ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
COLLEEN CHAWA, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
LOCAL OVERSIGHT PROGRAM (LOP)
For Hazardous Materials Releases
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6700
FAX (510) 337-9335

June 11, 2018

Jennifer Sedlachek
ExxonMobil
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3200 Southwest Fwy
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Zack Spencer
FWS Highland LLC
99 S. Hill Drive
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BNY Western Trust Company
R.J. Dold
Address Unknown

Bieu Tran, Andy H Chan & Peter H. Chen
13081 Brookpark Road
Oakland, CA 94619-3503
(bieutran@yahoo.com)

Subject: Case Closure for Leaking Underground Storage Tank Cleanup Site Case No RO0002515 and GeoTracker Global ID # T06019757161, Valero #3832, 3450 35th Avenue, Oakland, CA 94619

Dear Responsible Parties:

This letter transmits the enclosed Remedial Action Completion Certificate and Case Closure Summary Form for the subject Leaking Underground Storage Tank Cleanup Site (LUST) case. These documents confirm the completion of the investigation and cleanup of the unauthorized release at the subject site.

ACDEH has evaluated this case for closure in accordance with the State Water Resources Control Board's Low-Threat Underground Storage Tank Closure Policy (LTCP) for petroleum related contaminants and has determined that the site qualifies for closure as a low risk site. ACDEH's closure determination was based on an analysis of risk to human health and the environment under the current land use scenario and was limited to:

- Exposure to releases of petroleum related contamination from underground storage system, and
- Identified receptors at and in the vicinity of the site under the land use scenarios and site development configurations at the time of case closure.

Risk to receptors under different land use scenarios or site configurations, or from other potential contaminants of concern associated with historic land use at and/or in the vicinity of the site were not considered in the closure determination of this LUST site.

Due to residual subsurface contamination on the property associated with historic land use and operations, the property owner is responsible for complying with the following requirements:

1. Notifying contractors and utility workers of residual subsurface contamination at the site prior to implementing any work that could results in exposure to subsurface contamination. Each contractor shall be responsible for

the safety of its employees and site visitors and must adhere to a site-specific health and safety plan prepared for the work in accordance with California Occupational Safety and Health Administration requirements and use properly trained personnel in accordance with California Code of Regulations, Title 29, Part 1910.120 Hazardous Waste Operations and Emergency Response (HAZWOPER) standards; and

2. Notifying ACDEH (as required by Government Code Section 65850.2.2) prior to permitting and implementation of site redevelopment activities that modify he existing site configuration or land use at the time of this case closure. Upon notification, ACDEH will re-evaluate the risk to human health related to the proposed modifications to existing site improvements or proposed redevelopment project. ACDEH recommends that notification be provided in the initial stages of the planning and permitting process to facilitate interagency coordination and an efficient permitting process.

ACDEH recommends that during property transactions or bank refinancing for the site or properties in the vicinity of the site that environmental due diligence activities include an evaluation of potential contaminants of concern from all historic land uses at and in the vicinity of the site and associated risk to human health and the environment. Online case files for environmental cases associated with contamination related to historic land use and operations at and in the vicinity of the site can be viewed over the Internet at:

- ACDEH website (http://www.acgov.org/aceh/index.htm)
- State Water Resources Control Boards GeoTracker database: https://geotracker.waterboards.ca.gov;
- California Department of Toxics Substances Control Board's Envirostor database: http://www.dtsc.ca.gov/sitecleanup/cleanup_sites_index.cfm;
- United States Environmental Protection Agency's (EPA) Site Specific National Cleanup database: https://www.epa.gov/cleanups/site-specific-national-cleanup-databases

If you have any questions, please contact ACDEH caseworker Keith Nowell at (510) 567-6764 or keith.nowell@acgov.org

Sincerely,

Paresh C. Khatri
Supervising Hazardous Materials Specialist
Local Oversight & Site Cleanup Programs

Dilan Roe, P.E.
Chief, Land & Water Division

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

cc: Mark Arniola, City of Oakland Environmental Services Division 250 Frank H. Ogawa Plaza, Ste. 5301, Oakland, CA 94612 (Sent via electronic mail to: MArniola@oaklandnet.com)
City of Oakland Planning and Building Dept., 50 Frank H. Ogawa Plaza, Ste. 2114, Oakland, CA 94612
City of Oakland Public Works Dept., 50 Frank H. Ogawa Plaza, Ste. 4314, Oakland, CA 94612
Ryan Haughy, ETIC, 250 Colorado Blvd, Suite 110, Arcadia, CA 91007
(Sent via electronic mail to: rhaughy@eticeng.com)
Dilan Roe, ACDEH, (Sent via electronic mail to: dilan.roe@acgov.org)
Paresh Khatri, ACDEH; (Sent via electronic mail to: paresh.khatri@acgov.org)
Keith Nowell, ACDEH, (Sent via electronic mail to: keith.nowell@acgov.org)
Electronic File; GeoTracker

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
COLLEEN CHAWLA, Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
OFFICE OF THE DIRECTOR
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REMEDIAL ACTION COMPLETION CERTIFICATION

June 11, 2018

Jennifer Sedlachek
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(jennifer.c.sedlachek@exxonmobil.com)

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BNY Western Trust Company
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13081 Brookpark Road
Oakland, CA 94619-3503
(bieutran@yahoo.com)

Subject: Case Closure for Leaking Underground Storage Tank Cleanup Site Case No RO0002515 and GeoTracker Global ID #T06019757161, Valero #3832, 3450 35th Avenue, Oakland, CA 94619

Dear Responsible Parties:

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

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

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

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

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

Sincerely,

Ronald Browder

Ronald Browder
Director

ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
LEAKING UNDERGROUND STORAGE TANK CLEANUP SITE
CASE CLOSURE SUMMARY FORM

Valero #3832, 3450 35th Ave, Oakland, CA,
Case No. RO0002515, Geotracker ID T06019757161

JUNE 11, 2018

This Case Closure Summary Form was prepared by Alameda County Department of Environmental Health (ACDEH) for the case identified above. This form provides a summary of information on the case and the basis for case closure. ACDEH's closure determination was based upon information in the case file and a case closure evaluation conducted in accordance with the State Water Resources Control Board's Low-Threat Underground Storage Tank Closure Policy (LTCP) for petroleum related contaminants. Based on this evaluation, and with the provision that the information provided to this agency is accurate and representative of site conditions, ACDEH has determined that there is a low threat to human health and safety and the environment at and in the vicinity of the site from residual subsurface contamination associated with the unauthorized release of petroleum related constituents from underground storage tank systems at the site.

Information in this Case Closure Summary Form is organized as follows:

- **Section 1 – Case Information**: Facility/site address, case identification numbers, lead regulatory oversight agency information, and responsible party information;
- **Section 2 – Property Information**: Assessor parcel numbers, historic land use and operations, environmental cases associated with the property, and land use at time of case closure;
- **Section 3 – Case Summary**: Reason the case was opened, investigation and cleanup activities, and the basis for the case closure determination;
- **Section 4 – Residual Contamination**: Constituents evaluated during site investigation activities and residual contamination remaining at closure;
- **Section 5 – Engineering and Institutional Controls**: Engineering and institutional controls established for the property; and
- **Section 6 – Completion of Closure Activities**: Status of monitoring and remediation wells and probes and disposal of investigation and remediation derived waste, and stakeholder notification of the proposed case closure.

Supporting documentation is provided in the following attachments:

- **Attachment A – LTCP Evaluation:** Geotracker LTCP checklist, site conceptual model summary, and LTCP media specific evaluation for groundwater, vapor intrusion and direct contact/outdoor air exposure;
- **Attachment B – Site Investigation Data**: Preferential pathways and sensitive receptor survey data, boring logs and media specific data;
- **Attachment C – Responsible Party & Property Information**: Responsible party identification, assessor's office property information, site configuration at time of case closure, and institutional controls (if applicable);
- **Attachment D – Case Closure Public Notification Information**: Public notification fact sheet and distribution list;
- **Attachment E**: List of attachment subcategories, and acronyms and symbols used in the Closure Summary Form.

Additional information on this case can be viewed in the online case file over the Internet on the ACDEH website (http://www.acgov.org/aceh/lop/ust.htm) or the State of California Water Resources Control Board GeoTracker website (http://geotracker.waterboards.ca.gov). Both databases should be reviewed to obtain a complete history.

CASE CLOSURE SUMMARY FORM

SECTION 1 - CASE INFORMATION

A. Facility/Site Address (Case Name & Address)

Project Name	Address
Valero #3832	3450 35th Ave. Oakland, CA 94619

B. Case Identification Numbers

Cleanup Oversight Agencies	Case/ID No
Alameda County Local Oversight Program (LOP) - Lead Agency	RO0002515
San Francisco Bay Regional Water Quality Control Board (Region 2)	Not Applicable
State Water Resources Control Board GeoTracker Global ID	T06019757161

C. Lead Agency Information

Agency Name:	Agency Address:	Agency Phone:
Alameda County Department of Environmental Health (ACDEH)	1131 Harbor Bay Parkway, Alameda, CA 94502-6577	(510) 567-6700
Case Worker:	LOP Supervisor:	Land Water Division Chief:
Keith Nowell, PG 8145, CHG 899	Paresh Khatri	Dilan Roe, PE C73703

D. Responsible Party Information

Responsible Parties:	Address:
EXXONMOBILE Attn.: Jennifer Sedlachek	4096 Piedmont Ave. #194 Oakland, CA 94611
BNY Western Trust Company, c/o R J Dold	Address Unknown
MHCB (USA) Leasing & Finance Corporation c/o R J Dold	3200 Southwest Fwy, Houston, TX 77027
Valero, Attn: Roger Levin	10955 Westmoor Drive Suite 400, West Minster, CO 80021
FWS Highland LLC	99 S. Hill Dr. Brisbane, CA 94005-1274
Bieu T Tran, Andy H Chan & Peter H Chen	13081 Brookpark Road, Oakland, CA 94619-3503

SECTON 2 - PROPERTY INFORMATION

A. Assessor Parcel Numbers (APNs) & Associated Addresses

	APN(s)	Addresses
Current	30-1980-20-1	3450, 3452, 3456, 3462, 3468, 3474 35th Ave, Oakland, CA 94619
Historic	30-1980-16	Not Identified

B. Identified Historic Land Use & Operations

Type	Description
Fueling Station	The site was historically used as a commercial fueling station 2002. Texaco Refining and Marketing Inc., Exxon Corporation, and Valero Energy Corporation operated at the site and a total of seven USTs and associated fuel dispensing systems were installed and removed at various times. The station was in decommissioned in 2002.
Automobile Repair Facility	An automobile repair facility was associated with use of the site as a fueling facility until 1997. Known infrastructure included hydraulic hoists and a waste oil tank. During investigation of the unauthorized releases of petroleum hydrocarbons from the UST systems petroleum hydrocarbon contamination was detected in soil samples collected in the vicinity of the waste oil tank and hydraulic hoists.
Fill/Debris Placement	During investigation of the unauthorized releases of petroleum hydrocarbons from the UST systems fill material and debris was identified in the subsurface at various locations at the site at depths of up to five feet below ground surface (bgs). No information about the origin and placement of the fill/debris is contained in the case file.
Other Site Uses	Unknown

C. Environmental Cases Associated with Property

Case Type	Lead Agency	LOP Case No; Geotracker ID	Case Name	Associated Historic Land Use	Primary PCOCs	Year Case Opened/Closed
Case Associated with this Case Closure Summary Form						
LUST	ACDEH	RO0002515; T06019757161	Valero #3832	Fueling Station	**Fuel USTs:** TPHg, VOCs	2007/2018
Other Cases Associated with the Property						
LUST	ACDEH	RO0001083; T0600100540	Exxon #7-0234	Fueling Station	**Fuel USTs:** TPHg, VOCs **Waste Oil UST:** TPH(g, d, mo), SVOCs, VOCs, metals **Hydraulic Hoists:** TPHho, PCBs **Fill Material:** Unknown	1991/2000

SECTON 3 – CASE SUMMARY

Two separate LUST Site Cleanup Cases are associated with unauthorized releases of petroleum hydrocarbons and related fuel constituents to the subsurface during operation of the site as a commercial fueling station. Although this Case Closure Summary Form was prepared specifically for the Valero #3832 LUST Case (T06019757161/RO0002525), information on the previous Exxon #7-0234 LUST Case (T0600100540/RO0001083) has been included to distinguish between the unauthorized releases of petroleum hydrocarbons and related fuel constituents from the UST systems, site investigation and remediation activities, and closure evaluation associated with each case.

A. Known UST Systems & Service Station Infrastructure

UST System Component	Size/Quantity	Material Stored	Status	URF Filing Date
Piping	100-200 feet	Gasoline	Removed	June 1991
UST	8000-gallon	Gasoline-regular	Removed	August 1991
UST	8000-gallon	Gasoline-unleaded	Removed	August 1991
UST	8000-gallon	Gasoline-super unleaded	Removed	August 1991
UST	500-gallon	Waste Oil	Removed	June 1997
Hoists	2	Hydraulic Oil	Removed	June 1997
UST	12,000-gallon	Gasoline-unleaded	Removed	June 2002
UST	12,000-gallon	Gasoline-unleaded	Removed	June 2002
UST	12,000-gallon	Gasoline-unleaded	Removed	June 2002
Dispensers	4	Gasoline	Removed	June 2002
Piping	1,000 feet	Gasoline-unleaded	Removed	June 2002

B. Unauthorized Release Description & Reason Case Opened

LUST Cleanup Site Case No. T0600100540/RO0001083 – Exxon #7-0234

LUST Cleanup Site Case No. T0600100540/RO0001083 was initially opened in 1991 by ACDEH to evaluate potential impacts to human health and the environment from unauthorized releases of petroleum hydrocarbons and related fuel constituents from UST system components discovered during the removal of the three 8,000 gallon gasoline USTs and replacement with three 12,000 gallon gasoline USTs. Concentrations of up to 290 mg/kg TPHg, 2.8 mg/kg benzene, 7.2 mg/kg toluene, 5.2 mg/kg ethylbenzene, and 27 mg/kg of xylenes were detected in soil samples (S1 through S15) collected from the UST excavation pit.

