATER LEVEL	SAMPLE SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	T.P.H. Ng/Kg	TESTS
				slightly moist			ASPHALT: 1-1/2", base: 6"					
					medium dense	light brown to yellow-brown	CLAYEY SAND Little rock fragments		SC			
				slightly moist	stiff	gray	SILTY CLAY Pocket of bay mud		CL			
0				slightly moist	medium dense	brown	Fine to coarse SAND		SP			
5							Layer coarse sand to pea gravels			23		
0				wet			Lenses fine to medium sand			8		
7				very moist	soft	gray	CLAYEY SILT		ML			
0				wet			Sand lens					
							CLAYEY SILT					
							Fine sandy silt					
10							SILTY CLAY (Bay Mud)		CH			
0							Trace vertical organics					
10							Trace of calcareous SILTY CLAY					
0												
15							Bottom of Hole at 14 ft.					
20												



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



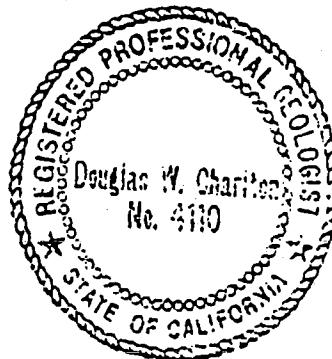
Converse Environmental Consultants California

Drawing No.

A-2

LOG OF BORING NO. MW-6

DATE DRILLED: 4/28/89		ELEVATION: N/A		WL TAKEN: 4-28-89		EQUIPMENT: Hollow Stem Auger						
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	T.P.H kg/kg	TESTS
			O O O O O O O O O	moist	loose	brown	Import Top Soil					
				moist	loose	yellow-brown	CLAYEY SAND and rock fragments Trace cobble size fragments		SC			
							Sandy clay, trace rock fragments					
0				very moist	soft	gray	CLAYEY SILTS		ML	23		
-0							Layer pea gravel possible floating product					
-0							Fine to medium sand					
-0							Layer coarse sand, pea gravel					
-0							Fine to medium SAND		SM			
5												
-0												
-0												
10				wet			Clayey silt, trace fine sands					
-0												
-0							Fine sandy silts					
-0												
							Bay Mud, trace organics		CH			
							Bottom of Hole at 12 ft.					
15										10		
20												



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



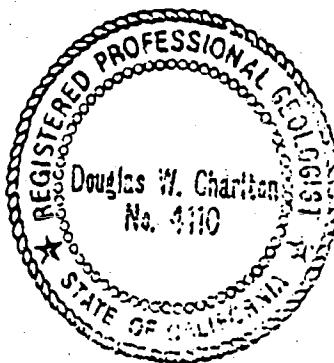
Converse Environmental Consultants California

Drawing No.

A-3

LOG OF BORING NO. MW-7

DATE DRILLED: 4/27/89		ELEVATION: N/A		WL TAKEN: 4-27-89		EQUIPMENT: Hollow Stem Auger						
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	T.P.H Kg/Kg	TESTS
				very moist	stiff	brown	SILTY CLAY (Fill)	CL				
				wet	stiff		Zone of coarse size rock fragment	GP				
				very moist	stiff	black	SILTY CLAY Mix with sandy clays	CL				
						gray-brown						
5				very moist	soft to medium	gray	SILT & SAND, SILTY CLAY Strong odor	ML-CL		5		
				wet			Fine SANDY SILT	ML				
				v. moist			Fine SANDY SILT to fine SAND Trace silt			9		
				wet		dark gray	CLAYEY SILT	ML				
				very moist to wet		brown	Bay Mud, some peat. Grades CH to Bay Mud					
						dark gray				2		
10						gray	Calcareous SILTY CLAY Trace vertical organics	CL		10		
15							Bottom of Hole at 14 ft.					
20												



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01

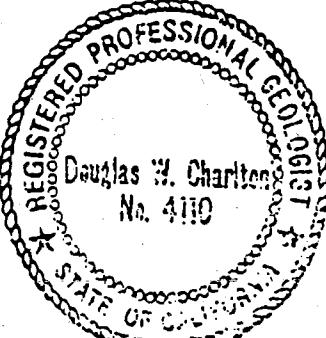
Drawing No.

A-4



Converse Environmental Consultants California

LOG OF BORING NO. MW-8

DATE DRILLED: 4/28/89		ELEVATION		WL TAKEN: 4-28-89		EQUIPMENT: Hollow Stem Auger					
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WEIL CONSTRUCTION	BLOWS/FT.	T.P.H kg/kg	TESTS
0				moist	medium	brown	Import Top Soil CL Silt and Clay with fine Sand	CL			
5				moist	medium dense	yellow-brown	CLAYEY SAND SC With rock fragments (Fill)	SC			
10						brown	SANDY CLAY With rock fragments (Fill)				
15				moist	medium dense	gray	CLAYEY SILT ML	ML	11		
20							Pockets and lenses of silts, fine sands, and clayey silts				
0				wet	loose	dk. gray	SILTY Fine SAND SM	SM			
10				wet	soft	gray	BAY MUD CH Trace organics	CH	5		
20						dark gray			5		
							Bottom of Hole at 12 ft.				
											

SHELL OIL COMPANY
258 Hegenberger Road
Oakland, California.

Project No.

88-44-359-01

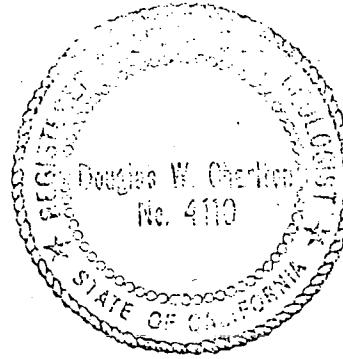


Converse Environmental Consultants California

Drawing No.

A-5

LOG OF BORING NO. MW-9

DATE DRILLED: 7-13-89		ELEVATION:		ML TAKEN: 7-13-89		EQUIPMENT: 6-1/4"x 10" Hollow Auger					
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	O.V.M. (ppm)	T.P.H. (ppm)
							Crush ROCK 2" Plastic, (topsoil)				
				slightly moist to moist	medium	brown	Silty CLAY Clayey SILT ML/CL (topsoil)				
				moist	stiff	gray	Silty CLAY	CL			
1				s. moist	medium	light gray	Clayey SILT Strong odor	ML	7	320	
5				moist		gray	Fine Sandy SILT	ML	8	460	
2	▼			wet			Silty SAND				
3			wet	mottled gray			Bay Mud (tidial zone) CH/OH	CH/OH	6	112	
4							Trace calcareous with depth		5	40	
10							Bottom of Hole at 10.5 ft.				
15											
20											

Project No.

88-44-359-01

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Drawing No.

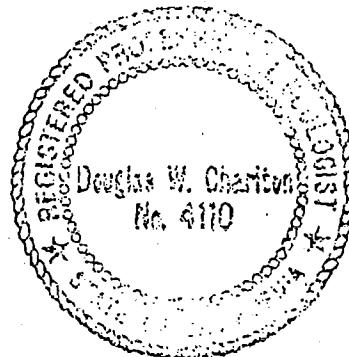
A-7



Converse Environmental Consultants California

LOG OF BORING NO. MW-10

DATE DRILLED: 11-16-89		ELEVATION:		WL TAKEN: n/a	EQUIPMENT: 3 3/4"x 8" Hollow-Stem Auger							
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		HULL CONSTRUCTION	BLOKS/FT.	D.V.M. (ppm)	T.P.H. (ppm)
1			+ + +	sl moist	m dense	gray	GRAVEL sub-base. (Fill)	GM	HULL CONSTRUCTION	BLOKS/FT.	D.V.M. (ppm)	T.P.H. (ppm)
				moist		yellow brown	Silty SAND. (Fill)	ML				
					medium	green	Sandy CLAY, trace Gravel.	SC				
						black	Silty CLAY, trace Gravel. (Fill) Odor.	CL				
			-----							BLOKS/FT.	D.V.M. (ppm)	T.P.H. (ppm)
				very moist	medium dense	dark gray	Silty SAND, trace Clay.	SM				
			X		medium	gray	Silty CLAY, wet Sandy SP lenses. Green staining. Odor.	CL	HULL CONSTRUCTION	BLOKS/FT.	D.V.M. (ppm)	T.P.H. (ppm)
				wet	soft		Silty CLAY, trace brown organics.					
					soft	black	Silty CLAY, trace organincs. Bay Mud.	CH		BLOKS/FT.	D.V.M. (ppm)	T.P.H. (ppm)
						black mottled gray						
Total Depth of Boring: 13 ft Below Ground Surface.												
15												
20												



Project No.

,88-44-359-01

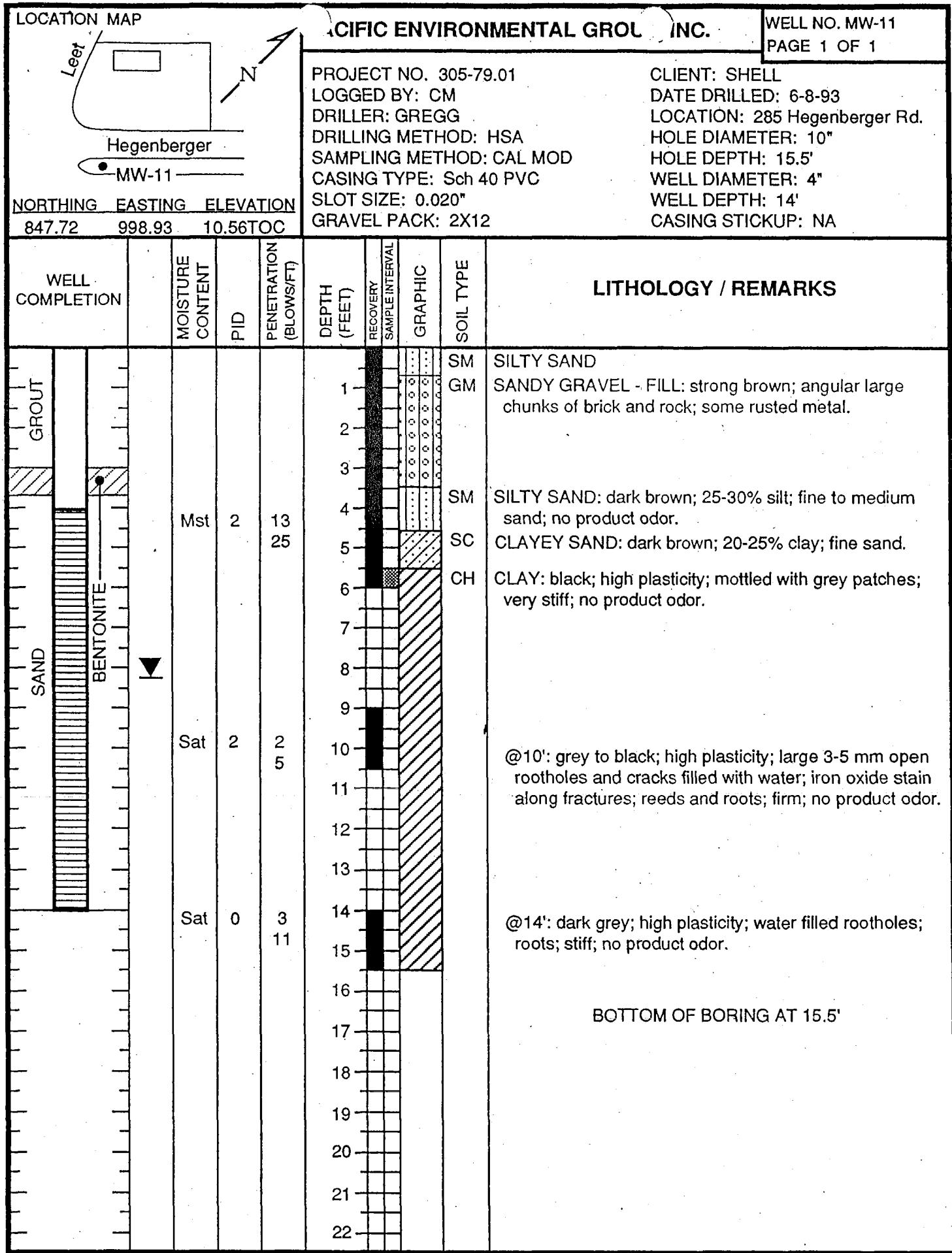
Drawing No.

A-4

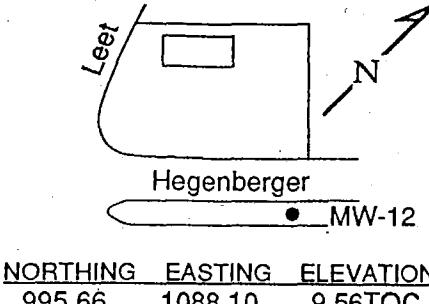
SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California



Converse Environmental West



LOCATION MAP



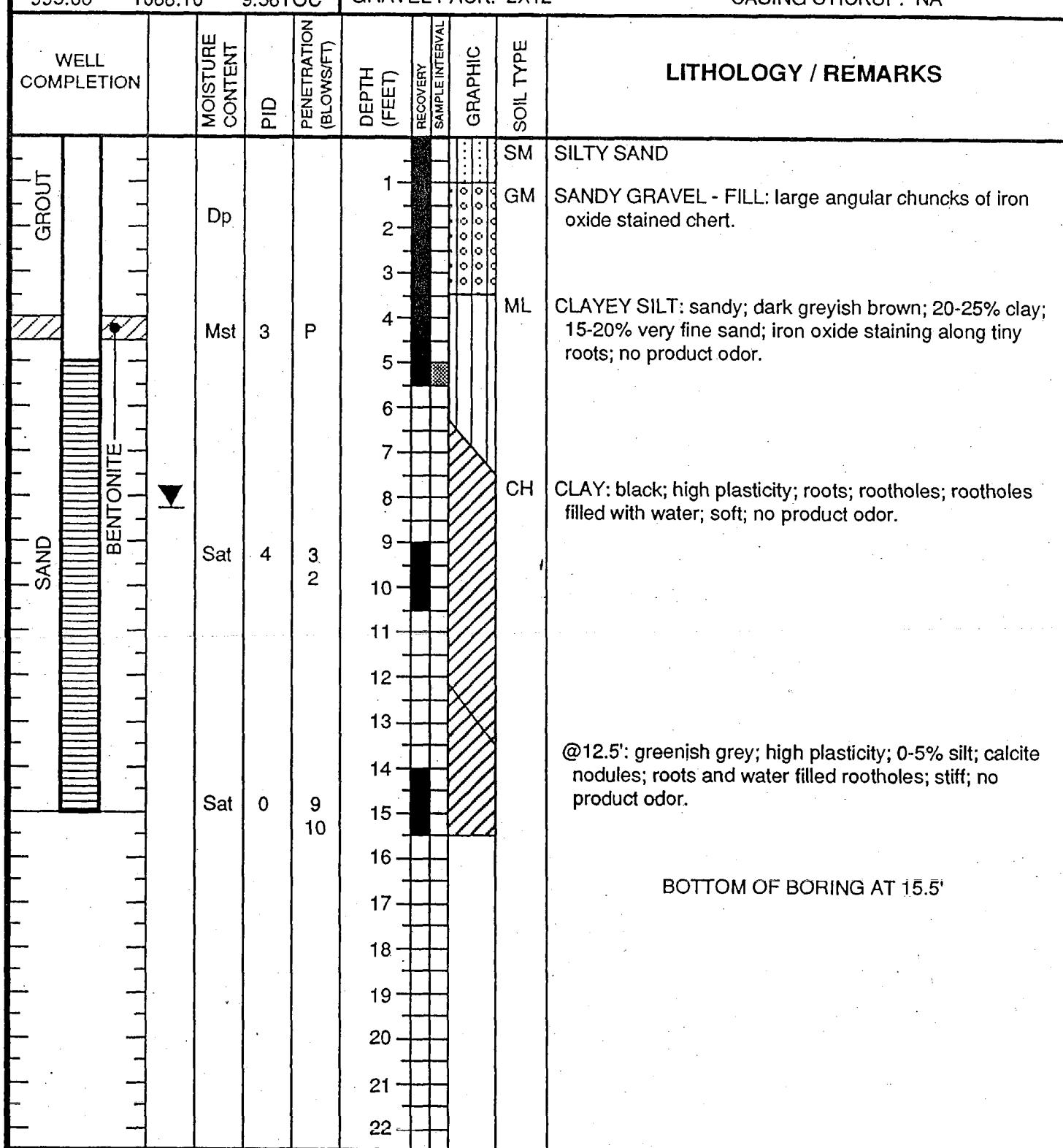
PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-12

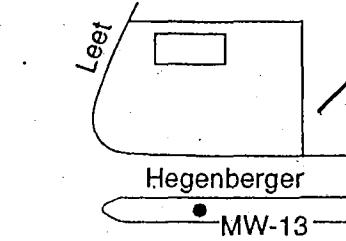
PAGE 1 OF 1

PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-8-93
LOCATION: 285 Hegenberger Rd.
HOLE DIAMETER: 10"
HOLE DEPTH: 15.5'
WELL DIAMETER: 4"
WELL DEPTH: 15'
CASING STICKUP: NA



LOCATION MAP



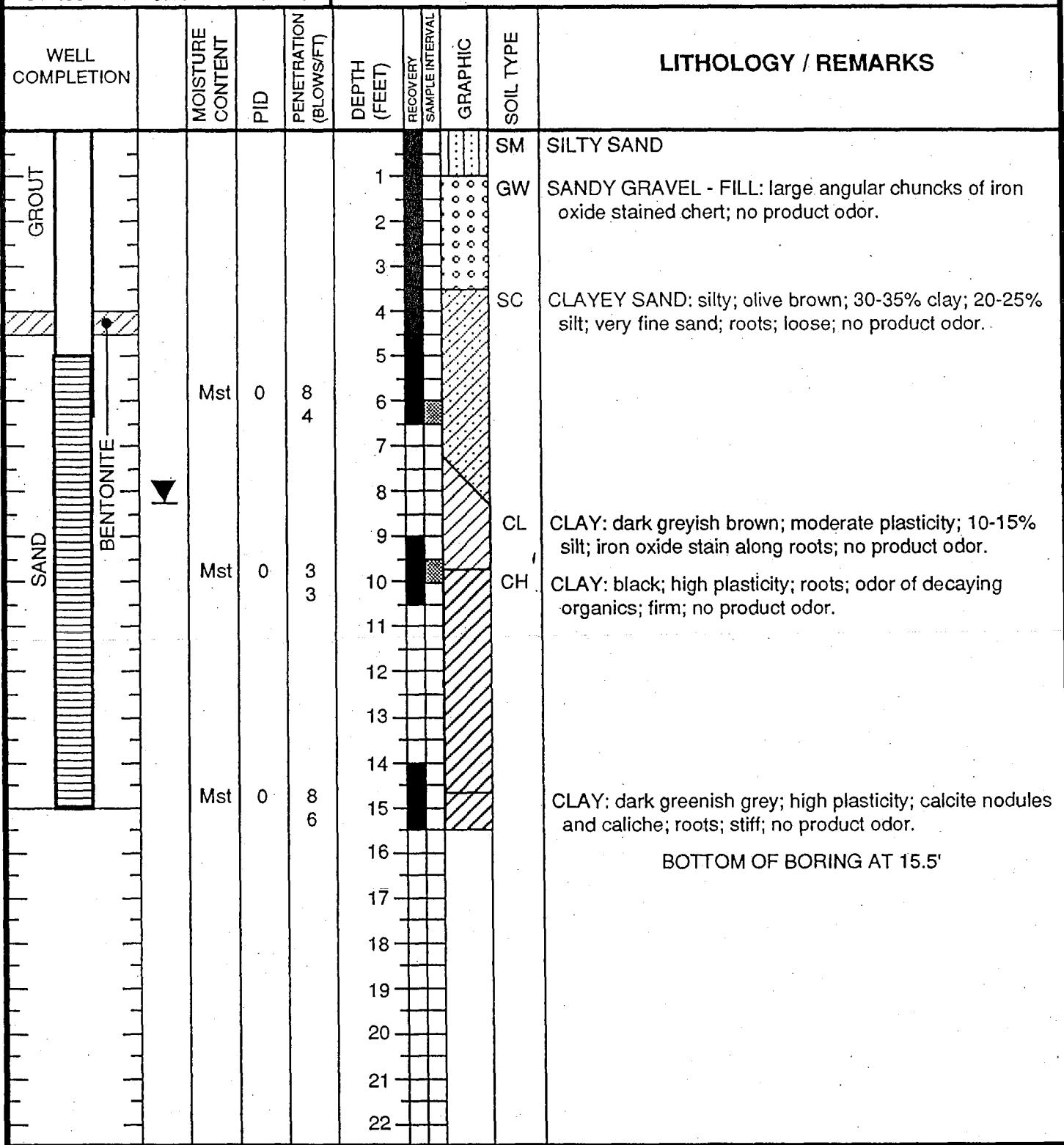
NORTHING EASTING ELEVATION
914.88 1039.19 10.10TOC

ACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-13
PAGE 1 OF 1

PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-10-93
LOCATION: 285 Hegenberger Rd.
HOLE DIAMETER: 10"
HOLE DEPTH: 15.5'
WELL DIAMETER: 4"
WELL DEPTH: 15'
CASING STICKUP: NA



LOG OF BORING NO. VEW-1

Start: 11/21/91 Completion: 11/21/91 Water Measure: N/A			Geologist: P. A. Fuller Assistant Geol.: N/A Drilling Co.: Kvilhaug			Driller/Helper: Drilling Method: Hand Auger Auger/Bit Dia.:				
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
					Asphalt and Base					
					Silty Clay	CL	slightly moist	gray/black		
					Sandy Clay	CL	moist	gray/black		
5					Clayey pebbly Sand	SC	very moist	black		
					Total Depth of Boring: 7 ft. Casing: Blank 4" ID Sch. 40 PVC Screen: Slotted 4" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand					
10										
15										
20										

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.:

88-44-359-20

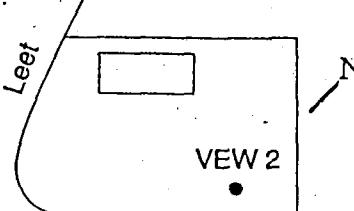


Converse Environmental West

Drawing No.:

A-2

LOCATION MAP



CIFIC ENVIRONMENTAL GROUP INC.

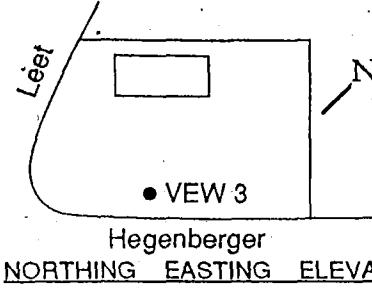
WELL NO. VEW 2
PAGE 1 OF 1

PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-9-93
LOCATION: 285 Hegenberger Rd
HOLE DIAMETER: 10"
HOLE DEPTH: 8.5'
WELL DIAMETER: 2"
WELL DEPTH: 8.5' and 6.5'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	LITHOLOGY / REMARKS			
					RECOVERY	SAMPLE INTERVAL	GRAPHIC	SOIL TYPE
GROUT	Dp			1			SC	ASPHALT 2"
SAND	Mst			2			CL	CLAYEY SAND - FILL: gravelly; strong brown; 20-25% clay; fine to coarse sand; 15-20% angular gravel.
SAND	Wet	100	5	3			SM	CLAY: dark greenish grey to black; moderate plasticity; moderate product odor becoming strong product odor at 3 feet; roots.
SAND	Mst		4	4			CH	SILTY SAND: dark grey; 30-35% silt; very fine sand; roots; loose; strong product odor.
BENTONITE	Sat	80	1	5			ML	CLAY: black; high plasticity; roots; strong product odor.
			4	6			CL	CLAYEY SILT: with sand lenses; dark grey to black; moderate plasticity; horizontal laminae; roots; sand lenses of fine to medium sand up to 2 inches thick; soft; strong product odor.
				7				CLAY: dark grey; moderate plasticity; moderate product odor.
				8				
				9				
				10				
				11				
				12				
				13				
				14				
				15				
				16				
				17				
				18				
				19				
				20				
				21				
				22				
								BOTTOM OF BORING AT 8.5'

LOCATION MAP



ACIFIC ENVIRONMENTAL GRO INC.

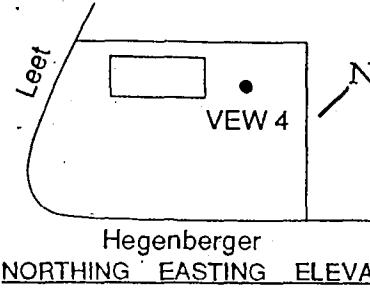
WELL NO. VEW 3
PAGE 1 OF 1

PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-10-93
LOCATION: 285 Hegenberger Road
HOLE DIAMETER: 10'
HOLE DEPTH: 10'
WELL DIAMETER: 2"
WELL DEPTH: 8.5' and 6'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	P/D	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS	
GROUT	Mst			1		GW	ASPHALT 2"		
SAND	Mst	120	8 6	2		CL	SANDY GRAVEL - FILL: strong brown.		
SAND	Sat	80	2 2	3		CH	SILTY CLAY: black; moderate plasticity; 20-25% silt; roots; no product odor.		
BENTONITE	Mst	15	3 2	4		CH	CLAY: black; high plasticity; roots; stiff; strong product odor.		
				5					
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					
				21					
				22					
								BOTTOM OF BORING AT 10'	

LOCATION MAP



SPECIFIC ENVIRONMENTAL GROUP INC.

WELL NO. VEW 4

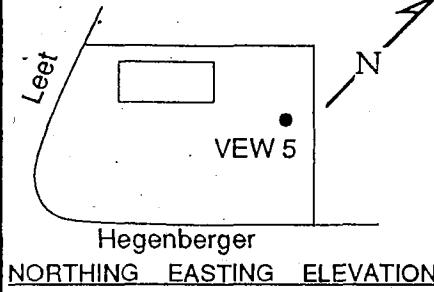
PAGE 1 OF 1

PROJECT NO. 305-79.01
 LOGGED BY: CM
 DRILLER: GREGG
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2X12

CLIENT: SHELL
 DATE DRILLED: 6-9-93
 LOCATION: 285 Hegenberger Rd.
 HOLE DIAMETER: 10"
 HOLE DEPTH: 9.5'
 WELL DIAMETER: 2"
 WELL DEPTH: 9' and 6.5'
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	P/D	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS	
GROUT							SC	ASPHALT 2"	
SAND				1				CLAYEY SAND - FILL: gravelly; strong brown; 25-30% clay; fine to medium sand; 15-20% gravel; no product odor.	
SAND	Wet	14	12	2					
SAND				3					
SAND				4					
BENTONITE				5			CL	CLAY: dark grey to black; moderate plasticity; faint product odor.	
				6			CL/SW	SILTY SAND with CLAY: (interbedded); silty sand; dark grey; 15-20% silt; fine to medium sand; faint product odor; clay: dark grey; moderate plasticity; some rootlets; very stiff; faint product odor.	
				7				@ 7.5': firm; faint product odor.	
				8					
				9			SM	SILTY SAND: dark grey; 15-20% silt; very fine sand; faint to no product odor.	
				10			ML	CLAYEY SILT: dark grey; 25-30% clay; 10-15% very fine sand; firm; faint to no product odor.	
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					
				21					
				22					
								BOTTOM OF BORING AT 9.5'	

LOCATION MAP



ACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. VEW 5
PAGE 1 OF 1

PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG.
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-9-93
LOCATION: 285 Hegenberger Rd.
HOLE DIAMETER: 10"
HOLE DEPTH: 9'
WELL DIAMETER: 2"
WELL DEPTH: 8.5' and 6.5'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	P/D	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS	
SAND				1			SW	ASPHALT 2"	
GROUT				2			CL	GRAVELLY SAND - FILL: clayey; strong brown; 20-25% clay; 25-30% large angular rocks; no product odor.	
SAND	Sat	150	9	3			CH/SW	CLAY: mottled grey and brown; moderate plasticity; 5-10% fine to medium sand; staining (grey) and moderate to strong product odor begins at 3.5'.	
BENTONITE				4			CH	CLAY and SAND: (interbedded); clay: dark greenish grey; high plasticity; strong product odor; sand: dark greenish grey; 5-10% silt; fine to medium sand; stiff; strong product odor.	
SAND	Sat	30	2	5			CH	CLAY: soft; moderate to faint product odor.	
				6					
				7					
				8					
				9					BOTTOM OF BORING AT 9'
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					
				21					
				22					

LOG OF BORING NO. VM-2

Start: 11/21/91 Completion: 11/21/91 Water Measure: N/A			Geologist: P. A. Fuller Assistant Geol.: N/A Drilling Co.: Kvilhaug	Driller/Helper: Drilling Method: Hand Auger Auger/Bit Dia.:						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
5					Asphalt and Base					
					Silty Clay	CL	slightly moist	gray/black		
					Medium Sand	SP	very moist	gray/black		
					Clayey fine Sand	SC	very moist	black		
10					Total Depth of Boring: 7 ft. Casing: Blank 1" ID Sch. 40 PVC Screen: Slotted 1" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand					
15										
20										

SHELL OIL COMPANY
285 Hegenberger Road
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Converse Environmental West

Drawing No.

A-3

LOG OF BORING NO. VM-3

Start: 11/21/91 Completion: 11/21/91 Water Measure: N/A			Geologist: P. A. Fuller Assistant Geol.: N/A Drilling Co.: Kvilhaug	Driller/Helper: Drilling Method: Hand Auger Auger/Bit Dia.:					
DEPTH (FT)	SAMPLE	SAMPLE SYMBOL	WELL CONSTRUCT.	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
0				Asphalt and Base					
				Silty Clay	CL	slightly moist	gray green		
				Fine Sand	SW		black		
5				Clayey fine Sand	SC	very moist	gray		
				Total Depth of Boring: 7 ft. Casing: Blank 1" ID Sch. 40 PVC Screen: Slotted 1" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand					
10									
15									
20									

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Converse Environmental West

Drawing No.

A-4

LOG OF BORING NO. VM-4

Start: 11/21/91 Completion: 11/21/91 Water Measure: N/A			Geologist: P. A. Fuller Assistant Geol.: N/A Drilling Co.: Kvilhaug		Driller/Helper: Drilling Method: Hand Auger Auger/Bit Dia.:					
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION	MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
					Asphalt and Base					
					Silty Clay, some organics	CL	slightly moist	black		
					Clay with organics	CL	moist	black		
5					Sandy Clay	CL	very moist	black		
					Total Depth of Boring: 7 ft. Casing: Blank 1" ID Sch. 40 PVC Screen: Slotted 1" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand					
10										
15										
20										



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Project No.

88-44-359-20

Drawing No.

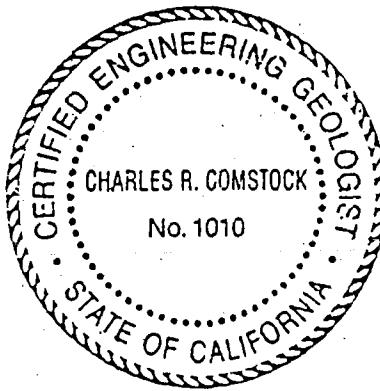
A-5



Converse Environmental West

LOG OF BORING NO. SG-1

DATE DRILLED : 8/6/90		ELEVATION :		W.L. TAKEN :		EQUIPMENT : Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS / FOOT	C.V.M. (ppm)	DRY DENSITY (lb/ft^3)	TEST
				dry		dark brown tan	Top soil. Gravelly Silts and fine Sands with abundant roots and other organic material					
				moist		gray	Sandy Gravelly Clay		GC/CL			
5							Fine to coarse Sand		SP			
			wet			black	Silty Clay (last 2")		CL			
							Total Depth of Boring at 6 ft - B.G.S.					
10												
15												
20												



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Drawing No.

A-2

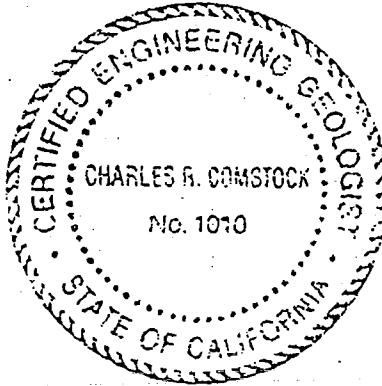


Converse Environmental West

LOG OF BORING NO. SG-2

SG-2

DATE DRILLED : 8/6/90		ELEVATION :		W.L TAKEN :		EQUIPMENT : Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft^3)	TEST
							Top soil. Gravelly Silts and fine Sands					
				moist			Very fine Sand grading into Silty Clay		SM/CL			
							Silty Clay		CL			
5	X			moist			Silty Clay grading to Silty very fine Sand		SM			
							Total Depth of Boring at 5.5 ft - B.G.S.					
10												
15												
20												



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Drawing No.



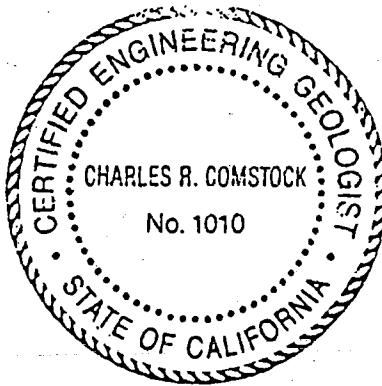
Converse Environmental West

A-3

LOG OF BORING NO. SG-3

SG-3

DATE DRILLED : 8/6/90		ELEVATION :		W.L. TAKEN :		EQUIPMENT : Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
							Planter, top soil					
	X						Clayey Sand		SC			
5	X			dry to moist		tan						
				wet		dark gray	Silty Clay		CL			
10							Total Depth of Boring at 6 ft - B.G.S.					
15												
20												



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Drawing No.