Additional unauthorized releases of petroleum hydrocarbons were discovered during the removal of the 500 gallon waste oil UST and two hydraulic hoists in 1997. One soil sample was collected from the base of the waste oil excavation pit at 12 feet bgs and analyzed for TPH (g, d, mo), BTEX, SVOCs, halogenated VOCs, and metals. Concentrations of up to 8.6 mg/kg TPHg, 200 mg/kg TPHd, 680 mg/kg TPHmo, 0.038 mg/kg toluene, 0.016 mg/kg ethylbenzene and 0.046 mg/kg xylenes were detected. No halogenated or semivolatile organic componds were detected in the samples. Two samples (H-1 and H-2) collected at a depth of 8 feet bgs in the hydraulic hoist excavation area were analyzed for TPHho only and had reported concentrations of up to 2,100 mg/kg TPHho.

LUST Cleanup Site Case No. T06019757161/RO0002515 - Valero #3832

LUST Cleanup Site Case No. T06019757161/RO0002515 - Valero #3832 was opened in 2007 by ACDEH to evaluate potential impacts to human health and the environment from unauthorized releases from the three 12,000 gallon gasoline USTs and related fuel dispensing system components removed in 2002. Soil samples were collected from the UST excavation pit sidewalls (Pit1 through Pit4), product piping soil samples (A, B, C, and D), and grab water samples (Pit Water and UST Pit). MTBE concentrations of 12,000 micrograms per liter (µg/L) in grab water samples (Pit Water and UST Pit) collected from the UST excavation were several orders of magnitude above the MTBE concentration of 1.87 µg/L detected at the site at the time of closure of LUST Site Cleanup Case No. T0600100540/RO0001083 in 2000. This data indicated a new unauthorized release from the UST system had occurred at the site.

SECTON 3 – CASE SUMMARY (CONTINUED)

C. Site Investigations

LUST Cleanup Site Case No. T0600100540/RO0001083 – Exxon #7-0234
Site investigation activities were conducted between 1991 and 2000 to evaluate the extent of subsurface impacts to soil and groundwater from the releases identified in 1991, and 1997. The investigations included collection and analysis of soil samples collected from 10 soil bores (B1 through B10); and groundwater samples from three groundwater monitoring wells (MW-1 through MW-3). The extent of the unauthorized release of TPHho and other PCOCs related to hydraulic hoists was not delineated as part of the LUST case.
LUST Cleanup Site Case No. T06019757161/RO0002515 - Valero #3832
Site investigation activities were conducted between 2007 and 2017 to evaluate the extent of subsurface impacts to soil, soil gas and groundwater from the UST system release discovered in 2002. Site investigation activities included installation of three cone penetrometer test bores (H1-CPT through H3-CPT) and the collection and analysis of soil samples from 25 soil bores (B11 through B21, H1, H3, MW-4 through MW-9, V-1 through V-6); groundwater samples from six monitoring wells (MW-4 through MW-9), one groundwater extraction well (RW1), and 14 soil bores (B11 through B21, H1 through H3); and vapor samples from six soil vapor monitoring probes (V1 through V-6). Analytical data from soil, groundwater and soil vapor samples indicated that the subsurface beneath the site had been impacted by petroleum hydrocarbons, primarily TPHg, BTEX and MTBE/TBA.

D. Remediation

LUST Cleanup Site Case No. T0600100540/RO0001083 – Exxon #7-0234
Approximately 1,200 cubic yards of fill and native soil were excavated from the gasoline UST pit in 1991 and an unknown volume of impacted soil was excavated from the waste oil UST pit and the hydraulic hoist areas in 1997. Excavated soil was transported offsite to a permitted facility for disposal. No other remediation was conducted at the site.
LUST Cleanup Site Case No. T06019757161/RO0002515 - Valero #3832
In 2002, an additional 140 cubic yards of fill and native soil was excavated from the gasoline UST pit and 9,000 gallons of tank pit infiltration water was removed. Excavated soil and impacted groundwater were transported offsite to a permitted facility for disposal. A groundwater pump test was conducted in 2011 to assess the feasibility of groundwater pump and treat as a remediation strategy. Two tests were conducted over a 91 hour period test and approximately 1,043 gallons of water were pumped from extraction well RW1. No other remediation was conducted at the site.

E. Closure Evaluation

LUST Cleanup Site Case No. T0600100540/RO0001083 – Exxon #7-0234
The Exxon #7-0234 LUST case was closed in 2000. Refer to the electronic case files for Case Closure Summary Form.
LUST Cleanup Site Case No. T06019757161/RO0002515 - Valero #3832
The Valero #3832 LUST case was evaluated for closure consistent with the State Water Resource Control Board's Low-Threat Underground Storage Tank Closure Policy (LTCP) for petroleum related contaminants. ACDEH determined that the site met all the LTCP General Criteria and Media Specific Criteria and therefore poses a low risk to human health and safety and the environment. The determination was based on receptors and environmental conditions identified at and in the vicinity of the site at the time of closure and reasonably anticipated near-term future scenarios.

CASE CLOSURE SUMMARY FORM

SECTON 4 – RESIDUAL CONTAMINATION

A. Constituents Evaluated & Residual Contamination Remaining at Closure

Material Stored/Dispensed in UST System	Analytes	Sampled, Residual	Media						
			S	GW	SW	SV	SS	IA	OA
Engine Fuels ☒ Gasoline Fuel (1, 2, 9, 10, 11, 12, 13, 14) ☐ Diesel Fuel (2, 9, 10) ☐ Jet Fuel (1, 2, 4, 9, 10) ☐ Unknown Fuel (1, 2, 4, 9, 10, 11, 12, 13, 14) **Heating Oils** ☐ Kerosene (2, 5, 9, 10) ☐ Residential Heating Oils (2, 3, 9, 10) ☐ Commercial & Industrial Heating Oils (1, 2, 3, 7, 9, 10, 15, 16) **Other Oils** ☒ Waste (Used) Oil (1, 2, 3, 9, 10, 15, 16, 17, 18) ☒ Hydraulic Oil (8, 16, 17) ☐ Dielectric Oil (2, 3, 10, 16, 17) ☐ Unknown Oil (1, 2, 3, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18) **Solvents** ☐ Hydrocarbon Solvents (2, 3, 6, 9, 10) ☐ Chlorinated Solvents (15)	TPH-g[1]	Sampled	☒	☒	☐	☒	☐	☐	☐
		Residual	☒	☒	☐	☒	☐	☐	☐
	TPH-d[2]	Sampled	☒	☐	☐	☐	☐	☐	☐
		Residual	☒	☐	☐	☐	☐	☐	☐
	TPH-mo[3] (soil only)	Sampled	☒	☐	☐	☐	☐	☐	☐
		Residual	☒	☐	☐	☐	☐	☐	☐
	TPH-jf[4]	Sampled	☐	☐	☐	☐	☐	☐	☐
		Residual	☐	☐	☐	☐	☐	☐	☐
	TPH-k[5]	Sampled	☐	☐	☐	☐	☐	☐	☐
		Residual	☐	☐	☐	☐	☐	☐	☐
	TPH-ss[6]	Sampled	☐	☐	☐	☐	☐	☐	☐
		Residual	☐	☐	☐	☐	☐	☐	☐
	TPH-bo[7]	Sampled	☐	☐	☐	☐	☐	☐	☐
		Residual	☐	☐	☐	☐	☐	☐	☐
	TPH- ho[8]	Sampled	☒	☐	☐	☐	☐	☐	☐
		Residual	☒	☐	☐	☐	☐	☐	☐
	BTEX[9]	Sampled	☒	☒	☐	☒	☐	☐	☐
		Residual	☒	☒	☐	☒	☐	☐	☐
	Naphthalene[10]	Sampled	☒	☒	☐	☒	☐	☐	☐
		Residual	☒	☒	☐	☒	☐	☐	☐
	MTBE/TBA[11]	Sampled	☒	☒	☐	☒	☐	☐	☐
		Residual	☒	☒	☐	☐	☐	☐	☐
	EDB/EDC[12]	Sampled	☒	☒	☐	☒	☐	☐	☐
		Residual	☒	☒	☐	☐	☐	☐	☐
	Organic Lead[13] (TML, TEL)	Sampled	☐	☒	☐	☐	☐	☐	☐
		Residual	☐	☒	☐	☐	☐	☐	☐
	Fuel Oxygenates[14] (DIPE, TAME, EtOH, ETBE)	Sampled	☒	☒	☐	☒	☐	☐	☐
		Residual	☒	☒	☐	☐	☐	☐	☐
	VOCs[15] (full scan)	Sampled	☒	☐	☐	☐	☐	☐	☐
		Residual	☒	☐	☐	☐	☐	☐	☐
	SVOCs[16]	Sampled	☒	☐	☐	☐	☐	☐	☐
		Residual	☒	☐	☐	☐	☐	☐	☐
	PCBs[17]	Sampled	☐	☐	☐	☐	☐	☐	☐
		Residual	☐	☐	☐	☐	☐	☐	☐
	Metals[18] ☒ (Cd, Cr, Pb, Ni, Zn) ☐ (CAM 17)	Sampled	☒	☐	☐	☐	☐	☐	☐
		Residual	☒	☐	☐	☐	☐	☐	☐

S = Soil, GW = Groundwater, SW = Surface Water, SV = Soil Vapor, SS = Sub-Slab Vapor, IA = Indoor Air, OA = Outdoor Air

SECTON 5 – ENGINEERING AND INSTITUTIONAL CONTROLS

A. Land Use & Operations at Time of LUST Case Closure

Description
At the time of closure of LUST Case No. RO0002515 in June 2018 the site was surrounded by perimeter fencing and development consisted of an unoccupied service station building and canopy and pavement and landscape areas. The parcel acreage was 16,055 square feet and the existing building size was 1,265 square feet. Residential properties were located northwest of the site across 35th Avenue and adjacent to the site on the northeastern and southeastern sides. An active Chevron service station was located southwest of the site across Quigley Street. There were no known plans to redevelop the site.

B. Engineering and Institutional Controls

Engineering Controls
Not Applicable
Institutional Controls
Not Applicable

CASE CLOSURE SUMMARY FORM

SECTION 6 - COMPLETION OF CLOSURE ACTIVITIES

As a condition of case closure all monitoring and remediation wells and probes must be properly destroyed (unless the owner of the property on which the monitoring point is located certifies that the monitoring point will be maintained); all remediation systems must be decommissioned; all investigation and remediation derived waste must be properly disposed of; and all stakeholders notified of the proposed case closure.

A. Well Status (Groundwater)

No. of Wells Installed: 7 (MW-4 through MW-9, RW-1)	No. of Wells Lost: 0
No. of Wells Destroyed: 7	No. of Wells Retained: 0

B. Vapor Probe Status

No. of Soil Vapor Probes (VP) Installed: 6 (V1 through V6) No. of Sub-Slab Probes Installed: 0	No. of VPs Lost: 0
No. of VPs Destroyed: 6	No. of VPs Retained: 0

C. Remediation System Decommissioning

Type of System	Not Applicable
Remediation System Components Removed	Not Applicable

D. Investigation and Remediation Derived Waste Removal Status

All investigation and remediation derived waste associated with the gasoline UST release was removed from the site.

E. Public Comment

A 60 day public notification period was completed on April 1, 2018. No comments were received.

ATTACHMENT A-1

Geotracker LTCP Evaluation Checklist

VALERO #3832 (T06019757161) - MAP THIS SITE

3450 35TH AVE. - VIEW ALTERNATE ADDRESSES
OAKLAND , CA 94619
ALAMEDA COUNTY
LUST CLEANUP SITE (INFO)
STATUS: COMPLETED - CASE CLOSED

CLEANUP OVERSIGHT AGENCIES
ALAMEDA COUNTY LOP *(LEAD)* - *CASE #: RO0002515*
SAN FRANCISCO BAY RWQCB (REGION 2) - *CASE #: NA*

Activities Report | Documents / Data | Environmental Conditions | Admin | Funding | Case Reviews

THERE ARE 1 OTHER CASES ASSOCIATED WITH THIS CASE - SHOW

THIS PROJECT WAS LAST MODIFIED BY *KEITH NOWELL* ON 6/26/2018 2:51:44 PM - HISTORY

CLOSURE POLICY

THIS VERSION IS IN PROGRESS AS OF 6/26/2018 — CHECKLIST INITIATED ON 7/25/2013 — CLOSURE POLICY HISTORY

General Criteria - *The site satisfies the policy general criteria* - CLEAR SECTION ANSWERS — YES

a. Is the unauthorized release located within the service area of a public water system?
Name of Water System : EBMUD — YES / NO

b. The unauthorized release consists only of petroleum (info). — YES / NO

c. The unauthorized ("primary") release from the UST system has been stopped. — YES / NO

d. Free product has been removed to the maximum extent practicable (info). — FP Not Encountered / YES / NO

e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed (info). — YES / NO

f. Secondary source has been removed to the extent practicable (info). — YES / NO

g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15. — Not Required / YES / NO

h. Does a nuisance exist, as defined by Water Code section 13050. — YES / NO

1. Media-Specific Criteria: Groundwater - *The contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent, and meets all of the additional characteristics of one of the five classes of sites listed below.* - CLEAR SECTION ANSWERS — YES

EXEMPTION - Soil Only Case (Release has not Affected Groundwater - Info) — YES / NO

Does the site meet any of the Groundwater specific criteria scenarios? — YES / NO

1.5 - The regulatory agency determines, based on an analysis of site specific conditions, that the site under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame. — YES / NO

2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - *The site is considered low-threat for the vapor-intrusion-to-air pathway if site-specific conditions satisfy items 2a, 2b, or 2c* - CLEAR SECTION ANSWERS — YES

EXEMPTION - Active Commercial Petroleum Fueling Facility — YES / NO

Does the site meet any of the Petroleum Vapor Intrusion to Indoor Air specific criteria scenarios? — YES / NO

2a - Scenario 4 (example): Direct Measurement of Soil Gas Concentrations — YES

i. Soil Gas Sampling Locations – No Bioattenuation Zone: — YES
- Beneath or adjacent to an existing building: Soil gas sample is collected at least 5 feet below the bottom of the building foundation. — YES / NO
- Future construction: The soil gas sample shall be collected from at least 5 feet below the ground surface (bgs). — YES / NO

ii. Soil Gas Sampling Locations – with Bioattenuation Zone: The criteria in Column A in the Soil Gas Criteria table (page 5 of the Policy) apply if the following requirements for a bioattenuation zone are satisfied: — YES
- Minimum of 5 feet of soil between the soil vapor measurement and the foundation of an existing or ground surface of future construction. — YES / NO
- TPH (TPHg + TPHd) is <100 mg/kg (measured in at least two depths within the 5-ft zone) — YES / NO
- Oxygen is ≥ 4% measured at the bottom of the 5-ft zone. — YES / NO

3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - *The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below.* - CLEAR SECTION ANSWERS — YES

EXEMPTION - The upper 10 feet of soil is free of petroleum contamination — YES / NO

Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios? — YES / NO

3(a) - Maximum concentrations of petroleum constituents in soil are less than or equal to those listed in the following table (LINK) for the specified depth below ground surface. — YES / NO

Additional Information

This case should be kept OPEN in spite of meeting policy criteria. — YES / NO

Has this LTCP Checklist been updated for FY 17/18? — YES / NO

SPELL CHECK

Save Form as Partially Completed

ATTACHMENT A-2

Site Conceptual Model Summary

ATTACHMENT A-2

SITE CONCEPTUAL MODEL SUMMARY

A. Site Geology & Hydrogeology

The geologic and hydrogeologic characteristics of the site were evaluated using data from boring logs and CPT data from site investigations. Soil beneath the site generally consists of clayey sand and sandy clay with varying amounts of silt and gravel to the total depth investigated (approximately 100 feet bgs). A clayey sand layer appears continuous across the site and the adjacent downgradient site. Fill material and debris were encountered at various locations of the site to depths of up to 5 feet bgs.

Two different groundwater monitoring networks have been installed and monitored at the site. Monitoring wells MW-1 through MW-3 were screened from 25 to 45 feet bgs and were monitored from 1992 to 2000 until they were destroyed during closure of LUST Site Cleanup Case No. T0600100540/RO0001083. Six monitoring wells (MW-4 through MW-9) were installed in 2007 and monitored until 2017. Five of the wells (MW-5 through MW-9) were screened from approximately 30 to 40 feet bgs, and MW-6 was screened from 35 to 45 feet bgs.

Historical depth to water data collected between 1986 and 2017 indicate that the depth to water ranges from approximately 24 to 37 feet bgs. Historical data also indicate that the predominant direction of groundwater flow beneath the site is to the southwest.

B. Dissolved Phase Contaminant Plume

The dissolved phase contaminant plume extended offsite and appeared to be comingled with the dissolved phase contaminant plume present on the adjacent downgradient former LUST Cleanup Site Case No. RO0000058/T0600101465 (Unocal #6129) located at 3420 35th Ave. The commingled plume was not defined to water quality objectives by the combined groundwater monitoring well network of the two sites, however at the time of closure of the Valero #3832 and Unocal #6129 sites in 2018, no reported potential upgradient groundwater contamination influence had been observed in the groundwater monitoring well network associated with LUST Cleanup Site Case No. RO0000014/T0600100213 (BP #11132) located at 3201 35th Avenue, downgradient of the I-580 freeway and the Valero #3832 and Unocal #6129 sites.

A hydraulic study was conducted in association with the Unocal #6129 site to evaluate potential effects on groundwater from a dewatering system associated with a sunken section of Interstate Highway I-580 that separates the BP #11132 site from the Unocal and Valero sites. Historical groundwater monitoring data for these sites indicated that groundwater flow directions for the sites located northeast of I-580 (Unocal and Valero) were consistently to the southwest while the groundwater flow direction for BP site located to the southwest of I-580 varied seasonally in direction and magnitude.

A review of Caltrans as-built stormwater drainage system plans for I-580 indicated that stormwater runoff on the sunken section of I-580 is collected at a series of inlets located in the center median and shoulders of the highway and directed to a stormwater lift station that pumps stormwater up from the highway into the city stormwater drainage system. To support case closure of the Unocal #6129 site, the I-580 drainage system was incorporated into cross-sections and groundwater elevation maps and modeled as a gaining stream. Groundwater elevations were taken from historical data selected to represent summer (low-water) and winter (high-water) conditions. The cross-sections showed that during low-water periods, the northern end of the I-580 dewatering system is above the water table, while the southern end remains submerged. A flow net was calculated for the cross section under high-water conditions to model capture of the de-watering system below the water table. The flow net predicts strong groundwater capture effects for the Unocal and Valero sites and weak effects for the downgradient BP site.

Based on this analysis, groundwater flow in the region appears to be strongly influenced by the I-580 de-watering system. Historical groundwater elevations observed at the three sites are consistent with this interpretation. The strongest line of supporting evidence is the seasonal fluctuations of groundwater gradients. At all three LUST sites, periods of high water are marked by strong increases in gradient, and in the case of the downgradient BP site, a moderate shift in gradient in the direction of the freeway. This is most likely caused by increased capture from the de-watering system as pumping is increased at the lift station. The analysis predicts that the commingled Unocal and Valero plume will be captured by the I-580 de-watering system and will not reach downgradient properties.

ATTACHMENT A-2

SITE CONCEPTUAL MODEL SUMMARY (CONTINUED)

C. Non Aqueous Phase Liquid (NAPL)

No direct evidence of non-aqueous phase liquid (NAPL) has been observed in soil borings or groundwater monitoring wells.

D. Soil Impacts

Soil analytical data indicate the former gasoline USTs located in the southwestern portion of the site and dispenser island located in the eastern portion of the site were the primary sources of petroleum hydrocarbons and related fuel constituents detected in the subsurface including TPH as gasoline, BTEX and MTBE. The primary source of TPH as diesel and motor oil in soil was identified as the waste oil UST located near the southeastern site boundary, while the primary source of TPH as hydraulic oil was identified as the former hydraulic hoist area located within the building footprint. The extent of soil impacts from potential chemicals of concern associated with releases from the former waste oil UST and hydraulic hoists including TPH as hydraulic oil, polychlorinated biphenyls, polycyclic aromatic hydrocarbons and volatile organic compounds were not evaluated as part of the LUST cases associated with the site. Additionally, potential chemicals of concern associated with the fill/debris observed in multiple boring logs at the site has not been evaluated.

E. Preferential Pathways

A preferential pathway survey was conducted to evaluate the potential for contaminant migration via preferential utility lines, utility vaults, and trenches within the site vicinity. The conduit study identified several subsurface utilities at or near the site.

F. Sensitive Receptors

A sensitive receptor survey was conducted that included a search for domestic and municipal wells within 2,000 feet of the site and identification of the nearest surface water bodies and land usage near the site. The purpose of the sensitive receptor survey was to help determine if site contamination poses risks to human health and the environment. Residential properties were identified northwest of the site across 35th Avenue and adjacent to the site on the northeastern and southeastern sides. An active Chevron service station was located southwest of the site across Quigley Street. The closest surface water body identified was Peralta Creek located approximately 600 feet northwest and cross gradient from the site which flows southwest towards the San Francisco Bay. An irrigation well was identified on Arkansas Street, approximately 800 feet west-southwest, downgradient and cross-gradient of the site.

ATTACHMENT A-3

LTCP Media Specific Evaluation for Groundwater

ATTACHMENT A-3

LTCP Media Specific Evaluation - Groundwater
Closure Scenario
☐ Exemption - Site has not affected groundwater; ☐ Scenario 1 – Short stabilized contaminant plume; ☐ Scenario 2, ☐ Scenario 3 – Moderate stabilized contaminant plumes; ☐ Scenario 4 – Long stabilized contaminant plumes; ☒ Scenario 5 – Site specific conditions demonstrate that the contaminant plume poses a low threat to the human health and the environment
Evaluation Criteria
Key: Shading = site specific data; ☒ = type of data or criteria met; hatched box indicates no criteria

Element Evaluated	Site Specific Data	Short Plume Scenario 1	Moderate Plume Scenarios 2, 3		Long Plume Scenario 4
Plume Length (feet)	☐ <100 ☐ <250 ☒ <1,000 ☐ ≥1,000	☐ <100	☐ <250	☐ <250	☒ <1,000
Free Product	☒ No FP ☐ FP Onsite ☐ FP Offsite ☐ Removed to Max Extent	☒ No FP	☒ No FP	☐ Removed to max extent onsite; ☐ Does not extend offsite	☒ No FP
Plume Stability	☒ Extent Undefined ☐ Stable ☐ Decreasing ☐ ≥5 Years	☐ Stable or decreasing	☐ Stable or decreasing	☐ Stable or decreasing for ≥ 5 years	☐ Stable or decreasing
Distance to Nearest Water Supply Well from Plume Boundary (feet)	Downgradient: Upgradient: Crossgradient:	☒ >250	☐ >1,000	☐ >1,000	☐ >1,000
Distance to Nearest Surface Water Body from Plume Boundary (feet)	Downgradient: >1,000 Upgradient:>1,000 Crossgradient: 600	☒ >250	☐ >1,000	☐ >1,000	☐ >1,000
Maximum Benzene Concentrations @ Closure (µg/l)	450 to 1,200 (RW-1) (stable fluctuation)		☒ <3,000		☐ <1,000
Maximum MTBE Concentrations @ Closure (µg/l)	110 to 660 (MW-6) (stable fluctuation) 2,500 (MW-7) (increasing trend)		☐ <1,000		☐ <1,000
Land Use Restriction	☒ Not Required ☐ Recorded			☐ Recorded	

ATTACHMENT A-3

LTCP Media Specific Evaluation - Groundwater	
Element	**Analysis**
Plume Length	The groundwater plume extends off-site in the southwesterly direction and commingles with the groundwater plume from the downgradient Unocal #6129 site. The off-site extent of the plume is defined by monitoring wells (MW-1 through MW-3) installed on the downgradient adjacent LUST Site Cleanup No. RO0000058/T0600101465 - Unocal #6129. The groundwater plume has not been defined to water quality objectives, however, the hydraulic analysis of groundwater flow prepared for the Unocal site has determined the contaminant plume is intercepted by the Highway 580 dewatering system located approximately 500 feet downgradient of the site. Hence the contaminant plume poses a low threat to human health and the environment.
Free Product	Free product has not been observed at the site.
Plume Stability	Eight years of groundwater monitoring data (2009 to 2017) indicate the dissolved phase groundwater plume concentrations are decreasing and/or stable. Although the areal extent of the plume has not been defined, the hydraulic analysis of groundwater flow prepared for the Unocal site has determined the contaminant plume is intercepted by the submerged Highway 580. Based on contaminant concentrations in onsite monitoring wells, water quality objectives will be achieved within a reasonable time frame as evident in the decreasing contaminant concentration trends.
Benzene Concentrations	Benzene has been detected at low concentrations in groundwater in all site monitoring wells with the exception of onsite wells MW-5 and RW-1. The maximum historic benzene concentration was detected in well RW-1 located in the vicinity of the former USTs at a concentration of 1,200 µg/L in May 2013. Benzene concentrations in well RW-1 remained relatively stable over the period that it was monitored (2011 to 2017) fluctuating between 450 µg/L to 1,200 µg/L with the last measured concentration of 520 µg/L in November 2017.
MTBE Concentrations	MTBE has been detected at low concentrations in groundwater in all site monitoring wells with the exception of onsite wells MW-5, MW-6, MW-7 and RW-1. The maximum historic MTBE concentration was detected in well MW-6 located downgradient of the former USTs at a concentration of 6,600 µg/L in May 2009. MTBE concentrations in well MW-6 decreased significantly over the period that it was monitored (2009 to 2017) with the last measured concentration of 4.6 µg/L in November 2017 The degradation of MTBE is supported by an increase of TBA in MW-6 over the same time period. MTBE concentrations in well MW-7 have exhibited an increasing trend with detections of 66 µg/L in 2007 to 2,500 µg/L in 2,500 in April 2017. TBA and TPHg concentrations in MW-7 have also shown an increasing trend over the same time period. This trend is inconsistent with data in all other site wells that show a decreasing trend and indicates a potential separate upgradient TPHg and MTBE source.
Water Supply Wells	A search of the Department of Water Resources, Alameda County Public Works Agency and State Water Resources Control Board GeoTracker Groundwater Ambient Monitoring Assessment databases indicates that the closest permitted water supply well is an irrigation well located at 3397 Arkansas Street at a distance of approximately 675 feet west-southwest, downgradient and cross-gradient of the site. To confirm the status of this well, questionnaires with delivery confirmation were sent to the property owner on May 15, 2014, June 5, 2014, and August 6, 2014. As of the date of this case closure, the property owner had not responded to any of the requests. It is unknown whether or not the well is in use. However, the I-580 dewatering analysis did not indicate any significant draw-down associated with an irrigation well located on Arkansas Street and predicted any potential chemicals of concern originating from the commingled Unocal and Valero plume would be captured by the I-580 de-watering system and would not reach downgradient properties.
Surface Water Bodies	The closest surface water body is Peralta Creek located approximately 600 feet northwest and cross gradient from the site. Historic groundwater flow direction is to the southwest and the contaminant plume is relatively narrow as defined by the site groundwater monitoring wells and thus there is a low risk of impacting the creek.

ATTACHMENT A-4

LTCP Media Specific Evaluation for Vapor Intrusion

ATTACHMENT A-4

LTCP Media Specific Evaluation – Vapor Intrusion

Closure Scenario

☐ Exemption - Active fueling station exempt from vapor specific criteria;

☐ Scenario 1 – Unweathered free phase LNAPL on groundwater; ☐ Scenario 2 – Unweathered residual LNAPL in soil;

☐ Scenario 3a, ☐ Scenario 3b, ☐ Scenario 3c – Dissolved phase benzene concentrations in groundwater;

☒ Scenario 4a - Soil vapor concentrations without bioattenuation zone;

☒ Scenario 4b - Soil vapor concentrations with bioattenuation zone;

☐ Site specific risk assessment demonstrates human health is protected;

☐ Exposure controlled through use of mitigation measures or institutional or engineering controls

Evaluation Criteria.