A-4



Converse Environmental West

LOG OF BORING NO. SG-4

DATE DRILLED: 8/6/90			ELEVATION:		W.L. TAKEN:		EQUIPMENT: Hand Auger					
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
							Top soil, Sandy Gravel					
				dry			Fine Sands, trace Clay		SM			
5	X			moist		black	Fine Sandy Silts		SM			
							Total Depth of Boring at 6 ft - B.G.S.					
10												
15												
20												

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88-44-359-20

Drawing No.

A-5

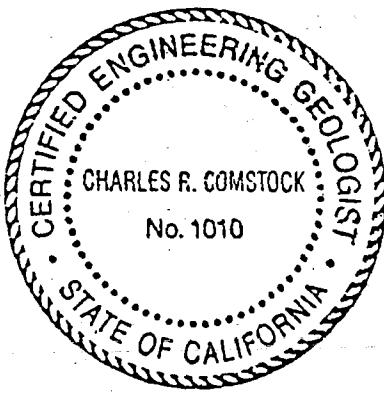


Converse Environmental West

LOG OF BORING NO. SG-5

SG-5

DATE DRILLED: 8/6/90		ELEVATION:		W.L. TAKEN:		EQUIPMENT: Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
							Top soil - Gravel					
							Gravelly Clay		GC/CL			
5			X	dry		brown						
				moist		gray black	Silty Clay		SM/CL			
							Total Depth of Boring at 6 ft - B.G.S.					
10												
15												
20												



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Drawing No.

A-6



Converse Environmental West

LOG OF BORING NO. SG-

SG-6

DATE DRILLED: 8/6/90		ELEVATION:		W.L TAKEN:		EQUIPMENT: Hand Auger					
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft^3)	TEST
				dry		brown	Top soil				
							Sandy Gravel	GP			
							Coarse Gravel some Sand (cuttings)				
5				very moist		gray	Coarse Sand (angular)	SP			
							Total Depth of Boring at 6 ft - B.G.S.				
10											
15											
20											



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Converse Environmental West

Drawing No.

A-7

LOG OF BORING NO. SG-

SG-7

DATE DRILLED: 8/7/90			ELEVATION:		W.L. TAKEN:		EQUIPMENT: Hand Auger																		
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft³)	TEST													
5				moist	dark gray	black	Top soil - Gravelly Sand																		
							Gravelly Silt some Sand and Clay SM/GM																		
							Clay Silty Sand, trace Gravel SM/SC																		
Total Depth of Boring at 6 ft - B.G.S.																									
<p>The seal is circular with a decorative outer ring. Inside the ring, the words "CERTIFIED ENGINEERING GEOLOGIST" are written in a circular path. In the center, it says "CHARLES R. COMSTOCK" above "No. 1010". Below that, it says "STATE OF CALIFORNIA".</p>																									
10																									
15																									
20																									

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Project No.

88-44-359-20



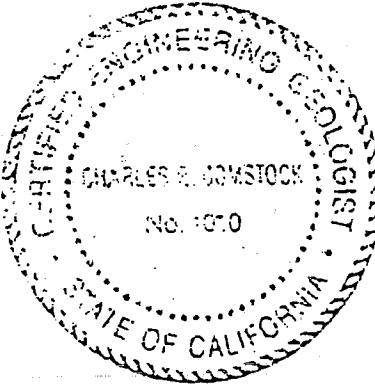
Converse Environmental West

Drawing No.

A-8

LOG OF BORING NO. SG

SG-8

DATE DRILLED : 8/7/90		ELEVATION :		W.L TAKEN :		EQUIPMENT : Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
				dry		brown	Top soil - Sandy Gravel					
			X	slightly moist		brown	Sandy Silts some Clay		SM			
5			X	moist		black	Silty Sands trace Clay		SP			
10							Total Depth of Boring at 6 ft - B.G.S.					
15												
20												

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88-44-359-20



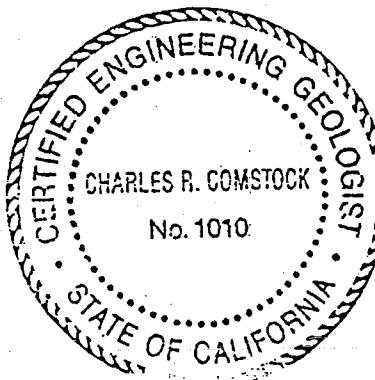
Converse Environmental West

Drawing No.

A-9

LOG OF BORING NO. SG-

SG-9

DATE DRILLED : 8/7/90		ELEVATION :		W.L. TAKEN :		EQUIPMENT : Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft^3)	TEST
						brown	Top soil - fine Sand					
				slightly moist		dark brown	Gravelly Sand some Silt trace Clay SP/SM			28		
5				moist		dark gray	Silty Sand some Clay SC			10		
10							Total Depth of Boring at 6 ft - B.G.S.					
15												
20												

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Converse Environmental West

Drawing No.

A-10

LOG OF BORING NO. SG-

SG 10

DATE DRILLED: 8/7/90		ELEVATION:		W.L. TAKEN:		EQUIPMENT: Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
			dry			brown	Top soil - Sandy Gravel					
			moist			brown	Fine Sand. Chunk of wood		SP			
5			moist			black	Clayey Silt trace Sand		SC			
							Total Depth of Boring at 6 ft - B.G.S.					
10												
15												
20												

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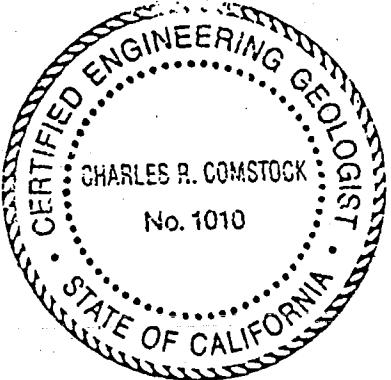
Converse Environmental West

Drawing No.

A-11

LOG OF BORING NO. SG-

SG-11

DATE DRILLED: 8/7/90		ELEVATION:		W.L. TAKEN:		EQUIPMENT: Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
							Fill - Sandy Gravel					
				dry		brown	Fine Sands trace Silt some Gravel SP					
5				moist		black	Clayey Silt SM					
10							Total Depth of Boring at 6 ft - B.G.S.					
15												
20												

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Converse Environmental West

Drawing No.

A-12

LOG OF BORING NO. SG-

SG-12

DATE DRILLED: 8/7/90		ELEVATION:		W.L. TAKEN:		EQUIPMENT: Hand Auger/Slide Hammer						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
							Top soil - Sandy Gravel					
							Silty Sand		SP/SM			
5				dry		tan						
				moist		black	Clayey Silt trace Sand		SM			
10							Total Depth of Boring at 6 ft - B.G.S.					
15												
20												



Shell Oil Company
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88-44-359-20



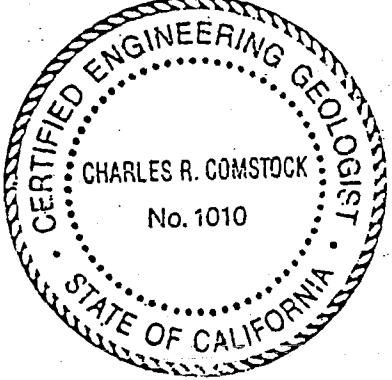
Converse Environmental West

Drawing No.

A-13

LOG OF BORING NO. SG 3

SG-13

DATE DRILLED: 8/7/90		ELEVATION:		W.L. TAKEN:		EQUIPMENT: Hand Auger/Slide Hammer Sampler						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
1				moist		dark gray	Top soil - Silty Sand					
2							Clayey Silt		SM			
5				very moist		black	Sandy Silt		SM			
10							Total Depth of Boring at 6 ft - B.G.S.					
15												
20												

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 285 Hegenberger Road
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Converse Environmental West

Drawing No.

A-14

LOG OF BORING NO. S 14

SG-14

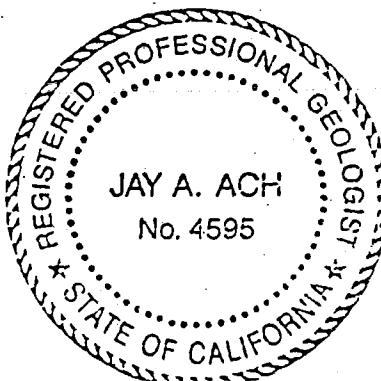
DATE DRILLED: 9/13/90

ELEVATION:

W.L. TAKEN:

EQUIPMENT: Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS/6	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
						tan brown	Sandy Gravel base 6" Coarse Gravel Sandy Gravel/Gravelly Sand				
1				moist	loose						
5							Silty Clay				
2				wet	soft	black	Sandy Silt (last 2")	ML	4		
10							Total Depth of Boring at 6 ft				
15											
20											



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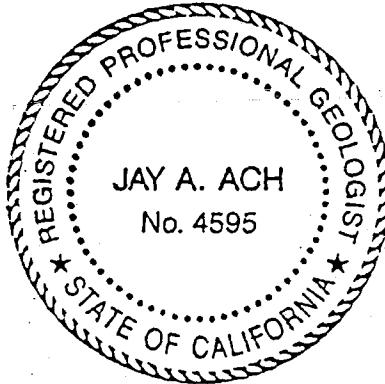
Drawing No.

A-15

LOG OF BORING NO. S 15

SG - 15

DATE DRILLED : 9/13/90			ELEVATION :		W.L TAKEN :		EQUIPMENT : Hand Auger					
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS/6	O.V.M. (ppm)	DRY DENSITY (lb/ft ³)	TEST
							Sandy Gravel base		GP			
1				slightly moist	medium dense	brown	Fine to coarse Sand		SP	8		
5	2			moist	soft	black	Silty Clay		CH	4		
10							Silty Sand		SM	4		
15							Total Depth of Boring at 6 ft					
20												



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Converse Environmental West

Drawing No.

A-16

LOG OF BORING NO. S-16

SG-16

DATE DRILLED: 9/13/90		ELEVATION:		W.L. TAKEN:		EQUIPMENT: Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS/6	O.V.M. (ppm)	DRY DENSITY (lb/ft³)	TEST
							Sandy Gravel base		GP			
1			moist	soft	brown black		Clayey Silt mixed with fine Sand		ML/SP	4		
5	2		v. moist		black		Silty Sand		ML	3		
10							Total Depth of Boring at 6 ft					
15												
20												



Shell Oil Company
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88-44-359-20



Converse Environmental West

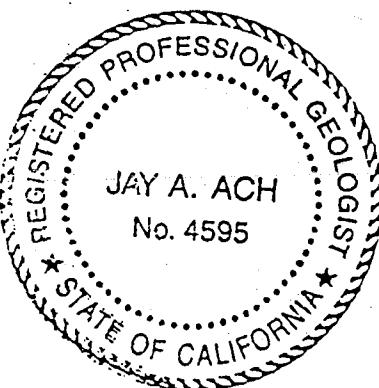
Drawing No.

A-17

LOG OF BORING NO. S 17

SG-17

DATE DRILLED: 9/13/90			ELEVATION:		W.L TAKEN:	EQUIPMENT: Hand Auger						
DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS/6	O.V.M. (ppm)	DRY DENSITY (lb/ft³)	TEST
				moist	loose	black	Concrete 6"		ML			
1							Sandy Silt, trace Gravel			3		
5	2		v. moist to wet	v. moist to wet	loose	black	Silty Sand, some Gravel		SM	3		
10							Total Depth of Boring at 6 ft					
15												
20												



Shell Oil Company
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88-44-359-20



Converse Environmental West

Drawing No.

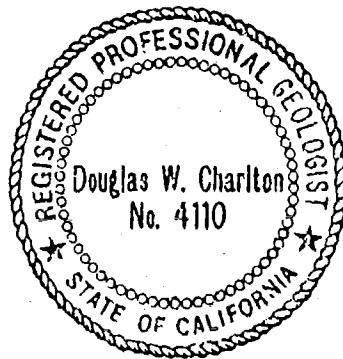
A-18

50-1

LOG OF BORING NO. 1

DATE DRILLED: 2/13/89 ELEVATION: ML TAKEN: None EQUIPMENT: Hand Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLKS/FT.	DRY WEIGHT *	DRY DENSITY lb/ft ³	TESTS
							0-2" ASPHALT, 2-6" BASE ROCK SP				
				damp	firm	brown	CLAY (Fill) Some sand and gravel	CL			
				moist							
	D			damp	firm to soft	black dark gray	SILTY CLAY Some gravel	CL/GP			
							SILTY SAND AND GRAVEL	SP/			
5	D			damp							
				wet			FINE SAND	SW/GW			
							Bottom of Boring at 8.5 FT. Water seeping into hole				
10											
15											
20											



SHELL OIL COMPANY
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Oakland, California

Project No.

88-44-359-01



Converse Environmental Consultants California

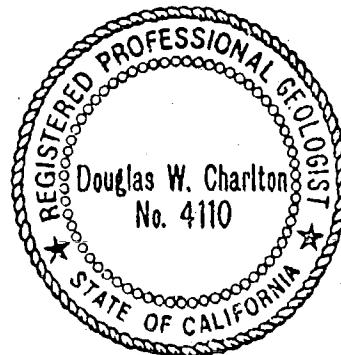
Drawing No.

A-1

LOG OF BORING NO. 2

SB-2

DATE DRILLED: 2/13/89		ELEVATION:		WL TAKEN: None		EQUIPMENT: Hand Auger						
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		B.D./S.F.T.	DRY WEIGHT %	DRY DENSITY lb/ft ³	TESTS
				hard			0-2" ASPHALT, 2-12" BASE ROCK					
				slightly damp	firm	gray	SILTY AND SANDY CLAY (Fill) / CH Some gravel					
	D			moist	firm	gray	CLAYEY SAND Some gravel. Odor of gasoline		SP/GP			
5									27			
							Bottom of Boring at 6 ft. Water in hole at 6 ft.					
10												
15												
20												



SHELL OIL COMPANY
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Project No.

88-44-359-01

Drawing No.

A-2

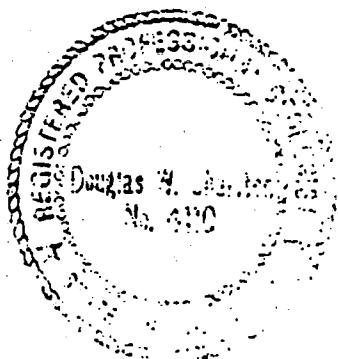


Converse Environmental Consultants California

SB-3

LOG OF BORING NO. SB-A

DATE DRILLED: 5/24/89		ELEVATION:		WL TAKEN: 5/24/89		EQUIPMENT:								
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION			BLOWS/FT.	MOISTURE CONTENT	DRY DENSITY lb/ft ³	TESTS	
5	D		••••	slightly moist	loose	tan	SANDY GRAVEL (Fill)			12	CL			
	D		■■■■	moist	medium	black	SILTY CLAY							
	D		••••	very moist	loose	gray	SANDY GRAVEL Strong odor			16				
	▼		■■■■	wet	loose	black	SILTY CLAY and SAND							
10							Bottom of Hole at 6 ft.							
15														
20														



SHELL OIL COMPANY
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Project No.

88-44-359-02

Drawing No.

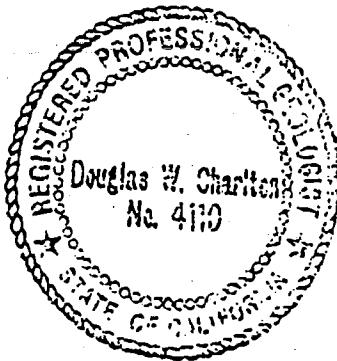
A-6



Converse Environmental Consultants California

SB-4
LOG OF BORING NO. SB-B

DATE DRILLED: 5/24/89		ELEVATION		WL TAKEN: N/A		EQUIPMENT:							
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION			BLOWS/FT.	MOISTURE CONTENT	DRY DENSITY lb/ft ³	TESTS
0	D			moist	loose	brown	SANDY GRAVEL (Fill)			9			
							SILTY CLAY and fine SAND CL Odor						
	D			very moist			Gravelly clay and sand			5			
4							Bottom of Hole at 4 ft.						
5													
10													
15													
20													



SHELL OIL COMPANY
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88-44-359-02



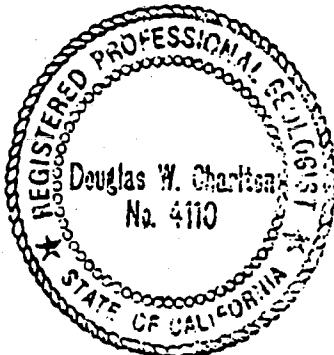
Converse Environmental Consultants California

Drawing No.

A-7

LOG OF BORING NO. SB-C

54-5



SHELL OIL COMPANY
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Project No.

88-44-359-02



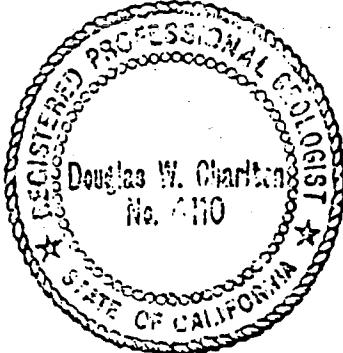
Converse Environmental Consultants California

Drawing No.

A-8

LOG OF BORING NO. SB-6

DATE DRILLED: 7-13-89		ELEVATION:		ML TAKEN: 7-13-89		EQUIPMENT: 3-1/4"x 6" Hollow Auger							
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION			BLOKS/FT.	O.V.M. (ppm)	DRY DENSITY lb/ft ³	TESTS
							ASPHALT 3" CONC. SLAB. 6"						
				dry	loose	gray	GRAVEL backfill						
5							Filter fabric						
1		▼		wet	medium	light gray	Lenses-layers SILT and fine SAND Odor			9			
10							Bottom of Hole at 7 ft.						
15													
20													



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01

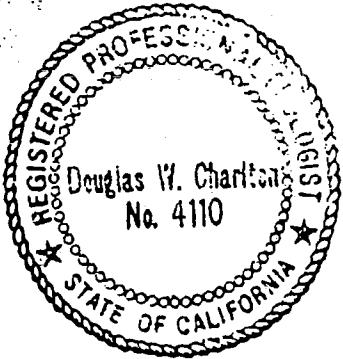


Converse Environmental Consultants California

Drawing No.

A-1

LOG OF BORING NO. SB-7

DATE DRILLED: 7-13-89		ELEVATION		ML TAKEN 7-13-89		EQUIPMENT: 3-1/4"x 6" Hollow Auger						
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		BGS/FT.	O.V.M. (ppm)	DRY DENSITY lb/ft ³	TESTS
5							ASPHALT 4" BASE 6"					
							GRAVEL backfill					
							No odor					
10							Bottom of Hole at 7 ft.					
15												
20												

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01

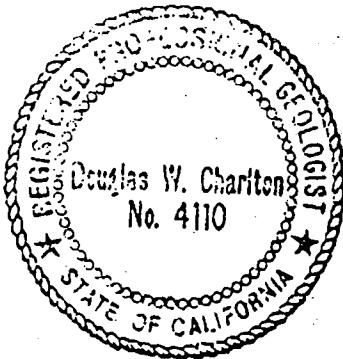


Converse Environmental Consultants California

Drawing No.

A-2

LOG OF BORING NO. SB-8

DATE DRILLED: 7-13-89		ELEVATION		NL TAKEN: 7-13-89		EQUIPMENT: 3-1/4"x 6" Hollow Auger						
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		B.G.S./FT.	O.V.W. (ppm)	DRY DENSITY lb/ft ³	TESTS
							ASPHALT 2" BASE 6"					
							Mix Bay Mud, SAND SP odor					
1				moist	loose	gray	Silty fine SAND trace shells fragments Strong odor		5	260		
5				v. moist					5	260		
2	▼			wet	loose							
10							Bottom of Hole at 6.5 ft.					
15												
20												

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



Converse Environmental Consultants California

Drawing No.

A-3

LOG OF BORING NO. SB-9

DATE DRILLED: 7-13-89			ELEVATION:		ML TAKEN: 7-13-89		EQUIPMENT: 3-1/4"x 6" Hollow Auger												
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION			BLOWS/FT.	O.V.M. (cm)	DRY DENSITY lb/ft ³	TESTS						
20							ASPHALT 2" BASE 6"												
							Silty CLAY Odor												
							CL												
							Fine Sandy SILT Odor												
							ML												
							Silty CLAY Bay Mud Slight odor Clayey SILT rootlets												

LOG OF BORING NO. SB-10

DATE DRILLED: 7-13-89			ELEVATION		NL TAKEN: 7-13-89		EQUIPMENT: 3-1/4"x 6" Hollow Auger													
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		BLOWS/FT.	O.V.M. (lb/in ²)	DRY DENSITY lb/ft ³	TESTS								
1	1	5		wet			ASPHALT 2" BASE 6"		7	50 80 500										
							Silty CLAY Odor													
							Fine SAND trace SILT SP/SM													
							Silty CLAY and Clayey SILT. Strong odor													
							Coarse SAND and pea GRAVEL													
			Bottom of Hole at 6.5 ft.																	

LOG OF BORING NO. SB-11

DATE DRILLED: 7-13-89		ELEVATION		ML TAKEN: 7-13-89		EQUIPMENT: 3-1/4" x 6" Hollow Auger									
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		BLOWS/FT.	O.V.M. (ppm)	DRY DENSITY lb/ft ³	TESTS			
1	1	5	 	moist	stiff	gray	ASPHALT 2" BASE 6" Pavement badly cracked in this area. Surface infiltration CL/CH			60	30				
							Silty CLAY CL/CH trace concrete rubble								
							Silty CLAY increase moisture								
							Clayey SILT ML trace fine SAND Odor			6	280				
2	2	7	 	very moist	medium		Saturated fine SAND SP			9	30				
							SILT trace fine SAND ML								
10						Bottom of Hole at 7 ft.									
15															
20															



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



Converse Environmental Consultants California

Drawing No.

A-6

LOG OF BORING NO. SB-12

DATE DRILLED: 11-16-89		ELEVATION:		WL TAKEN: n/a	EQUIPMENT: 3 3/4"x 8" Hollow-Stem Auger							
DEPTH (ft)	SAMPLE	WATER LEVEL	SAMPLE SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		BLOWS/FT.	O.V.M. (ppm)	DRY DENSITY lb/ft ³	TESTS
				very moist	soft	dark brown	Sandy SILT. (Topsoil) ML					
					soft	dark gray	Silty CLAY, trace Gravel. CL					
1					medium	dark gray	Silty CLAY, trace organics. Trace green staining.		10	0		
2							Trace to little Sand.		12	0		
3	▽		wet				Silty CLAY, little Sand.		13	0		
10							Total Depth of Boring: 9 ft Below Ground Surface.					
15												
20												

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



Drawing No.

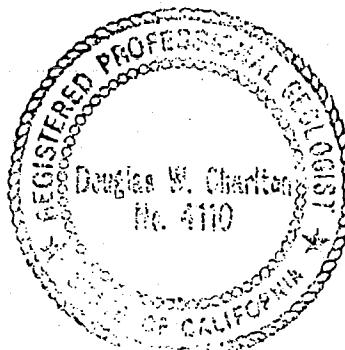
A-2



Converse Environmental West

LOG OF BORING NO.SB-13

DATE DRILLED: 11-16-89		ELEVATION:		WL TAKEN: n/a		EQUIPMENT: 3 3/4"x 8" Hollow-Stem Auger											
DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION			BLOWS/FT.	D.V.M. (ppm)	DRY DENSITY lb/ft ³	TESTS				
1	1		○ ○ ○ ○ ○ ○	moist	medium dense	dark gray	Sandy GRAVEL. (sub-base) GP			40	0						
				very moist	medium	green	Sandy CLAY, some Cobble, little Rubble. (Fill) Gravelly lens 4". CL										
				wet	m dense												
			very moist	moist	medium	black	Silty CLAY, increased Sand, trace Gravel. Slight odor. CL			29	0						
						gray green	Gravelly rounded SAND. SP Strong odor.										
			--- wet	wet	medium dense	--- dark gray	Fine to medium SAND. SP										
							Total Depth of Boring: 7 ft Below Ground Surface.										
5																	
10																	
15																	
20																	



SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.

88-44-359-01



Converse Environmental West

Drawing No.

A-3



Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

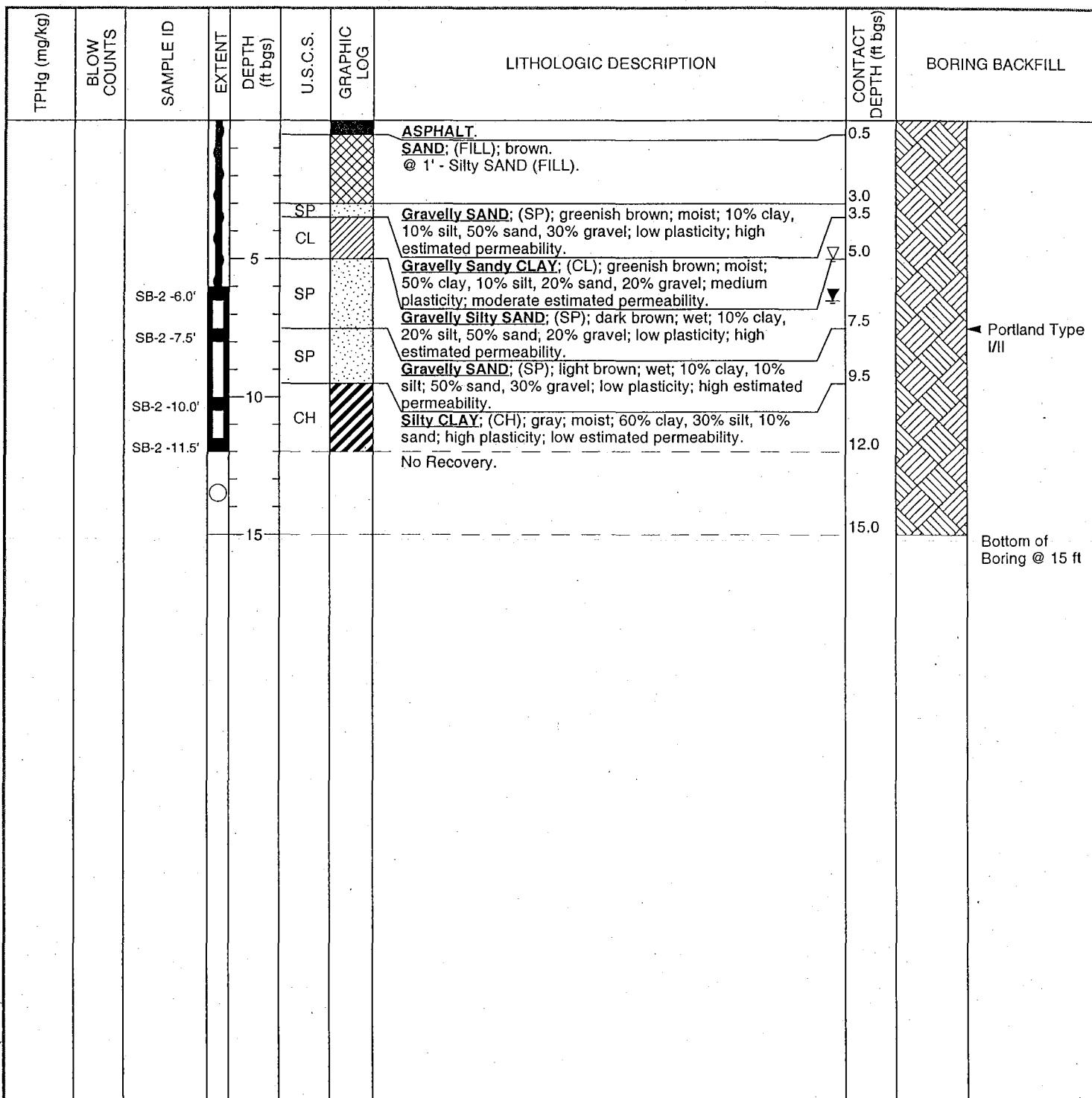
CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-1
JOB/SITE NAME	Oakland 285	DRILLING STARTED	18-Mar-99
LOCATION	285 Hegenberger Road, Oakland, California	DRILLING COMPLETED	18-Mar-99
PROJECT NUMBER	241-0734	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	M. Paves	DEPTH TO WATER (First Encountered)	6.0 ft (18-Mar-99) <input checked="" type="checkbox"/>
REVIEWED BY		DEPTH TO WATER (Static)	NA <input checked="" type="checkbox"/>
REMARKS	Hand augered to 9.5' bgs.		



Cambridge Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-2
JOB/SITE NAME	Oakland 285	DRILLING STARTED	18-Mar-99
LOCATION	285 Hegenberger Road, Oakland, California	DRILLING COMPLETED	18-Mar-99
PROJECT NUMBER	241-0734	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	M. Paves	DEPTH TO WATER (First Encountered)	5.0 ft (18-Mar-99) ▽
REVIEWED BY		DEPTH TO WATER (Static)	6.50 ft ▼
REMARKS	Hand augered to 6' bgs.		

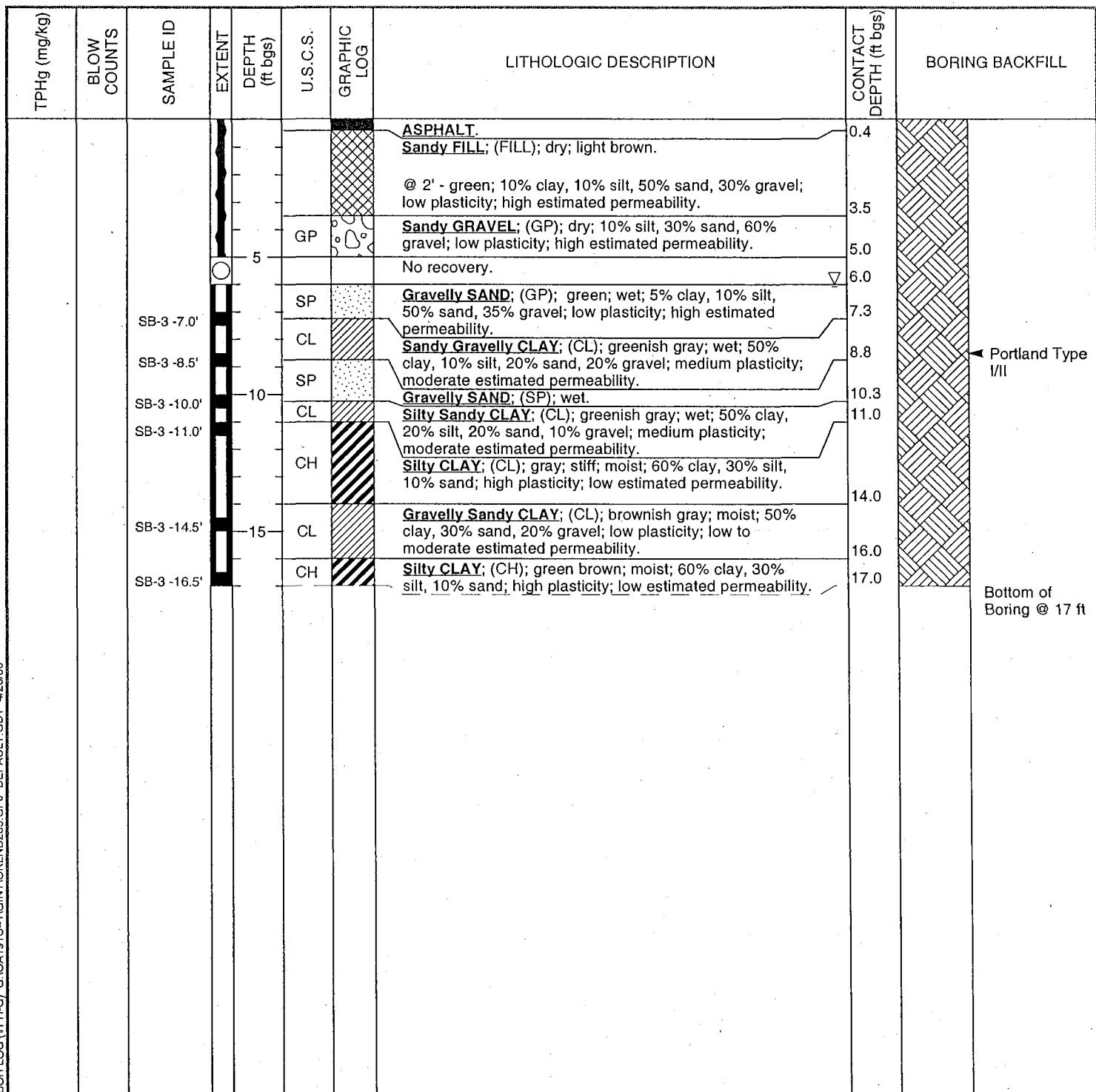




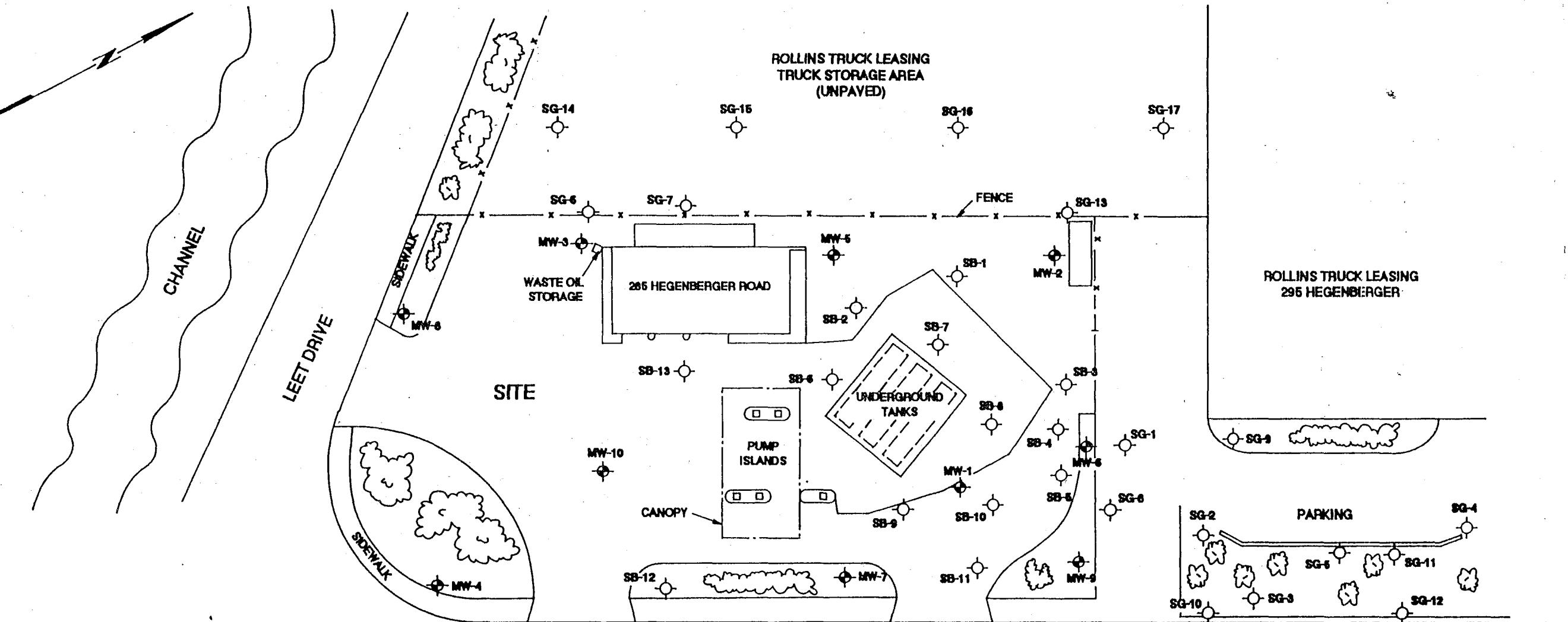
Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-3
JOB/SITE NAME	Oakland 285	DRILLING STARTED	18-Mar-99
LOCATION	285 Hegenberger Road, Oakland, California	DRILLING COMPLETED	18-Mar-99
PROJECT NUMBER	241-0734	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	M. Paves	DEPTH TO WATER (First Encountered)	6.0 ft (18-Mar-99) ▽
REVIEWED BY		DEPTH TO WATER (Static)	NA ▼
REMARKS	Hand augered to 5' bgs.		