Key: Shading = site specific data; ☒ = type of data or criteria met; hatched box indicates no criteria

Element Evaluated	Site Specific Data	High Concentration Source Scenarios 1, 2	Low Concentration Source Scenarios 3a, 3b, 3c			Soil Vapor Scenarios 4a, 4b	
		Unweathered NAPL	Dissolved Phase Benzene in Groundwater			Without Bio. Zone	With Bio. Zone
Groundwater ☒ WT ☐ SC ☐ C	Benzene Concentration: (µg/L): 450 to 1,200	☒ ≥1,000	☐ <100	☐ ≥100 & <1,000	☐ <1,000		
NAPL ☐ No NAPL ☒ NAPL in Soil ☐ NAPL on GW	☐ Direct Evidence ☒ Indirect Evidence ☒ W; ☐ UW	☐ UW in Soil or ☐ UW on GW	☒ No UW in Soil or GW				
Foundations ☐ None ☒ Existing ☐ Proposed	☒ Slab on Grade ☐ Crawl Space ☐ Subterranean Features						
Bioattenuation Zone	Highest Historic Water Level (ft bgs): ≥ 24.74	☐ ≥30	☒ ≥5	☒ ≥10	☒ ≥5	☐ <5 or ☒ ≥ 5	☒ ≥ 5
	TPH(g+d) Concentration (mg/kg):<5	☒ <100	☒ <100	☒ <100	☒ <100	☐ ≥100 or ☒ <100	☒ <100 (at 2 depths)
	Thickness (ft): ☐ <5; ☒ ≥5; ☐ ≥10; ☐ ≥30	☐ ≥30	☐ ≥5	☐ ≥10	☐ ≥5	☐ <5 or ☒ ≥ 5	☒ ≥ 5
	Oxygen Conc (%): ☐ <4; ☒ ≥4; ☐ No data		☐ No data ☐ <4, ☒ ≥4	☐ No data ☐ <4, ☒ ≥4	☒ ≥4	☐< 4 or ☒ ≥4	☒ ≥4 (at bottom)
Soil Vapor (Current Conditions) ☐ No Samples Collected	Sample Depth (ft bgs) ☐ Subslab = Not Applicable ☒ Soil Gas = 6.75					☐ <5 or ☒ ≥5	☒ ≥5
	Benzene Concentration (µg/m³):3.4					☒ R< 85 ☒ C<280	☒ C<85,000 ☒ C<280,000
	Ethylbenzene Concentration (µg/m³): <10					☒ R<1,100 ☒ C<3,600	☒ R<1,100,000 ☒ C<3,600,000
	Naphthalene Concentration (µg/m³): <120					☒ R<93 ☒ R<310	☒ R<93,000 ☒ C<310,000

GW = Groundwater WT = Water Table SC = Semi-Confined C = Confined W= Weathered UW = Unweathered

ATTACHMENT A-4

LTCP Media Specific Evaluation – Vapor Intrusion	
Location	**Analysis**
Onsite	The site was evaluated for vapor intrusion risk based on the current site configuration as a vacant building and parking lot. The site does not meet the LTCP criteria for high concentration source scenarios (1, 2) or the low concentration source scenarios (3a, 3b, 3c) due to the fluctuating benzene concentrations in groundwater well RW-1 with exceedances of 1,000 µg/L, However, the site meets the LTCP soil vapor scenarios (4a, 4b) with and without a bioattenuation zone. Soil vapor sampling was conducted from six onsite soil gas probe locations (V1 through V6) installed at depths of approximately 6 to 7 feet bgs. The vapor probes locations were selected based on the historical petroleum hydrocarbon concentrations in soil and groundwater beneath the site, the groundwater flow direction, and the location of structures. Probe V1 was installed in the former gasoline UST excavation, probe V2 was installed near the former dispenser islands in the vicinity of identified soil impacts, probe V3 was installed to evaluate shallow soil impacts near the former dispenser islands, probes V4 and V5 were installed outside the UST area toward the onsite building and the adjacent residential structure, and probe V6 was installed near the former waste oil tank. TPHg and BTEX were detected in soil gas samples collected from vapor probes V1 through V5 at concentrations less than the LTCP Vapor Intrusion to Indoor Air residential screening level criteria for sites with and without a bioattenuation zone. Repeated attempts to sample soil vapor from probe V6 were unsuccessful due to the presence of water in the probe thus soil vapor in this area has not been evaluated for potential contaminants of concern associated with the former waste oil tank.
Offsite	Offsite soil vapor intrusion risk was evalutated under the LTCP low groundwater concentration source scenarios. Soil vapor concentrations for benzene, ethylbenzene and naphthalene were not detected at concentrations exceeding the residential threshold concentrations presented in the LTCP. Based on the depth to water greater than 20 feet, the lack of TPH in the bioattenuation zone, and an oxygen concentration greater than 4%, it is unlikely that a significant vapor intrusion risk from petroleum hydrodrocarbon and related fuel constituents exists to the nearby residential and commercial properties. Vapor intrusion risk from potential chemicals of concern related to the unauthorized release from the waste oil UST was not evaluated as part of this LUFT case site.

ATTACHMENT A-5

LTCP Media Specific Evaluation for Direct Contact & Outdoor Air Exposure

ATTACHMENT A-5

LTCP Media Specific Evaluation – Direct Contact & Outdoor Air

Closure Scenario

☐ Exemption (no petroleum hydrocarbons in upper 10 feet);

☒ Maximum concentrations of petroleum hydrocarbons are less than or equal to those in Table 1 below;

☐ Maximum concentrations of petroleum constituents are less than levels that a site specific risk assessment demonstrates will have no significant risk of adversely affecting human health;

☐ Concentrations of petroleum in soil will have no significant risk of adversely affecting human health as a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls;

☐ This case should be closed in spite of not meeting the direct contact and outdoor air specific media criteria

Evaluation Criteria

Key: Shading = site specific data; ☒ = type of data or criteria met; hatched box indicates no criteria

Constituent (LTCP Criteria & Site Maximum)		Residential		Commercial/Industrial		All Scenarios
		Direct Contact	Volatilization to Outdoor Air	Direct Contact	Volatilization to Outdoor Air	Construction or Utility Worker
		0 to 5 ft bgs (mg/kg)	5 to 10 ft bgs (mg/kg)	0 to 5 ft bgs (mg/kg)	5 to 10 ft bgs (mg/kg)	0 to 10 ft bgs (mg/kg)
Analysis Required For All Tanks						
Benzene	Current Site Max	< 0.53	< 0.51	< 0.53	< 0.51	< 0.53
	LTCP Criteria	☒ ≤1.9	☒ ≤2.8	☒ ≤8.2	☒ ≤12	☒ ≤14
Ethylbenzene	Current Site Max	< 0.53	< 0.51	< 0.53	< 0.51	< 0.53
	LTCP Criteria	☒ ≤21	☒ ≤32	☒ ≤89	☒ ≤134	☒ ≤314
Naphthalene	Current Site Max	< 0.53	< 0.51	< 0.53	< 0.51	< 0.53
	LTCP Criteria	☒ ≤9.7	☒ ≤9.7	☒ ≤45	☒ ≤45	☒ ≤219
Analysis Required For Tanks with Waste Oil, Bunker C Fuel or Unknown Contents						
PAHs[1]	Current Site Max	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
	LTCP Criteria	☒ ≤0.063		☒ ≤0.68		☒ ≤4.5

NR = Not Required NA = Not Analyzed

Notes:

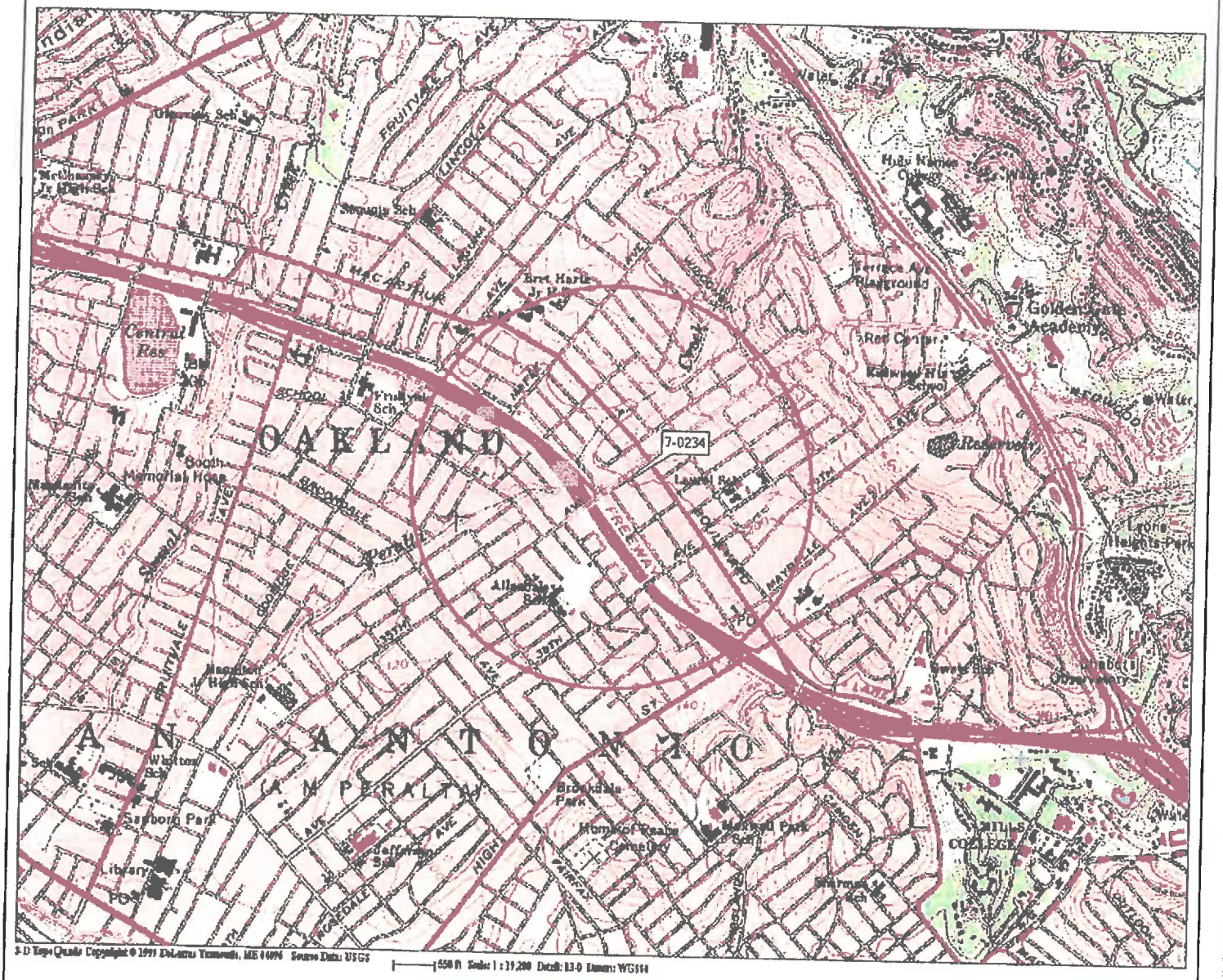
1. Based on the seven carcinogenic poly-aromatic hydrocarbons (PAHs) as benzo(a)pyrene toxicity equivalent (BaPe).
2. The area of impacted soil where a particular exposure occurs is ≤ 82 by 82 feet

ATTACHMENT A-5

LTCP Media Specific Evaluation – Direct Contact & Outdoor Air	
Location	**Analysis**
Onsite	The current maximum concentrations of hydrocarbons in soil within the 0 to 10 foot interval are less than the concentrations in Table 1 for residential, commercial and construction worker exposure. Sampling and analysis for PAHs is only required at a site with a waste oil or bunker C oil release and thus PAH analysis of soil at the site was only conducted in the vicinity of the former waste oil UST.
Offsite	The petroleum hydrocarbon soil contamination does not extend offsite.