APPENDIX C
HISTORICAL SOIL DATA



LEGEND

SB-1 SOIL BORING (locations approximate)

SG-1 OFF SITE SOIL BORING (locations approximate)

MW-1 GROUNDWATER MONITORING WELL

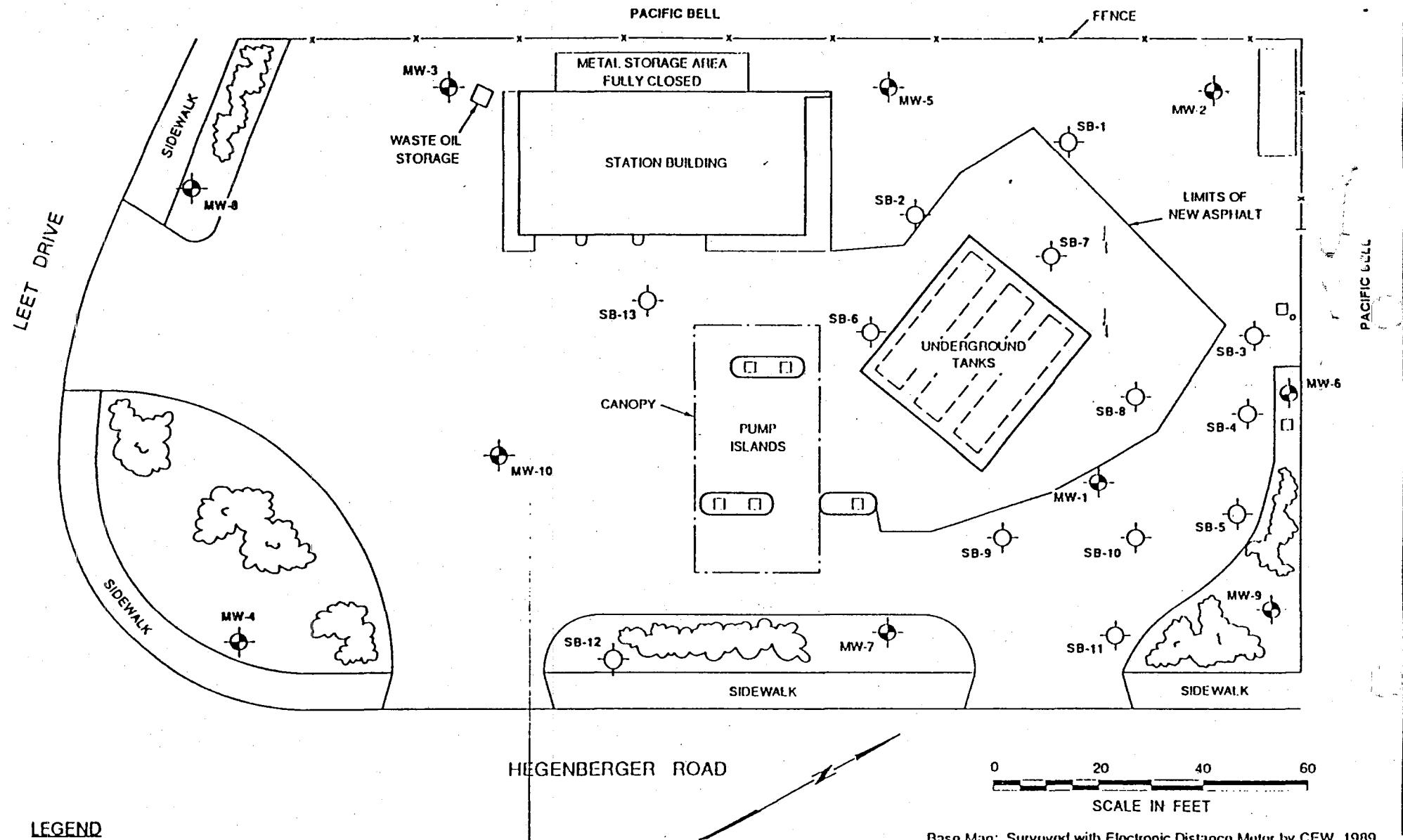
PLOT PLAN

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Date	AS SHOWN	Project No.	89-44-359-20
Prepared by	DEN	Date	9/24/90
Checked by		Drawing No.	
Approved by	CRC		



Converse Environmental West



LEGEND

SB-1 SOIL BORING (locations approximate)

MW-1 GROUNDWATER MONITORING WELL

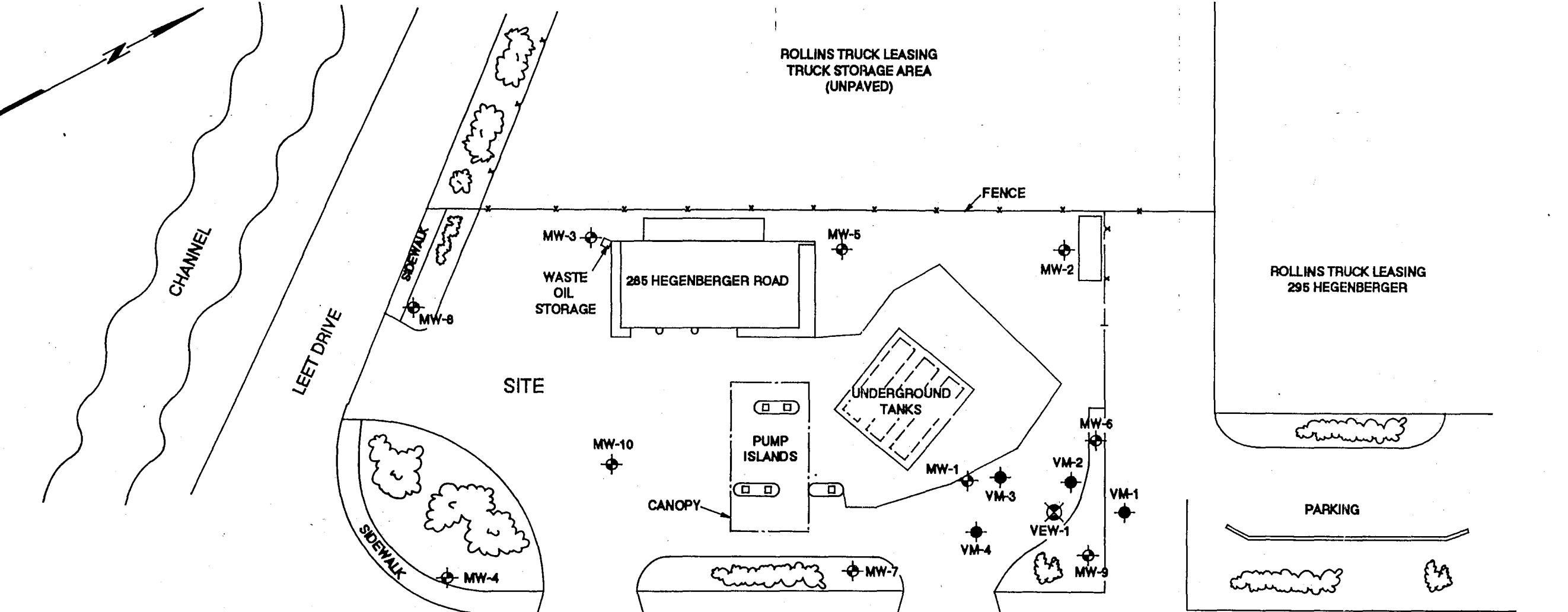
PLOT PLAN

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Scale	AS SHOWN	Project No.	88-44-359-20
Prepared by	CRB	Date	3/18/91
Approved by	CRC	Drawing No.	
WIC No.	204-5508 550-1		2



Converse Environmental West



HEGENBERGER ROAD

MEDIAN STRIP

SIDEWALK

LEGEND

- GROUNDWATER MONITORING WELL
- VAPOR MONITORING POINT
- VAPOR EXTRACTION WELL

0 40 80
APPROXIMATE SCALE IN FEET

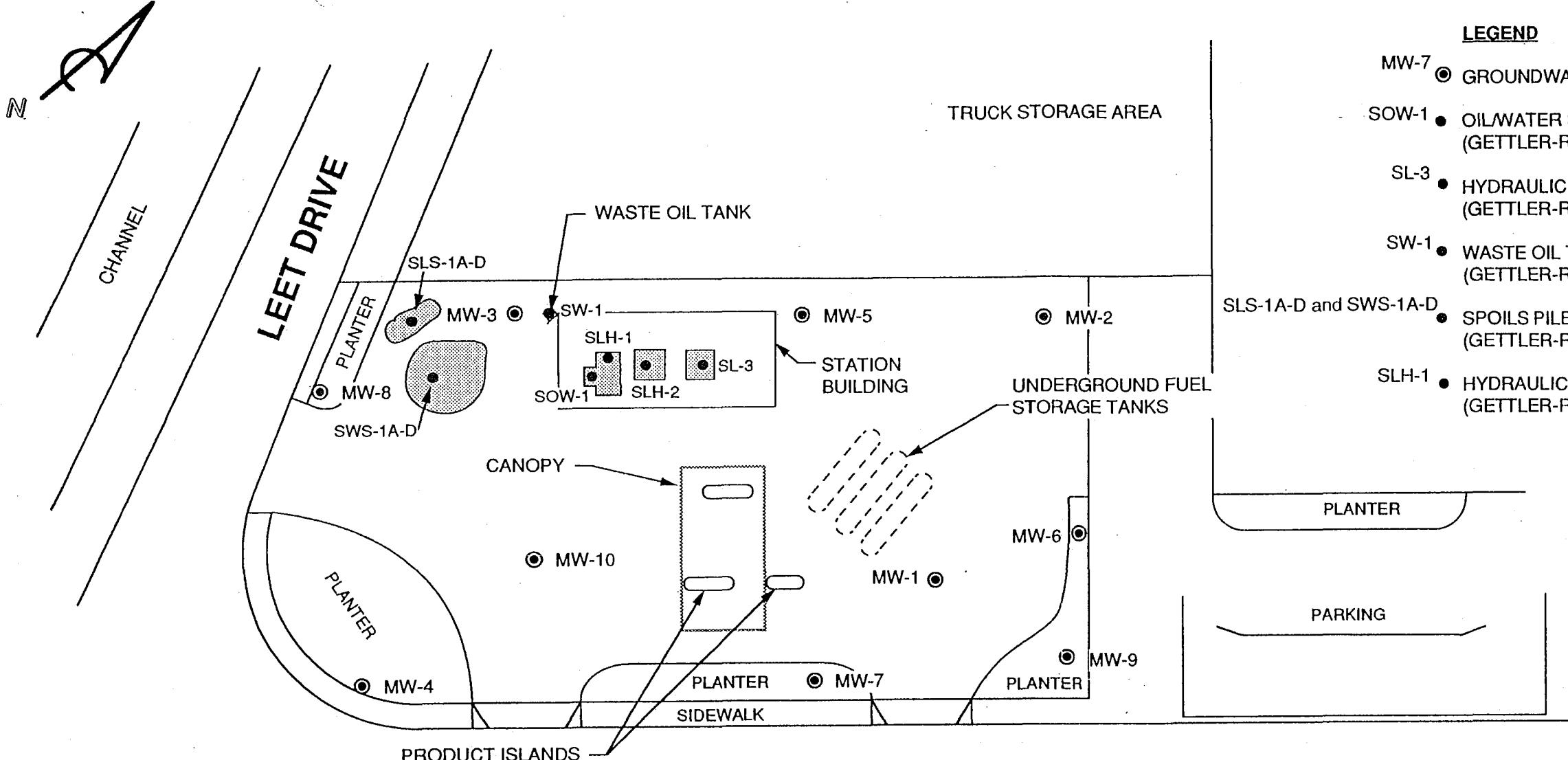
VAPOR EXTRACTION WELL & MONITORING POINT LOCATIONS

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

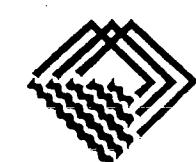
Scale	AS SHOWN	Project No.	89-44-359-20
Prepared by	TNW	Date	1/29/92
Checked by	JFK	Drawing No.	
Approved by	PAF		



Converse Environmental West



HEGENBERGER ROAD



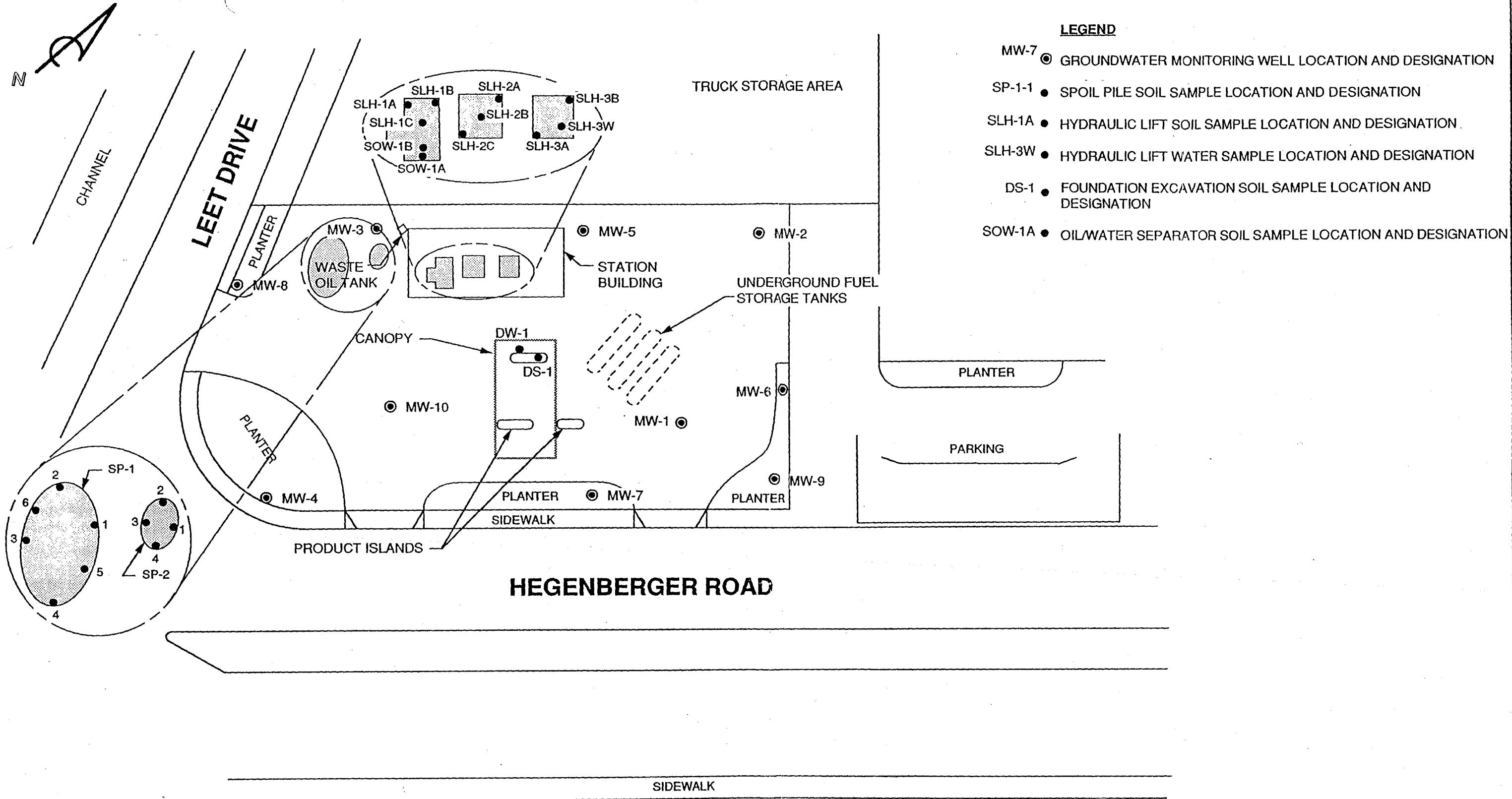
PACIFIC
ENVIRONMENTAL
GROUP, INC.

SCALE
0 40 80 FEET

SHELL SERVICE STATION
285 Hegenberger Road at Leet Drive
Oakland, California

SOIL SAMPLE LOCATION MAP (GETTLER-RYAN)

FIGURE:
2
PROJECT:
305-79.01



PACIFIC
ENVIRONMENTAL
GROUP, INC.

A scale bar at the bottom of the page. It features a thick black horizontal line with a length of 80 feet. Above the line, the word "SCALE" is printed in capital letters. Below the line, the numbers "0", "40", and "80 FEET" are printed in a bold, sans-serif font.

SHELL SERVICE STATION
285 Hegenberger Road at Leet Drive
Oakland, California

SOIL SAMPLE LOCATION MAP (PACIFIC)

**FIGURE:
3
PROJECT:
305-79.01**

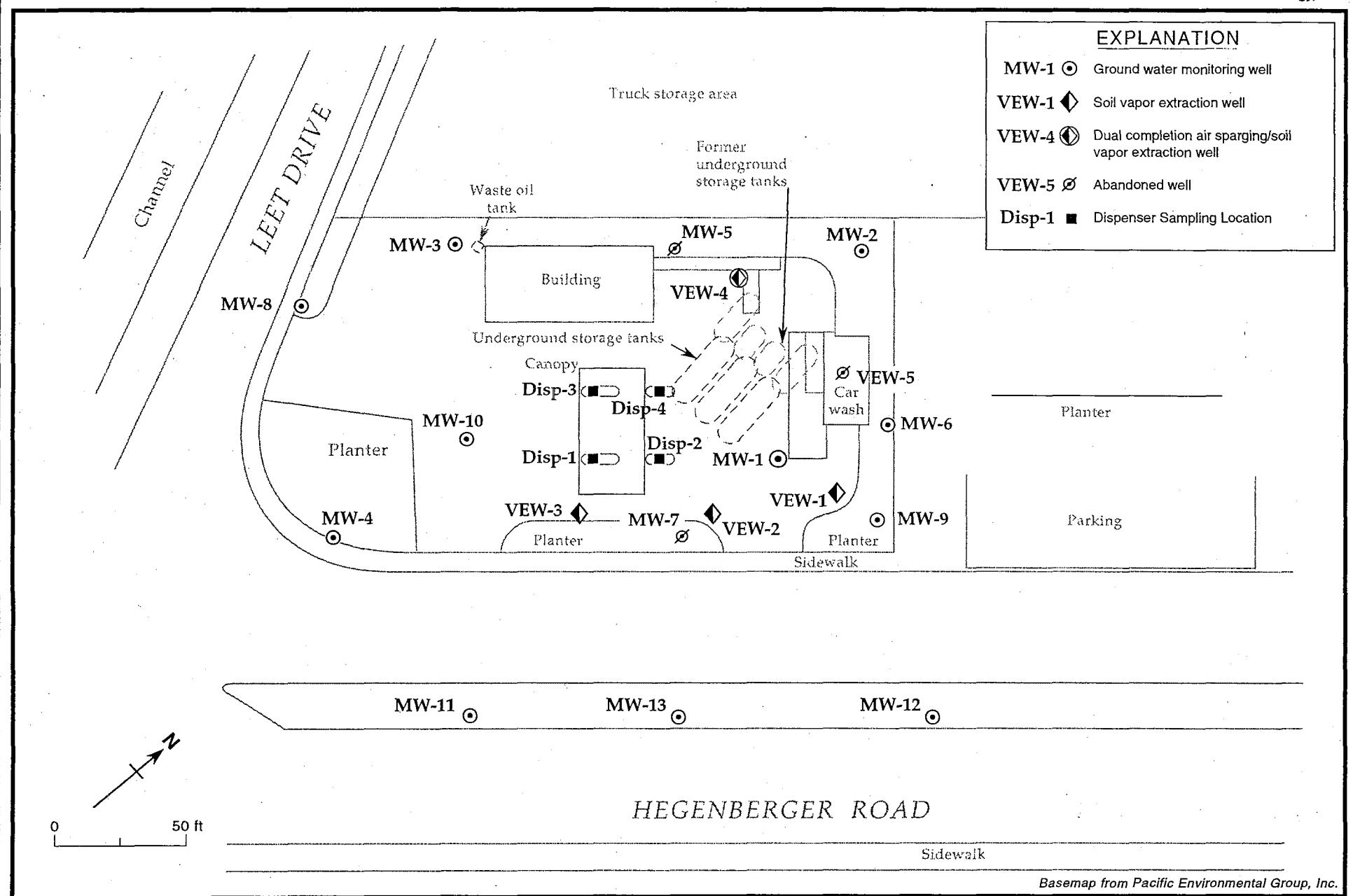


Figure 1. Dispenser Sampling Locations - July 29, 1998 - Shell-branded Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Table 2. Historical Soil Analytical Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Sample ID	Date Sampled	Depth (fbg)	TPHg (ppm)	TPHd (ppm)	TOG (ppm)	TPHmo (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	MTBE (ppm)
1992 Waste Oil Tank Removal											
SOW-1	2/12/1992	5	1,900	400	830	--	2.2	2.6	25	82	--
SL-3	2/12/1992	6.5	--	1,100	15,000	--	--	--	--	--	--
SLH-1A	4/21/1992	5.5	.690	550	550	--	<2.5	<2.5	2.4	19	--
SLH-1B	4/21/1992	5.5	1,500	1,700	1,700	--	<2.5	<2.5	<2.5	32	--
SLH-1C	4/21/1992	5.5	1,000	2,200	5,800	--	<2.5	<2.5	1.6	23	--
SLH-2A	4/21/1992	5.5	610	250	340	--	<2.5	<2.5	<2.5	3.7	--
SLH-2B	4/21/1992	6	70	80	170	--	<2.5	0.16	0.38	1.6	--
SLH-2C	4/21/1992	6	1,300	150	290	--	<2.5	<2.5	6.7	20	--
SLH-3A	4/21/1992	6.5	54	130	280	--	0.05	0.14	0.44	3.6	--
SLH-3B	4/21/1992	6.5	250	140	90	--	<2.5	<2.5	1.5	3.1	--
SOW-1A	4/21/1992	4	19	250	500	--	0.055	<2.5	0.14	0.7	--
SOW-1B	4/21/1992	4	1,800	7,600	6,800	--	1.9	<2.5	15	72	--
DS-1	5/20/1992	1	260	--	--	--	<2.5	<2.5	<2.5	<2.5	--
1998 Dispenser Upgrades											
D-1	7/30/1998	1.5	790	400	--	--	2.0	17	12	57	8.5 (22)
D-2	7/30/1998	2	160	190	--	--	0.090	0.27	0.14	1.7	4.7
1999 Site Investigation											
SB-1-5.5	3/18/1999	5.5	<0.400	<5.00	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-1-10	3/18/1999	10	<0.400	<5.00	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-2-5.0	3/18/1999	5	0.777	15.2	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-2-6.0	3/18/1999	6	3.33	19.3	--	--	<0.00200	0.00598	0.00977	0.0259	<0.0100
SB-2-7.5	3/18/1999	7.5	<0.400	<5.00	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-2-10.0	3/18/1999	10	<0.400	<15.0	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-2-10.5	3/18/1999	10.5	<0.400	<15.0	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-2-12.0	3/18/1999	12	<0.400	<5.00	--	--	<0.00200	<0.00200	<0.00200	<0.00400	<0.0100
SB-3-7.5	3/18/1999	7.5	5.94	14.8	--	--	<0.00200	<0.00200	0.0501	0.0548	<0.0100
SB-3-9.0	3/18/1999	9	27.6	13.1	--	--	<0.0100	<0.0100	0.0502	0.0948	<0.0500
SB-3-10.5	3/18/1999	10.5	43.3	35.8	--	--	<0.0100	<0.0100	0.354	0.548	<0.0500
SB-3-11.5	3/18/1999	11.5	9.90	27.6	--	--	<0.0100	<0.0100	0.0628	0.0973	<0.0500
SB-3-15.0	3/18/1999	15	23.5	26.5	--	--	<0.0100	<0.0100	0.291	0.424	<0.0500
SB-3-17.0	3/18/1999	17	0.508	<5.00	--	--	<0.00200	<0.00200	0.0269	0.0393	<0.0100

Table 2. Historical Soil Analytical Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Sample ID	Date Sampled	Depth (fbg)	TPHg (ppm)	TPHd (ppm)	TOG (ppm)	TPHmo (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	MTBE (ppm)
2000 Site Investigation											
VE-5-5'	6/28/2000	5.5	578	--	--	--	9.76	28.8	11.8	63.1	0.359
VE-5-10.5'	6/28/2000	10.5	1.18	--	--	--	0.0205	0.0449	0.0181	0.099	<0.0500
VE-5-14.0'	6/28/2000	14	<1.00	--	--	--	0.00500	0.0122	<0.00500	0.0220	<0.0500
VE-6-5.5'	6/28/2000	5.5	1,290	--	--	--	13.2	44.9	28.5	123	2.93
VE-6-10.5'	6/28/2000	10.5	25	--	--	--	0.364	0.700	0.610	2.87	0.154
VE-6-14.0'	6/28/2000	14	<1.00	--	--	--	<0.00500	0.00830	0.00730	0.0360	<0.0500
VE-7-6.5'	6/28/2000	6.5	1,800	--	--	--	11.6	60.8	34.6000	173	2.61
VE-7-10.5'	6/28/2000	10.5	1,260	--	--	--	5.68	32.5	24.5	124	0.73
VE-7-14.0'	6/28/2000	14	<1.00	--	--	--	<0.00500	0.132	<0.00500	0.00680	<0.0500
2004 Fuel System Upgrades¹											
P-1-5'	6/29/2004	5	7200	1,300	21	<50	<5.0	9.6	61	541	43.0
P-2-5'	6/29/2004	5	300	310	15	<50	<0.50	<0.50	3.2	17	2.50
P-3-5'	6/29/2004	5	<50	7.4	--	<50	0.51	<0.50	1.5	1.4	3.3
P-4-5'	6/29/2004	5	21	32	15	<50	4.2	<0.50	3.4	15	1.6
P-5-5'	6/29/2004	5	1,600	140	15	<50	3.3	0.88	0.81	50	31
D-1-5'	6/29/2004	5	<1.0	8	--	<50	<0.0050	<0.0050	0.0052	0.020	0.031
D-2-5'	6/29/2004	5	<1.0	2.1	--	<50	<0.0050	0.0056	<0.0050	0.005	0.0052
D-3-5'	6/29/2004	5	130	24	--	<50	<0.50	<0.50	2.2	52	<0.50
D-4-5'	6/29/2004	5	350	190	--	<50	<0.50	0.96	7.6	53	15
P-6-6.5'	7/6/2004	6.5	380	86	--	<50	3.6	14	7.2	38	4.4
P-7-6.5'	7/6/2004	6.5	490	17	--	<50	1.0	2.5	8.2	42	1.2
P-8-6.5'	7/6/2004	6.5	6,500	170	--	<100	<5.0	38	61	500	<5.0
P-9-6.5'	7/6/2004	6.5	380	37	--	<50	<1.0	1.6	4.7	26	21
P-10-6.5'	7/6/2004	6.5	120	16	--	<50	<1.0	<1.0	1.9	2.6	7.1
P-11-6.5'	7/6/2004	6.5	<100	12	--	<50	1.4	<1.0	2.9	1.7	3.3
P-12-6.5'	7/6/2004	6.5	1,100	38	--	<50	2.2	<1.0	23	30	2.8

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

TOG = Total oil and grease

TPHmo = Total petroleum hydrocarbons as motor oil

MTBE = Methyl tertiary-butyl ether

fbg = Feet below grade

ppm = Parts per million, equivalent to mg/L

Table 2. Historical Soil Analytical Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Sample ID	Date Sampled	Depth (fbg)	TPHg (ppm)	TPHd (ppm)	TOG (ppm)	TPHmo (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	MTBE (ppm)
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mg/L = Milligrams per liter

-- = Not analyzed

<x = Not detected at laboratory reporting limit x

TPHg analyzed by EPA Method 5030 in 1992, EPA Method 8015M in 1998 and 1999, DHS LUFT in 2000, and EPA Method 8260B in 2004.

TPHd analyzed by EPA Method 3550 in 1992, EPA Method 8015M in 1998, 1999, and 2004.

TOG analyzed by EPA Method 5520D.

TPHmo analyzed by EPA Method 8015M.

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8020 in 1992, 1998, and 1999, by DHS LUFT in 2000, and by EPA Method 8260B in 2004.

MTBE analyzed by EPA Method 8020 in 1998 and 1999, and by EPA Method 8260B in 2000 and 2004. 1998 results in parentheses analyzed by EPA Method 8260B.

1. Shading indicates that the data represents soil that has been removed from the site.

Table 2
Soil Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline, BTEX Compounds, and TPH as Diesel)

Shell Service Station
 285 Hegenberger Road at Leet Drive
 Oakland, California

Well Number	Sample Depth (Feet)	TPH as Gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	TPH as Diesel (ppm)
MW-11	5-5.5	ND	ND	0.008	ND	ND	ND
MW-12	5-5.5	ND	ND	ND	ND	ND	ND
MW-13	6-6.5	ND	ND	ND	ND	ND	ND
VEW-2	4.5-5	550	6.4	15	13	52	31 ^a
VEW-3	4.5-5	1,900	ND	16	40	94	560 ^a
VEW-4	4.5-5	ND	ND	ND	ND	ND	10 ^a
VEW-5	4.5-5	1,000	1.2	0.9	21	14	320 ^a

ppm = Parts per million

ND = Not detected

a. The laboratory noted that compound detected and calculated as TPH-d is due to a non-diesel mix.
 See individual certified analytical reports for detection limits.

MW-11 and MW-12 samples collected on 6-8-1993.

VEW-2, VEW-4, and VEW-5 samples collected on 6-9-1993.

MW-13 and VEW-3 samples collected on 6-10-1993.