ATTACHMENT B-1

Site Vicinity & Site Maps with Sampling Locations



2476TOPO

EXPLANATION

1/2-mile radius circle

N

APPROXIMATE SCALE

0 0.5 1 mile

SOURCE:
Modified from a map provided by DeLorme 3-D TopoQuads

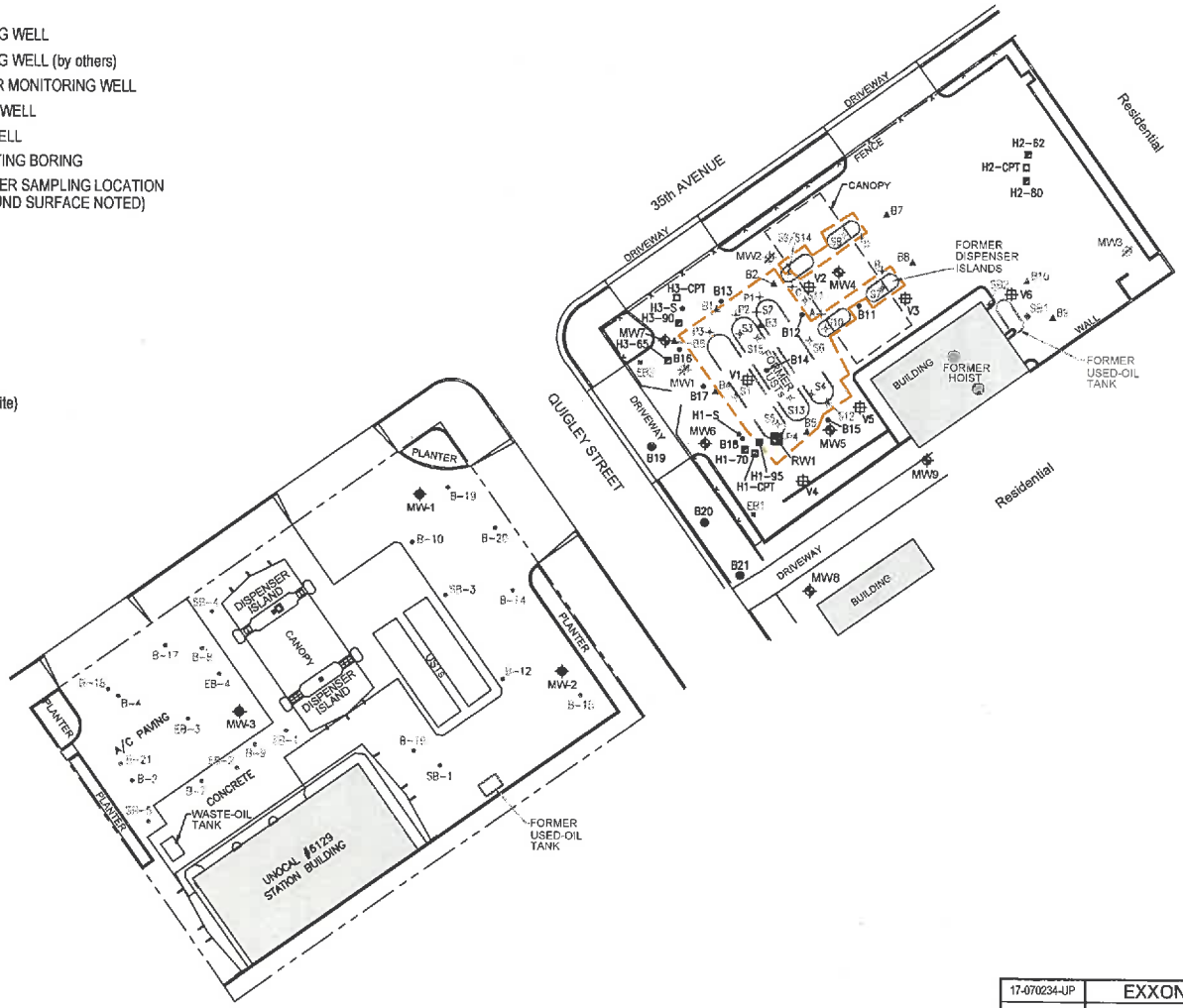
SITE VICINITY MAP

FORMER EXXON SERVICE STATION 70234
3450 35th Avenue
Oakland, California

PROJECT NO.
2476
PLATE
1

LEGEND:

- EXCAVATED AREA
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (by others)
- DESTROYED GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- V1 SOIL VAPOR MONITORING WELL
- H3–CPT CONE PENETROMETER TESTING BORING
- H3–65 HYDROPUNCH GROUNDWATER SAMPLING LOCATION (WITH DEPTH BELOW GROUND SURFACE NOTED)
- H3–S SOIL BORING
- SOIL BORING (GTI, 1986)
- SOIL BORING (HLA, 1988)
- SOIL BORING (Alton, 1991)
- SOIL SAMPLE (Alton, 1991)
- SOIL SAMPLE (TRC, 2002)
- SOIL BORING (ERI, 2007)
- SOIL BORING (ERI, 2009)
- SOIL BORING (Unocal #6129 Site)



0 20 40
APPROX. SCALE (feet)

17-070234-UP	EXXONMOBIL OIL CORPORATION	
	SITE MAP SHOWING BORING AND WELL LOCATIONS FORMER EXXON SERVICE STATION 70234 3450 35th AVENUE	FIGURE: 4
DR: TRW DR: AJW CK: FR:	OAKLAND, CALIFORNIA	

ETIC ENGINEERING CONSULT ENGINEER CONSTRUCT
250 W. COLORADO BLVD.
SUITE 110
ARCADIA, CA 91007
(626) 432-5999

ATTACHMENT B-2

Preferential Pathways & Sensitive Receptor Survey Data

0 150 300
APPROX. SCALE (feet)

ETIC
CONSULT ENGINEER CONSTRUCT

250 W. COLORADO BLVD.
SUITE 110
ARCADIA, CA 91007
(626) 432-5999

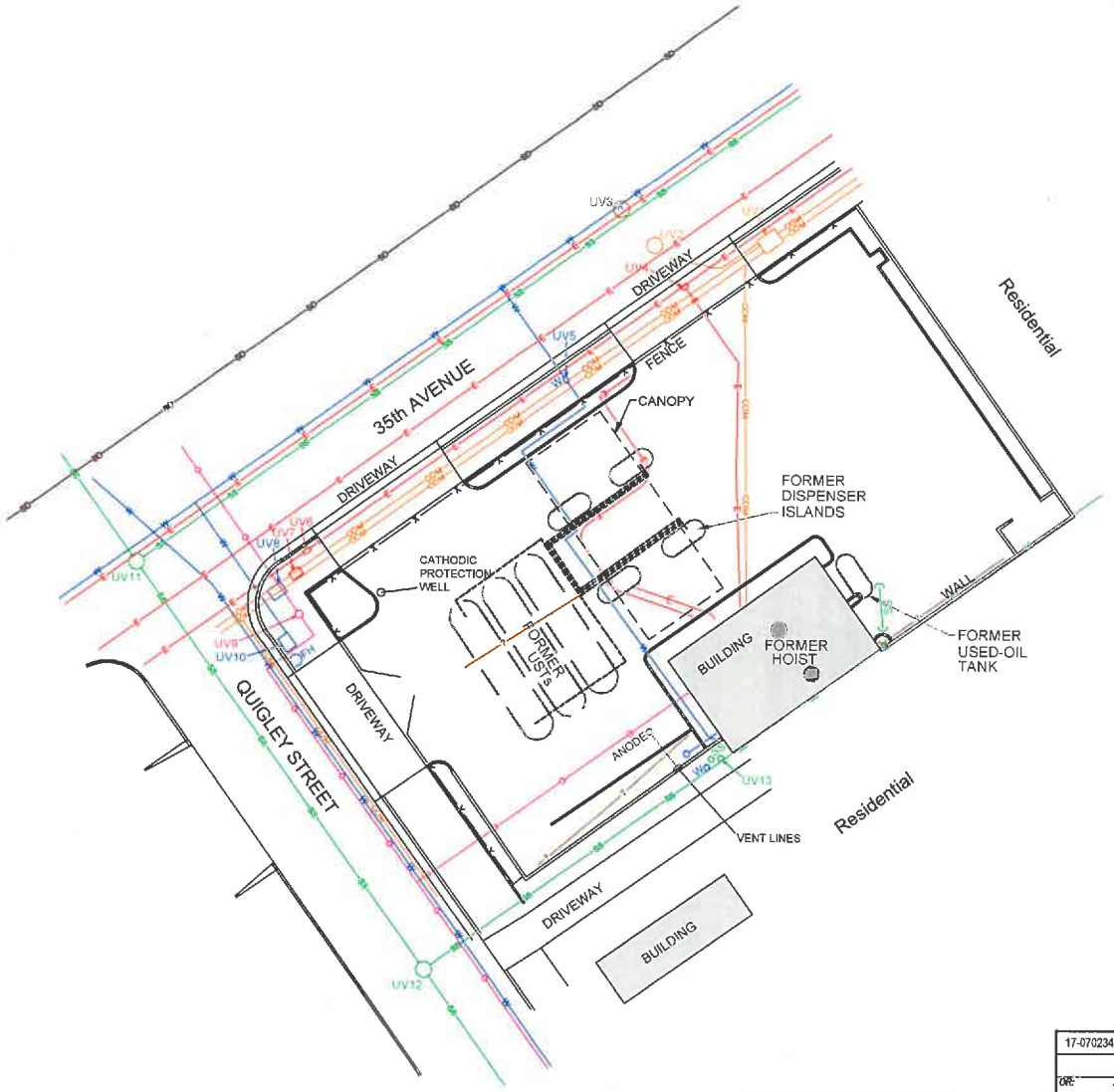
17-070234-UP	
DR:	TRW
DR:	AJW
CK:	
FR:	

EXXONMOBIL OIL CORPORATION

VICINITY MAP
FORMER EXXON SERVICE STATION 70234
3450 35th AVENUE
OAKLAND, CALIFORNIA

FIGURE:
2

12/13/2017 13:28, S:\Graphics\17\070234\CAP-2017.dwg, Tab: F2



LEGEND:

- ELECTRIC
- GAS
- TELEPHONE/TELECOM
- SANITARY SEWER
- STORM DRAIN
- WATER
- UNKNOWN
- DASHED WHERE INFERRED
- UV UTILITY VAULT
- FH FIRE HYDRANT

NOTE:
UTILITY LOCATIONS SHOWN ARE SKETCHED APPROXIMATIONS FROM RECORD SCHEMATICS AND DO NOT REPRESENT VERIFIED ALIGNMENTS. OTHER UTILITIES MAY EXIST IN THE AREA.

ETIC
CONSULT ENGINEER CONSTRUCT
250 W. COLORADO BLVD.
SUITE 110
ARCADIA, CA 91007
(626) 432-5999

17-070234-UP	EXXONMOBIL OIL CORPORATION
DR: TRW	SITE MAP SHOWING USTs, DISTRIBUTION PIPING, AND UTILITIES
DR: AJW	FORMER EXXON SERVICE STATION 70234
CR:	3450 35th AVENUE
FR:	OAKLAND, CALIFORNIA

FIGURE: 3

TABLE 6 UTILITY VAULTS
FORMER EXXON SERVICE STATION 70234, 3450 35th AVENUE, OAKLAND, CALIFORNIA

Map Identification (Figure 3)	Type	Onsite or Offsite	Location
UV1	Telecommunications vault	Offsite	Sidewalk adjacent to the site along 35th Avenue, upgradient
UV2	Telecommunications vault	Offsite	Northeastbound lane of 35th Avenue, upgradient
UV3	Unknown vault	Offsite	Northeastbound lane of 35th Avenue, upgradient
UV4	Electric utility vault	Offsite	Sidewalk adjacent to the site along 35th Avenue, upgradient
UV5	EBMUD utility vault	Offsite	Sidewalk adjacent to the site along 35th Avenue, cross-gradient
UV6	City of Oakland Electrical utility vault	Offsite	Sidewalk on eastern corner of 35th Avenue & Quigley Street, downgradient/cross-gradient
UV7	PG&E electrical utility vault	Offsite	Sidewalk on eastern corner of 35th Avenue & Quigley Street, downgradient/cross-gradient
UV8	Water utility vault	Offsite	Sidewalk on eastern corner of 35th Avenue & Quigley Street, downgradient/cross-gradient
UV9	PG&E gas utility vault	Offsite	Sidewalk on eastern corner of 35th Avenue & Quigley Street, downgradient/cross-gradient
UV10	EBMUD utility vault	Offsite	Sidewalk on eastern corner of 35th Avenue & Quigley Street, downgradient/cross-gradient
UV11	Sanitary sewer vault	Offsite	Northeastbound lane of 35th Avenue, downgradient/cross-gradient
UV12	Sanitary sewer vault	Offsite	Center of Quigley Street, downgradient/cross-gradient
UV13	Sanitary sewer clean-out	Onsite	Southern corner of the onsite building, cross-gradient

Note:
PG&E = Pacific Gas and Electric Company.
EBMUD = East Bay Municipal Utility District.

The list includes vaults identified in the immediate vicinity of the site.

TABLE 7 WELL SURVEY
FORMER EXXON SERVICE STATION 70234, 3450 35th AVENUE, OAKLAND, CALIFORNIA

Well Number (Figure 4)	TRS	Well Location	Approximate Bearing from the Site	Owner's Well ID	Well Use	Status	Depth of Surface Sanitary Seal	Sources
1	2S3W 4C	Redding St. near 35th Ave., Oakland	150 ft NE, upgradient	#2 - Job 893	Cathodic Protection	Unknown	120 ft.*	ACPWA, DWR
2	2S3W 4D3	3397 Arkansas St., Oakland	675 ft. WSW, downgradient	None	Irrigation	Unknown	20 ft.*	ACPWA, DWR
3	2S3W 4C	3450 35th Avenue, Oakland	onsite, downgradient/cross-gradient	None	Cathodic Protection	Unknown	unknown	visual identification

Note:
TRS = Township, Range, Section.
* = Original construction at installation.
NE = Northeast.
WSW = West-southwest.
ft. = Feet.

Source: Alameda County Public Works Agency (ACPWA), December 2014.
Department of Water Resources (DWR), November 2014.

ATTACHMENT B-3

Boring Logs

ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B11

(Page 1 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 09/10-11/2007, 11/14/2007
Drilling Co.:	: Woodward / Gregg
Drilling Method:	: Direct Push/Hollow-Stem
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: N/A
Location N-S	: 2115566.3
Location E-W	: 6069910.0
Total Depth:	: 38 fbgs
First GW Depth:	: 37 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 37'
- Second Encountered Water: NA

Boring: B11

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						7-inches of Concrete. Cleared to 8.0 fbgs using a hand auger.
					FILL	PEA GRAVEL
					ML	CLAYEY SILT WITH SAND: strong brown, dry, fine-grained sand.
5					CL	SANDY CLAY WITH SILT: dark yellowish brown, damp, fine to medium grained sand.
						CLAYEY SAND WITH GRAVEL: fine to coarse grained sand, dark yellowish brown, dry to damp, dense; fine grained, angular to subangular gravel.
10		0.0				@ 10 fbgs sand fragments - red, white, angular.
		0.0				
15		0.0			SC	@ 15 fbgs large black volcanic rocks.
						@ 16 fbgs color becomes light olive brown.
20		0.0				
		0.0				
25						

Concrete

Neat Cement

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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B11

(Page 2 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 09/10-11/2007, 11/14/2007
Drilling Co.:	: Woodward / Gregg
Drilling Method:	: Direct Push/Hollow-Stem
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: N/A
Location N-S	: 2115566.3
Location E-W	: 6069910.0
Total Depth:	: 38 fbgs
First GW Depth:	: 37 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 37'
- Second Encountered Water: NA

Boring: B11

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25		0.0			SC	CLAYEY SAND WITH GRAVEL: fine to coarse grained sand, dark yellowish brown, dry to damp, dense; fine grained, angular to subangular gravel.
					CL	SANDY CLAY: dark yellowish brown, damp; fine to coarse grained, red, gray, black and white sand.
30		0.0			SC	CLAYEY SAND WITH GRAVEL: fine to coarse grained sand, dark yellowish brown, damp; medium to coarse grained, angular to subangular gravel.
		0.0			GC	CLAYEY GRAVEL WITH SAND: dark yellowish brown, damp, angular to subangular, gravel pieces are gray, black, white; fine to coarse grained, angular to subangular sand.
35					CL	SILTY CLAY: yellowish brown, moist, trace fine grained sand, trace orange staining. @36 fbgs SANDY CLAY: fine to medium grained sand.
		0.0			GW	SANDY GRAVEL: fine to medium grained, dark yellowish brown, moist, wet along clast boundaries, angular to subangular; medium to coarse grained, angular to subangular sand.
40						Cleared with a hand auger to 8.0 fbgs on 09/05/2007.
						Drilled with direct-push rig to @ 25.0 fbgs on 09/10/2007 and 09/11/2007.
						Drilling with hollow-stem augers on 11/14/2007
						Groundwater sampled @ 38 fbgs on 11/14/2007.
45						
50						

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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B12

(Page 1 of 1)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 09/6/2007, 11/13/2007
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: N/A
Location N-S	: 2115563.4
Location E-W	: 6069891.0
Total Depth:	: 25 fbgs
First GW Depth:	: 15 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 15'
- Second Encountered Water: NA

Boring: B12

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0					FILL	PEA GRAVEL AND DEBRIS. Cleared to 8.0 fbgs using a hand auger.
5		0.0			ML	CLAYEY SILT: yellowish orange, damp, moderate plasticity, trace gravel. Cleared original location with a hand auger to 8.0 fbgs on 09/04/2007 Moved boring location due to proximity of buried utility.
10		0.0			FILL	SANDY GRAVEL: fiine grained gravel, dark grayish brown, moist; coarse-grained sand.
15		15			SC	CLAYEY SAND: fine to coarse grained, dark yellowish brown, damp to moist; trace gravel.
20		30				Cleared new boring location in tank pit excavation with a hand auger to 8.0 fbgs on 09/06/2007. Drilled with hollow-stem augers on 11/13/2007. Groundwater sampled @ 15 fbgs on 11/13/2007.
25						

Neat Cement

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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B13

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793/ Rebekah A. Westrup
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 09/10/2007, 11/12/2007
Drilling Co.:	: Woodward / Gregg
Drilling Method:	: Direct Push/Hollow-Stem
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: N/A
Location N-S	: 2115567.5
Location E-W	: 6069863.8
Total Depth:	: 40 fbgs
First GW Depth:	: 38 fbgs

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: First Encountered Water: 38'; Second Encountered Water: NA

Boring: B13

Depth (ft)	Blow Count	OVM/PID (ppmv)	USCS	DESCRIPTION
0				6-inches of Concrete. Cleared to 8.0 fbgs using a hand auger.
			FILL	GRAVELLY SAND WITH SILT (FILL): fine to coarse grained, grayish brown, dry; fine to coarse grained gravel, red brick fragments and concrete chunks present.
			ML	CLAYEY SILT WITH SAND: strong brown, dry; fine-grained sand.
			CL	SILTY CLAY WITH SAND: yellowish brown, damp, hard; fine to medium grained sand.
5		0.0		CLAYEY SAND WITH GRAVEL: fine to coarse grained sand, dark yellowish brown, damp, loose; fine grained gravel.
		0.0		@ 8 fbgs yellowish brown, very dense, well graded, matrix cemented.
10		0.0		@ 10 fbgs dark yellowish brown.
				@ 12 fbgs angular sandstone rocks.
15		0.0	SC	@ 13 fbgs yellowish brown: increasing clay content.
		0.0		@ 16.5 fbgs patchy orange staining; increasing sand content with decrease in gravel.
20		0.0		@ 17 fbgs increasing gravels. Content from gravels are red, white, black, and gray.
25				

Concrete

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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B13

(Page 2 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793/ Rebekah A. Westrup
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 09/10/2007, 11/12/2007
Drilling Co.:	: Woodward / Gregg
Drilling Method:	: Direct Push/Hollow-Stem
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: N/A
Location N-S	: 2115567.5
Location E-W	: 6069863.8
Total Depth:	: 40 fbgs
First GW Depth:	: 38 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 38'
- Second Encountered Water: NA

Boring: B13

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25		0.0			SC	CLAYEY SAND WITH GRAVEL: fine to coarse grained sand, dark yellowish brown, damp; well graded, subangular, medium plasticity; fine grained, angular to subangular gravel.
30		0.0				@ 30 fbgs increasing clay content and decreasing gravel content.
						@ 33 fbgs CLAYEY SAND, brown, moist.
35		0.0			CL	SILTY CLAY WITH SAND: brown, moist, high plasticity; fine to coarse grained, subangular sand.
					SC	CLAYEY SAND WITH GRAVEL: fine to coarse grained, yellowish brown, wet, well graded, angular; fine grained, angular gravel.
40						
45						
50						

Neat Cement

Cleared with a hand auger to 8.0 fbgs on 09/05/2007.

Drilled with direct-push rig to @ 20.0 fbgs on 09/11/2007.

Drilling with hollow-stem augers on 11/12/2007.

Set temporary casing to facilitate groundwater collection.

Groundwater sampled @ 40 fbgs on 11/12/2007.

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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B14

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 09/6/2007, 11/13/2007
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: N/A
Location N-S	: 2115544.6
Location E-W	: 6069879.2
Total Depth:	: 21.5 fbgs
First GW Depth:	: 9.7 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 9.7' as measured in augers\A
- Second Encountered Water: NA

Boring: B14

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						1 foot of 1/4 to 1/2-inch drain rock - gravel.
						GRAVELLY SAND: fine to coarse grained, very dark grayish brown, damp, well graded; fine grained gravel.
5					FILL	
10		0.0				SANDY GRAVEL: fiine grained, dark grayish brown, wet, subangular to subrounded; medium to coarse grained sand.
						Driller notes change in drilling conditions at 15 fbgs.
15		0.0			ML	SANDY SILT WITH CLAY: dark yellowish brown, damp; fine to medium sand; trace coarse grained sand; trace gravel.
					CL	SILTY CLAY WITH SAND: dark yellowish brown with faint mottling, damp; fine to coarse grained, multi-colored sand grains; fine grained, angular gravel.
20		0.0				
25						Cleared with a hand auger to 8.0 fbgs on 09/06/2007.
						Drilled with hollow-stem augers on 11/13/2007.
						Groundwater sampled @ 15 fbgs on 11/13/2007.

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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B15

(Page 1 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Paula Sime / Rebekah A. Westrup
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6798
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 11/15/2007
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: N/A
Location N-S	: 2115528.0
Location E-W	: 6069899.9
Total Depth:	: 38 fbgs
First GW Depth:	: 38 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 38'
- Second Encountered Water: NA

Boring: B15

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						18-inches of Concrete. Cleared to 8 fbgs using a hand auger.
						Debris
					FILL	
5		0.0				CLAYEY SILT WITH SAND, yellowish orange, damp, moderate plasticity; fine grained sand; trace subangular gravel less than 4-inches in diameter.
					ML	
						CLAY WITH SAND: brown, dry, low plasticity; fine to medium grained, subangular sand.
10		11			CL	
						CLAYEY SAND: fine to coarse grained, yellowish brown, dry, well graded, subangular.
15		17			SC	
						CLAY WITH SAND: dark yellowish brown, dry, medium plasticity; fine grained sand.
20		291			CL	
					SC	CLAYEY SAND: fine to coarse grained, brown, dry, well graded, subangular
25						

Concrete

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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B15

(Page 2 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Paula Sime / Rebekah A. Westrup
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 11/15/2007
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: N/A
Location N-S	: 2115528.0
Location E-W	: 6069899.9
Total Depth:	: 38 fbgs
First GW Depth:	: 38 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 38'
- Second Encountered Water: NA

Boring: B15

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25					SC	CLAYEY SAND: fine to coarse grained, brown, dry, well graded, subangular
30		115			CL	SILTY CLAY TRACE SAND: dark brown, damp, high plasticity; fine grained, subrounded sand.
						@ 33 fbgs CLAY: light brown; occassional coarse grained, rounded to subrounded sand.
35		37			GC	CLAYEY GRAVEL WITH SAND: fine grained, dark brown, moist to wet, high plasticity, subrounded; fine to coarse grained sand.
40						
45						
50						

Neat Cement

Cleared with a hand auger to 8.0 fbgs on 09/04/2007.

Drilled with hollow-stem augers on 11/15/2007.

Groundwater sampled @ 38 fbgs on 11/15/2007.

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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B16

(Page 1 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Paula Sime / Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 11/14/2007
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: N/A
Location N-S	: 2115551.3
Location E-W	: 6069849.9
Total Depth:	: 40 fbgs
First GW Depth:	: 37 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 37'
- Second Encountered Water: NA

Boring: B16

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						18-inches of Concrete. Cleared to 8 fbgs using a hand auger.
						Debris
					FILL	
5		0.0			CH	CLAY WITH SAND: yellowish orange, moist, high plasticity; fine grained sand; trace subangular gravel < 4-inches in diameter.
10		0.0			CL	SILTY CLAY WITH SAND: yellowish brown, damp, stiff; fine grained sand increasing in grain size with depth to medium and coarse grained.
15		0.0			SM	SILTY SAND WITH CLAY AND GRAVEL: fine to medium grained sand, brownish yellow with iron oxide staining, dry to damp; angular gravel.
20		0.0			SC	CLAYEY SAND: fine to coarse grained, dark yellowish brown, damp, angular to subangular multi-colored sand grains; trace fine grained gravel.
25						

Concrete

Neat Cement

12-10-2007 J:\2476\BORING LOGS\2476 B16.bor

ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B16

Project No.:	Former Exxon Service Station 70234
Site:	3450 35th Avenue, Oakland, California
Logged By:	Paula Sime / Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	Heidi Dieffenbach-Carle

Date Drilled:	11/14/2007
Drilling Co.:	Gregg Drilling Company
Drilling Method:	Hollow-Stem Auger
Sampling Method:	Direct Push
Borehole Diameter:	6"
Casing Diameter:	N/A
Location N-S	2115551.3
Location E-W	6069849.9
Total Depth:	40 fbgs
First GW Depth:	37 fbgs

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: First Encountered Water: 37'; Second Encountered Water: NA

Boring: B16

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25		0.0			SC	CLAYEY SAND: fine to coarse grained, dark yellowish brown, damp, angular to subangular multi-colored sand grains; increasing fine grained, angular to subangular gravel.
30		0.0			SC	@ 30 fbgs increase in coarse sand.
					CL	SILTY CLAY WITH SAND: yellowish brown, moist; fine grained sand.
					SM	SILTY SAND: fine to medium sand, dark yellowish brown, moist.
					CL	SILTY CLAY: yellowish brown, moist; trace fine grained sand.
35		0.0			SC	CLAYEY GRAVELLY SAND: medium to coarse grained, dark yellowish brown, moist, fine to coarse grained, angular to subangular gravel, volcanic fragments. @35.5 fbgs 2-inch lens of SILTY CLAY. @ 37 fbgs wet along rock faces.
40						
45						
50						

Neat Cement

Cleared with a hand auger to 8.0 fbgs on 09/04/2007.

Drilled with hollow-stem augers on 11/14/2007.

Groundwater sampled @ 40 fbgs through temporary casing on 11/15/2007.

Static groundwater level measured @ 32 fbgs on 11/15/2007.

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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B17

(Page 1 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 11/13/2007
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: N/A
Location N-S	: 2115538.9
Location E-W	: 6069858.0
Total Depth:	: 37 fbgs
First GW Depth:	: 35.1 fbgs

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: First Encountered Water: 35.1'; Second Encountered Water: NA

Boring: B17

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						6-inches of Concrete. Cleared to 8 fbgs using a hand auger.
					FILL	FILL
					ML	CLAYEY SILT: very dark gray, damp, color becomes light olive brown at 2.5 fbgs; trace fine grained sand.
5		0.0			CL	SILTY CLAY: light olive brown, damp, soft, high plasticity; trace fine to medium grained sand; organic material - rootlets, bark, woody material gray clay stringers found with woody material.
		0.0			CL	SANDY CLAY: light olive brown, damp; fine to medium grained sand.
10		147				@ 10 fbgs orange staining; sand is fine to coarse grained.
					SC	CLAYEY SAND: fine to medium grained sand, yellowish brown, orange staining, damp; multi-colored volcanic clasts; trace fine grained gravel.
15		2				
20		0.0			ML	CLAYEY SILT WITH SAND: strong brown, damp; fine to medium grained sand; volcanic fragments.
		0.0				@ 23 fbgs sand size increases to coarse grained; trace gravel.
25						

Concrete

Neat Cement

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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B17

(Page 2 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 11/13/2007
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: N/A
Location N-S	: 2115536.9
Location E-W	: 6069858.0
Total Depth:	: 37 fbgs
First GW Depth:	: 35.1 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 35.1'
- Second Encountered Water: NA

Boring: B17

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25					ML	CLAYEY SILT WITH SAND: strong brown, damp; coarse grained sand; volcanic fragments; trace gravel.
30		0.0			CL	SILTY CLAY WITH SAND: strong brown, damp; fine to coarse grained, subangular sand; rootlets; trace fine grained gravel.
					CL	SANDY CLAY: brownish yellow, orange mottling, moist; fine grained sand.
					SC	CLAYEY SAND: fine to medium grained, brownish yellow, moist
35		0.0			CL	SANDY CLAY:
					SC	CLAYEY SAND
					CL	SANDY CLAY
40						
45						
50						

Neat Cement

Cleared with a hand auger to 8.0 fbgs on 09/05/2007.

Drilled with hollow-stem augers on 11/13/2007.

Groundwater sampled @ 37 fbgs 11/13/2007.