TABLE 5. RESULTS OF SOIL CHEMICAL ANALYSES

Shell Oil Company Facility
285 Hegenberger Road
Oakland, California

Concentration (mg/kg)

Boring No.	Sample Depth (ft bgs)	Date Sampled	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	Lead ¹
SB-1	4.0	2/13/89	140	NA	0.3	0.8	1.4	0.6	14.7
SB-2	5.0	2/13/89	3700	NA	<8	120	110	530	9.17
SB-3	4.0	5/24/89	1300	180	0.54	8.4	18	24	0.2
SB-3	2.4**	5/24/89	250	100	<0.25	1.1	1.9	3.2	<0.2
SB-4	2.4**	5/24/89	1300	12	0.54	0.4	18	24	
SB-4	4.0	5/24/89	50	20	0.12	0.43	0.45	0.18	<0.2
SB-5	2.0	5/24/89	31000	370	4.7	18	66	150	<0.2
SB-8	6.5	7/13/89	1900	360	<0.025	<0.025	25	82	6.2
SB-9	5.0	7/13/89	<10	<10	<0.025	<0.025	<0.075	<0.075	3.9
SB-10	4.5	7/13/89	550	75	2.3	11	13	71	5.8
SB-11	5.0	7/13/89	190	440	3.8	16	5.7	28	17
SB-12	5.0	11/16/89	<1	1.4	<0.0025	<0.0028	<0.0025	<0.0025	4.8
SB-12	7.0	11/16/89	<1	1.4	0.0068	0.046	<0.0025	0.0098	4.6
SB-13	5.0	11/16/89	650	60	1.4	5.2	6.0	25	5.5
MW-1	5.5	2/14/89	1100	NA	12	36	27	120	12.7
MW-2	6.0	2/15/89	2.0	NA	0.1	<0.1	<0.1	<0.1	3.31
MW-3	5.0	2/14/89	3.0	NA	<0.1	<0.1	<0.1	<0.1	1.42
MW-4	5.0	4/28/89	<10	<10	<0.025	<0.025	0.056	<0.075	34
MW-4	10.0	4/28/89	<10	<10	<0.025	0.052	<0.075	<0.075	2.3
MW-5	5.0	4/27/89	<10	<10	<0.025	<0.025	<0.075	<0.075	5.3
MW-5	10.0	4/27/89	<10	<10	<0.025	0.037	<0.075	<0.075	4.3

TABLE 5 (cont'd). RESULTS OF SOIL CHEMICAL ANALYSES

**Shell Oil Company Facility
285 Hegenberger Road
Oakland, California**

Concentration (mg/kg)

Boring No.	Sample Depth (ft bgs)	Date Sampled	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	Lead ¹
MW-6	5.0	4/28/89	<10	<10	0.033	0.079	<0.075	<0.075	8.2
MW-6	10.0	4/28/89	<10	<10	<0.025	0.12	<0.075	<0.075	7.0
MW-7	5.0	4/28/89	4100	84	14	92	14	190	14
MW-7	10.0	4/27/89	<10	18	0.11	0.045	<0.075	<0.075	14
MW-8	5.0	4/28/89	<10	<10	<0.025	0.089	<0.075	<0.075	3.4
MW-8	10.0	7/13/89	<10	160	<0.025	0.087	<0.075	<0.075	22
MW-9	5.0	7/13/89	120	<10	1.1	0.64	3.7	0.46	4.1
MW-10	5.0	11/16/89	2.2	1.3	0.23	0.22	0.21	0.61	3.6
SG-1	3.0	8/06/90	<0.1	NA	<0.005	<0.005	<0.005	0.043	NA
SG-1	6.0		4.0	NA	0.140	0.018	0.076	0.037	NA
SG-2	3.0	8/06/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-2	5.5		4000	NA	22.0	110	100	510	NA
SG-3	3.0	8/06/90	<0.1	NA	<0.005	0.010	0.008	0.042	NA
SG-3	6.0		110	NA	0.640	<0.005	3.50	16.0	NA
SG-4	3.0	8/06/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-4	6.0		1.70	NA	<0.005	<0.005	<0.005	0.026	NA
SG-5	3.0	8/06/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-5	6.0		610	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-6	3.0	8/06/90	<0.1	NA	<0.005	0.009	<0.005	<0.005	NA
SG-6	6.0		2.90	NA	<0.005	0.006	0.023	0.064	NA
SG-7	6.0	8/07/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-7	6.0		1900	NA	<0.005	<0.005	<0.005	35.0	NA
SG-8	3.0	8/07/90	16.0	NA	0.220	0.073	0.320	0.084	NA
SG-8	5.5		51.0	NA	1.90	<0.005	3.20	9.30	NA
SG-9	3.0	8/07/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-9	6.0		<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA

TABLE 5 (cont'd). RESULTS OF SOIL CHEMICAL ANALYSES

Shell Oil Company Facility
285 Hegenberger Road
Oakland, California

Concentration (mg/kg)

Boring No.	Sample Depth (ft bgs)	Date Sampled	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	Lead ¹
SG-10	3.0	8/07/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-10	6.0		3000	NA	11.0	44.0	73.0	400	NA
SG-11	3.0	8/07/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-11	6.0		240	NA	<0.005	<0.005	1.40	2.60	NA
SG-12	3.0	8/07/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-12	6.0		960	NA	<0.005	<0.005	15.0	42.0	NA
SG-13	3	8/17/90	<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-13	6		<0.1	NA	<0.005	<0.005	<0.005	<0.005	NA
SG-14	3'	9/13/90	<1.0	<1.0	<0.0025	0.0063	<0.0025	<0.0025	<10
	6'		<1.0	<1.0	0.190	0.0250	0.0170	0.037	<10
SG-15	3'	9/13/90	<1.0	<1.0	<0.0025	0.0100	<0.0025	0.0026	<10
	6'		<1.0	<1.0	<0.0025	0.0270	<0.0025	0.0039	<10
SG-16	3'	9/13/90	<1.0	<1.0	<0.0025	0.0120	<0.0025	0.0029	<10
	6'		<1.0	<1.0	<0.0025	0.0260	<0.0025	0.0036	12
SG-17	3'	9/13/90	<1.0	<1.0	<0.0025	0.0110	<0.0025	<0.0025	<10
	6'		<1.0	4.0	<0.0025	0.0073	<0.0025	<0.0025	<10

NOTES:

1	Analysis by EPA Method 7421
**	Composite sample
ft bgs	Feet below ground surface
MW	Monitoring well
ppm	Part per million
SB	Soil boring
TPH-g	Total Petroleum Hydrocarbons as Gasoline (GCFID)
TPH-d	Total Petroleum Hydrocarbons as Diesel (GCFID)

APPENDIX D
HISTORICAL GROUNDWATER MONITORING DATA

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

January 20, 2010

Denis Brown
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

First Quarter 2010 Groundwater Monitoring at
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Monitoring performed on January 4, 2010

Groundwater Monitoring Report **100104-WW-1**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

SAN JOSE

SACRAMENTO

LOS ANGELES

SAN DIEGO

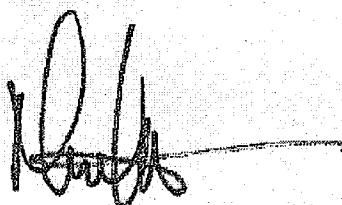
SEATTLE

1680 ROGERS AVENUE SAN JOSE, CA (408) 573-0555 FAX (408) 573-7771 LIC. 746684 www.blainetech.com

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,



Mike Ninokata
Project Manager

MN/np

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

SAN JOSE

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WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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)
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MW-1	02/16/1989	99,000	NA	NA	20,000	23,000	5,700	2,300	NA	NA	NA	NA	NA	NA	6.64	3.83	2.81	NA
MW-1	05/23/1989	48,000	11,000	NA	4,200	5,200	1,200	7,700	NA	NA	NA	NA	NA	NA	6.64	3.59	3.05	NA
MW-1	08/03/1989	63,000	11,000	NA	5,500	5,500	3,200	9,500	NA	NA	NA	NA	NA	NA	6.64	4.04	2.60	NA
MW-1	12/15/1989	30,000	11,000	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	6.64	4.22	2.42	NA
MW-1	02/07/1990	93,000	10,000	NA	13,000	9,600	2,400	14,000	NA	NA	NA	NA	NA	NA	6.64	4.60	2.04	NA
MW-1	04/18/1990	55,000	8,700	NA	14,000	8,400	3,200	13,000	NA	NA	NA	NA	NA	NA	6.64	4.02	2.62	NA
MW-1	07/23/1990	73,000	3,600	NA	16,000	7,400	2,800	15,000	NA	NA	NA	NA	NA	NA	6.64	4.17	2.47	NA
MW-1	09/27/1990	45,000	1,700	NA	8,000	4,300	2,000	11,000	NA	NA	NA	NA	NA	NA	6.64	4.60	2.04	NA
MW-1	01/03/1991	43,000	3,100	NA	10,000	3,400	1,900	11,000	NA	NA	NA	NA	NA	NA	6.64	4.88	1.76	NA
MW-1	04/10/1991	67,000	1,800	NA	20,000	9,600	3,500	16,000	NA	NA	NA	NA	NA	NA	6.64	3.55	3.09	NA
MW-1	07/12/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.64	3.97	2.67	NA
MW-1	10/08/1991	55,000	7,400	NA	18,000	3,500	2,300	8,600	NA	NA	NA	NA	NA	NA	6.64	4.26	2.38	NA
MW-1	02/06/1992	48,000	15,000 a	NA	12,000	2,800	1,900	7,400	NA	NA	NA	NA	NA	NA	6.64	4.94	1.70	NA
MW-1	05/04/1992	71,000	10,000 a	NA	16,000	6,000	3,100	14,000	NA	NA	NA	NA	NA	NA	6.64	3.58	3.06	NA
MW-1	07/28/1992	68,000	18,000 a	NA	21,000	5,500	3,400	15,000	NA	NA	NA	NA	NA	NA	6.64	3.91	2.73	NA
MW-1 (D)	07/28/1992	70,000	19,000 a	NA	17,000	5,000	2,700	13,000	NA	NA	NA	NA	NA	NA	6.64	3.91	2.73	NA
MW-1	10/27/1992	53,000	1,300	NA	18,000	3,700	3,400	11,000	NA	NA	NA	NA	NA	NA	6.64	4.79	1.85	NA
MW-1 (D)	10/27/1992	48,000	2,500 a	NA	17,000	3,600	3,100	9,900	NA	NA	NA	NA	NA	NA	6.64	4.79	1.85	NA
MW-1	01/14/1993	84,000	2,200 a	NA	17,000	5,400	3,000	13,000	NA	NA	NA	NA	NA	NA	6.64	3.39	3.25	NA
MW-1	04/23/1993	100,000	2,300 a	NA	18,000	7,800	4,700	20,000	NA	NA	NA	NA	NA	NA	6.64	2.67	3.97	NA
MW-1	07/20/1993	41 a	3,100 a	NA	12,000	870	1,500	4,400	NA	NA	NA	NA	NA	NA	9.50	3.48	6.02	NA
MW-1	10/18/1993	33,000	8,100 a	NA	14,000	1,200	2,000	4,900	NA	NA	NA	NA	NA	NA	9.50	4.20	5.30	NA
MW-1 (D)	10/18/1993	44,000	3,700 a	NA	14,000	1,200	2,000	4,900	NA	NA	NA	NA	NA	NA	9.50	4.20	5.30	NA
MW-1	01/06/1994	71,000	9,000 a	NA	9,000	870	1,600	5,100	NA	NA	NA	NA	NA	NA	9.50	4.13	5.37	NA
MW-1	04/12/1994	42,000	5,900	NA	6,600	170	2,300	4,700	NA	NA	NA	NA	NA	NA	9.50	2.42	7.08	NA
MW-1 (D)	04/12/1994	40,000	4,700	NA	6,300	180	2,000	4,400	NA	NA	NA	NA	NA	NA	9.50	2.42	7.08	NA
MW-1	07/25/1994	13,000	7,000 a	NA	4,400	110	460	1,400	NA	NA	NA	NA	NA	NA	9.50	3.37	6.13	NA
MW-1	10/25/1994	19,000	3,900	NA	5,500	210	880	2,000	NA	NA	NA	NA	NA	NA	9.50	4.07	5.43	NA
MW-1	01/09/1995	37,000	8,600 a	NA	6,700	800	2,800	8,900	NA	NA	NA	NA	NA	NA	9.50	2.65	6.85	NA
MW-1	04/11/1995	26,000	5,500	NA	4,700	270	1,800	3,400	NA	NA	NA	NA	NA	NA	9.50	2.38	7.12	NA
MW-1	07/18/1995	57,000	7,000	NA	7,500	880	4,100	11,000	NA	NA	NA	NA	NA	NA	9.50	3.49	6.01	NA
MW-1 (D)	07/19/1995	46,000	6,600	NA	6,000	670	3,200	7,500	NA	NA	NA	NA	NA	NA	9.50	3.49	6.01	NA
MW-1	10/18/1995b	37,000	3,200	NA	5,400	450	2,600	7,400	10,000	NA	NA	NA	NA	NA	9.50	NA	NA	NA
MW-1	01/09/1996	32,000	NA	NA	3,000	240	1,900	3,500	6,100	NA	NA	NA	NA	NA	9.50	2.95	6.55	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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)
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MW-1	04/02/1996	30,000	NA	NA	3,100	260	2.0	3,900	8.0	NA	NA	NA	NA	NA	9.50	2.00	7.50	NA	
MW-1	10/03/1996	18,000	2,800	NA	3,000	120	1,200	1,700	7,500	NA	NA	NA	NA	NA	9.50	3.21	6.29	2.2	
MW-1	04/03/1997	29,000	3,000	NA	2,300	170	2,300	2,900	4,300	NA	NA	NA	NA	NA	9.50	2.84	6.66	2.2	
MW-1	10/08/1997	22,000	3,600	NA	920	71	2,400	2,200	820	NA	NA	NA	NA	NA	9.50	2.58	6.92	1.5	
MW-1	06/10/1998	13,000	2,900	NA	860	<100	1,300	500	29,000	32,000	NA	NA	NA	NA	9.50	2.67	6.83	0.5/0.5	
MW-1 (D)	06/10/1998	9,400	2,100	NA	870	<50	1,300	520	28,000	NA	NA	NA	NA	NA	9.50	2.67	6.83	0.5/0.5	
MW-1	12/30/1998	6,930	1,540	NA	714	52.7	243	<25.0	9,000	NA	NA	NA	NA	NA	9.50	4.68	4.82	1.6/1.4	
MW-1 *	06/25/1999	12,600	NA	NA	1,110	44.7	1,340	710	6,080	NA	NA	NA	NA	NA	9.50	2.86	6.64	1.2/2.1	
MW-1	12/28/1999	3,260	1,170	NA	527	14.0	50.7	40.3	5,430	7,060 b	NA	NA	NA	NA	9.50	3.23	6.27	1.4/1.8	
MW-1	05/31/2000	6,820	2,050	NA	1,620	<50.0	116	<50.0	6,070	4,710	NA	NA	NA	NA	9.50	2.39	7.11	0.98/2.27	
MW-1	10/17/2000	2,530	995 a	NA	388	<10.0	16.4	22.1	917	NA	NA	NA	NA	NA	9.50	2.05	7.45	4.0/3.1	
MW-1	05/01/2001	12,300	1,510	NA	1,480	19.5	205	111	4,160	NA	NA	NA	NA	NA	9.50	3.55	5.95	1.6/1.3	
MW-1	11/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.85 e	4.43	5.42	0.4	
MW-1	11/07/2001	3,000	<1,000	NA	290	6.0	11	15	NA	870	NA	NA	NA	NA	9.85	4.00	5.85	2.1/1.4	
MW-1	05/01/2002	11,000	<2,000	NA	2,100	29	180	68	NA	1,500	NA	NA	NA	NA	9.85	3.14	6.71	3.4/2.3	
MW-1	07/16/2002	7,400	<1,500	NA	1,200	22	37	24	NA	1,900	NA	NA	NA	NA	9.85	3.69	6.16	0.9/0.8	
MW-1	10/17/2002	4,600	<2,000	NA	810	16	68	31	NA	1,600	NA	NA	NA	NA	9.44	4.76	4.68	0.8/1.2	
MW-1	01/21/2003	11,000	<7,000	NA	1,100	28	210	53	NA	1,100	NA	NA	NA	NA	9.44	3.50	5.94	0.3/0.7	
MW-1	05/01/2003	13,000	4,900 a	NA	1,500	33	260	68	NA	1,700	NA	NA	NA	NA	9.44	3.04	6.40	NA	
MW-1	07/17/2003	10,000	3,200 a,f	NA	2,400	<50	250	<100	NA	3,100	NA	NA	NA	NA	9.44	3.92	5.52	NA	
MW-1	10/02/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.44	NA	NA	NA	
MW-1	10/16/2003	8,500	3,700 a	NA	1,100	26	140	41	NA	1,700	NA	NA	NA	NA	9.44	4.65	4.79	NA	
MW-1	01/05/2004	11,000	4,300 a	NA	1,600	29	200	45	NA	1,400	NA	NA	NA	NA	9.44	2.39	7.05	NA	
MW-1	04/01/2004	10,000	3,700 a	NA	1,500	28	330	59	NA	630	NA	NA	NA	NA	9.44	3.06	6.38	NA	
MW-1	08/02/2004	9,100	4,600 a	<1,000	1,700	17	200	24	NA	1,700	<40	<40	<40	2,900	9.44	4.50	4.94	NA	
MW-1	11/02/2004	9,100	3,100 g	<500	2,100	50	140	70	NA	680	NA	NA	NA	NA	9.44	3.08	6.36	NA	
MW-1	01/10/2005	21,000	3,600 g	<500	2,700	31	1,000	880	NA	1,000	NA	NA	NA	NA	9.44	2.43	7.01	NA	
MW-1	04/13/2005	8,800	2,500 a	740	1,500	20	180	130	NA	430	NA	NA	NA	NA	9.44	2.44	7.00	NA	
MW-1	07/20/2005	11,000	5,900 g	530	880	23	150	99	NA	570	<40	<40	<40	2,100	9.44	4.65	4.79	NA	
MW-1	10/24/2005	8,900	5,100 a	1,100 l	2,100	23	68	37	NA	780	NA	NA	NA	NA	760	9.37	3.70	5.67	NA
MW-1	01/04/2006	11,800	2,830 f	279 f	562	12.6	35.0	24.4	NA	99.2	NA	NA	NA	NA	90.7	9.37	1.92	7.45	NA
MW-1	07/26/2006	12,700	5,100	690	389	15.9	55.5	40.1	NA	727	<0.500	<0.500	<0.500	841	9.37	3.18	6.19	NA	
MW-1	01/02/2007	8,700	1,200 f	<100 f	1,000	23	59	32	NA	230	NA	NA	NA	<5.0	9.37	3.21	6.16	NA	
MW-1	07/12/2007	6,600 m	2,500 f	<250 f	1,400	22 n	47	28.0 n	NA	390	<50	<50	<50	310	9.37	3.91	5.46	NA	
MW-1	01/10/2008	7,100 m	1,400 f,o	<250 f	1,500	25	39	34	NA	190	NA	NA	NA	NA	840	9.37	3.03	6.34	NA

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B	T	E	X	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	07/31/2008	12,000	2,500 f,o	<250 f	930	26	33	29	NA	86	<40	<40	<40	<200	9.37	3.72	5.65	NA
MW-1	01/06/2009	6,200	2,600 f,o	<250 f	840	29	72	41	NA	180	NA	NA	NA	260	9.37	3.73	5.64	NA
MW-1	07/01/2009	710	95 f	<250 f	110	7.7	3.8	4.1	NA	37	<2.0	<2.0	<2.0	110	9.37	3.92	5.45	NA
MW-1	01/04/2010	4,400	1,000 f, o	<250 f	510	17	39	23	NA	110	NA	NA	NA	250	9.37	3.62	5.75	NA
MW-2	02/16/1989	20,000	NA	NA	200	900	2,700	9,600	NA	NA	NA	NA	NA	NA	7.68	5.33	2.35	NA
MW-2	05/23/1989	1,500	1,600	NA	4.3	2.9	11	150	NA	NA	NA	NA	NA	NA	7.68	5.23	2.45	NA
MW-2	08/03/1989	15,000	7,400	NA	75	120	850	2,200	NA	NA	NA	NA	NA	NA	7.68	6.03	1.65	NA
MW-2	12/15/1989	5,000	2,600	NA	52	13	4.1	290	NA	NA	NA	NA	NA	NA	7.68	6.43	1.25	NA
MW-2	02/07/1990	13,000	4,800	NA	32	34	230	640	NA	NA	NA	NA	NA	NA	7.68	5.82	1.86	NA
MW-2	04/18/1990	9,800	3,200	NA	33	19	460	1,700	NA	NA	NA	NA	NA	NA	7.68	5.88	1.80	NA
MW-2	07/23/1990	9,600	2,700	NA	41	27	540	940	NA	NA	NA	NA	NA	NA	7.68	6.05	1.63	NA
MW-2	10/01/1990	390	1,600	NA	3.4	15	8.5	25	NA	NA	NA	NA	NA	NA	7.68	NA	NA	NA
MW-2	01/03/1991	1,800	830	NA	56	4.4	4.8	92	NA	NA	NA	NA	NA	NA	7.68	6.82	0.86	NA
MW-2	04/10/1991	1,900	280	NA	ND	28	140	490	NA	NA	NA	NA	NA	NA	7.68	4.80	2.88	NA
MW-2	07/12/1991	8,100	1,100	NA	89	66	350	930	NA	NA	NA	NA	NA	NA	7.68	5.70	1.98	NA
MW-2	10/08/1991	1,400	2,600	NA	5.1	1.5	36	270	NA	NA	NA	NA	NA	NA	7.68	6.40	1.28	NA
MW-2	02/06/1992	2,000	5,400 a	NA	7.8	2.5	130	210	NA	NA	NA	NA	NA	NA	7.68	6.40	1.28	NA
MW-2	05/04/1992	21	1,000	NA	ND	ND	300	960	NA	NA	NA	NA	NA	NA	7.68	4.68	3.00	NA
MW-2	07/28/1992	2,100	830 a	NA	7.7	3.3	130	310	NA	NA	NA	NA	NA	NA	7.68	5.86	1.82	NA
MW-2	10/27/1992	1,100	530	NA	16	3.1	4.5	25	NA	NA	NA	NA	NA	NA	7.68	6.96	0.72	NA
MW-2	01/14/1993	290	170 a	NA	5.2	3.1	8.4	21	NA	NA	NA	NA	NA	NA	7.68	4.12	3.56	NA
MW-2	04/23/1993	2,400	1,200 a	NA	ND	ND	210	610	NA	NA	NA	NA	NA	NA	7.68	3.84	3.84	NA
MW-2	07/20/1993	440	130	NA	1.7	1.7	15	38	NA	NA	NA	NA	NA	NA	10.55	5.17	5.38	NA
MW-2	10/18/1993	2,100	1,600 a	NA	ND	ND	90	110	NA	NA	NA	NA	NA	NA	10.55	6.20	4.35	NA
MW-2	01/06/1994	1.9 a	130	NA	ND	6.7	7.1	12	NA	NA	NA	NA	NA	NA	10.55	5.39	5.16	NA
MW-2	04/12/1994	120	130	NA	ND	ND	3.4	4.3	NA	NA	NA	NA	NA	NA	10.55	4.72	5.83	NA
MW-2	07/25/1994	0.18 a	280 a	NA	5.3	ND	6.2	8.2	NA	NA	NA	NA	NA	NA	10.55	5.44	5.11	NA
MW-2	10/25/1994	170	400	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	10.55	6.73	3.82	NA
MW-2	01/09/1995	ND	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	10.55	4.34	6.21	NA
MW-2	04/11/1995	ND	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	10.55	3.72	6.83	NA
MW-2	07/18/1995	250	160	NA	2.8	0.5	12	13	NA	NA	NA	NA	NA	NA	10.55	4.91	5.64	NA
MW-2	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.55	5.88	4.67	NA
MW-2	01/09/1996	790	130	NA	5.1	1.5	2.4	4.6	1,400	NA	NA	NA	NA	NA	10.55	4.75	5.80	NA
MW-2	04/02/1996	260	NA	NA	<2	<2	13	6.9	540	NA	NA	NA	NA	NA	10.55	3.25	7.30	NA

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B	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	10/03/1996	<2,000	620	NA	<20	<20	<20	<20	13,000	NA	NA	NA	NA	NA	10.55	5.27	5.28	2.3
MW-2	04/03/1997	<1,000	190	NA	<10	<10	<10	<10	2,800	NA	NA	NA	NA	NA	10.55	3.99	6.56	2.2
MW-2	10/08/1997	<5,000	1,100	NA	<50	<50	<50	<50	d	NA	NA	NA	NA	NA	10.55	5.03	5.52	1.6
MW-2	06/10/1998	120	310	NA	1.7	<1.0	<1.0	<1.0	3,800	NA	NA	NA	NA	NA	10.55	4.11	6.44	0.7/0.6
MW-2	12/30/1998	<5,000	1,050	NA	<50.0	<50.0	<50.0	<50.0	12,100	15,300	NA	NA	NA	NA	10.55	4.76	5.79	1.3/1.2
MW-2 *	06/25/1999	<1,000	NA	NA	<10.0	<10.0	<10.0	<10.0	7,570	NA	NA	NA	NA	NA	10.55	4.63	5.92	2.3/2.5
MW-2	12/28/1999	228	446	NA	4.54	<0.500	<0.500	<0.500	4,260	NA	NA	NA	NA	NA	10.55	4.95	5.60	2.1/2.4
MW-2	05/31/2000	597	187	NA	19.3	<0.500	0.860	<0.500	2,480	NA	NA	NA	NA	NA	10.55	4.06	6.49	1.8/2.7
MW-2	10/17/2000	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.55	NA	NA	NA
MW-2	05/01/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.55	NA	NA	NA
MW-2	11/05/2001	<500	610	NA	<5.0	<5.0	<5.0	<5.0	NA	1,800	NA	NA	NA	NA	10.55	6.12	4.43	0.6/1.1
MW-2	05/01/2002	440	<50	NA	<2.5	<2.5	<2.5	<2.5	NA	1,300	NA	NA	NA	NA	10.55	3.85	6.70	6.2/0.9
MW-2	07/16/2002	<500	250	NA	<5.0	<5.0	<5.0	<5.0	NA	2,100	NA	NA	NA	NA	10.55	4.56	5.99	0.9/1.3
MW-2	10/17/2002	280	240	NA	<1.0	<1.0	<1.0	<1.0	NA	270	NA	NA	NA	NA	10.10	5.90	4.20	0.6/2.2
MW-2	01/21/2003	160	72	NA	<0.50	<0.50	<0.50	<0.50	NA	380	NA	NA	NA	NA	10.10	4.11	5.99	0.5/1.0
MW-2	05/01/2003	350	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	110	NA	NA	NA	NA	10.10	4.18	5.92	NA
MW-2	07/17/2003	120	61 a,f	NA	<0.50	<0.50	<0.50	<1.0	NA	14	NA	NA	NA	NA	10.10	4.72	5.38	NA
MW-2	10/02/2003	190	200 a	NA	1.6	<0.50	<0.50	<1.0	NA	17	NA	NA	NA	NA	10.10	5.76	4.34	NA
MW-2	01/05/2004	77	<50	NA	<0.50	0.86	<0.50	<1.0	NA	1.3	NA	NA	NA	NA	10.10	3.28	6.82	NA
MW-2	04/01/2004	450 a	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	1.6	NA	NA	NA	NA	10.10	3.71	6.39	NA
MW-2	08/02/2004	110	130 a	<500	<0.50	<0.50	<0.50	<1.0	NA	3.9	<2.0	<2.0	<2.0	150	10.10	5.50	4.60	NA
MW-2	11/02/2004	130	55 a	<500	<0.50	<0.50	<0.50	<1.0	NA	1.7	NA	NA	NA	NA	10.10	4.37	5.73	NA
MW-2	01/10/2005	81	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	0.65	NA	NA	NA	NA	10.10	3.70	6.40	NA
MW-2	04/13/2005	500	<50 j,k	<500 j,k	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.10	3.13	6.97	NA
MW-2	07/20/2005	810	330 a	<500	11	<5.0	<5.0	<10	NA	11	<20	<20	<20	1,800	10.10	5.75	4.35	NA
MW-2	10/24/2005	320	100 a	<500	<0.50	<0.50	<0.50	<1.0	NA	4.7	NA	NA	NA	570	10.07	5.30	4.77	NA
MW-2	01/04/2006	<50.0	<100 f	<100 f	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	<10.0	10.07	2.35	7.72	NA
MW-2	07/26/2006	402	<93.9	295	<0.500	<0.500	<0.500	<0.500	NA	2.11	<0.500	<0.500	<0.500	19.4	10.07	4.40	5.67	NA
MW-2	01/02/2007	210	<50 f	<100 f	<0.50	<0.50	<0.50	<1.0	NA	1.7	NA	NA	NA	<5.0	10.07	4.37	5.70	NA
MW-2	07/12/2007	140 m	85 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	2.9	<2.0	<2.0	<2.0	150	10.07	5.12	4.95	NA
MW-2	01/10/2008	110 m	54 f,o	<250 f	<0.50	<1.0	<1.0	<1.0	NA	2.0	NA	NA	NA	45	10.07	3.81	6.26	NA
MW-2	07/31/2008	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.07	NA	NA	NA
MW-2	08/07/2008	68	56 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	4.8	<2.0	<2.0	<2.0	290	10.07	5.30	4.77	NA
MW-2	01/06/2009	80	66 f	290 f	<0.50	<1.0	<1.0	<1.0	NA	4.1	NA	NA	NA	330	10.07	4.78	5.29	NA
MW-2	07/01/2009	310	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	2.9	<2.0	<2.0	<2.0	180	10.07	4.74	5.33	NA

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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)
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MW-2	01/04/2010	100	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	3.0	NA	NA	NA	110	10.07	4.52	5.55	NA
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MW-3	02/16/1989	60,000	NA	NA	5,500	ND	3,200	5,200	NA	NA	NA	NA	NA	NA	7.81	5.17	2.64	NA
MW-3	05/23/1989	ND	1,500	NA	ND	200	ND	ND	NA	NA	NA	NA	NA	NA	7.81	5.09	2.72	NA
MW-3	08/03/1989	2,000	1,200	NA	120	ND	ND	86	NA	NA	NA	NA	NA	NA	7.81	5.34	2.47	NA
MW-3	12/15/1989	5,200	1,700	NA	380	12	17	410	NA	NA	NA	NA	NA	NA	7.81	6.02	1.79	NA
MW-3	02/07/1990	260	230	NA	17	47	5.4	2.5	NA	NA	NA	NA	NA	NA	7.81	4.95	2.86	NA
MW-3	04/18/1990	260	ND	NA	ND	ND	ND	9.4	NA	NA	NA	NA	NA	NA	7.81	5.55	2.26	NA
MW-3	07/23/1990	510	210	NA	46	ND	ND	9.3	NA	NA	NA	NA	NA	NA	7.81	5.81	2.00	NA
MW-3	09/27/1990	460	350	NA	6.3	1.2	ND	15	NA	NA	NA	NA	NA	NA	7.81	6.86	0.95	NA
MW-3	01/03/1991	4,800	630	NA	920	1.7	ND	190	NA	NA	NA	NA	NA	NA	7.81	6.84	0.97	NA
MW-3	04/10/1991	120	60	NA	1.2	8.8	3.5	21	NA	NA	NA	NA	NA	NA	7.81	4.93	2.88	NA
MW-3	07/12/1991	430	ND	NA	12	0.8	ND	7.7	NA	NA	NA	NA	NA	NA	7.81	5.56	2.25	NA
MW-3	10/08/1991	770	560	NA	140	ND	ND	53	NA	NA	NA	NA	NA	NA	7.81	6.62	1.19	NA
MW-3	02/06/1992	500	340 a	NA	74	0.7	5.2	5.3	NA	NA	NA	NA	NA	NA	7.81	6.28	1.53	NA
MW-3	05/04/1992	310	290 a	NA	47	0.9	17	16	NA	NA	NA	NA	NA	NA	7.81	4.65	3.16	NA
MW-3	07/28/1992	780	100 a	NA	130	ND	13	4.2	NA	NA	NA	NA	NA	NA	7.81	5.56	2.25	NA
MW-3	10/27/1992	740	69 a	NA	92	ND	7.8	9.6	NA	NA	NA	NA	NA	NA	7.81	6.65	1.16	NA
MW-3	01/14/1993	ND	ND	NA	2.4	2.8	ND	ND	NA	NA	NA	NA	NA	NA	7.81	3.88	3.93	NA
MW-3	04/23/1993b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.81	NA	NA	NA
MW-3	07/20/1993b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	NA	NA	NA
MW-3	10/18/1993b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	NA	NA	NA
MW-3	01/06/1994	130	64	NA	1.7	ND	ND	0.93	NA	NA	NA	NA	NA	NA	11.25 (TOB)	5.54	NA	NA
MW-3	04/12/1994	ND	75	NA	0.82	ND	ND	0.7	NA	NA	NA	NA	NA	NA	11.25 (TOB)	4.82	NA	NA
MW-3	07/25/1994	0.06 a	ND	NA	2.8	ND	ND	0.7	NA	NA	NA	NA	NA	NA	11.25 (TOB)	6.03 (TOB)	5.22	NA
MW-3	10/25/1994	70	100	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	6.48	NA	NA
MW-3	01/09/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	11.25 (TOB)	4.86 (TOB)	6.39	NA
MW-3	04/11/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	11.25 (TOB)	4.22 (TOB)	7.03	NA
MW-3	07/18/1995	ND	90	NA	2.8	ND	ND	ND	NA	NA	NA	NA	NA	NA	11.25 (TOB)	5.44 (TOB)	5.81	NA
MW-3	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	5.72	NA	NA
MW-3	01/09/1996	90	90	NA	1.7	ND	<0.5	<0.5	61	NA	NA	NA	NA	NA	11.25 (TOB)	4.96	NA	NA
MW-3	04/02/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	24	NA	NA	NA	NA	NA	11.25 (TOB)	3.43	NA	NA
MW-3	10/03/1996	<500	180	NA	<5	<5	<5	<5	1,200	NA	NA	NA	NA	NA	11.25 (TOB)	5.39	NA	2.4
MW-3	04/03/1997	150	83	NA	3.2	<0.50	<0.50	0.81	280	NA	NA	NA	NA	NA	11.25 (TOB)	4.20	NA	2.0
MW-3	10/08/1997	180	120	NA	7.3	0.68	0.54	3.9	1,700	NA	NA	NA	NA	NA	11.25 (TOB)	5.51(TOB)	5.74	2.1

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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	06/10/1998	130	120	NA	12	0.85	<0.50	2.1	600	NA	NA	NA	NA	NA	11.25 (TOB)	3.91 (TOB)	7.34	0.8/0.9
MW-3	12/30/1998	<250	108	NA	<2.50	<2.50	<2.50	<2.50	1,010	NA	NA	NA	NA	NA	11.25 (TOB)	5.76 (TOB)	5.49	1.3/1.4
MW-3 *	06/25/1999	269	NA	NA	4.24	<2.50	<2.50	<2.50	1,180	NA	NA	NA	NA	NA	11.25 (TOB)	4.73	NA	1.4/1.9
MW-3	12/28/1999	333	122	NA	41.4	6.48	6.57	21.3	2,680	NA	NA	NA	NA	NA	11.25 (TOB)	5.75 (TOB)	5.50	1.3/1.5
MW-3	05/31/2000	1,180	89.2	NA	19.1	1.92	3.26	<1.00	2,130	NA	NA	NA	NA	NA	11.25 (TOB)	4.96 (TOB)	6.29	1.2/2.2
MW-3	10/17/2000	156	183 a	NA	5.22	0.819	<0.500	1.53	2,250	NA	NA	NA	NA	NA	11.25 (TOB)	5.70 (TOB)	5.55	2.0/2.1
MW-3	05/01/2001	286	95.9	NA	<2.50	<2.50	<2.50	<2.50	1,470	NA	NA	NA	NA	NA	11.25 (TOB)	4.88 (TOB)	6.37	1.9/2.7
MW-3	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	5.25 (TOB)	6.00	3.0/1.9
MW-3	11/05/2001	<500	<50	NA	<5.0	<5.0	<5.0	<5.0	NA	2,100	NA	NA	NA	NA	11.25 (TOB)	6.25 (TOB)	5.00	0.5/1.9
MW-3	05/01/2002	<100	80	NA	<1.0	<1.0	<1.0	<1.0	NA	430	NA	NA	NA	NA	11.25 (TOB)	4.77 (TOB)	6.48	4.1/0.7
MW-3	07/16/2002	410	340	NA	12	2.0	<2.0	3.5	NA	530	NA	NA	NA	NA	11.25 (TOB)	5.44 (TOB)	5.81	0.3/1.7
MW-3	10/17/2002	220	82	NA	2.5	<2.0	<2.0	2.3	NA	25	NA	NA	NA	NA	10.58	6.03	4.55	0.8/2.4
MW-3	01/21/2003	<50	150	NA	<0.50	<0.50	<0.50	<0.50	NA	28	NA	NA	NA	NA	10.58	4.30	6.28	1.2/1.0
MW-3	05/01/2003	60	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	16	NA	NA	NA	NA	10.58	4.30	6.28	NA
MW-3	07/17/2003	120	<50	NA	1.2	<0.50	<0.50	<1.0	NA	11	NA	NA	NA	NA	10.58	5.36	5.22	NA
MW-3	10/02/2003	160	56 a	NA	3.1	1.1	<0.50	2.1	NA	8.2	NA	NA	NA	NA	10.58	6.00	4.58	NA
MW-3	01/05/2004	54	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	15	NA	NA	NA	NA	10.58	4.44	6.14	NA
MW-3	04/01/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	4.2	NA	NA	NA	NA	10.58	4.29	6.29	NA
MW-3	08/02/2004	300	<50	<500	<2.5	<2.5	<2.5	<5.0	NA	17	<10	<10	<10	1,900	10.58	5.80	4.78	NA
MW-3	11/02/2004	72	<50	<500	0.51	<0.50	<0.50	<1.0	NA	3.0	NA	NA	NA	NA	10.58	5.00	5.58	NA
MW-3	01/10/2005	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.58	3.01	7.57	NA
MW-3	04/13/2005	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	0.69	NA	NA	NA	NA	10.58	2.89	7.69	NA
MW-3	07/20/2005	300	60 g	<500	1.3	0.61	<0.50	1.2	NA	4.7	<2.0	<2.0	<2.0	780	10.58	5.10	5.48	NA
MW-3	10/24/2005	210	57 a	<500	1.2	<1.0	<1.0	<2.0	NA	6.3	NA	NA	NA	1,300	10.58	5.68	4.90	NA
MW-3	01/04/2006	<50.0	<100 f	<100 f	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	<10.0	10.58	2.80	7.78	NA
MW-3	07/26/2006	681	94.6	264	1.67	1.04	<0.500	1.75	NA	13.4	<0.500	<0.500	<0.500	1,500	10.58	4.70	5.88	NA
MW-3	01/02/2007	150	<50 f	<100 f	<0.50	<0.50	<0.50	<1.0	NA	3.7	NA	NA	NA	600	10.58	4.96	5.62	NA
MW-3	07/12/2007	240 m	<50 f	<250 f	0.28 n	0.45 n	<1.0	0.93 n	NA	9.6	<2.0	0.48 n	<2.0	1,000	10.58	5.50	5.08	NA
MW-3	01/10/2008	160 m	82 f,o	<250 f	<1.0	<2.0	<2.0	<2.0	NA	4.2	NA	NA	NA	940	10.58	4.72	5.86	NA
MW-3	07/31/2008	160	<50 f	<250 f	<1.0	<2.0	<2.0	<2.0	NA	11	<4.0	<4.0	<4.0	1,300	10.58	5.63	4.95	NA
MW-3	01/06/2009	130	220 f	310 f	<1.0	<2.0	<2.0	<2.0	NA	8.9	NA	NA	NA	870	10.58	5.48	5.10	NA
MW-3	07/01/2009	170	260 f	<250 f	6.7	<1.0	<1.0	1.4	NA	16	<2.0	<2.0	<2.0	640	10.58	5.31	5.27	NA
MW-3	01/04/2010	290	95 f	<250 f	11	1.0	<1.0	1.3	NA	11	NA	NA	NA	370	10.58	5.01	5.57	NA
MW-4	05/23/1989	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	5.60	1.78	NA

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MW-4	08/03/1989	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.37	1.01	NA
MW-4	12/15/1989	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.91	0.47	NA
MW-4	03/08/1990	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.06	1.32	NA
MW-4	04/18/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.38	5.84	1.54	NA
MW-4	07/23/1990	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.92	0.46	NA
MW-4	09/27/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	8.03	0.65	NA
MW-4	01/03/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.38	7.54	-0.16	NA
MW-4	04/10/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	5.06	2.32	NA
MW-4	07/12/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.86	0.52	NA
MW-4	10/08/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	7.44	-0.06	NA
MW-4	02/06/1992	120	2,500 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	7.29	0.09	NA
MW-4	05/04/1992	ND	53	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	5.33	2.05	NA
MW-4	07/28/1992	ND	60	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.95	0.43	NA
MW-4	10/27/1992	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	7.65	-0.27	NA
MW-4	01/14/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	4.84	2.54	NA
MW-4	04/23/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	4.84	2.54	NA
MW-4	07/20/1993	ND	ND	NA	2.2	ND	1.1	7.7	NA	NA	NA	NA	NA	NA	10.28	6.47	3.81	NA
MW-4	10/18/1993	ND	ND	NA	ND	1.2	ND	ND	NA	NA	NA	NA	NA	NA	10.28	7.35	2.93	NA
MW-4	01/06/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	7.64	2.64	NA
MW-4	04/12/1994	ND	76	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	6.39	3.89	NA
MW-4	07/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	7.00	3.28	NA
MW-4	10/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	7.53	2.75	NA
MW-4	01/09/1995	ND	70 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	4.90	5.38	NA
MW-4	04/11/1995	ND	140	NA	1.5	ND	0.6	3.4	NA	NA	NA	NA	NA	NA	10.28	5.04	5.24	NA
MW-4	07/18/1995	ND	160	NA	13	3.4	ND	ND	NA	NA	NA	NA	NA	NA	10.28	6.18	4.10	NA
MW-4	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	6.63	3.65	NA
MW-4	01/09/1996	<50	ND	NA	<0.5	ND	<0.5	<0.5	ND	NA	NA	NA	NA	NA	10.28	3.82	6.46	NA
MW-4	04/02/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.28	3.97	6.31	NA
MW-4	10/03/1996	<50	81	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.28	3.74	6.54	NA
MW-4	04/03/1997	<50	69	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.28	3.74	6.54	1.8
MW-4	10/08/1997	<50	75	NA	<0.50	<0.50	<0.50	<0.50	13	NA	NA	NA	NA	NA	10.28	4.89	5.39	2.0
MW-4 (D)	10/08/1997	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.28	4.89	5.39	2.0
MW-4	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	4.39	5.89	NA
MW-4	12/30/1998	<50.0	94.1	NA	<0.500	<0.500	<0.500	0.580	7.33	NA	NA	NA	NA	NA	10.28	5.58	4.70	1.7/1.6
MW-4	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	4.17	6.11	NA

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MW-4	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	10.28	4.54	5.74	1.4/1.5
MW-4	05/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	3.85	6.43	NA
MW-4	10/17/2000	<50.0	274 a	NA	<0.500	<0.500	<0.500	<0.500	9.40	NA	NA	NA	NA	NA	10.28	3.50	6.78	3.8/4.0
MW-4	05/01/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	4.10	6.18	NA
MW-4	11/05/2001	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	8.4	NA	NA	NA	NA	10.28	5.21	5.07	1.3/1.5
MW-4	05/01/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.28	4.28	6.00	2.6/1.1
MW-4	07/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	3.87	6.41	NA
MW-4	10/17/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	9.83	4.66	5.17	1.4/2.4
MW-4	01/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	3.87	5.96	NA
MW-4	05/01/2003	<50	57 a	NA	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	9.83	4.49	5.34	NA
MW-4	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	5.46	4.37	NA
MW-4	10/02/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	5.9	NA	NA	NA	NA	9.83	5.51	4.32	NA
MW-4	01/05/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	3.83	6.00	NA
MW-4	04/01/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	3.0	NA	NA	NA	NA	9.83	4.43	5.40	NA
MW-4	08/02/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	5.05	4.78	NA
MW-4	11/02/2004	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	3.8	NA	NA	NA	NA	9.83	4.31	5.52	NA
MW-4	01/10/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	3.51	6.32	NA
MW-4	04/13/2005	<50	83 a,j,k	<500 j,k	<0.50	<0.50	<0.50	<1.0	NA	5.1	NA	NA	NA	NA	9.83	3.77	6.06	NA
MW-4	07/20/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	5.91	3.92	NA
MW-4	10/24/2005	<50	92 g	<500	<0.50	<0.50	<0.50	<1.0	NA	3.9	NA	NA	NA	NA	9.83	3.98	5.85	NA
MW-4	01/04/2006	<50.0	<100 f	<100 f	<0.500	<0.500	<0.500	<0.500	NA	2.90	NA	NA	NA	<10.0	9.83	3.45	6.38	NA
MW-4	07/26/2006	<50.0	<93.9	364	<0.500	<0.500	<0.500	<0.500	NA	2.39	<0.500	<0.500	<0.500	55.5	9.83	3.65	6.18	NA
MW-4	01/02/2007	<50	<50 f	<100 f	<0.50	<0.50	<0.50	<1.0	NA	1.6	NA	NA	NA	NA	9.83	4.15	5.68	NA
MW-4	07/12/2007	<50 m	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	2.0	<2.0	<2.0	<2.0	<10	9.83	4.40	5.43	NA
MW-4	01/10/2008	<50 m	76 f,o	<250 f	<0.50	<1.0	<1.0	<1.0	NA	2.0	NA	NA	NA	NA	9.83	4.27	5.56	NA
MW-4	07/31/2008	<50	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	1.9	<2.0	<2.0	<2.0	<10	9.83	4.00	5.83	NA
MW-4	01/06/2009	<50	96 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	1.8	NA	NA	NA	NA	9.83	4.73	5.10	NA
MW-4	07/01/2009	<50	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	2.0	<2.0	<2.0	<2.0	<10	9.83	4.70	5.13	NA
MW-4	01/04/2010	<50	53 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	1.1	NA	NA	NA	<10	9.83	4.64	5.19	NA

MW-5	05/23/1989	26,000	7,000	NA	1,500	280	ND	8,100	NA	NA	NA	NA	NA	NA	8.18	5.47	2.71	NA
MW-5	08/03/1989	12,000	8,700	NA	860	94	ND	2,600	NA	NA	NA	NA	NA	NA	8.18	5.94	2.24	NA
MW-5	12/15/1989	1,000	710	NA	22	35	18	44	NA	NA	NA	NA	NA	NA	8.18	6.75	1.43	NA
MW-5	02/07/1990	ND	620	NA	0.8	ND	ND	ND	NA	NA	NA	NA	NA	NA	8.18	6.03	2.15	NA
MW-5	04/18/1990	19,000	5,000	NA	4,500	850	97	8,000	NA	NA	NA	NA	NA	NA	8.18	5.80	2.38	NA

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MW-5	07/23/1990	23,000	2,700	NA	3,600	400	160	6,500	NA	NA	NA	NA	NA	NA	8.18	6.00	2.18	NA
MW-5	09/23/1990	5,400	550	NA	1,400	26	13	1,300	NA	NA	NA	NA	NA	NA	8.18	7.18	1.00	NA
MW-5	01/03/1991	860	560	NA	280	2.8	0.8	45	NA	NA	NA	NA	NA	NA	8.18	7.17	1.01	NA
MW-5	04/10/1991	12,000	1,800	NA	710	130	500	2,400	NA	NA	NA	NA	NA	NA	8.18	5.25	2.93	NA
MW-5	07/12/1991	24,000	1,700	NA	2,200	280	430	5,700	NA	NA	NA	NA	NA	NA	8.18	5.70	2.48	NA
MW-5	10/08/1991	2,800	1,400	NA	860	13	ND	580	NA	NA	NA	NA	NA	NA	8.18	6.50	1.68	NA
MW-5	02/06/1992	1,000	1,200	NA	300	ND	14	62	NA	NA	NA	NA	NA	NA	8.18	6.35	1.83	NA
MW-5	05/04/1992	10,000	4,100 a	NA	1,500	350	710	2,300	NA	NA	NA	NA	NA	NA	8.18	4.87	3.31	NA
MW-5	07/28/1992	12,000	3,800 a	NA	2,200	63	1,400	3,500	NA	NA	NA	NA	NA	NA	8.18	5.73	2.45	NA
MW-5	10/27/1992	7,500	480 a	NA	1,100	59	230	900	NA	NA	NA	NA	NA	NA	8.18	6.98	1.20	NA
MW-5	01/14/1993	7,700	1,100 a	NA	420	49	570	840	NA	NA	NA	NA	NA	NA	8.18	4.70	3.48	NA
MW-5	04/23/1993	110,000	1,600 a	NA	2,900	2,500	3,400	12,000	NA	NA	NA	NA	NA	NA	8.18	4.19	3.99	NA
MW-5	07/20/1993	18a	1,200 a	NA	1,400	84	1,500	3,200	NA	NA	NA	NA	NA	NA	10.87	5.10	5.77	NA
MW-5	10/18/1993	14,000	5,800 a	NA	2,000	100	2,300	5,100	NA	NA	NA	NA	NA	NA	10.87	5.79	5.08	NA
MW-5	01/06/1994	81,000	1,100 a	NA	11,000	9,300	3,600	12,000	NA	NA	NA	NA	NA	NA	10.87	5.56	5.31	NA
MW-5	04/12/1994	17,000	4,100	NA	2,900	380	430	1,300	NA	NA	NA	NA	NA	NA	10.87	4.90	5.97	NA
MW-5	07/25/1994	5,900	5,400 a	NA	1,500	42	34	170	NA	NA	NA	NA	NA	NA	10.87	5.38	5.49	NA
MW-5	10/25/1994	2,300	1,900 a	NA	35	3	ND	8	NA	NA	NA	NA	NA	NA	10.87	6.16	4.71	NA
MW-5	01/09/1995	8,300	3,700 a	NA	1,500	95	330	1,900	NA	NA	NA	NA	NA	NA	10.87	4.60	6.27	NA
MW-5	04/11/1995	7,300	9,800	NA	1,200	230	600	550	NA	NA	NA	NA	NA	NA	10.87	3.74	7.13	NA
MW-5	07/18/1995	17,000	5,100	NA	2,300	730	770	2,500	NA	NA	NA	NA	NA	NA	10.87	4.97	5.90	NA
MW-5	10/18/1995	Well abandoned		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.87	5.67	5.20	NA

MW-6	05/23/1989	22,000	7,000	NA	16	6.5	7	3,400	NA	NA	NA	NA	NA	NA	8.21	5.47	2.74	NA
MW-6	08/03/1989	28,000	8,800	NA	1,200	130	2,100	2,800	NA	NA	NA	NA	NA	NA	8.21	5.91	2.30	NA
MW-6	12/15/1989	16,000	5,500	NA	370	92	200	180	NA	NA	NA	NA	NA	NA	8.21	5.98	2.23	NA
MW-6	02/07/1990	22,000	2,600	NA	520	85	630	770	NA	NA	NA	NA	NA	NA	8.21	5.47	2.74	NA
MW-6	04/18/1990	21,000	5,700	NA	900	77	2,700	2,700	NA	NA	NA	NA	NA	NA	8.21	5.80	2.41	NA
MW-6	07/23/1990	24,000	3,000	NA	1,000	94	3,400	2,700	NA	NA	NA	NA	NA	NA	8.21	5.85	2.36	NA
MW-6	09/27/1990	22,000	ND	NA	700	93	2,500	2,400	NA	NA	NA	NA	NA	NA	8.21	6.42	1.79	NA
MW-6	01/03/1991	25,000	960	NA	1,000	88	2,600	3,700	NA	NA	NA	NA	NA	NA	8.21	6.73	1.48	NA
MW-6	04/10/1991	18,000	920	NA	560	190	480	830	NA	NA	NA	NA	NA	NA	8.21	5.24	2.97	NA
MW-6	07/12/1991	9,500	1,900	NA	670	51	1,100	920	NA	NA	NA	NA	NA	NA	8.21	5.78	2.43	NA
MW-6	10/08/1991	11,000	5,100	NA	1,000	43	ND	ND	NA	NA	NA	NA	NA	NA	8.21	6.36	1.85	NA
MW-6	02/06/1992	7,200	1,500 a	NA	560	8	720	160	NA	NA	NA	NA	NA	NA	8.21	6.15	2.06	NA

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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	05/04/1992	7,900	2,900 a	NA	610	ND	1,500	240	NA	NA	NA	NA	NA	NA	8.21	5.07	3.14	NA
MW-6	07/28/1992	17,000	3,200 a	NA	1,200	ND	3,000	610	NA	NA	NA	NA	NA	NA	8.21	5.85	2.36	NA
MW-6	10/27/1992	15,000	1,300 a	NA	1,300	130	1,700	490	NA	NA	NA	NA	NA	NA	8.21	6.69	1.52	NA
MW-6	01/14/1993	4,900	1,600 a	NA	80	31	330	37	NA	NA	NA	NA	NA	NA	8.21	4.52	3.69	NA
MW-6	04/23/1993	4,800	1,800 a	NA	120	ND	780	73	NA	NA	NA	NA	NA	NA	8.21	4.32	3.89	NA
MW-6	07/20/1993	19 a	910 a	NA	570	18	1,100	130	NA	NA	NA	NA	NA	NA	11.04	5.39	5.65	NA
MW-6	10/18/1993	24,000	2,500 a	NA	770	440	1,600	830	NA	NA	NA	NA	NA	NA	11.04	6.67	4.37	NA
MW-6	01/06/1994	20 a	2,300 a	NA	450	30	530	52	NA	NA	NA	NA	NA	NA	11.04	5.66	5.38	NA
MW-6	04/12/1994	3,600	1,600	NA	150	ND	340	21	NA	NA	NA	NA	NA	NA	11.04	4.91	6.13	NA
MW-6	07/25/1994	1,600	2,200 a	NA	160	ND	ND	10	NA	NA	NA	NA	NA	NA	11.04	5.55	5.49	NA
MW-6 (D)	07/25/1994	1,000	2,400 a	NA	160	ND	ND	18	NA	NA	NA	NA	NA	NA	11.04	5.55	5.49	NA
MW-6	10/25/1994	9,800	3,000 a	NA	390	22	300	57	NA	NA	NA	NA	NA	NA	11.04	6.24	4.80	NA
MW-6	01/09/1995	2,200	800 a	NA	74	12	400	39	NA	NA	NA	NA	NA	NA	11.04	4.58	6.46	NA
MW-6	04/11/1995	5,000	7,700	NA	330	15	760	85	NA	NA	NA	NA	NA	NA	11.04	4.04	7.00	NA
MW-6	07/18/1995	4,200	1,700	NA	320	11	490	22	NA	NA	NA	NA	NA	NA	11.04	5.01	6.03	NA
MW-6	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.04	5.86	5.18	NA
MW-6	01/09/1996	5,600	790	NA	59	<5	180	12	14,000	NA	NA	NA	NA	NA	11.04	4.75	6.29	NA
MW-6	04/02/1996	1,500	NA	NA	12	<5	170	9	1,900	NA	NA	NA	NA	NA	11.04	3.82	7.22	NA
MW-6	10/03/1996	2,600	1,800	NA	110	<25	<25	<25	11,000	NA	NA	NA	NA	NA	11.04	5.27	5.77	2.2
MW-6	04/03/1997	<2,500	650	NA	30	<25	32	<25	10,000	NA	NA	NA	NA	NA	11.04	4.42	6.62	2.0
MW-6	10/08/1997	1,900	1,100	NA	31	<5.0	6.1	<5.0	2,600	NA	NA	NA	NA	NA	11.04	4.70	6.34	1.0
MW-6	06/10/1998	<1,000	1,500	NA	17	12	14	88	14,000	NA	NA	NA	NA	NA	11.04	4.36	6.68	0.4/0.4
MW-6	12/30/1998	260	528	NA	<2.50	<2.50	<2.50	<2.50	909	NA	NA	NA	NA	NA	11.04	4.98	6.06	2.1/1.6
MW-6 *	06/25/1999	<2,500	NA	NA	<25.0	<25.0	<25.0	<25.0	8,850	7,630	NA	NA	NA	NA	11.04	4.81	6.23	1.4/3.6
MW-6	12/28/1999	526	416	NA	7.60	<1.00	<1.00	<1.00	1,510	NA	NA	NA	NA	NA	11.04	5.17	5.87	1.8/2.0
MW-6	05/31/2000	2,870	998	NA	45.7	4.70	8.61	<2.50	3,780	NA	NA	NA	NA	NA	11.04	4.58	6.46	0.92/2.30
MW-6	10/17/2000	2,370	944 a	NA	49.8	5.36	<5.00	<5.00	746	NA	NA	NA	NA	NA	11.04	4.80	6.24	2.5/2.1
MW-6	05/01/2001	3,000	706	NA	2.72	<2.50	4.46	<2.50	473	NA	NA	NA	NA	NA	11.04	4.75	6.29	2.2/1.6
MW-6	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.04	4.86	6.18	2.0/1.3
MW-6	11/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.04	5.73	5.31	0.6
MW-6	11/07/2001	1,700	180	NA	1.3	1.2	1.3	1.1	NA	430	NA	NA	NA	NA	11.04	5.75	5.29	2.4/1.8
MW-6	05/01/2002	1,400	<300	NA	2.0	0.61	4.3	0.68	NA	220	NA	NA	NA	NA	11.04	4.47	6.57	2.5/2.0
MW-6	07/16/2002	3,500	<600	NA	31	1.5	5.7	1.2	NA	220	NA	NA	NA	NA	11.04	5.05	5.99	0.6/0.6
MW-6	10/17/2002	3,000	<700	NA	27	1.7	2.9	1.8	NA	340	NA	NA	NA	NA	10.59	5.80	4.79	1.2/1.1
MW-6	01/21/2003	900	<200	NA	1.5	<0.50	1.4	<0.50	NA	73	NA	NA	NA	NA	10.59	4.39	6.20	0.8/0.6

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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)
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MW-6	05/01/2003	700 a	160 a	NA	0.58	<0.50	0.82	<1.0	NA	71	NA	NA	NA	NA	10.59	4.19	6.40	NA
MW-6	07/17/2003	<1,200	220 a,f	NA	<12	<12	<12	<25	NA	840	NA	NA	NA	NA	10.59	5.22	5.37	NA
MW-6	10/02/2003	<1,000	300 a	NA	<10	<10	<10	<20	NA	1,500	NA	NA	NA	NA	10.59	5.86	4.73	NA
MW-6	01/05/2004	520	140 a	NA	<0.50	0.72	<0.50	<1.0	NA	30	NA	NA	NA	NA	10.59	3.79	6.80	NA
MW-6	04/01/2004	650	220 a	NA	<0.50	<0.50	0.54	<1.0	NA	130	NA	NA	NA	NA	10.59	4.28	6.31	NA
MW-6	08/02/2004	1,600	500 a	<500	<2.5	<2.5	<2.5	<5.0	NA	480	<10	<10	<10	900	10.59	5.78	4.81	NA
MW-6	11/02/2004	580	150 g	<500	<0.50	<0.50	<0.50	<1.0	NA	55	NA	NA	NA	NA	10.59	4.73	5.86	NA
MW-6	01/10/2005	620	230 g	<500	<0.50	<0.50	0.50	<1.0	NA	17	NA	NA	NA	NA	10.59	3.70	6.89	NA
MW-6	04/13/2005	2,000	570 a,j,k	520 j,k	0.98	1.7	1.2	1.2	NA	190	NA	NA	NA	NA	10.59	3.75	6.84	NA
MW-6	07/20/2005	2,800	1,200 a	<500	<2.0	2.1	<2.0	<4.0	NA	320	<8.0	<8.0	<8.0	1,800	10.59	5.95	4.64	NA
MW-6	10/24/2005	2,000	1,300 a	<500	<2.0	<2.0	<2.0	<4.0	NA	200	NA	NA	NA	560	9.14	5.21	3.93	NA
MW-6	01/04/2006	1,140	216 f	<100 f	<0.500	<0.500	<0.500	<0.500	NA	11.3	NA	NA	NA	50.4	9.14	3.36	5.78	NA
MW-6	07/26/2006	4,650	1,460	881	1.63	1.71	0.580	1.64	NA	128	<0.500	<0.500	<0.500	375	9.14	4.76	4.38	NA
MW-6	01/02/2007	1,300	180 f	<100 f	0.51	0.52	<0.50	<1.0	NA	39	NA	NA	NA	81	9.14	4.54	4.60	NA
MW-6	07/12/2007	1,700 m	540 f	<250 f	0.31 n	1.0	0.24 n	0.94 n	NA	49	<2.0	<2.0	<2.0	120	9.14	5.12	4.02	NA
MW-6	01/10/2008	900 m	200 f,o	<250 f	<0.50	<1.0	<1.0	<1.0	NA	4.0	NA	NA	NA	11	9.14	4.33	4.81	NA
MW-6	07/31/2008	740	110 f,o	<250 f	<0.50	<1.0	<1.0	<1.0	NA	12	<2.0	<2.0	<2.0	<10	9.14	4.95	4.19	NA
MW-6	01/06/2009	480	120 f,o	<250 f	<0.50	<1.0	<1.0	<1.0	NA	4.0	NA	NA	NA	11	9.14	4.80	4.34	NA
MW-6	07/01/2009	1,200	190 f,o	<250 f	<0.50	<1.0	<1.0	<1.0	NA	24	<2.0	<2.0	<2.0	85	9.14	4.94	4.20	NA
MW-6	01/04/2010	390	63 f,o	<250 f	<0.50	<1.0	<1.0	<1.0	NA	1.6	NA	NA	NA	11	9.14	4.67	4.47	NA

MW-7	05/23/1989	47,000	11,000	NA	3,500	5,000	1,500	7,800	NA	NA	NA	NA	NA	NA	7.44	5.48	1.96	NA
MW-7	08/03/1989	68,000	22,000	NA	6,200	6,600	3,600	8,800	NA	NA	NA	NA	NA	NA	7.44	4.22	3.22	NA
MW-7	12/15/1989	100,000	12,000	NA	4,500	5,300	1,300	5,300	NA	NA	NA	NA	NA	NA	7.44	4.58	2.86	NA
MW-7	02/07/1990	96,000	8,100	NA	15,000	15,000	2,500	14,000	NA	NA	NA	NA	NA	NA	7.44	5.34	2.10	NA
MW-7	04/18/1990	94,000	10,000	NA	25,000	13,000	3,300	13,000	NA	NA	NA	NA	NA	NA	7.44	4.92	2.52	NA
MW-7	07/23/1990	84,000	12,000	NA	3,800	26,000	13,000	3,000	NA	NA	NA	NA	NA	NA	7.44	4.99	2.45	NA
MW-7	09/27/1990	43,000	ND	NA	25,000	6,100	2,400	9,000	NA	NA	NA	NA	NA	NA	7.44	6.16	1.28	NA
MW-7	01/03/1991	78,000	3,100	NA	26,000	16,000	3,000	14,000	NA	NA	NA	NA	NA	NA	7.44	4.96	2.48	NA
MW-7	04/10/1991	140,000	1,800	NA	26,000	16,000	2,200	14,000	NA	NA	NA	NA	NA	NA	7.44	4.13	3.31	NA
MW-7	07/12/1991	79,000	1,100	NA	7,700	7,200	2,300	10,000	NA	NA	NA	NA	NA	NA	7.44	4.98	2.46	NA
MW-7	10/08/1991	55,000	390 a	NA	29,000	7,500	1,800	9,300	NA	NA	NA	NA	NA	NA	7.44	5.48	1.96	NA
MW-7	02/06/1992	63,000	9,600 a	NA	16,000	8,700	1,600	7,400	NA	NA	NA	NA	NA	NA	7.44	5.05	2.39	NA
MW-7	05/04/1992	67,000	9,800 a	NA	22,000	13,000	1,800	9,400	NA	NA	NA	NA	NA	NA	7.44	4.43	3.01	NA
MW-7	07/28/1992	85,000	13,000 a	NA	26,000	17,000	2,900	15,000	NA	NA	NA	NA	NA	NA	7.44	4.88	2.56	NA

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MW-7	10/27/1992	63,000	1,900 a	NA	21,000	11,000	3,000	11,000	NA	NA	NA	NA	NA	NA	7.44	5.39	2.05	NA
MW-7	01/14/1993	120,000	2,300 a	NA	28,000	21,000	1,600	15,000	NA	NA	NA	NA	NA	NA	7.44	4.26	3.18	NA
MW-7	04/23/1993	60,000	12,000 a	NA	17,000	3,700	2,200	11,000	NA	NA	NA	NA	NA	NA	7.44	4.04	3.40	NA
MW-7 (D)	04/23/1993	50,000	14,000 a	NA	17,000	4,200	2,200	11,000	NA	NA	NA	NA	NA	NA	7.44	4.04	3.40	NA
MW-7	07/20/1993	47,000	13,000	NA	23,000	9,900	2,200	12,000	NA	NA	NA	NA	NA	NA	10.28	4.36	5.92	NA
MW-7	10/18/1993	44,000	10,000 a	NA	22,000	3,800	2,600	10,000	NA	NA	NA	NA	NA	NA	10.28	5.14	5.14	NA
MW-7	01/06/1994	65,000	5,200 a	NA	16,000	4,900	1,900	8,500	NA	NA	NA	NA	NA	NA	10.28	4.83	5.45	NA
MW-7	04/12/1994	68,000	3,400	NA	12,000	2,000	580	6,400	NA	NA	NA	NA	NA	NA	10.28	4.24	6.04	NA
MW-7	07/25/1994	63,000	4,200 a	NA	16,000	5,800	300	8,300	NA	NA	NA	NA	NA	NA	10.28	4.58	5.70	NA
MW-7	10/25/1994	46,000	3,800 a	NA	16,000	3,700	1,200	7,300	NA	NA	NA	NA	NA	NA	10.28	5.07	5.21	NA
MW-7	01/09/1995	62,000	3,300 a	NA	24,000	8,500	1,100	9,400	NA	NA	NA	NA	NA	NA	10.28	3.38	6.90	NA
MW-7 (D)	01/11/1995	57,000	3,200 a	NA	9,500	7,900	620	8,000	NA	NA	NA	NA	NA	NA	10.28	3.38	6.90	NA
MW-7	04/11/1995	53,000	7,000	NA	13,000	4,200	1,500	7,700	NA	NA	NA	NA	NA	NA	10.28	3.52	6.76	NA
MW-7 (D)	04/12/1995	55,000	7,600	NA	11,000	3,700	1,300	6,400	NA	NA	NA	NA	NA	NA	10.28	3.52	6.76	NA
MW-7	07/18/1995	95,000	2,700	NA	24,000	8,000	2,100	12,000	NA	NA	NA	NA	NA	NA	10.28	4.70	5.58	NA
MW-7	10/18/1995	Well abandoned		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	5.25	5.03	NA