12-10-2007 J:\2476\BORING LOGS\2476 B17.bor

ERI ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B18

(Page 1 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Paula Slme / Rebekah A. Westrup
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

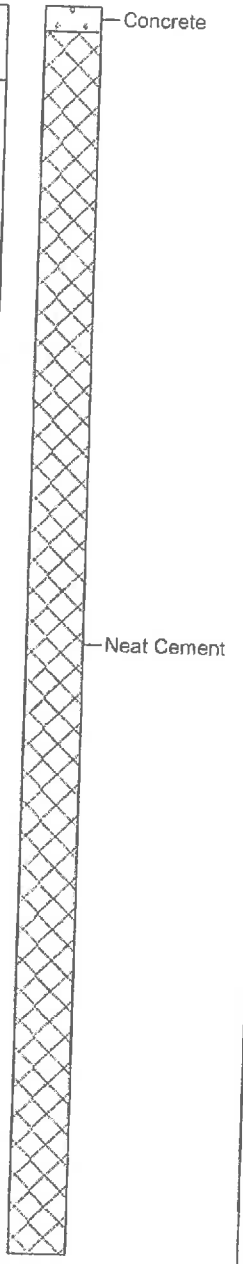
Date Drilled:	: 11/12/2007
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: N/A
Location N-S	: 2115521.4
Location E-W	: 6069871.2
Total Depth:	: 38 fbgs
First GW Depth:	: 34 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 34'
- Second Encountered Water: NA

Boring: B18

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						6-inches of Concrete. Cleared to 8 fbgs using a hand auger.
						DEBRIS
					FILL	
5		0.0			CH	CLAY WITH SAND: yellowish orange, moist, high plasticity; fine grained sand; trace subangular gravel < 4-inches in diameter.
10		0.0			CL	CLAY WITH SAND: yellowish brown, damp, high plasticity; fine to coarse grained, subrounded sand; occassional fine grained, subrounded gravel.
15		0.0			SC	CLAYEY SAND: fine to coarse grained sand, yellowish brown, dry, low plasticity, well graded, subangular.
20		0.0				
25					SC	CLAYEY SAND WITH GRAVEL: medium to coarse grained, yellowish brown, dry, well graded, rounded; fine grained subangular gravel.



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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B18

(Page 2 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Paula Sime / Rebekah A. Westrup
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 11/12/2007
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: N/A
Location N-S	: 2115521.4
Location E-W	: 6069871.2
Total Depth:	: 38 fbgs
First GW Depth:	: 34 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 34'
- Second Encountered Water: NA

Boring: B18

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25		0.0			SC	CLAYEY SAND WITH GRAVEL: medium to coarse grained, yellowish brown, dry, well graded, rounded; fine grained subangular gravel.
30		78			SC	CLAYEY SAND: medium to coarse grained, dark yellowish brown, damp, well graded, rounded, increasing clay content; occassional fine grained, subangular gravel.
					CL	SILTY CLAY: brown, moist, high plasticity.
35		0.0			SW	SAND: fine to coarse grained, brown, wet, well graded, angular to subangular.
					GC	CLAYEY GRAVEL: fine grained, grayish brown, moist, angular.
					SC	CLAYEY SAND: fine to coarse grained, brown, damp to moist, well graded, subangular.
40						
45						
50						

Neat Cement

Cleared with a hand auger to 8.0 fbgs on 09/04/2007.

Drilled with hollow-stem augers on 11/12/2007.

Groundwater sampled @ 38 fbgs 11/12/2007.

12-10-2007 J:\2476\BORING LOGS\2476 B18.bor

BORING LOG B19

(Page 1 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach Carle

Date Drilled:	: 03/02/09, 03/03/09
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: NA
Location N-S	: 2115518.5
Location E-W	: 6069840.7
Total Depth:	: 40 fbgs
First GW Depth:	: 33 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 33'
- Second Encountered Water: NA

Boring: B19

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0				FILL		Concrete: 5 inches in thickness
						1/4-inch to 1/2-inch angular gravel
		0			CL	Sandy CLAY: yellowish brown (10YR 5/8) with pervasive orange staining, damp, medium plasticity, fine- to medium-grained sand, trace coarse-grained sand (50% Clay, 25% Silt, 25% Sand, 0% Gravel)
		0				
5					CL	Silty CLAY: light olive brown (2.5Y 5/4), damp, trace coarse-grained sand, trace subangular gravel, trace rootlets, trace clay stingers with bark material (80,15,3,2)
						@ 7.5 feet bgs: 3-inch diameter cobbles of volcanic rocks and 2-inch diameter green chert
10					CL	Sandy CLAY: dark yellowish brown (10YR 4/6), damp, medium plasticity, fine- to coarse-grained subangular sand (50,20,30,0)
					CH	Silty CLAY: light yellowish brown (2.5Y 6/3), high plasticity, patches of dark yellowish brown, trace fine- to medium-grained sand (65,20,15,0)
15		2.6				
						Sandy CLAY: dark yellowish brown (10YR 4/6), damp, fine- to coarse-grained sand with multi-colored grains, black iron oxides
20		4.7			CL	
		6.6			SC	Clayey SAND with Gravel: medium- to coarse-grained, dark yellowish brown (10YR 4/6), damp, fine-grained gravel, sand and gravel have multi-colored grains (30,15,40,15)
25						

Neat Cement

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BORING LOG B19

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Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 03/02/09, 03/03/09
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: NA
Location N-S	: 2115518.5
Location E-W	: 6069840.7
Total Depth:	: 40 fbgs
First GW Depth:	: 33 fbgs

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: First Encountered Water: 33'; Second Encountered Water: NA

Boring: B19

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25		9.1			CL	Sandy CLAY: dark brown (7.5YR 3/4), damp, fine- to coarse-grained sand, trace angular gravel
					SC	Clayey SAND: medium- to coarse-grained, dark yellowish brown, damp, trace gravel
					CL	Sandy CLAY: dark brown (7.5YR 3/4), damp, fine- to coarse-grained sand, trace angular gravel
					CL	Silty CLAY: dark yellowish brown (10YR 4/6), damp, trace fine-grained sand, rootlets
		10.2			CL	Sandy CLAY: dark yellowish brown, fine- to coarse-grained sand with multi-colored grains, trace fine-grained, angular gravel (50,20,25,5)
30		79			CL	Silty CLAY: dark yellowish brown
					SC	Clayey SAND: fine- to medium-grained, dark yellowish brown (10YR 4/6), wet, poorly graded
		47			SC	Clayey SAND with Gravel: dark yellowish brown (10YR 4/6) (30,10,45,15)
35		21			CH	CLAY with Sand: dark yellowish brown (10YR4/6), moist, high plasticity, fine- to medium-grained sand, trace coarse-grained, angular sand, trace angular gravel (60,20,15,5)
		13.2			CL	Sandy CLAY: dark yellowish brown (10YR 4/6), damp, medium- to coarse-grained sand, trace fine-grained gravel (50,20,25,5)
40						
45						
50						

Neat Cement

Cleared to 8 feet bgs by 8-inches on 2/26/2009.

Cleared to 5 feet bgs with hand auger for collection of soil sample. Boring widened to 8-inches and deepened to 8 feet bgs using air/water knife and vacuum truck

Total Depth = 40.0 feet bgs, 15:00, 03/03/2009.

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BORING LOG B20

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Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach Carle

Date Drilled:	: 03/03/09
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: NA
Location N-S	: 2115493.1
Location E-W	: 6069858.6
Total Depth:	: 40 fbgs
First GW Depth:	: 34 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 34'
- Second Encountered Water: NA

Boring: B20

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Concrete: 6 inches in thickness
		0.0				Sandy CLAY: dark yellowish brown (10YR 4/4), moist (perched water from recent rain entering borehole), fine- to coarse-grained sand, trace rootlets (50% Clay, 20% Silt, 30% Sand, 0% Gravel)
		0.0			CL	@ 3.0 feet bgs: becoming damp
5		0.0			SM	Silty SAND with Clay: medium- to coarse-grained, dark yellowish brown (10YR 4/6), damp, subangular to angular, trace gravel (20,25,50,5)
						Clay with SAND: dark yellowish brown (10YR 4/6), damp, fine- to coarse-grained, subangular sand, trace gravel, black clay flecks
10		0.0			CL	
15		0.0				@15 feet bgs: 1.7-inch gravel rock fragment
						Sandy CLAY: dark yellowish brown (10YR 4/4), damp, medium plasticity, fine- to coarse-grained sand with multi-colored grains, trace gravel (50,22,25,3)
					CL	
20		0.0				
		0.0			SC	Clayey SAND with Gravel: fine- to coarse-grained, dark yellowish brown (10YR 4/4), damp, fine-grained multi-colored gravel
25						

Neat Cement

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BORING LOG B20

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Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi L. Dieffenbach-Carle

Date Drilled:	: 03/03/09
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: NA
Location N-S	: 2115493.1
Location E-W	: 6069858.6
Total Depth:	: 40 fbgs
First GW Depth:	: 34 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 34'
- Second Encountered Water: NA

Boring: B20

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25		0.0			CL	Clay with SAND: dark yellowish brown (10YR 4/4), damp, fine- to coarse-grained sand, trace angular gravel (45,15,30,10)
					SC	Clayey SAND: medium- to coarse-grained, dark yellowish brown (10YR 4/6), trace angular to subangular gravel (30,15,45,5)
		0.0			CH	Sandy CLAY: dark yellowish brown (10YR 4/6), damp, high plasticity, fine- to medium-grained, angular to subangular sand, trace gravel
30		1.4			SC	Clayey SAND with Gravel: fine- to coarse-grained, olive brown (2.5Y 4/3), damp, poorly graded, fine-grained multi-colored gravel (30,15,40,15)
		2.5			SW	Gravelly SAND with Clay: medium- to coarse-grained, dark yellowish brown (10YR 4/6), moist, poorly graded, fine-grained gravel, trace coarse-grained gravel (20,15,40,25) @34 feet bgs: wet
35		1.0			CL	CLAY with Sand: dark yellowish brown (10 YR 4/6), moist, medium plasticity, fine- to coarse-grained multi-colored sand grains
40		3.4				
45						
50						

Neat Cement

Cleared to 8 feet bgs by 8-inches on 2/26/2009.

Cleared to 5 feet bgs with hand auger for collection of soil sample. Boring widened to 8-inches and deepened to 8 feet bgs using air/water knife and vacuum truck

Total Depth = 40 feet bgs, 11:00, 03/03/2009.

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BORING LOG B21

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Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 03/04/09
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: NA
Location N-S	: 2115475.5
Location E-W	: 6069870.6
Total Depth:	: 40 fbgs
First GW Depth:	: 32.5 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 32.5'
- Second Encountered Water: NA

Boring: B21

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Concrete: 6 inches in thickness
		0.0			CH	Silty CLAY: dark yellowish brown (10YR 4/6), damp, high plasticity, trace fine- to coarse-grained sand, trace rootlets (70,15,10,0)
5		0.0			CL	Sandy CLAY: light olive brown (2.5Y 5/6), damp, low plasticity, fine- to medium-grained sand, trace coarse-grained sand (50,20,30,0)
						Driller reports gravel @ 8 feet bgs
10		0.0			CL	Silty CLAY with Sand: yellowish brown (10YR 5/6), damp, fine- to coarse-grained sand, black iron oxide, trace fine-grained gravel (60,18,20,2)
15		0.0			SC	Clayey SAND: medium- to coarse-grained, yellowish brown (10YR 5/6), damp, trace fine- to coarse-grained, subangular to angular gravel (30,10,50,10)
		0.0				Sandy CLAY: dark yellowish brown (10YR 4/6), damp, medium- to coarse-grained, well graded sand, trace fine-grained, angular to subangular gravel, multi-colored sand and gravel (40,20,30,10)
20		1.6			CL	
		0.1				
25						@ 25 feet bgs: gravel fragments

Neat Cement

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BORING LOG B21

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Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 03/04/09
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 6"
Casing Diameter:	: NA
Location N-S	: 2115475.5
Location E-W	: 6069870.6
Total Depth:	: 40 fbgs
First GW Depth:	: 32.5 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 32.5'
- Second Encountered Water: NA

Boring: B21

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25		2.2			CL	Sandy CLAY (continued): dark yellowish brown (10YR 4/6), damp, medium- to coarse-grained, well graded sand, trace fine-grained, angular to subangular gravel, multi-colored sand and gravel (40,20,30,10)
		0.2				
30		0.2			SC	Clayey SAND: medium- to coarse-grained, dark yellowish brown (10YR 4/6), damp to moist, subangular, trace gravel
		1.7				
		2.6				@32.5 feet bgs: wet
35		0.0			CL	CLAY with Sand: yellowish brown (10YR 4/6), damp, fine- to coarse-grained, angular to subangular sand
		0.0				
40						

Neat Cement

Cleared to 8 feet bgs by 8-inches on 2/26/2009.

Cleared to 5 feet bgs with hand auger for collection of soil sample. Boring widened to 8-inches and deepened to 8 feet bgs using air/water knife and vacuum truck

Total Depth = 40 feet bgs, 10:15 03/04/2009.