MW-8	05/23/1989	ND	100	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.62	1.17	NA
MW-8	08/03/1989	ND	75	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.62	1.17	NA
MW-8	12/15/1989	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.71	1.08	NA
MW-8	03/08/1990	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	4.95	2.84	NA
MW-8	04/18/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.79	6.40	1.89	NA
MW-8	07/23/1990	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.62	1.17	NA
MW-8	09/27/1990	ND	1,100	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.98	0.81	NA
MW-8	01/03/1991	ND	ND	NA	1.3	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	7.03	0.76	NA
MW-8	04/10/1991	50	ND	NA	0.7	1.1	0.8	1	NA	NA	NA	NA	NA	NA	7.79	4.40	3.39	NA
MW-8	07/12/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.80	0.99	NA
MW-8	10/08/1991	ND	ND	NA	1.4	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	7.56	0.23	NA
MW-8	02/06/1992	ND	60 a	NA	ND	0.7	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.94	0.85	NA
MW-8	05/04/1992	ND	210 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	5.86	1.93	NA
MW-8	07/28/1992	51	ND	NA	ND	ND	ND	1	0.6	NA	NA	NA	NA	NA	7.79	6.94	0.85	NA
MW-8	10/27/1992	ND	ND	NA	ND	6.6	ND	ND	NA	NA	NA	NA	NA	NA	7.79	7.83	-0.04	NA
MW-8	01/14/1993	ND	64 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	3.60	4.19	NA
MW-8 (D)	01/14/1993	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	3.60	4.19	NA
MW-8	04/23/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	4.12	3.67	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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	07/20/1993	ND	ND	NA	0.7	0.7	0.8	4.1	NA	NA	NA	NA	NA	NA	10.61	6.38	4.23	NA
MW-8	10/18/1993	ND	ND	NA	ND	800	ND	ND	NA	NA	NA	NA	NA	NA	10.61	7.47	3.14	NA
MW-8	01/06/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	7.20	3.41	NA
MW-8	04/12/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	6.16	4.45	NA
MW-8	07/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	6.94	3.67	NA
MW-8	10/25/1994	ND	ND	NA	ND	1	ND	ND	NA	NA	NA	NA	NA	NA	10.61	7.43	3.18	NA
MW-8	01/09/1995	ND	70 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	3.98	6.63	NA
MW-8	04/11/1995	ND	78	NA	0.63	1.3	ND	0.75	NA	NA	NA	NA	NA	NA	10.61	4.12	6.49	NA
MW-8	07/18/1995	ND	130	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	5.21	5.40	NA
MW-8	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	5.58	5.03	NA
MW-8	01/09/1996	<50	ND	NA	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	10.61	5.09	5.52	NA
MW-8	04/02/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.61	3.42	7.19	NA
MW-8	10/03/1996	<50	<69	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.61	4.30	6.31	NA
MW-8	04/03/1997	<50	62	NA	<0.50	<0.50	<0.50	0.91	<2.5	NA	NA	NA	NA	NA	10.61	4.58	6.03	2.6
MW-8	10/08/1997	<50	57	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.61	3.00	7.61	3.6
MW-8	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	2.88	7.73	NA
MW-8	12/30/1998	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	10.61	5.38	5.23	0.8/0.9
MW-8	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	4.53	6.08	NA
MW-8	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	10.61	4.93	5.68	1.0/0.9
MW-8	05/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	4.02	6.59	NA
MW-8	10/17/2000	<50.0	143 a	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	10.61	3.10	7.51	4.0/4.1
MW-8	05/01/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	4.12	6.49	NA
MW-8	11/05/2001	<50	<50	NA	<0.50	0.99	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.61	5.00	5.61	0.6/1.3
MW-8	05/01/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.61	3.25	7.36	0.6/3.6
MW-8	07/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	3.64	6.97	NA
MW-8	10/17/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.18	4.53	5.65	3.3/2.2
MW-8	01/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	3.98	6.20	NA
MW-8	05/01/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	10.18	4.00	6.18	NA
MW-8	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	4.37	5.81	NA
MW-8	10/02/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.18	4.56	5.62	NA
MW-8	01/05/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	2.90	7.28	NA
MW-8	04/01/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.18	3.83	6.35	NA
MW-8	08/02/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	5.35	4.83	NA
MW-8	11/02/2004	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.18	4.28	5.90	NA
MW-8	01/10/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	2.44	7.74	NA

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MW-8	04/13/2005	<50 i	120 h	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.18	2.75	7.43	NA
MW-8	07/20/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	4.95	5.23	NA
MW-8	10/24/2005	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.18	3.94	6.24	NA
MW-8	01/04/2006	<50.0	224 f	206 f	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	<10.0	10.18	1.87	8.31	NA
MW-8	07/26/2006	<50.0	<93.9	315	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	10.18	4.07	6.11	NA
MW-8	01/02/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	3.94	6.24	NA
MW-8	07/12/2007	<50 m	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	10.18	4.08	6.10	NA
MW-8	01/10/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	3.00	7.18	NA
MW-8	07/31/2008	<50	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	10.18	4.24	5.94	NA
MW-8	01/06/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	4.41	5.77	NA
MW-8	07/01/2009	<50	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	10.18	4.50	5.68	NA
MW-8	01/04/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	4.46	5.72	NA

MW-9	08/03/1989	47,000	12,000	NA	5,600	6,600	1,500	8,500	NA	NA	NA	NA	NA	NA	7.63	5.78	1.85	NA
MW-9	12/15/1989	88,000	9,200	NA	4,300	5,400	140	5,600	NA	NA	NA	NA	NA	NA	7.63	5.24	2.39	NA
MW-9	02/07/1990	50,000	7,400	NA	1,800	1,400	3,200	1,800	NA	NA	NA	NA	NA	NA	7.63	5.23	2.40	NA
MW-9	04/18/1990	50,000	7,500	NA	14,000	11,000	730	10,000	NA	NA	NA	NA	NA	NA	7.63	5.34	2.29	NA
MW-9	07/23/1990	62,000	3,200	NA	19,000	16,000	950	15,000	NA	NA	NA	NA	NA	NA	7.63	5.65	1.98	NA
MW-9	09/27/1990	30,000	2,700	NA	16,000	6,500	980	11,000	NA	NA	NA	NA	NA	NA	7.63	5.96	1.67	NA
MW-9	01/03/1991	34,000	2,500	NA	9,200	3,200	770	7,000	NA	NA	NA	NA	NA	NA	7.63	6.23	1.40	NA
MW-9	04/10/1991	66,000	2,200	NA	17,000	13,000	1,400	14,000	NA	NA	NA	NA	NA	NA	7.63	4.65	2.98	NA
MW-9	07/12/1991	40,000	2,000	NA	7,700	3,200	1,100	9,400	NA	NA	NA	NA	NA	NA	7.63	5.65	1.98	NA
MW-9	10/08/1991	20,000	4,700 a	NA	11,000	640	240	6,000	NA	NA	NA	NA	NA	NA	7.63	6.08	1.55	NA
MW-9	02/06/1992	36,000	6,600 a	NA	11,000	490	1,100	6,700	NA	NA	NA	NA	NA	NA	7.63	5.92	1.71	NA
MW-9	05/04/1992	31,000	5,800 a	NA	11,000	1,700	1,200	8,700	NA	NA	NA	NA	NA	NA	7.63	4.80	2.83	NA
MW-9	07/28/1992	50,000	14,000	NA	17,000	1,200	1,500	12,000	NA	NA	NA	NA	NA	NA	7.63	5.61	2.02	NA
MW-9	10/27/1992	43,000	880 a	NA	15,000	680	1,700	8,100	NA	NA	NA	NA	NA	NA	7.63	6.24	1.39	NA
MW-9	01/14/1993	52,000	730 a	NA	9,600	1,100	1,100	7,000	NA	NA	NA	NA	NA	NA	7.63	4.95	2.68	NA
MW-9	04/23/1993	45,000	8,000 a	NA	11,000	1,400	1,500	10,000	NA	NA	NA	NA	NA	NA	7.63	4.54	3.09	NA
MW-9	07/20/1993	25,000	5,100	NA	10,000	320	1,100	7,100	NA	NA	NA	NA	NA	NA	10.48	5.25	5.23	NA
MW-9	10/18/1993	32,000	4,900 a	NA	14,000	530	2,000	10,000	NA	NA	NA	NA	NA	NA	10.48	6.00	4.48	NA
MW-9	01/06/1994	41,000	7,700 a	NA	15,000	810	1,400	9,000	NA	NA	NA	NA	NA	NA	10.48	5.62	4.86	NA
MW-9 (D)	01/06/1994	43,000	8,300 a	NA	15,000	920	1,300	8,000	NA	NA	NA	NA	NA	NA	10.48	5.62	4.86	NA
MW-9	04/12/1994	39,000	2,000	NA	8,300	ND	ND	4,000	NA	NA	NA	NA	NA	NA	10.48	4.31	6.17	NA
MW-9	07/25/1994	22,000	3,600 a	NA	7,500	150	ND	4,100	NA	NA	NA	NA	NA	NA	10.48	5.43	5.05	NA

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MW-9	10/25/1994	31,000	3,200 a	NA	13,000	240	1,000	8,500	NA	NA	NA	NA	NA	NA	10.48	6.00	4.48	NA
MW-9 (D)	10/26/1994	31,000	3,500 a	NA	13,000	220	1,100	8,300	NA	NA	NA	NA	NA	NA	10.48	6.00	4.48	NA
MW-9	01/09/1995	4,800	2,300 a	NA	1,200	510	42	1,400	NA	NA	NA	NA	NA	NA	10.48	4.26	6.22	NA
MW-9	04/11/1995	20,000	3,400	NA	5,100	460	400	3,400	NA	NA	NA	NA	NA	NA	10.48	4.08	6.40	NA
MW-9	07/18/1995	43,000	2,900	NA	12,000	1,800	960	9,100	NA	NA	NA	NA	NA	NA	10.48	5.07	5.41	NA
MW-9	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.48	5.82	4.66	NA
MW-9	01/09/1996	64,000	2,800	NA	12,000	5,400	1,800	10,000	2100	NA	NA	NA	NA	NA	10.48	4.36	6.12	NA
MW-9	04/02/1996	39,000	NA	NA	10,000	100	520	4,100	<500	NA	NA	NA	NA	NA	10.48	3.86	6.62	NA
MW-9	10/03/1996	46,000	3,100	NA	12,000	180	1,400	6,700	2,300	NA	NA	NA	NA	NA	10.48	4.90	5.58	1.4
MW-9	04/03/1997	36,000	2,300	NA	9,700	140	580	3,900	<500	NA	NA	NA	NA	NA	10.48	3.98	6.50	1.8
MW-9	10/08/1997	34,000	3,500	NA	6,900	<100	830	4,500	<125	NA	NA	NA	NA	NA	10.48	4.17	6.31	0.8
MW-9	06/10/1998	20,000	2,500	NA	9,900	250	3,100	170	460	NA	NA	NA	NA	NA	10.48	3.84	6.64	0.3/0.4
MW-9	12/30/1998	30,100	1,900	NA	8,500	166	603	3,340	<100	NA	NA	NA	NA	NA	10.48	4.72	5.76	1.1/1.2
MW-9 *	06/25/1999	26,300	NA	NA	8,090	73.5	409	2,730	<100	NA	NA	NA	NA	NA	10.48	4.47	6.01	1.2/2.4
MW-9	12/28/1999	4,130	839	NA	1,260	57.9	103	213	1,470	NA	NA	NA	NA	NA	10.48	4.82	5.66	1.0/1.1
MW-9	05/31/2000	8,210	1,300	NA	9,290	62.3	141	908	565	NA	NA	NA	NA	NA	10.48	3.87	6.61	2.8/c
MW-9	10/17/2000	19,000	1,510 a	NA	5,420	54.5	479	2,680	<250	NA	NA	NA	NA	NA	10.48	3.87	6.61	3.0/3.5
MW-9	05/01/2001	24,300	976	NA	11,200	52.9	159	1,610	<250	NA	NA	NA	NA	NA	10.48	4.44	6.04	1.6/1.0
MW-9	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.48	3.99	6.49	1.9/1.5
MW-9	11/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.48	5.41	5.07	0.7
MW-9	11/07/2001	25,000	<1,000	NA	7,300	85	630	4,100	NA	<250	NA	NA	NA	NA	10.48	5.60	4.88	1.4/1.1
MW-9	05/01/2002	27,000	<700	NA	11,000	79	260	1,300	NA	<500	NA	NA	NA	NA	10.48	3.38	7.10	2.9/1.1
MW-9	07/16/2002	29,000	<700	NA	12,000	<50	74	810	NA	<500	NA	NA	NA	NA	10.48	4.04	6.44	0.7/0.4
MW-9	10/17/2002	15,000	<800	NA	10,000	31	36	490	NA	53	NA	NA	NA	NA	10.07	4.92	5.15	1.0/1.2
MW-9	01/21/2003	8,500	<400	NA	3,100	39	190	590	NA	<200	NA	NA	NA	NA	10.07	4.52	5.55	0.4/0.8
MW-9	05/01/2003	16,000 a	1,600 a	NA	4,900	<100	<100	1,500	NA	<1,000	NA	NA	NA	NA	10.07	4.05	6.02	NA
MW-9	07/17/2003	14,000	1,300 a,f	NA	9,900	130	<120	2,300	NA	<120	NA	NA	NA	NA	10.07	4.82	5.25	NA
MW-9	10/02/2003	13,000	3,100 a	NA	8,500	190	770	5,100	NA	<100	NA	NA	NA	NA	10.07	5.17	4.90	NA
MW-9	01/05/2004	37,000	1,500 a	NA	15,000	250	750	3,800	NA	<100	NA	NA	NA	NA	10.07	3.94	6.13	NA
MW-9	04/01/2004	14,000	1,800 a	NA	6,800	80	230	1,800	NA	<50	NA	NA	NA	NA	10.07	4.24	5.83	NA
MW-9	08/02/2004	12,000	710 g	<500	8,200	<50	66	650	NA	<50	<200	<200	<200	<500	10.07	5.10	4.97	NA
MW-9	11/02/2004	15,000	1,500 g	<500	9,300	73	240	1,400	NA	70	NA	NA	NA	NA	10.07	4.21	5.86	NA
MW-9	01/10/2005	28,000	1,700 g	<500	7,400	1,100	1,400	5,400	NA	<50	NA	NA	NA	NA	10.07	3.45	6.62	NA
MW-9	04/13/2005	55,000	5,100 g	690	15,000	3,300	2,800	12,000	NA	<50	NA	NA	NA	NA	10.07	3.53	6.54	NA
MW-9	07/20/2005	27,000	6,700 g	<1,000	5,100	320	900	3,200	NA	<50	<200	<200	<500	10.07	5.75	4.32	NA	

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MW-9	10/24/2005	25,000	4,200 g	<500	11,000	680	890	3,900	NA	<50	NA	NA	NA	NA	10.04	4.42	5.62	NA
MW-9	01/04/2006	39,600	3,400 f	427 f	5,800	636	187	6,130	NA	73.1	NA	NA	NA	139	10.04	3.10	6.94	NA
MW-9	07/26/2006	41,000	1,580	685	11,800	421	979	2,520	NA	54.2	<0.500	<0.500	<0.500	85.1	10.04	4.45	5.59	NA
MW-9	01/02/2007	19,000	740 f	100 f	6,900	300	660	2,500	NA	30	NA	NA	NA	NA	10.04	4.81	5.23	NA
MW-9	07/12/2007	13,000 m	730 f	<250 f	6,100	44 n	100	561 n	NA	29 n	<100	<100	<100	<500	10.04	4.50	5.54	NA
MW-9	01/10/2008	22,000 m,o	850 f,o	<250 f	8,800	180	270	1,330	NA	12	NA	NA	NA	47	10.04	4.32	5.72	NA
MW-9	07/31/2008 p	170	600 f,o	<250 f	69	<1.0	<1.0	1.8	NA	<1.0	<2.0	<2.0	<2.0	<10	10.04	3.78	6.26	NA
MW-9	08/29/2008	20,000	2,200 f,o	1,600 f,o	5,900	<100	450	2,500	NA	<100	<200	<200	<200	<1,000	10.04	4.24	5.80	NA
MW-9	01/06/2009	11,000	1,500 f,o	2,100 f	5,500	41	110	920	NA	29	NA	NA	NA	NA	10.04	4.70	5.34	NA
MW-9	07/01/2009	6,700	250 f,o	<250 f	2,900	<25	<25	220	NA	<25	<50	<50	<50	<250	10.04	4.67	5.37	NA
MW-9	01/04/2010	8,300	470 f,o	1,100 f, o	3,200	<50	<50	110	NA	<50	NA	NA	NA	<500	10.04	4.87	5.17	NA

MW-10	12/15/1989	ND	3,100	NA	1,500	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.45	6.33	0.82	NA
MW-10	03/08/1990	25,000	1,800	NA	17,000	330	2,100	1,400	NA	NA	NA	NA	NA	NA	7.45	5.41	2.00	NA
MW-10	04/18/1990	23,000	3,600	NA	15,000	1,200	190	3,300	NA	NA	NA	NA	NA	NA	7.45	5.60	1.85	NA
MW-10	07/23/1990	18,000	1,900	NA	12,000	380	ND	1,400	NA	NA	NA	NA	NA	NA	7.45	5.81	1.64	NA
MW-10	09/27/1990	9,500	430	NA	13,000	100	1,800	230	NA	NA	NA	NA	NA	NA	7.45	6.64	0.81	NA
MW-10	01/03/1991	4,300	630	NA	3,700	10	ND	110	NA	NA	NA	NA	NA	NA	7.45	6.96	0.49	NA
MW-10	04/10/1991	45,000	1,400	NA	16,000	4,600	3,000	6,900	NA	NA	NA	NA	NA	NA	7.45	4.70	2.75	NA
MW-10	07/12/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.45	5.90	1.55	NA
MW-10	10/08/1991	3,800	1,500 a	NA	13,000	82	9	500	NA	NA	NA	NA	NA	NA	7.45	6.68	0.77	NA
MW-10	02/06/1992	22,000	1,600 a	NA	12,000	ND	600	170	NA	NA	NA	NA	NA	NA	7.45	7.04	0.41	NA
MW-10	05/04/1992	39,000	8,000 a	NA	14,000	5,000	1,800	5,000	NA	NA	NA	NA	NA	NA	7.45	4.69	2.76	NA
MW-10	07/28/1992	38,000	8,700 a	NA	17,000	2,800	1,500	4,000	NA	NA	NA	NA	NA	NA	7.45	6.00	1.45	NA
MW-10	10/27/1992b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.45	NA	NA	NA
MW-10	01/14/1993	26,000	950 a	NA	10,000	ND	ND	160	NA	NA	NA	NA	NA	NA	7.45	6.07	1.38	NA
MW-10	04/23/1993	80,000	1,900 a	NA	21,000	13,000	3,400	12,000	NA	NA	NA	NA	NA	NA	7.45	4.14	3.31	NA
MW-10	07/20/1993	31,000	4,800	NA	14,000	4,200	1,700	5,500	NA	NA	NA	NA	NA	NA	10.61	5.62	4.99	NA
MW-10	10/18/1993	13,000	1,200 a	NA	8,600	220	ND	450	NA	NA	NA	NA	NA	NA	10.61	6.43	4.18	NA
MW-10	01/06/1994	16,000	670 a	NA	9,700	<125	<125	210	NA	NA	NA	NA	NA	NA	10.61	6.74	3.87	NA
MW-10	04/12/1994	16,000	860	NA	5,600	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	5.98	4.63	NA
MW-10	07/25/1994	2,300	2,100 a	NA	1,400	26	25	51	NA	NA	NA	NA	NA	NA	10.61	6.31	4.30	NA
MW-10	10/25/1994	1,400	1,000 a	NA	290	5	2	38	NA	NA	NA	NA	NA	NA	10.61	6.64	3.97	NA
MW-10	01/09/1995	16,000	2,300 a	NA	7,500	1,400	230	1,500	NA	NA	NA	NA	NA	NA	10.61	5.70	4.91	NA
MW-10	04/11/1995	54,000	5,000	NA	13,000	4,500	1,500	4,500	NA	NA	NA	NA	NA	NA	10.61	5.82	4.79	NA

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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	07/18/1995	72,000	2,600	NA	20,000	7,200	2,800	9,000	NA	NA	NA	NA	NA	NA	10.61	6.79	3.82	NA
MW-10	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	5.31	5.30	NA
MW-10	01/09/1996	32,000	2,100	NA	8,000	1,600	880	3,200	12,000	NA	NA	NA	NA	NA	10.61	5.92	4.69	NA
MW-10	04/02/1996	68,000	NA	NA	9,100	2,300	1,100	3,700	3,300	NA	NA	NA	NA	NA	10.61	5.43	5.18	NA
MW-10	10/03/1996	33,000	2,900	NA	11,000	1,300	830	2,400	7,300	NA	NA	NA	NA	NA	10.61	6.07	4.54	1.7
MW-10 (D)	10/03/1996	40,000	3,300	NA	12,000	1,700	1,100	3,100	6,500	NA	NA	NA	NA	NA	10.61	6.07	4.54	1.7
MW-10	04/03/1997	36,000	3,400	NA	12,000	2,300	1,400	4,500	2,300	NA	NA	NA	NA	NA	10.61	3.45	7.16	1.8
MW-10 (D)	04/03/1997	52,000	3,000	NA	12,000	2,300	1,400	4,500	2,100	NA	NA	NA	NA	NA	10.61	3.45	7.16	1.8
MW-10	10/08/1997	20,000	3,100	NA	7,500	420	470	1,300	1,500	NA	NA	NA	NA	NA	10.61	3.72	6.89	1.2
MW-10	06/10/1998	48,000	2,500	NA	14,000	2,600	1,500	4,800	1,800	NA	NA	NA	NA	NA	10.61	4.00	6.61	0.7/0.5
MW-10	12/30/1998	17,800	2,820	NA	6,000	136	344	639	1,250	NA	NA	NA	NA	NA	10.61	5.26	5.35	1.0/0.7
MW-10 *	06/25/1999	17,600	NA	NA	6,150	212	287	687	1,740	NA	NA	NA	NA	NA	10.61	4.49	6.12	0.9/2.5
MW-10	12/28/1999	10,800	1,400	NA	3,370	155	321	626	3,740	NA	NA	NA	NA	NA	10.61	4.87	5.74	1.2/1.4
MW-10	05/31/2000	3,020	2,270	NA	1,080	34.3	118	251	775	NA	NA	NA	NA	NA	10.61	3.48	7.13	2.8/3.9
MW-10	10/17/2000	15,500	1,750 a	NA	7,450	54.7	387	308	3,840	4,300	NA	NA	NA	NA	10.61	4.25	6.36	2.3/3.0
MW-10	05/01/2001	27,900	2,260	NA	9,920	1,050	1,020	2,370	2,180	NA	NA	NA	NA	NA	10.61	5.40	5.21	2.0/1.1
MW-10	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	3.74	6.87	3.70/1.8
MW-10	11/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	6.08	4.53	0.6
MW-10	11/07/2001	14,000	360	NA	5,300	260	430	810	NA	1,700	NA	NA	NA	NA	10.61	5.45	5.16	1.8/1.0
MW-10	05/01/2002	79,000	<1,500	NA	16,000	4,400	3,300	8,800	NA	890	NA	NA	NA	NA	10.61	4.62	5.99	4.0/0.5
MW-10	07/16/2002	21,000	<1,000	NA	6,500	350	460	1,000	NA	1,200	NA	NA	NA	NA	10.61	5.80	4.81	0.5/1.5
MW-10	10/17/2002	17,000	<1,800	NA	5,800	290	520	1,100	NA	980	NA	NA	NA	NA	9.81	5.27	4.54	0.8/1.2
MW-10	01/21/2003	52,000	<2,000	NA	13,000	2,000	2,100	4,800	NA	<1,000	NA	NA	NA	NA	9.81	5.72	4.09	0.3/0.6
MW-10	05/01/2003	40,000	3,800 a	NA	13,000	1,700	2,200	5,000	NA	2,900	NA	NA	NA	NA	9.81	4.29	5.52	NA
MW-10	07/17/2003	13,000	1,700 a,f	NA	7,200	250	740	1,500	NA	2,400	NA	NA	NA	NA	9.81	5.05	4.76	NA
MW-10	10/02/2003	<5,000	1,400 a	NA	2,700	<50	56	<100	NA	2,800	NA	NA	NA	NA	9.81	5.46	4.35	NA
MW-10	01/05/2004	77,000	2,300 a	NA	21,000	4,200	3,900	8,500	NA	1,900	NA	NA	NA	NA	9.81	3.52	6.29	NA
MW-10	04/01/2004	33,000	3,100 a	NA	11,000	1,000	1,600	3,600	NA	5,200	NA	NA	NA	NA	9.81	4.12	5.69	NA
MW-10	08/02/2004	9,900	1,100 a	570	4,100	140	500	700	NA	3,800	<100	<100	<100	710	9.81	5.35	4.46	NA
MW-10	11/02/2004	48,000	3,500 g	<500	16,000	1,400	3,100	6,000	NA	3,100	NA	NA	NA	NA	9.81	5.06	4.75	NA
MW-10	01/10/2005	120,000	4,200 g	<500	21,000	20,000	5,400	22,000	NA	16,000	NA	NA	NA	NA	9.81	3.14	6.67	NA
MW-10	04/13/2005	83,000	9,100 g	<1,000	22,000	13,000	5,500	18,000	NA	22,000	NA	NA	NA	NA	9.81	3.12	6.69	NA
MW-10	07/20/2005	82,000	11,000 g	<2,500	14,000	9,700	4,700	20,000	NA	32,000	<500	<500	<500	9,800	9.81	5.33	4.48	NA
MW-10	10/24/2005	67,000	9,800 g	<1,000	12,000	4,000	4,500	13,000	NA	14,000	NA	NA	NA	6,200	9.78	4.24	5.54	NA
MW-10	01/04/2006	114,000	5,690 f	364 f	15,000	5,110	1,310	17,400	NA	3,720	NA	NA	NA	1,150	9.78	2.53	7.25	NA

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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	07/26/2006	66,600	1,070	260	10,600	137	2,740	5,430	NA	2,660	0.750	<0.500	<0.500	3,280	9.78	3.98	5.80	NA
MW-10	01/02/2007	46,000	1,500 f	140 f	10,000	860	3,800	8,000	NA	1,200	NA	NA	1,400	9.78	4.02	5.76	NA	
MW-10	07/12/2007	28,000 m	3,900 f	<250 f	7,700	160	2,100	2,960	NA	1,200	<100	<100	<100	2,600	9.78	4.18	5.60	NA
MW-10	01/10/2008	31,000 m	4,700 f,o	<250 f	10,000	75	2,800	3,270	NA	1,400	NA	NA	2,000	9.78	4.34	5.44	NA	
MW-10	07/31/2008	38,000	1,500 f,o	<250 f	11,000	<100	1,800	970	NA	3,100	<200	<200	<200	7,500	9.78	4.10	5.68	NA
MW-10	01/06/2009	26,000	3,800 f,o	340 f	9,600	<100	2,300	790	NA	1,600	NA	NA	NA	2,300	9.78	4.25	5.53	NA
MW-10	07/01/2009	17,000	<50 f	<250 f	6,100	<50	1,100	110	NA	910	<100	<100	<100	2,900	9.78	4.27	5.51	NA
MW-10	01/04/2010	22,000	2,500 f,o	<250 f	7,200	<100	1,000	<100	NA	870	NA	NA	NA	2,600	9.78	4.53	5.25	NA
MW-11	07/20/1993	50	ND	NA	2.5	1.9	3.9	18	NA	NA	NA	NA	NA	NA	10.56	8.08	2.48	NA
MW-11	10/18/1993	ND	65	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	8.24	2.32	NA
MW-11	01/06/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	8.47	2.09	NA
MW-11	04/12/1994	ND	ND	NA	1.1	0.87	ND	1.5	NA	NA	NA	NA	NA	NA	10.56	8.44	2.12	NA
MW-11	07/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	8.20	2.36	NA
MW-11	10/25/1994	ND	100	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	8.67	1.89	NA
MW-11	01/09/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	7.63	2.93	NA
MW-11	04/11/1995	ND	140	NA	ND	0.7	ND	0.5	NA	NA	NA	NA	NA	NA	10.56	8.06	2.50	NA
MW-11	07/18/1995	ND	50	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	9.31	1.25	NA
MW-11	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	8.34	2.22	NA
MW-11	01/09/1996	<50	ND	NA	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	10.56	8.22	2.34	NA
MW-11	04/02/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.56	7.97	2.59	NA
MW-11	10/03/1996	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.56	8.37	2.19	3.6
MW-11	04/03/1997	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.56	8.31	2.25	2.2
MW-11	10/08/1997	<50	54	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.56	8.56	2.00	1.2
MW-11	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	7.85	2.71	NA
MW-11	12/30/1998	<50.0	66.2	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	10.56	8.51	2.05	0.7/0.6
MW-11	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	8.01	2.55	NA
MW-11	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	10.56	8.39	2.17	0.8/1.0
MW-11	05/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	7.38	3.18	NA
MW-11	10/17/2000	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	10.56	8.35	2.21	4.1/4.0
MW-11	05/01/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	8.15	2.41	NA
MW-11	11/05/2001	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	NA	NA	NA
MW-11	05/01/2002	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	7.82	2.74	1.0/1.1
MW-11	07/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	7.64	2.92	NA

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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)
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MW-11	10/17/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	7.95	NA	1.3/1.0
MW-11	01/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.57	NA	NA
MW-11	05/01/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	7.62	NA	NA
MW-11	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.93	NA	NA
MW-11	10/02/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	7.56	NA	NA
MW-11	01/05/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.03	NA	NA
MW-11	04/01/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	7.55	NA	NA
MW-11	08/02/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.50	NA	NA
MW-11	11/02/2004	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	7.41	NA	NA
MW-11	01/10/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.45	NA	NA
MW-11	04/13/2005	<50	84 a	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	7.35	NA	NA
MW-11	07/20/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	NA	NA
MW-11	10/24/2005	<50	66 a	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	10.06	7.72	2.34
MW-11	01/04/2006	<50.0	<100 f	<100 f	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	<10.0	10.06	6.55	3.51	NA
MW-11	07/26/2006	<50.0	105	914	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	NA	10.06	7.37	2.69
MW-11	01/02/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.06	7.63	2.43
MW-11	07/12/2007	<50 m	100 f	340 f	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	NA	10.06	7.18	2.88
MW-11	01/10/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.06	6.03	4.03
MW-11	07/31/2008	<50	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	NA	10.06	7.25	2.81
MW-11	01/06/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.06	8.03	2.03
MW-11	07/01/2009	<50	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	NA	10.06	7.62	2.44
MW-11	01/04/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.06	7.43	2.63

MW-12	07/20/1993	ND	1,500	NA	2.8	1.9	3.2	ND	NA	NA	NA	NA	NA	NA	NA	9.56	6.76	2.80
MW-12	10/18/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	9.56	7.12	2.44
MW-12	01/06/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	9.56	7.15	2.41
MW-12	04/12/1994	ND	ND	NA	0.61	ND	ND	1.1	NA	NA	NA	NA	NA	NA	NA	9.56	6.68	2.88
MW-12	07/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	9.56	6.83	2.73
MW-12	10/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	9.56	7.34	2.22
MW-12	01/09/1995	ND	80 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	9.56	5.02	4.54
MW-12	04/11/1995	ND	200	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	9.56	7.38	2.18
MW-12	07/18/1995	ND	90	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	9.56	8.50	1.06
MW-12	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	6.63	2.93
MW-12	01/09/1996	<50	ND	NA	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	NA	9.56	6.32	3.24
MW-12	04/02/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	9.56	5.60	3.96

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285 Hegenberger Road
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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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-12	10/03/1996	<50	72	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	9.56	3.30	6.26	2.5	
MW-12	04/03/1997	<50	74	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	9.56	6.13	3.43	2.2	
MW-12	10/08/1997	<50	73	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	9.56	6.49	3.07	3.0	
MW-12	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	5.85	3.71	NA	
MW-12	12/30/1998	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	9.56	8.42	1.14	1.3/0.9	
MW-12	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	7.89	1.67	NA	
MW-12	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	9.56	8.26	1.30	1.0/1.2	
MW-12	05/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	7.21	2.35	NA	
MW-12	10/17/2000	<50.0	82.9 a	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	9.56	6.80	2.76	5.1/3.0	
MW-12	05/01/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	5.95	3.61	NA	
MW-12	11/05/2001	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	NA	NA	NA	
MW-12	05/01/2002	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	NA	NA	NA	
MW-12	05/08/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	9.56	4.75	4.81	1.2/0.9	
MW-12	07/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	4.88	4.68	NA	
MW-12	10/17/2002	<50	81	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	5.11	NA	1.8/1.5	
MW-12	01/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.76	NA	NA	
MW-12	05/01/2003	<50	95 a	NA	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	5.00	NA	NA	
MW-12	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.85	NA	NA	
MW-12	10/02/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	5.02	NA	NA	
MW-12	01/05/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.95	NA	NA	
MW-12	04/01/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	5.04	NA	NA	
MW-12	08/02/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.42	NA	NA	
MW-12	11/02/2004	<50	150 h	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	4.55	NA	NA	
MW-12	01/10/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.81	NA	NA	
MW-12	04/13/2005	<50	120 a	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	4.01	NA	NA	
MW-12	07/20/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.00	NA	NA	
MW-12	10/24/2005	<50	94 a	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	9.09	4.83	4.26	NA
MW-12	01/04/2006	<50.0	330 f	675 f	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	<10.0	9.09	5.52	3.57	NA	
MW-12	07/26/2006	<50.0	<93.9	153	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	9.09	4.47	4.62	NA	
MW-12	01/02/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.09	5.70	3.39	NA	
MW-12	07/12/2007	<50 m	63 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	NA	9.09	5.03	4.06	NA
MW-12	01/10/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.09	4.20	4.89	NA
MW-12	07/31/2008	<50	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	NA	9.09	4.52	4.57	NA
MW-12	01/06/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.09	4.79	4.30	NA
MW-12	07/01/2009	<50	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	NA	9.09	5.70	3.39	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B	T	E	X	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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MW-12	01/04/2010	NA	9.09	6.00	3.09	NA														
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MW-13	07/20/1993	ND	1,500	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	10.10	8.32	1.78	NA
MW-13 (D)	07/21/1993	ND	1,000	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	10.10	8.32	1.78	NA
MW-13	10/18/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	10.10	8.66	1.44	NA
MW-13	01/06/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	10.10	8.70	1.40	NA
MW-13	04/12/1994	ND	100	NA	1.7	1.2	0.59	2.4	NA	NA	NA	NA	NA	NA	NA	NA	10.10	8.20	1.90	NA
MW-13	07/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	10.10	8.39	1.71	NA
MW-13	10/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	10.10	8.70	1.40	NA
MW-13	01/09/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	10.10	7.35	2.75	NA
MW-13	04/11/1995	ND	320	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	10.10	5.50	4.60	NA
MW-13	07/18/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	10.10	6.63	3.47	NA
MW-13	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	8.12	1.98	NA
MW-13	01/09/1996	<50	ND	NA	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	NA	NA	10.10	7.74	2.36	NA
MW-13	04/02/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	10.10	6.30	3.80	NA
MW-13	10/03/1996	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	10.10	6.50	3.60	3.0
MW-13	04/03/1997	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	10.10	7.58	2.52	2.0
MW-13	10/08/1997	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	10.10	8.17	1.93	1.0
MW-13	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	7.54	2.56	NA
MW-13	12/30/1998	<50.0	69.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	NA	NA	10.10	6.91	3.19	1.1/0.8
MW-13	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	6.31	3.79	NA
MW-13	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	NA	NA	10.10	6.65	3.45	0.8/1.0
MW-13	05/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	5.94	4.16	NA
MW-13	10/17/2000	<50.0	121 a	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	10.10	8.38	1.72	2.5/2.8
MW-13	05/01/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	7.65	2.45	NA
MW-13	11/05/2001	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	NA	NA	NA
MW-13	05/01/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	10.10	6.80	3.30	3.5/3.5
MW-13	07/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	6.84	3.26	NA
MW-13	10/17/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	9.64	6.73	2.91	1.4/0.9
MW-13	01/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	6.99	2.65	NA
MW-13	05/01/2003	<50	<50	NA	3.4	0.75	1.1	2.7	NA	<5.0	NA	NA	NA	NA	NA	NA	9.64	6.62	3.02	NA
MW-13	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	5.99	3.65	NA
MW-13	10/02/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	9.64	6.81	2.83	NA
MW-13	01/05/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	5.98	3.66	NA
MW-13	04/01/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	9.64	5.09	4.55	NA

WELL CONCENTRATIONS
Shell-branded Service Station
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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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)
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MW-13	08/02/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	5.49	4.15	NA
MW-13	11/02/2004	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	9.64	5.99	3.65	NA
MW-13	01/10/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	5.63	4.01	NA
MW-13	04/13/2005	<50	72 a	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	9.64	6.00	3.64	NA
MW-13	07/20/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	8.31	1.33	NA
MW-13	10/24/2005	<50	52 a	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	9.62	5.00	4.62	NA
MW-13	01/04/2006	<50.0	<100 f	<100 f	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	<10.0	9.62	5.54	4.08	NA	
MW-13	07/26/2006	<50.0	<93.9	280	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	NA	9.62	4.92	4.70	NA
MW-13	01/02/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.62	7.37	2.25	NA
MW-13	07/12/2007	<50 m	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	NA	9.62	4.60	5.02	NA
MW-13	01/10/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.62	4.32	5.30	NA
MW-13	07/31/2008	<50	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	NA	9.62	7.10	2.52	NA
MW-13	01/06/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.62	4.95	4.67	NA
MW-13	07/01/2009	<50	<50 f	<250 f	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	NA	9.62	6.79	2.83	NA
MW-13	01/04/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.62	7.55	2.07	NA

VEW-5	09/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.91	NA	NA	
VEW-5	10/17/2000	74,800	4,180 a	NA	9,090	14,600	2,630	14,500	632	NA	NA	NA	NA	NA	NA	2.65	NA	3.0/3.1	
VEW-5	05/01/2001	94,800	5,350	NA	11,300	12,900	4,520	22,200	419	NA	NA	NA	NA	NA	NA	2.86	NA	0.4/0.6	
VEW-5	11/05/2001	82,000	<1,600	NA	14,000	7,400	2,900	15,000	NA	740	NA	NA	NA	NA	NA	4.11	NA	0.6/c	
VEW-5	05/01/2002	16,000	<3,000	NA	610	320	7.9	3,600	NA	310	NA	NA	NA	NA	NA	2.63	NA	4.7/2.9	
VEW-5	07/16/2002	45,000	<3,000	NA	7,900	2,700	1,000	4,600	NA	920	NA	NA	NA	NA	NA	2.96	NA	0.4/0.3	
VEW-5	10/17/2002	<50	200	NA	<0.50	<0.50	<0.50	<0.50	NA	46	NA	NA	NA	NA	NA	8.81	3.55	5.26	1.1/1.0
VEW-5	01/21/2003	740	1,200	NA	53	22	17	70	NA	17	NA	NA	NA	NA	NA	8.81	2.06	6.75	1.6/0.5
VEW-5	05/01/2003	1,500	1,000 a	NA	140	92	120	290	NA	11	NA	NA	NA	NA	NA	8.81	2.34	6.47	NA
VEW-5	07/17/2003	4,200	1,400 a,f	NA	630	1,300	360	1,400	NA	38	NA	NA	NA	NA	NA	8.81	3.36	5.45	NA
VEW-5	10/02/2003	10,000	3,500 a	NA	690	1,200	420	1,800	NA	54	NA	NA	NA	NA	NA	8.81	3.65	5.16	NA
VEW-5	01/05/2004	180	530 a	NA	5.0	0.73	6.5	11	NA	1.9	NA	NA	NA	NA	NA	8.81	2.02	6.79	NA
VEW-5	04/01/2004	2,800	2,500 a	NA	520	23	260	290	NA	55	NA	NA	NA	NA	NA	8.81	2.77	6.04	NA
VEW-5	08/02/2004	8,900	3,800 a	550	790	74	600	1,600	NA	62	<40	<40	<40	<100	8.81	3.55	5.26	NA	
VEW-5	11/02/2004	1,200	830 g	<500	72	5.8	83	100	NA	11	NA	NA	NA	NA	NA	8.81	2.89	5.92	NA
VEW-5	01/10/2005	<50	320 a	700	<0.50	<0.50	<0.50	2.0	NA	0.56	NA	NA	NA	NA	NA	8.81	1.14	7.67	NA
VEW-5	04/13/2005	270	540 a	1,100	23	1.4	11	15	NA	2.0	NA	NA	NA	NA	NA	8.81	2.17	6.64	NA
VEW-5	07/20/2005	130	100 g	<500	5.7	0.65	1.4	9.3	NA	7.7	<2.0	<2.0	<2.0	41	8.81	4.39	4.42	NA	
VEW-5	10/24/2005	2,300	8,900 a	3,700 l	260	17	28	140	NA	13	NA	NA	NA	41	8.79	3.15	5.64	NA	

WELL CONCENTRATIONS
Shell-branded Service Station
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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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)
VEW-5	01/04/2006	493	883 f	710 f	1.69	<0.500	2.72	6.19	NA	<0.500	NA	NA	NA	<10.0	8.79	1.28	7.51	NA
VEW-5	07/26/2006	860	299	744	15.8	2.49	2.55	8.77	NA	3.69	<0.500	<0.500	<0.500	<10.0	8.79	2.98	5.81	NA
VEW-5	01/02/2007	1,700	210 f	170 f	77	4.1	13	13	NA	3.9	NA	NA	NA	<5.0	8.79	3.30	5.49	NA
VEW-5	07/12/2007	1,000 m	710 f	390 f	85	3.6	2.0	12.5	NA	6.3	<2.0	<2.0	<2.0	10	8.79	3.26	5.53	NA
VEW-5	01/10/2008	460 m	210 f,o	290 o	1.4	1.3	1.0	6.8	NA	<1.0	NA	NA	NA	<10	8.79	2.18	6.61	NA
VEW-5	07/31/2008 p	170,000	180 f,o	<250 f	14,000	370	690	1,650	NA	1,900	<200	<200	<200	<1,000	8.79	2.98	5.81	NA
VEW-5	08/29/2008	1,600	720 f,o	1,800 f	110	4.6	5.1	13.4	NA	<1.0	<2.0	<2.0	<2.0	20	8.79	3.14	5.65	NA
VEW-5	01/06/2009	<50	200 f,o	580 f	2.0	1.4	<1.0	<1.0	NA	1.4	NA	NA	NA	<10	8.79	3.35	5.44	NA
VEW-5	07/01/2009	86	95 f,o	<250 f	6.6	<1.0	<1.0	2.2	NA	9.3	<2.0	<2.0	<2.0	25	8.79	3.63	5.16	NA
VEW-5	01/04/2010	<50	150 f,o	300 f	3.8	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	<10	8.79	3.39	5.40	NA
VEW-6	09/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.94	NA	NA	
VEW-6	10/17/2000	63,800	4,820 a	NA	6,940	2,750	2,760	18,700	3,700	NA	NA	NA	NA	NA	NA	3.13	NA	2.0/2.1
VEW-6	05/01/2001	57,000	3,460	NA	6,280	697	2,640	15,800	6,240	NA	NA	NA	NA	NA	NA	3.25	NA	0.8/1.2
VEW-6	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.17	NA	3.0/1.7
VEW-6	11/05/2001	39,000	<1,300	NA	6,800	380	1,900	7,900	NA	8,800	NA	NA	NA	NA	NA	4.35	NA	0.8/1.3
VEW-6	05/01/2002	24,000	<4,500	NA	1,800	270	470	3,700	NA	3,100	NA	NA	NA	NA	NA	2.73	NA	0.2/0.4
VEW-6	07/16/2002	19,000	<2,700	NA	1,900	250	140	3,500	NA	2,900	NA	NA	NA	NA	NA	3.59	NA	0.3/0.2
VEW-6	10/17/2002	<50	110	NA	<0.50	<0.50	<0.50	<0.50	NA	13	NA	NA	NA	NA	9.33	4.33	5.00	0.9/1.3
VEW-6	01/21/2003	900	<500	NA	30	1.1	20	61	NA	110	NA	NA	NA	NA	9.33	3.08	6.25	4.6/5.6
VEW-6	05/01/2003	1,100 a	290 a	NA	41	<5.0	58	66	NA	89	NA	NA	NA	NA	9.33	2.79	6.54	NA
VEW-6	07/17/2003	3,100	1,400 a,f	NA	400	30	280	820	NA	1,400	NA	NA	NA	NA	9.33	3.80	5.53	NA
VEW-6	10/02/2003	2,100	1,200 a	NA	310	37	200	420	NA	1,500	NA	NA	NA	NA	9.33	4.10	5.23	NA
VEW-6	01/05/2004	320	170 a	NA	4.9	0.54	3.3	18	NA	68	NA	NA	NA	NA	9.33	2.31	7.02	NA
VEW-6	04/01/2004	450	270 a	NA	44	1.6	23	24	NA	180	NA	NA	NA	NA	9.33	2.87	6.46	NA
VEW-6	08/02/2004	Well Inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.33	NA	NA	NA
VEW-6	11/02/2004	910	210 g	<500	35	1.4	39	79	NA	74	NA	NA	NA	NA	9.33	3.26	6.07	NA
VEW-6	01/10/2005	110	150 a	<500	1.3	<0.50	1.3	3.3	NA	4.7	NA	NA	NA	NA	9.33	2.01	7.32	NA
VEW-6	04/13/2005	98	330 a,j,k	1,000 j,k	10	<0.50	2.4	2.6	NA	77	NA	NA	NA	NA	9.33	2.05	7.28	NA
VEW-6	07/20/2005	150	<50	<500	4.3	<0.50	1.1	7.1	NA	7.8	<2.0	<2.0	<2.0	37	9.33	4.27	5.06	NA
VEW-6	10/24/2005	4,800	3,300 a	1,600 l	150	4.6	280	720	NA	120	NA	NA	NA	160	9.22	3.56	5.66	NA
VEW-6	01/04/2006	1,010	1,260 f	1,010 f	2.67	<0.500	4.79	12.6	NA	23.8	NA	NA	NA	93.6	9.22	1.85	7.37	NA
VEW-6	07/26/2006	31,900	1,750	2,520	2,730	6,130	270	2,590	NA	303	<0.500	<0.500	69.4	189	9.22	3.52	5.70	NA
VEW-6	01/02/2007	6,100	4,900 f	6,700 f	42	740	89	850	NA	25	NA	NA	NA	51	9.22	3.38	5.84	NA
VEW-6	07/12/2007	2,900 m	1,700 f	1,400 f	220	83	94	430	NA	140	<4.0	<4.0	<4.0	180	9.22	3.72	5.50	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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)
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VEW-6	01/10/2008	2,200 m	1,100 f,o	2,200 f	25	52	17	178	NA	8.2	NA	NA	38	38	9.22	2.91	6.31	NA
VEW-6	07/31/2008	2,000	470 f,o	420 f	150	9.2	18	102	NA	120	<2.0	<2.0	<2.0	290	9.22	3.43	5.79	NA
VEW-6	01/06/2009	780	1,600 f,o	3,000 f	120	5.3	11	20	NA	61	NA	NA	NA	180	9.22	3.37	5.85	NA
VEW-6	07/01/2009	690	680 f,o	1,200 f	95	4.5	12	30	NA	17	<2.0	<2.0	<2.0	180	9.22	3.72	5.50	NA
VEW-6	01/04/2010	1,100	310 f,o	440 f	380	3.7	7.4	6.8	NA	97	NA	NA	NA	480	9.22	3.47	5.75	NA

VEW-7	09/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.59	NA	NA
VEW-7	10/17/2000	74,300	3,990 a	NA	11,900	12,500	1,640	15,500	36,600	NA	NA	NA	NA	NA	NA	3.72	NA	3.5/4.1
VEW-7	05/01/2001	46,000	1,930	NA	7,250	5,300	1,960	9,820	15,600	16,900	NA	NA	NA	NA	NA	3.40	NA	0.8/0.8
VEW-7	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.54	NA	2.5/1.4
VEW-7	11/05/2001	38,000	<900	NA	9,300	610	1,700	6,000	NA	21,000	NA	NA	NA	NA	NA	4.85	NA	3.52/c
VEW-7	05/01/2002	590	<600	NA	6.3	7.2	<2.5	81	NA	1,100	NA	NA	NA	NA	NA	2.62	NA	2.9/3.3
VEW-7	07/16/2002	95	54	NA	1.5	<0.50	1.5	6.1	NA	100	NA	NA	NA	NA	NA	3.84	NA	3.6/2.5
VEW-7	10/17/2002	<50	110	NA	1.4	<0.50	<0.50	<0.50	NA	34	NA	NA	NA	NA	NA	4.93	4.56	3.0/1.9
VEW-7	01/21/2003	<50	180	NA	0.88	<0.50	<0.50	4.2	NA	19	NA	NA	NA	NA	NA	3.27	6.22	0.3/0.8
VEW-7	05/01/2003	2,200	1,000 a	NA	62	8.0	230	80	NA	360	NA	NA	NA	NA	NA	9.49	2.95	6.54
VEW-7	07/17/2003	<1,200	590 a,f	NA	97	19	150	110	NA	830	NA	NA	NA	NA	NA	9.49	3.94	5.55
VEW-7	10/02/2003	800	1,300 a	NA	78	11	170	49	NA	1,200	NA	NA	NA	NA	NA	9.49	5.00	4.49
VEW-7	01/05/2004	2,500	970 a	NA	120	13	86	300	NA	660	NA	NA	NA	NA	NA	9.49	2.82	6.67
VEW-7	04/01/2004	4,700	1,500 a	NA	100	42	240	680	NA	830	NA	NA	NA	NA	NA	9.49	2.99	6.50
VEW-7	08/02/2004	1,100	830 a	<500	60	6.5	30	120	NA	920	<20	<20	<20	430	9.49	4.45	5.04	NA
VEW-7	11/02/2004	Well inaccessible		NA	NA	NA	9.49	NA	NA									
VEW-7	11/04/2004	7,900	2,700 g	<500	410	26	280	1,100	NA	2,100	NA	NA	NA	NA	NA	9.49	3.57	5.92
VEW-7	01/10/2005	1,200	690 g	<500	110	<5.0	49	73	NA	530	NA	NA	NA	NA	NA	9.49	2.26	7.23
VEW-7	04/13/2005	760	280 a	530	18	3.3	28	84	NA	120	NA	NA	NA	NA	NA	9.49	2.28	7.21
VEW-7	07/20/2005	160	250 g	<500	4.8	0.57	1.9	11	NA	9.3	<2.0	<2.0	<2.0	37	9.49	4.50	4.99	NA
VEW-7	10/24/2005	540	1,100 a	630 l	11	1.7	2.8	11	NA	36	NA	NA	NA	490	9.43	3.74	5.69	NA
VEW-7	01/04/2006	<50.0	386 f	305 f	<0.500	<0.500	<0.500	<0.500	NA	7.68	NA	NA	NA	96.7	9.43	1.93	7.50	NA
VEW-7	07/26/2006	1,140	383	803	31.2	2.92	6.09	42.1	NA	87.3	<0.500	<0.500	<0.500	257	9.43	3.77	5.66	NA
VEW-7	01/02/2007	1,100	230 f	220 f	8.5	0.79	4.4	11	NA	18	NA	NA	NA	180	9.43	3.47	5.96	NA
VEW-7	07/12/2007	860 m	480 f	<250 f	17	1.6	3.0	46.1	NA	37	<2.0	<2.0	<2.0	240	9.43	3.60	5.83	NA
VEW-7	01/10/2008	510 m	250 f,o	<250 f	6.8	0.91 n	0.95 n	8.28 n	NA	20	NA	NA	NA	280	9.43	2.69	6.74	NA
VEW-7	07/31/2008	1,500	260 f,o	<250 f	11	1.3	3.6	48.6	NA	45	<2.0	<2.0	<2.0	340	9.43	3.65	5.78	NA
VEW-7	01/06/2009	680	420 f,o	400 f	5.4	1.6	9.2	28	NA	27	NA	NA	NA	360	9.43	3.70	5.73	NA
VEW-7	07/01/2009	440	210 f,o	<250 f	5.2	1.2	3.9	17	NA	25	<2.0	<2.0	<2.0	300	9.43	3.74	5.69	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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)
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VEW-7	01/04/2010	150	130 f,o	<250 f	1.9	<1.0	<1.0	3.3	NA	13	NA	NA	NA	400	9.43	3.61	5.82	NA
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AS-1	09/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.67	NA	NA	
AS-1	10/17/2000	13,400	3,280 a	NA	1,600	82.8	<20.0	2,600	498	NA	NA	NA	NA	NA	NA	5.50	NA	2.0/2.5	
AS-1	05/01/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
AS-1	11/05/2001	5,300	<900	NA	85	26	46	120	NA	190	NA	NA	NA	NA	NA	6.11	NA	0.4/0.5	
AS-1	05/01/2002	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.73	NA	NA	
AS-1	07/16/2002	210	<150	NA	8.2	<0.50	7.9	3.5	NA	25	NA	NA	NA	NA	NA	5.59	NA	4.6/2.8	
AS-1	10/17/2002	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.23	NA	NA	
AS-1	01/21/2003	<50	220	NA	0.62	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	8.23	9.51	-1.28	2.2/2.5
AS-1	05/01/2003	79	96 a	NA	2.2	0.99	5.1	4.8	NA	<5.0	NA	NA	NA	NA	NA	8.23	5.75	2.48	NA
AS-1	07/17/2003	<50	79 a,f	NA	1.2	0.60	0.95	1.7	NA	3.6	NA	NA	NA	NA	NA	8.23	5.90	2.33	NA
AS-1	10/02/2003	440	99 a	NA	12	49	22	94	NA	3.5	NA	NA	NA	NA	NA	8.23	5.90	2.33	NA
AS-1	01/05/2004	<50	76 a	NA	0.75	<0.50	0.70	<1.0	NA	2.4	NA	NA	NA	NA	NA	8.23	5.64	2.59	NA
AS-1	04/01/2004	<50	<50	NA	0.79	<0.50	<0.50	<1.0	NA	3.2	NA	NA	NA	NA	NA	8.23	5.86	2.37	NA

AS-2	09/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.38	NA	NA	
AS-2	10/17/2000	4,380	1,380 a	NA	167	<10.0	225	680	315	NA	NA	NA	NA	NA	NA	5.50	NA	3.1/3.0	
AS-2	05/01/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
AS-2	11/05/2001	2,200	<300	NA	100	0.99	91	21	NA	220	NA	NA	NA	NA	NA	5.99	NA	0.8/0.6	
AS-2	05/01/2002	880	<300	NA	19	<0.50	31	22	NA	57	NA	NA	NA	NA	NA	5.25	NA	1.0/0.8	
AS-2	07/16/2002	910	<200	NA	40	4.1	39	43	NA	78	NA	NA	NA	NA	NA	5.53	NA	0.7/0.9	
AS-2	10/17/2002	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.65	NA	NA	
AS-2	01/21/2003	<50	140	NA	1.4	<0.50	2.0	0.94	NA	19	NA	NA	NA	NA	NA	8.65	9.32	-0.67	1.4/1.6
AS-2	05/01/2003	56	120 a	NA	2.1	<0.50	4.7	<1.0	NA	12	NA	NA	NA	NA	NA	8.65	6.74	1.91	NA
AS-2	07/17/2003	180	80 a,f	NA	11	0.56	34	13	NA	23	NA	NA	NA	NA	NA	8.65	6.40	2.25	NA
AS-2	10/02/2003	320	190 a	NA	8.5	6.3	24	25	NA	21	NA	NA	NA	NA	NA	8.65	6.20	2.45	NA
AS-2	01/05/2004	210	160 a	NA	1.4	<0.50	21	1.6	NA	15	NA	NA	NA	NA	NA	8.65	6.32	2.33	NA
AS-2	04/01/2004	200	130 a	NA	0.87	<0.50	17	<1.0	NA	18	NA	NA	NA	NA	NA	8.65	6.15	2.50	NA

AS-3	09/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.75	NA	NA
AS-3	10/17/2000	3,520	942 a	NA	588	521	41.2	566	1,740	NA	NA	NA	NA	NA	NA	6.18	NA	3.1/3.0
AS-3	05/01/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AS-3	11/05/2001	1,600	110	NA	41	4.9	8.2	30	NA	240	NA	NA	NA	NA	NA	6.41	NA	1.1/3.2
AS-3	05/01/2002	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.90	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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)
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AS-3	07/16/2002	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AS-3	10/17/2002	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.84	14.78	-5.94
AS-3	01/21/2003	<50	320	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	8.84	11.59	-2.75
AS-3	05/01/2003	57	150 a	NA	0.53	<0.50	4.7	2.7	NA	<5.0	NA	NA	NA	NA	8.84	6.44	2.40
AS-3	07/17/2003	<50	110 a,f	NA	0.83	2.1	2.4	5.4	NA	2.5	NA	NA	NA	NA	8.84	6.55	2.29
AS-3	10/02/2003	<50	96 a	NA	2.9	3.9	8.4	15	NA	8.1	NA	NA	NA	NA	8.84	6.55	2.29
AS-3	01/05/2004	<50	120 a	NA	<0.50	<0.50	<0.50	<1.0	NA	1.5	NA	NA	NA	NA	8.84	6.47	2.37
AS-3	04/01/2004	<50	110 a	NA	<0.50	<0.50	<0.50	<1.0	NA	2.8	NA	NA	NA	NA	8.84	6.32	2.52

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to November 5, 2001, analyzed by EPA Method 8015.

TEPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to November 5, 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

TOB = Top of Wellbox

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

(D) = Duplicate sample

n/n = Dissolved oxygen reading; pre-purge/post-purge.

NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (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)
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Notes:

a = Chromatogram pattern indicates an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.

b = Sample was analyzed outside of EPA recommended holding time.

c = Post-purge DO reading not taken.

d = Lab did not record detected result.

e = Change in casing elevation due to wellhead maintenance.

f = Analysis with Silica Gel Cleanup.

g = Hydrocarbon reported is in the early Diesel range and does not match the laboratory's standard.

h = Hydrocarbon reported is in the late Diesel range and does not match the laboratory's standard.

i = The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

j = Samples were re-extracted past EPA recommended holding time.

k = Surrogate recoveries lower than acceptance limits.

l = Quantity of unknown hydrocarbon(s) in sample based on motor oil.

m = Analyzed by EPA Method 8015B (M).

n = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

o = The sample chromatographic pattern for TPG does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

p = Samples for wells MW-9 and VEW-5 on 7/31/08 appear to have been switched and were re-sampled 8/29/08.

* All Diesel and motor oil samples for this event were lost in laboratory fire.

Site surveyed, except wells MW-11 and MW-12, on March 18, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells MW-1 through MW-4, MW-6, MW-9 through MW-13, VEW-5, VEW-6, abd VEW-7 surveyed on September 27, 2005 by Virgil Chavez Land Surveying of Vallejo, CA.

CAMBRIA

**Table 3. Historic Water Analytical Data - TPHg, TPHd, BTEX, and MTBE - Shell-branded Service Station
- Incident #98995749, 285 Hegenberger Rd., Oakland, California**

Sample ID	Date Sampled	TPHg	TPHd	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE
← parts per billion →								
SB-1	3/18/1999	<50.0	182	<0.500	<0.500	<0.500	<0.500	86.3
SB-2	3/18/1999	3,650	1,290	4.96	<0.500	3.11	2.76	33.9
SB-3	3/18/1999	16,500	5,080	268	8.11	901	1,400	180(<5.00)

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015.

TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

MTBE = Methyl tert-butyl ether by EPA Method 8020. Result in parentheses represents MTBE by EPA Method 8260B.

Benzene, ethylbenzene, toluene, xylenes by EPA Method 8020.

<n = Below detection limit of n mg/kg

Table 2
Groundwater Analytical Data
TPH-g, BTEX compounds, TPH-d, and oil and grease

Shell Service Station
285 Hegenberger Road at Leet Drive
Oakland, California

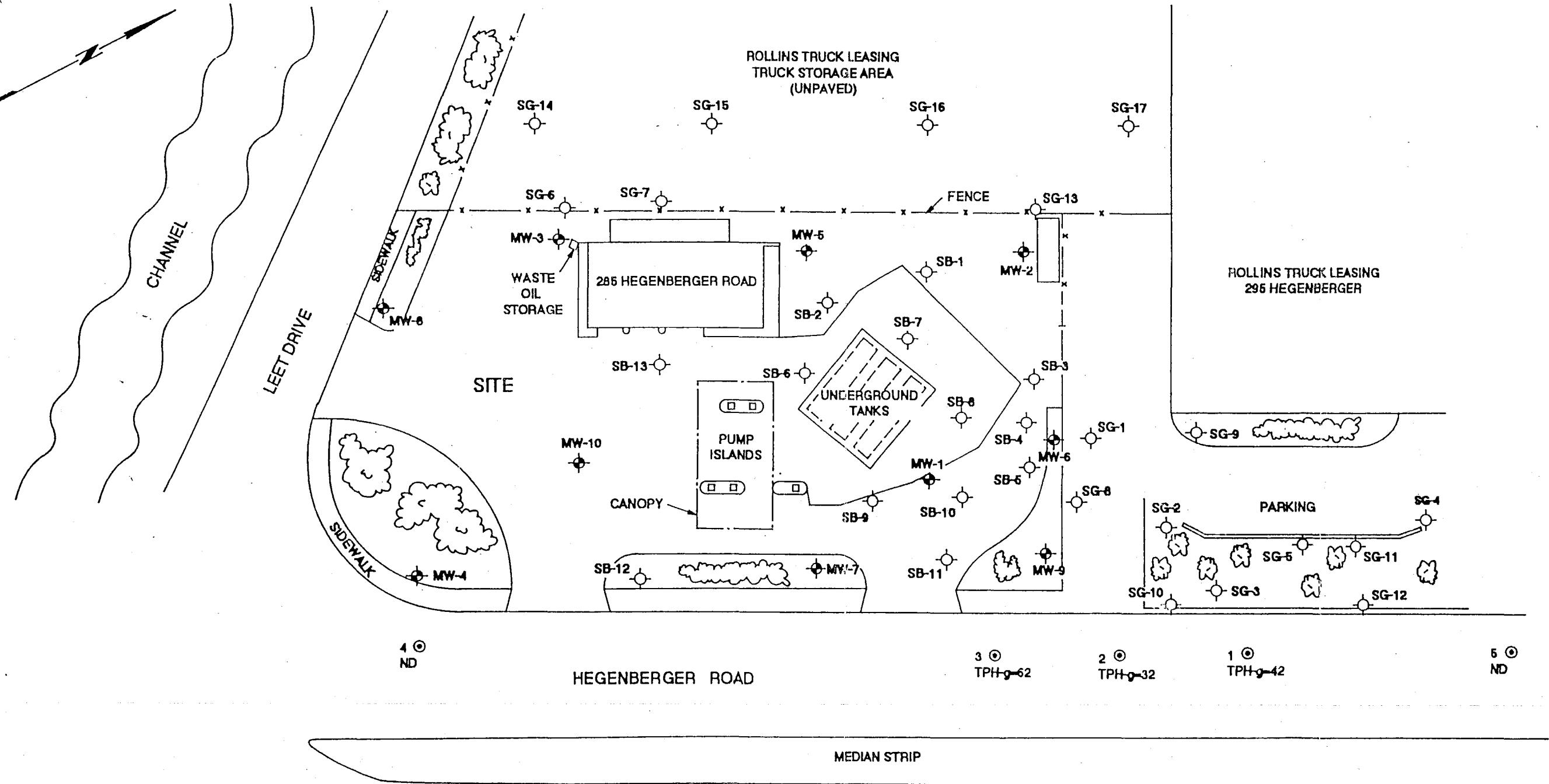
Sample	Date Sampled	TPH-g (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	TPH-d (ppb)	Oil and Grease (ppb)
SLH-1	02/12/92	NA	NA	NA	NA	NA	460,000	720,000
SLH-2	02/12/92	NA	NA	NA	NA	NA	370,000	400,000
SLH-3W	04/21/92	88,000	6,100	2,400	780	1,700	NA	NA
DW-1	05/20/92	87,000	18,000	19,000	5,700	22,000	11,000	NA

ppb = Parts per billion

NA = Not Analyzed

* = The positive result for petroleum hydrocarbon as diesel appears to be a combination of heavier and lighter hydrocarbons, rather than diesel.

APPENDIX E
HISTORICAL SOIL VAPOR DATA



LEGEND

SB-1  **SOIL BORING** (locations approximate)

SG-1 OFF SITE SOIL BORING (locations approximate)

MW-1 GROUNDWATER MONITORING WELL

1 (●) SOIL GAS SAMPLING POINT WITH
TPH_g CONCENTRATION (ppm)

ND- NOT DETECTED

A scale bar with markings at 0, 40, and 80. Below it is the text "APPROXIMATE SCALE IN FEET".

PLAN: SOIL GAS SAMPLING POINTS

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California



Converse Environmental West

Scale	AS SHOWN	Project No.
Prepared by	DEN	09-44 389-20
Checked by	RMB	Date 9/24/90
Approved by	CRC	Drawing No. 4

NET

NATIONAL
ENVIRONMENTAL
TESTING, INC.
®

NET Pacific, Inc.
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Charles Comstock
Converse Consultants
55 Hawthorne St, Ste 500
San Francisco, CA 94105

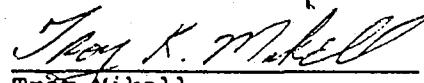
Date: 07-12-91
NET Client Acct No: 18.02
NET Pacific Log No: 8469
Received: 07-09-91 0800

Client Reference Information

SHELL-Hegenberger Road, Oakland

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:


Troy K. Mikell
Troy Mikell
Division Manager, Field Services

JS:rct
Enclosure(s)

NET

NET Pacific, Inc.

Client No: 18.02
© Client Name: Converse Consultants
NET Log No: 8469

Date: 07-12-91

Page: 2

Ref: SHELL-Hegenberger Road, Oakland

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	1	2	Units
			07-08-91	07-08-91	
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (VAPOR)			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			7-8-91	7-8-91	
METHOD GC FID/5030			--	--	
as Gasoline		0.05	42	32	mg/L
METHOD 602			--	--	
Benzene		0.5	890	290	ug/L
Ethylbenzene		0.5	210	340	ug/L
Toluene		0.5	690	670	ug/L
Xylenes		0.5	620	470	ug/L

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Client No: 18.02
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NET Log No: 8469

Date: 07-12-91

Page: 3

Ref: SHELL-Hegenberger Road, Oakland

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	3	4	Units
			07-08-91	07-08-91	
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (VAPOR)			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			7-8-91	7-8-91	
METHOD GC FID/5030			--	--	
as Gasoline		0.05	62	ND	mg/L
METHOD 602			--	--	
Benzene		0.5	300	5.3	ug/L
Ethylbenzene		0.5	380	5.9	ug/L
Toluene		0.5	960	ND	ug/L
Xylenes		0.5	3500	ND	ug/L

NET

NET Pacific, Inc.

Client No: 18.02
© Client Name: Converse Consultants
NET Log No: 8469

Date: 07-12-91

Page: 4

Ref: SHELL-Hegenberger Road, Oakland

Descriptor, Lab No. and Results5
07-08-91

Parameter	Method	Reporting Limit	91053	Units
PETROLEUM HYDROCARBONS			--	
VOLATILE (VAPOR)			--	
DILUTION FACTOR *			1	
DATE ANALYZED			7-8-91	
METHOD GC FID/5030			--	
as Gasoline		0.05	ND	mg/L
METHOD 602			--	
Benzene		0.5	5.0	ug/L
Ethylbenzene		0.5	5.3	ug/L
Toluene		0.5	10	ug/L
Xylenes		0.5	ND	ug/L



NET Pacific, Inc.

Client No: 18.02
® Client Name: Converse Consultants
NET Log No: 8469

Date: 07-12-91

Page: 5

Ref: SHELL-Hegenberger Road, Oakland

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand & Recovery	Blank Data	Spike & Recovery	Duplicate Spike % Recovery	RPD
Gasoline	0.05	mg/L	96	ND	93	85	8.8
Benzene	0.5	ug/L	99	ND	170	165	3.0
Toluene	0.5	ug/L	99	ND	107	100	6.3

COMMENT: Blank Results were ND on other analytes tested.



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KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 [Value\ 1 - Value\ 2]/mean\ value$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

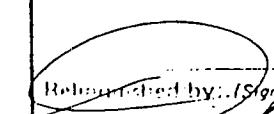
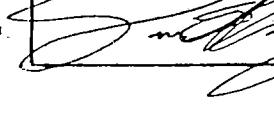
Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

NET Pacific, Inc.

435 TESCONI CIRCLE
SANTA ROSA, CA 95401TEL: 707-526-7200
FAX: 707-526-9623

CHAIN OF CUSTODY RECORD

PROJ. NO. 8469	PROJECT NAME <i>Converse Env. - Hegenberger Rd, Oakland</i>					NO. OF CONTAINERS							
SAMPLES (Signature)					<i>TPH Gas BTEX</i>								
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION								REMARKS
1	7/8/91			X			2	X	X				<i>Soil Vapor Samples</i>
2	/			X			2	X	X				
3	/			X			1	X	X				
4	/			X			1	X	X				
5	/			X			1	X	X				
Relinquished by: (Signature) <i>R. Ruilander</i>			Date / Time 7/8/91 15:04	Received by: (Signature) <i>Jan Effman</i>		Relinquished by: (Signature)			Date / Time	Received by: (Signature)			
Relinquished by: (Signature) 			Date / Time	Received by: (Signature)		Relinquished by: (Signature)			Date / Time	Received by: (Signature)			
Relinquished by: (Signature) 			Date / Time 7/9/91 0800	Received for Laboratory by: (Signature) <i>Kunole</i>		Date / Time 7/9/91 0800			Remarks				

APPENDIX F

SVE AND DPE SYSTEM DATA TABLES

Table 2. Dual-phase Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Date/Time	Hour Meter (hours)	Cumulative Operation (hours)	Well Head				Hydrocarbon Concentrations			TPHg		Benzene		MTBE	
			Vacuum		Flow Rate		TPHg	Benzene	MTBE	Removal Rate (#/hour)	Cumulative Removed (#)	Removal Rate (#/hour)	Cumulative Removed (#)	Removal Rate (#/hour)	Cumulative Removed (#)
			Gauge(in WC)	Abs(in WC)	(ACFM)	(SCFM)	(Concentrations in ppmv)								
MW-10 DPE Test															
11/15/2004 9:45	2648.0	0.0	102.8	304.0	66.5	49.7	525			1.395	0.000	0.0307	0.0000	0.00591	0.00000
10:00	2648.3	0.3	90.1	316.7	30.0	23.4	790			0.656	0.197	0.0144	0.0043	0.00278	0.00083
11:00	2649.4	1.4	395.0	11.8	21.2	0.6	782			0.017	0.216	0.0004	0.0048	0.00007	0.00091
11:10	2649.5	1.5	300.0	106.8	7.6	2.0	63			0.056	0.221	0.0012	0.0049	0.00024	0.00094
11:20	2649.6	1.6	204.0	202.8	8.6	4.3	7,880			0.120	0.233	0.0026	0.0051	0.00051	0.00099
11:25	2649.7	1.7	164.2	242.6	11.0	6.6	10,120			0.184	0.252	0.0041	0.0055	0.00078	0.00107
11:30	2649.8	1.8	119.5	287.3	6.4	4.5	6,040			0.126	0.264	0.0028	0.0058	0.00054	0.00112
11:45	2650.1	2.1	211.5	195.3	9.7	4.7	2,100	51	8.7	0.131	0.303	0.0029	0.0067	0.00055	0.00129
12:00	2650.3	2.3	200.0	206.8	10.4	5.3	13,650			0.148	0.333	0.0033	0.0073	0.00063	0.00141
12:30	2650.8	2.8	169.5	237.3	10.2	6.0	10,120			0.167	0.417	0.0037	0.0092	0.00071	0.00177
13:00	2651.3	3.3	165.0	241.8	10.5	6.3	15,150			0.176	0.504	0.0039	0.0111	0.00074	0.00214
13:30	2651.8	3.8	165.0	241.8	10.0	5.9	2,500	69	15	0.199	0.604	0.0050	0.0136	0.00122	0.00275
11/16/2004 7:30	2669.8	21.8	158.1	248.7	10.0	6.1	NM			0.204	4.281	0.0051	0.1057	0.00125	0.02533
8:10	2670.4	22.4	158.2	248.6	10.0	6.1	328			0.204	4.404	0.0051	0.1087	0.00125	0.02608
8:45	2671.0	23.0	158.2	248.6	10.0	6.1	170	3.9	0.32	0.014	4.412	0.0003	0.1089	0.00003	0.02610
9:30	2671.8	23.8	184.9	221.9	10.0	5.5	310			0.012	4.422	0.0003	0.1091	0.00002	0.02611
9:45	2672.1	24.1	186.1	220.7	10.0	5.4	323			0.012	4.426	0.0003	0.1092	0.00002	0.02612
10:15	2672.6	24.6	300.0	106.8	11.7	3.1	108			0.007	4.429	0.0001	0.1093	0.00001	0.02613
10:45	2673.1	25.1	206.2	200.6	10.0	4.9	394			0.011	4.435	0.0002	0.1094	0.00002	0.02614
11:15	2673.6	25.6	208.6	198.2	10.0	4.9	442			0.011	4.440	0.0002	0.1095	0.00002	0.02615
11:45	2674.1	26.1	210.6	196.2	10.0	4.8	752			0.011	4.446	0.0002	0.1096	0.00002	0.02616
12:15	2674.6	26.6	209.8	197.0	10.0	4.8	748			0.011	4.451	0.0002	0.1097	0.00002	0.02617
12:45	2675.1	27.1	218.1	188.7	10.0	4.6	1,190			0.011	4.457	0.0002	0.1098	0.00002	0.02618
13:15	2675.6	27.6	185.2	221.6	10.0	5.4	1,208			0.012	4.463	0.0003	0.1100	0.00002	0.02619
13:45	2676.1	28.1	185.1	221.7	10.0	5.4	580	13	1.2	0.042	4.484	0.0009	0.1104	0.00009	0.02624
14:30	2676.8	28.8	183.0	223.8	10.0	5.5	1,179			0.043	4.514	0.0009	0.1110	0.00009	0.02630
11/17/2004 7:00	2693.4	45.4	188.0	218.8	5.1	2.8	28,950			0.021	4.869	0.0004	0.1182	0.00005	0.02705
7:15	2693.7	45.7	189.5	217.3	7.3	3.9	1,600	26	4.1	0.083	4.894	0.0012	0.1186	0.00022	0.02712
7:30	2694.0	46.0	188.5	218.3	7.2	3.9	21,340			0.083	4.919	0.0012	0.1189	0.00022	0.02718
MW-9 DPE Test															
11/17/2004 8:40	2694.1	0.0	NM	NA	NM	NA	NM			NA	0.0000	NA	0.000000	NA	0.000000
9:30	2694.9	0.8	32.8	374.0	5.0	4.6	34			0.014	0.011	0.00046	0.000037	0.000004	0.000004
9:45	2695.1	1.0	33.1	373.7	5.0	4.6	23			0.014	0.014	0.00046	0.000046	0.000004	0.000004
10:00	2695.3	1.2	65.2	341.6	5.0	4.2	21			0.013	0.017	0.00042	0.000054	0.000004	0.000005
10:15	2695.6	1.5	100.3	306.5	5.0	3.8	44			0.012	0.020	0.00037	0.000065	0.000004	0.000006
10:25	2695.8	1.7	172.4	234.4	5.0	2.9	23	0.82	<0.14	0.009	0.022	0.00029	0.000071	0.000003	0.000007
11:00	2696.4	2.3	170.2	236.6	1.1	0.6	28			0.002	0.023	0.00006	0.000075	0.000001	0.000007
11:45	2697.2	3.1	188.8	218.0	2.0	1.1	33			0.003	0.026	0.00011	0.000083	0.000001	0.000008
12:15	2697.7	3.6	189.2	217.6	5.0	1.1	31			0.003	0.027	0.00011	0.000089	0.000001	0.000009
12:45	2698.2	4.1	190.5	216.3	2.2	1.2	42			0.004	0.029	0.00011	0.000094	0.000001	0.000009
13:30	2698.9	4.8	191.7	215.1	4.3	2.3	29			0.007	0.034	0.00023	0.000110	0.000002	0.000011
14:00	2699.4	5.3	191.3	215.5	10.2	5.4	38			0.017	0.042	0.00054	0.000137	0.000005	0.000013
14:30	2699.9	5.8	190.8	216.0	4.5	2.4	24	0.44	<0.14	0.008	0.046	0.00013	0.000143	0.000002	0.000014
15:00	2700.4	6.3	191.5	215.3	3.2	1.7	52			0.005	0.049	0.00009	0.000148	0.000002	0.000015

Table 2. Dual-phase Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Date/Time	Hour Meter (hours)	Cumulative Operation (hours)	Well Head			Hydrocarbon Concentrations			TPHg		Benzene		MTBE		
			Vacuum Gauge(in WC)		Flow Rate Abs(in WC)	TPHg	Benzene	MTBE	Removal Rate (#/hour)	Cumulative Removed (#)	Removal Rate (#/hour)	Cumulative Removed (#)	Removal Rate (#/hour)	Cumulative Removed (#)	
			(ACFM)	(SCFM)	(Concentrations in ppmv)										
11/18/2004 7:30	2717.0	22.9	200.0	206.8	1.2	0.6	7		0.0002	0.0082	0.000003	0.000202	0.000001	0.000025	
8:00	2717.5	23.4	200.0	206.8	2.8	1.4	4		0.0005	0.0084	0.000008	0.000206	0.000001	0.000026	
8:30	2718.0	23.9	200.0	206.8	1.8	0.9	8		0.0003	0.0085	0.000005	0.000209	0.000001	0.000026	
9:00	2718.5	24.4	200.0	206.8	5.4	2.8	5		0.0009	0.0090	0.000015	0.000216	0.000003	0.000027	
9:30	2719.0	24.9	200.0	206.8	2.2	1.1	<14	<0.31	<0.14	0.0001	0.0090	0.000002	0.000217	0.000001	0.000028
10:00	2719.5	25.4	200.0	206.8	4.4	2.2	3		0.0002	0.0091	0.000004	0.000219	0.000002	0.000029	
MW-1 DPE Test															
11/18/2004 10:30	2720.0	0.0	198.2	208.6	2.8	1.4	137		0.050	0.000	0.0004	0.0000	0.00005	0.00000	
10:45	2720.3	0.3	199.1	207.7	3.0	1.5	411		0.053	0.016	0.0004	0.0001	0.00006	0.00002	
11:00	2720.5	0.5	198.8	208.0	1.4	0.7	563		0.025	0.021	0.0002	0.0002	0.00003	0.00002	
11:15	2720.7	0.7	175.2	231.6	2.1	1.2	2,600	24	2.7	0.042	0.029	0.0003	0.0002	0.00004	0.00003
11:30	2721.0	1.0	105.4	301.4	0.5	0.4	4,930		0.013	0.033	0.0001	0.0003	0.00001	0.00004	
11:45	2721.3	1.3	78.0	328.8	5.0	4.0	4,950		0.140	0.075	0.0012	0.0006	0.00015	0.00008	
12:00	2721.5	1.5	108.6	298.2	5.0	3.7	4,140		0.127	0.101	0.0011	0.0008	0.00014	0.00011	
12:30	2722.0	2.0	130.1	276.7	8.7	5.9	3,480		0.206	0.204	0.0017	0.0017	0.00022	0.00022	
13:00	2722.5	2.5	128.2	278.6	5.0	3.4	3,108		0.119	0.263	0.0010	0.0022	0.00013	0.00028	
13:30	2723.0	3.0	131.4	275.4	5.0	3.4	3,359		0.118	0.322	0.0010	0.0027	0.00013	0.00034	
14:00	2723.5	3.5	116.3	290.5	5.0	3.6	3,230		0.124	0.384	0.0010	0.0032	0.00013	0.00041	
14:30	2724.0	4.0	129.3	277.5	5.0	3.4	3,140		0.119	0.443	0.0010	0.0037	0.00013	0.00047	
15:00	2724.5	4.5	118.9	287.9	3.8	2.7	1,000	19	<1.4	0.036	0.461	0.0006	0.0040	0.00003	0.00048
15:30	2725.0	5.0	121.4	285.4	5.0	3.5	4,010		0.047	0.485	0.0008	0.0044	0.00003	0.00050	
11/19/2004 8:00	2741.5	21.5	167.4	239.4	25.8	15.2	296		0.203	3.834	0.0035	0.0621	0.00015	0.00290	
8:30	2742.0	22.0	26.5	380.3	8.4	7.9	903		0.105	3.886	0.0018	0.0630	0.00008	0.00294	
8:40	2742.2	22.2	102.5	304.3	5.0	3.7	1,221		0.050	3.896	0.0009	0.0632	0.00004	0.00294	
9:00	2742.5	22.5	145.2	261.6	8.4	5.4	1,100	9.7	1.5	0.079	3.920	0.0006	0.0634	0.00011	0.00298
9:30	2743.0	23.0	137.8	269.0	5.0	3.3	2,030		0.049	3.944	0.0004	0.0636	0.00007	0.00301	
10:50	2744.4	24.4	137.2	269.6	39.3	26.0	900	9.3	1.5	0.313	4.383	0.0029	0.0677	0.00053	0.00376
MW-10 DPE Test															
11/19/2004 12:00	2744.8	0.0	NM	NA	NM	NA	NM		NA	0.000	NA	0.000	NA	0.000	
12:30	2745.3	0.5	118.0	288.8	8.4	5.9	5,240		0.207	0.103	0.003	0.002	0.001	0.001	
12:45	2745.5	0.7	112.0	294.8	10.2	7.4	2,600	47	17	0.257	0.155	0.004	0.003	0.002	0.001
13:00	2745.8	1.0	113.5	293.3	10.5	7.6	5,270		0.263	0.234	0.004	0.004	0.002	0.002	
14:15	2747.1	2.3	139.5	267.3	8.1	5.3	6,780		0.185	0.475	0.003	0.008	0.001	0.003	
11/22/2004 7:30	2812.5	67.7	129.8	277.0	15.3	10.4	23,870		0.362	24.156	0.006	0.396	0.002	0.162	
7:35	2812.6	67.8	130.9	275.9	14.7	10.0	22,980		0.347	24.191	0.006	0.397	0.002	0.162	
7:45	2812.8	68.0	132.4	274.4	16.1	10.9	8,100	110	22	1.176	24.426	0.014	0.400	0.003	0.163
11/23/2004 7:30	2836.6	91.8	156.0	250.8	13.1	8.1	19,990		0.876	45.271	0.011	0.656	0.002	0.220	
8:00	2837.1	92.3	156.0	250.8	12.9	7.9	18,470		0.860	45.701	0.011	0.662	0.002	0.222	
8:30	2837.6	92.8	156.0	250.8	14.5	9.0	30,000	460	100	3.590	47.496	0.050	0.687	0.012	0.228
9:00	2838.1	93.3	156.0	250.8	13.6	8.4	19,660		3.365	49.179	0.047	0.710	0.011	0.233	
9:30	2838.6	93.8	156.0	250.8	11.9	7.3	24,010		2.945	50.651	0.041	0.730	0.010	0.239	
10:15	2839.3	94.5	156.0	250.8	10.5	6.5	22,030		2.591	52.465	0.036	0.756	0.009	0.245	
10:45	2839.8	95.0	156.0	250.8	11.5	7.1	21,240		2.848	53.889	0.040	0.775	0.010	0.250	
11:30	2840.6	95.8	156.0	250.8	9.2	5.7	20,190		2.272	55.707	0.032	0.801	0.008	0.256	
12:00	2841.1	96.3	156.0	250.8	8.6	5.3	19,970		2.124	56.769	0.030	0.815	0.007	0.259	

Table 2. Dual-phase Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Date/Time	Hour Meter (hours)	Cumulative Operation (hours)	Well Head			Hydrocarbon Concentrations			TPHg		Benzene		MTBE		
			Vacuum		Flow Rate	TPHg	Benzene	MTBE	Removal Rate (#/hour)	Cumulative Removed (#)	Removal Rate (#/hour)	Cumulative Removed (#)	Removal Rate (#/hour)	Cumulative Removed (#)	
			Gauge(in WC)	Abs(in WC)	(ACFM)	(SCFM)	(Concentrations in ppmv)								
12:30	2841.6	96.8	156.0	250.8	10.1	6.2	20,580		2.502	58.020	0.035	0.833	0.009	0.264	
13:00	2842.1	97.3	156.0	250.8	10.5	6.5	19,840		2.604	59.322	0.036	0.851	0.009	0.268	
13:30	2842.6	97.8	156.0	250.8	9.9	6.1	26,000	400	82	2.119	60.381	0.030	0.866	0.007	0.272
14:00	2843.1	98.3	156.0	250.8	8.5	5.2	21,420		1.813	61.288	0.025	0.878	0.006	0.274	
14:30	2843.6	98.8	156.0	250.8	9.0	5.5	20,590		1.922	62.249	0.027	0.892	0.006	0.278	
15:00	2844.1	99.3	156.0	250.8	8.5	5.3	18,560		1.830	63.164	0.026	0.905	0.006	0.280	
11/24/2004 8:00	2856.0	111.2	160.0	246.8	5.7	3.5	18,690		1.200	77.441	0.017	1.104	0.004	0.327	
8:30	2856.5	111.7	160.0	246.8	8.4	5.1	19,980		1.778	78.330	0.025	1.116	0.006	0.329	
9:00	2857.0	112.2	160.0	246.8	10.7	6.5	21,000	350	74	1.814	79.237	0.027	1.130	0.007	0.333
9:30	2857.5	112.7	160.0	246.8	8.1	4.9	17,250		1.386	79.930	0.021	1.140	0.005	0.335	
10:00	2858.0	113.2	160.0	246.8	8.7	5.3	20,490		1.477	80.669	0.022	1.152	0.005	0.338	
10:30	2858.5	113.7	160.0	246.8	8.5	5.2	19,420		1.454	81.396	0.022	1.163	0.005	0.340	
11:00	2859.0	114.2	160.0	246.8	8.2	5.0	22,490		1.398	82.095	0.021	1.173	0.005	0.343	
11:30	2859.5	114.7	160.0	246.8	8.5	5.2	22,200		1.448	82.819	0.022	1.184	0.005	0.346	
12:00	2860.0	115.2	160.0	246.8	8.9	5.4	20,860		1.517	83.577	0.023	1.196	0.005	0.348	
12:30	2860.5	115.7	160.0	246.8	6.9	4.2	24,630		1.173	84.164	0.018	1.204	0.004	0.350	
13:00	2861.0	116.2	160.0	246.8	7.2	4.3	21,590		1.218	84.773	0.018	1.214	0.004	0.353	
13:30	2861.5	116.7	160.0	246.8	7.0	4.2	59,000	660	140	3.326	86.436	0.034	1.230	0.008	0.357
14:00	2862.0	117.2	160.0	246.8	9.5	5.7	20,960		4.527	88.699	0.046	1.253	0.011	0.362	
Total Pounds Removed:									TPHg =	98.0	Benzene =	1.44	MTBE =	0.393	

Abbreviations and Notes:

in WC = inches of water column

ACFM = Actual cubic feet per minute

SCFM = Standard cubic feet per minute.

SCFM = (ACFM) (Applied Absolute Vacuum / Atmospheric Absolute Vacuum)

ppmv = Parts per million by volume # = Pounds

O/R = Over range of instrument

NM = Not measured

NA = Not available

H2O = Measurement not available because the air was too wet.

TPHg, Benzene, and MTBE analyzed by EPA Method 8260 respectively from 1 liter tedlar bag samples

(Rate = Laboratory analytical concentration (ppmv) x wellhead flow rate (scfm) x (1lb-mole/386ft³) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, 88 lb/lb-mole for MTBE) x 60 min/hour x 1/1,000,000)

Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total

When constituents are not detected by laboratory analysis, half the detection limit is used in subsequent calculations

Italicized TPHg Concentrations are field measured values.*Italicized* Vacuum and Flow Rate data is estimated. Readings were either not measured or not measurable with available monitoring equipment under set operating conditions.

Table 2: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, CA

Date	Meter	Interval Hour	System Hours of Operation	Flow Rate (CFM)	Hydrocarbon Concentrations			TPHg		Benzene		MTBE	
					TPHg TPHg (#/hour)	Cumulative TPHg (#)	Benzene	Benzene Removal (#)	Cumulative Benzene (#)	MTBE Removal (#)	MTBE Rate (#/hour)	Cumulative MTBE (#)	
							Removal Rate (#/hour)	Removed (#)					
Date	Meter	Interval Hour	System Hours of Operation	Flow Rate (CFM)	(Concentrations in ppmv)								
03/25/02		---	---	---	<5.0	<0.050	<0.10	nc	nc	nc	nc	nc	nc
03/26/02		---	---	---	<5.0	<0.050	<0.10	nc	nc	nc	nc	nc	nc
03/27/02		---	---	---	<5.0	<0.050	<0.10	nc	nc	nc	nc	nc	nc
03/28/02		---	---	---	<5.0	<0.050	<0.10	nc	nc	nc	nc	nc	nc
03/29/02		---	---	---	<5.0	<0.050	<0.10	nc	nc	nc	nc	nc	nc
04/30/02	0	0	---	---	300	3.40	<0.20	nc	nc	nc	nc	nc	nc
05/09/02		---	8.0	300	3.40	<0.20	0.032	0.000	0.000	0.000	0.000	0.000	0.000
05/14/02		---	4.7	52	1.70	0.32	0.003	0.000	0.000	0.000	0.000	0.000	0.000
06/03/02		---	---	52	1.70	0.32	nc	nc	nc	nc	nc	nc	nc
06/25/02		---	---	52	1.70	0.32	nc	nc	nc	nc	nc	nc	nc
07/05/02		---	---	91	1.60	0.12	nc	nc	nc	nc	nc	nc	nc
07/16/02		---	---	91	1.60	0.12	nc	nc	nc	nc	nc	nc	nc
07/30/02		---	---	120	1.50	0.16	nc	nc	nc	nc	nc	nc	nc
08/13/02	2,055	2,055	--	120	1.50	0.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09/23/02	2,057	2	39.4	930	5.6	<4.0	0.490	0.980	0.003	0.005	0.001	0.002	
10/01/02	2,243	186	32.0	930	5.6	<4.0	0.398	74.976	0.002	0.409	0.001	0.165	
10/15/02	2,580	337	18.5	90	0.31	<0.10	0.022	82.476	0.000	0.433	0.000	0.169	
10/29/02	2,916	336	34.5	90	0.31	<0.10	0.042	96.423	0.000	0.476	0.000	0.177	
11/11/02	3,008	92	37.5	<5.0	<0.050	<0.10	0.001	96.538	0.000	0.478	0.000	0.180	
11/26/02	NA	NA	25.5	<5.0	<0.050	<0.10	0.001	96.538	0.000	0.478	0.000	0.180	
12/02/02*	NA	144	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12/09/02	168	24	24.5	34	<0.050	<0.10	0.011	96.809	0.000	0.478	0.000	0.180	
01/15/03	645	477	11.3	34	<0.050	<0.10	0.005	99.257	0.000	0.479	0.000	0.184	
01/31/03	645	0	9.0	28	<0.050	<0.10	0.003	99.257	0.000	0.479	0.000	0.184	
02/14/03	645	0	29.5	ns	ns	ns	0.000	99.257	0.000	0.479	0.000	0.184	

Table 2: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, CA

Total Pounds Removed:	TPHg =	99.257	Benzene =	0.479	MTBE =	0.184
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Abbreviations and Notes:

CFM = Cubic feet per minute

TPHg = Total petroleum hydrocarbons as gasoline (C6-C12) by modified EPA Method 8015 in 1 liter tedlar bag samples

ppmv = Parts per million by volume

= Pounds

ns = not sampled

nc = Not calculated

* = Hour meter replaced on 12/02/02

TPHG, Benzene, and MTBE analyzed by EPA Method 8015/8020 in 1 liter tedlar bag samples

TPHg / Benzene / MTBE removal rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.

(Rate = Concentration (ppmv) x system flow rate (cfm) x (1lb-mole/386ft³) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, 88 lb/lb-mole for MTBE)
x 60 min/hour x 1/1,000,000)

Calculations based on most recent sampling results (system sampled monthly).

Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total

If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.

Table 4. Hydrocarbon Mass Removal Summary - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Well ID	Date	Hours of Operation	Flow Rate (hrs.) (cfm)	System [YDROCARBON CONCENTRATION			TPHg Removal Rate (#/day)	Cumulative TPHg Removal (#)	MTBE Removal Rate (#/day)	Cumulative MTBE Removal (#)	Benzene Removal Rate (#/day)	Cumulative Benzene Removal (#)	Comments
				TPHg	MTBE	Benzene ←————(ppmv)————→							
VW-4	11/03/99	0	26	---	---	---	---	---	---	---	---	---	Startup
VW-4	11/03/99	0.6	---	---	---	---	---	---	---	---	---	---	
VW-4	11/03/99	1.77	15.6	259	26.4	2.3	1.3	0.096	0.135	0.010	0.010	0.001	VW-4A sample collected
VW-4	11/03/99	2	17.6	366	3.47	6.05	2.1	0.172	0.020	0.002	0.031	0.003	End Test. VW-4B sample collected
VW-1	11/04/99	0	1.0	---	---	---	---	---	---	---	---	---	Startup
VW-1	11/04/99	0.25	0.9	---	---	---	---	---	---	---	---	---	
VW-1	11/04/99	0.33	2.22	---	---	---	---	---	---	---	---	---	
VW-1	11/04/99	0.583	1.32	---	---	---	---	---	---	---	---	---	
VW-1	11/04/99	1	8.8	1,410	40.6	24.5	4.0	0.166	0.12	0.005	0.06	0.003	VW-1A sample collected
VW-1	11/04/99	1.25	3.63	---	---	---	---	---	---	---	---	---	
VW-1	11/04/99	1.75	4.18	---	---	---	---	---	---	---	---	---	
VW-1	11/04/99	2	2.2	1,350	44.2	32.3	0.95	0.206	0.03	0.006	0.02	0.499	End Test. VW-1B sample collected
VW-2	11/04/99	0	0.29	---	---	---	---	---	---	---	---	---	Startup
VW-2	11/04/99	0.083	0	---	---	---	---	---	---	---	---	---	
VW-2	11/04/99	0.25	0	---	---	---	---	---	---	---	---	---	End Test
VW-3	11/04/99	0	0	---	---	---	---	---	---	---	---	---	Start up
VW-3	11/04/99	0.083	0	---	---	---	---	---	---	---	---	---	
VW-3	11/04/99	0.25	0	---	---	---	---	---	---	---	---	---	End Test
VW-1/VW-11/04/99	0	22.7	---	---	---	---	---	---	---	---	---	---	Startup at Optimized settings VW-1/VW-4
VW-1/VW-11/04/99	0.5	18.3	---	---	---	---	---	---	---	---	---	---	
VW-1/VW-11/04/99	1	18.7	355	37.8	3.32	2.13	0.089	0.23	0.010	0.02	0.001	---	VW-1/VW-4 sample collected
VW-1/VW-11/05/99	26.66	19.1	---	---	---	---	---	---	---	---	---	---	Optimized System
VW-1/VW-11/05/99	26.91	19.6	---	---	---	---	---	---	---	---	---	---	
VW-1/VW-11/05/99	27.74	19.6	---	---	---	---	---	---	---	---	---	---	
VW-1/VW-11/08/99	71	--	---	---	---	---	---	---	---	---	---	---	System down on arrival - 71 hrs of operation
VW-1/VW-11/09/99	71	18.9	---	---	---	---	---	---	---	---	---	---	Re-start system at 8:30 am
VW-1/VW-11/09/99	72.25	17.8	---	---	---	---	---	---	---	---	---	---	
VW-1/VW-11/09/99	73	18	1,030	129	29.7	5.95	17.933	0.76	2.300	0.16	0.467	---	End test. VW-1/VW-4 sample collected
EFF Carbon 11/09/99	---	---	---	---	---	---	---	---	---	---	---	---	Effluent Sample taken at 10:30 am, ND

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Table 4. Hydrocarbon Mass Removal Summary - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Table 4. Hydrocarbon Mass Removal Summary - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Well ID	Date	Cumulative Hours of Operation	System Flow Rate (hrs.)	HYDROCARBON CONCENTRATION			TPHg Removal Rate (#/day)	Cumulative TPHg Removal (#)	MTBE Removal Rate (#/day)	Cumulative MTBE Removal (#)	Benzene Removal Rate (#/day)	Cumulative Benzene Removal (#)	Comments
				Influent TPHg (cfm)	TPHg (ppmv)	MTBE Benzene							

Abbreviations and Notes:

cfm = Cubic feet per minute

ppmv = Parts per million by volume

= Pounds

ND = Below detection limits

--- = Not analyzed or not measured.

SVE = Soil vapor extraction

TPHg = Total petroleum hydrocarbons as gasoline (C6-C12), analyzed by modified EPA Method 8015

Benzene and MTBE are analyzed by EPA Method 8020

TPHg, MTBE, and benzene removal rate = Lab concentration(ppmv) x system flow rate (cfm) x (1lb-mole/386ft³) x molecular weight (86 lb/lb-mole for TPHg, 88.15 lb/lb-mole for MTBE, 78 lb/lb-mole x 1440 min/day x 1/1,000,000.

Cumulative TPHg, MTBE, and benzene removal = Cumulative sum of the current and previous removal

TABLE 1. SOIL VAPOR EXTRACTION PILOT TEST SUMMARY

Shell Oil Company Facility
285 Hegenberger Road
Oakland, California

Maximum Vacuum Observed at Wellhead
(Inches of Water)

Flow Rate (CFM) ¹	VEW-1 ²	VM-2 (r = 10 ft) ³	MW-9 (r = 19 ft) ³	VM-3 (r = 19.5 ft) ³	MW-6 (r = 29 ft) ³	VM-4 (r = 29.7 ft) ³	MW-1 (r = 30.5 ft) ³
10	10	5	0	0.85	0	3	0
30	53	16	0	3	3	10	4
70	75	30	0	6	5	17	11
80	75	30	0	6	4	17	10
90	95	40	0	7	5	20	13

NOTES:

1. CFM = Cubic Feet per Minute
2. VEW-1 is The Extraction Well
2. r = Radial Distance From Extraction Well

TABLE 2. RESULTS OF SOIL VAPOR CHEMICAL ANALYSES

Shell Oil Company Facility
285 Hegenberger Road
Oakland, California

Sample No.	TPH-g ¹ (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)
VEW-1-1 ²	11	0.17	0.04	0.044	0.11
VEW-1-2 ²	6.5	0.12	0.046	0.025	0.075
VEW-1-3 ²	56	0.48	0.073	0.029	0.063
VEW-1-4	90	1.7	0.45	0.18	0.44
VEW-1-5	75	1.5	0.42	0.22	0.57
VEW-1-6	58	1.2	0.43	0.15	0.4
Detection Limits	0.006	0.00006	0.00006	0.00006	0.00006

NOTES:

1. TPH-g = Total Petroleum Hydrocarbons Characterized as gasoline
2. Lower concentrations are likely due to dilution with bleed air.