45

50

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BORING LOG MW4

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Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

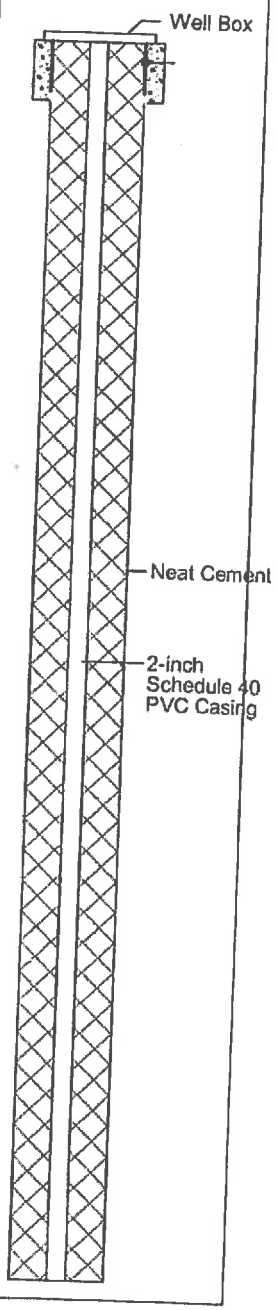
Date Drilled:	: 03/02/2009
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 8"
Casing Diameter:	: 2"
Location N-S	: 2115577.4
Location E-W	: 6069903.2
Total Depth:	: 45 fbgs
First GW Depth:	: 37 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 37'
- Second Encountered Water: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Concrete: 6 inches in thickness.
					SW	SAND: Fill
					FILL	Gravelly SAND with Silt (Fill) fine- to coarse-grained, chucks of asphalt, consolidated, rootlets
5		0.0			SM	Silty SAND with Clay: fine- to medium-grained, yellowish brown (10YR 5/8), dry, black iron oxide nodules, trace coarse-grained sand (15% Clay, 30% Silt, 55% Sand, 0% Gravel)
						Sandy CLAY: yellowish brown (10YR 5/4), damp; fine- to coarse-grained sand, trace gravel, black, white, green, red colored sand grains (40,20,38,2)
10		0.0				
15		0.0			CL	
20		0.7				
					SC	Clayey SAND with Gravel: fine- to coarse-grained, dark yellowish brown (10YR 4/6) damp, fine, angular to subangular gravel, various sand grain colors - black, white, green red (30,15,40,15)
25						

Well: MW4



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BORING LOG MW4

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Project No.:	Former Exxon Service Station 70234
Site:	3450 35th Avenue, Oakland, California
Logged By:	Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	Heidi L. Dieffenbach-Carle

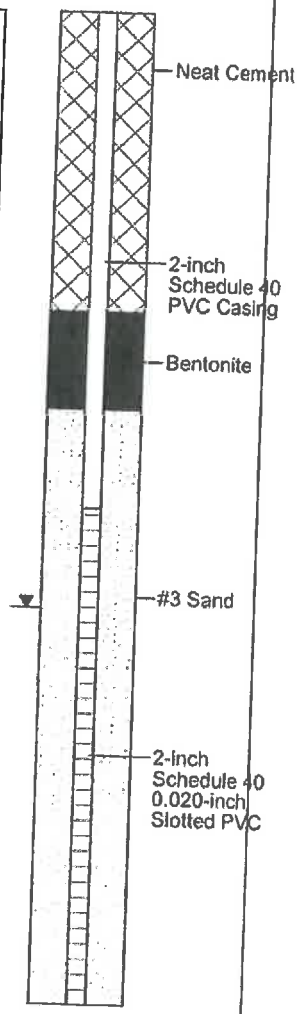
Date Drilled:	03/02/2009
Drilling Co.:	Gregg Drilling Company
Drilling Method:	Hollow-Stem Auger
Sampling Method:	Direct Push
Borehole Diameter:	8"
Casing Diameter:	2"
Location N-S	2115577.4
Location E-W	6069903.2
Total Depth:	45 fbgs
First GW Depth:	37 fbgs

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: First Encountered Water: 37'; Second Encountered Water: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25		0.0			SC	Clayey SAND with Gravel (continued): fine- to coarse-grained, dark yellowish brown (10YR 4/6) damp, fine, angular to subangular gravel, various sand grain colors - black, white, green red (30,15,40,15)
30		0.0			GC	Clayey GRAVEL with Sand: fine- to coarse-grained, yellowish brown (10YR 4/4), damp, subangular to angular, coarse-grained sand (30,15,25,30)
35		0.0			SW	Gravelly SAND: medium- to coarse-grained, dark yellowish brown (10YR 4/4), moist, subangular, gravel angular to subangular (20,15,40,25) Wet from 37 feet bgs.
40		0.0			CL	Sandy CLAY: dark yellowish brown (10YR 4/6), damp, low plasticity, fine- to medium-grained sand, trace coarse-grained sand
45		0.0				Cleared with a hand auger, air knife, water-knife and vacuum to 6.3 feet bgs on 02/25/2009. Total Depth = 45 feet bgs, 13:00, 03/02/2009.
50						

Well: MW4



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BORING LOG MW5

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Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793 / Paula Sime
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 03/05/09, 03/06/09
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 8"
Casing Diameter:	: 2"
Location N-S	: 2115524.5
Location E-W	: 6069900.5
Total Depth:	: 42 fbgs
First GW Depth:	: 37 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 37'
- Second Encountered Water: NA

Well: MW5

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Concrete: 5 inches in thickness.
		0.0			FILL	Sandy CLAY (Fill): very dark grayish brown (10YR 3/2), damp, fine- to medium-grained sand, trace rootlets, chunks of asphalt (up to 10-inches in diameter), red brick fragments
5		0.0			CL	Sandy CLAY: dark yellowish brown (10YR 4/4), damp, medium plasticity, fine- to medium-grained sand, trace coarse-grained sand, rootlets(Clay 45%, Silt 25%, Sand 30%, Gravel 0%)
10		47.1			CL	Sandy Clay with Gravel: dark yellowish brown, damp, medium plasticity, fine to medium well graded sand, gravel up to 1/2-inch diameter, subangular (55,0,30,15)
15		8.7			CL	CLAY with Sand: medium yellowish brown, damp, medium plasticity, very fine- to fine-grained, poorly graded sand, very stiff (65,10,20,5)
20		1780			CL	Sandy CLAY: medium yellowish brown, damp, medium plasticity, fine-grained, poorly graded sand, very stiff (65,5,30,0)
25						

Well Box

Neat Cement

2-inch Schedule 40 PVC Casing

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BORING LOG MW5

(Page 2 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793 / Paula Sime
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	:

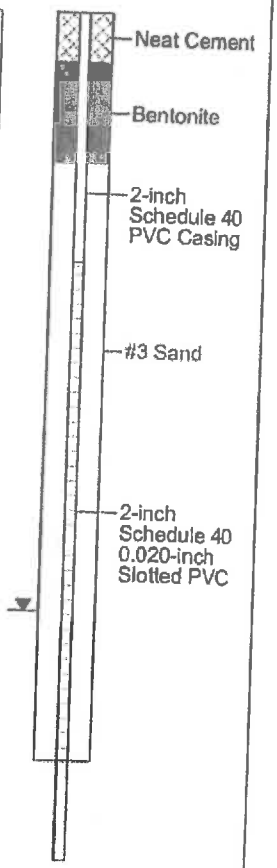
Date Drilled:	: 03/05/09, 03/06/09
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 8"
Casing Diameter:	: 2"
Location N-S	: 2115524.5
Location E-W	: 6069900.5
Total Depth:	: 42 fbgs
First GW Depth:	: 37 fbgs

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: First Encountered Water: 37'; Second Encountered Water: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25		2000			SW	Gravelly SAND: fine-to coarse-grained, medium yellowish brown, dry to damp, subangular, well graded, trace dense clay (5,0,65,30)
					CL	Sandy CLAY: yellowish brown, damp, low plasticity, very fine-grained, poorly graded sand, trace coarse-grained sand, very stiff (65,0,35,0)
30		336				@30 feet bgs: heavily mottled with light bluish green, moist
					SW	Gravelly SAND: fine-to coarse-grained, medium yellowish brown, dry to damp, angular to subangular, well graded, trace dense clay
35		286			CL	CLAY with Sand: yellowish brown with greenish gray mottling, moist, medium plasticity, very fine-grained, very poorly graded sand, trace coarse-grained sand, soft (85,0,15,0)
					SW	SAND: fine- to coarse-grained, dark yellowish brown, damp, well graded, subangular gravel, trace clay (5,0,80,15) @37 feet bgs: wet
40		3			CL	Sandy CLAY with Gravel: yellowish brown, moist (wet along clast boundaries), low plasticity, fine- to coarse-grained, well graded sand, subangular gravel (55,0,30,15)
						Cleared to 5 feet bgs with hand auger for collection of soil sample. Boring widened to 10-inches using airknife and vacuum truck on 2/27/2009.
45						Total Depth = 42 feet bgs, 11:50 03/06/2009.
50						

Well: MW5



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BORING LOG MW6

(Page 1 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

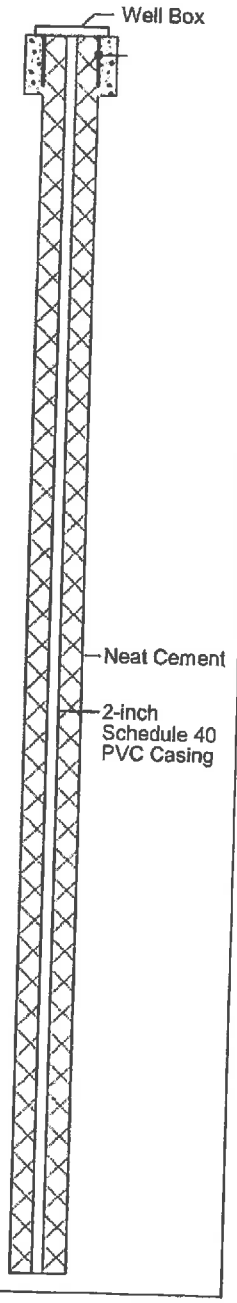
Date Drilled:	: 03/09/2009
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 8"
Casing Diameter:	: 2"
Location N-S	: 2115519.6
Location E-W	: 6069858.6
Total Depth:	: 40 fbgs
First GW Depth:	: 33 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 33'
- Second Encountered Water: NA

Well: MW6

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Concrete: 6 inches in thickness.
		0.0			CL	Sandy CLAY: light olive brown (2.5Y 5/4) with pervasive yellowish brown staining, damp, medium plasticity, fine- to medium-grained sand, tree rootlets (45% Clay, 25% Silt, 30% Sand, 0% Gravel) @4 feet bgs: becoming dark yellowish brown (10YR 4/6), increase in medium-grained sand
5		0.0			CL	Sandy CLAY: dark yellowish brown (10YR 4/6), damp, medium- to coarse-grained sand, trace gravel (40,25,30,5)
					CL	CLAY with Sand: dark yellowish brown (10YR 4/4), damp, fine-grained sand (60,25,15,0)
10					CL	
					CL	CLAY with Sand: light olive brown (2.5Y 5/3), mottled dark yellowish brown, damp, fine- to medium-grained sand
15					CL	Sandy CLAY: dark yellowish brown (10YR 4/4), damp, medium- to coarse-grained, well graded and angular sand with multi-colored grains, trace gravel (45,22,30,3)
					CL	
20					CL	Sandy CLAY: dark yellowish brown (10YR 3/6), damp, fine- to coarse-grained, well graded and subrounded to angular sand, trace gravel, black iron oxides (45,15,35,5)
25						



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BORING LOG MW6

(Page 2 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

Date Drilled:	: 03/09/2009
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 8"
Casing Diameter:	: 2"
Location N-S	: 2115519.6
Location E-W	: 6069858.6
Total Depth:	: 40 fbgs
First GW Depth:	: 33 fbgs

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: First Encountered Water: 33'; Second Encountered Water: NA

Well: MW6

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25					CL	Sandy CLAY (continued): dark yellowish brown (10YR 3/6), damp, fine- to coarse-grained, well graded and subrounded to angular sand, trace gravel, black iron oxides (45,15,35,5)
					GC	Clayey GRAVEL: fine-grained gravel, yellowish brown (10YR 5/4), damp, subangular to angular, trace medium- to coarse-grained sand (30,15,20,35)
					CL	CLAY with Sand: dark yellowish brown (10YR 4/6) with dark gray stringers, high plasticity, fine- to medium-grained sand (60,20,20,0)
30					CL	Sandy CLAY: dark yellowish brown (10YR 4/6), low plasticity, fine- to medium-grained sand with multi-colored grains, trace fine-grained gravel (40,20,30,10)
					SC	Clayey SAND with Gravel: medium- to coarse-grained, dark yellowish brown (10YR 3/6), moist to wet, subangular to angular, fine-grained gravel (30,10,60,10)
35					CL	Sandy CLAY: dark yellowish brown (10YR 3/6), damp, medium- to coarse-grained, well graded and subangular sand, trace gravel
40						
45						
50						

Bentonite

2-inch Schedule 40 PVC Casing

#3 Sand

2-inch Schedule 40 0.020-inch Slotted PVC

Cleared to 5 feet bgs by 10-inches on 2/27/2009

Cleared to 4 feet bgs with hand auger, airknife and vacuum.
Cleared to 5 feet bgs with hand auger for collection of soil sample.
Widened to 10-inches using airknife and vacuum.

Total Depth = 40 feet bgs, 10:15, 03/09/2009.

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BORING LOG MW7

(Page 1 of 2)

Project No.:	Former Exxon Service Station 70234
Site:	3450 35th Avenue, Oakland, California
Logged By:	Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	Heidi Dieffenbach-Carle

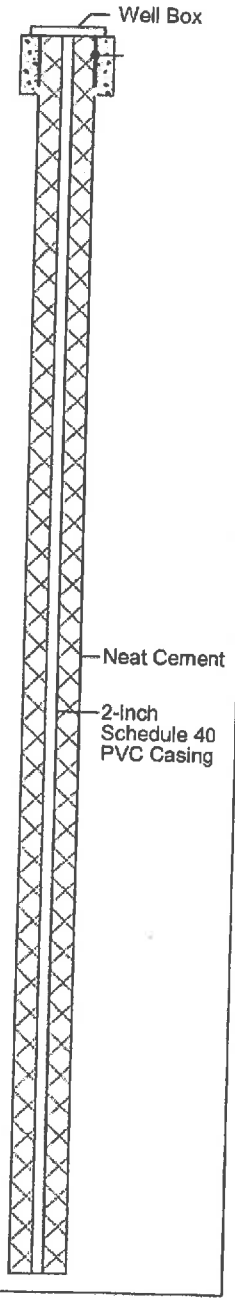
Date Drilled:	03/09/2009
Drilling Co.:	Gregg Drilling Company
Drilling Method:	Hollow-Stem Auger
Sampling Method:	Direct Push
Borehole Diameter:	8"
Casing Diameter:	2"
Location N-S	2115554.1
Location E-W	6069845.1
Total Depth:	40 fbgs
First GW Depth:	35 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 35'
- Second Encountered Water: NA

Well: MW7

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Concrete: 6 inches in thickness.
					CL	Sandy CLAY: very dark grayish brown (10YR 3/2), damp, fine-grained sand, rootlets, trace gravel (45% Clay, 25% Silt, 30%Sand, 2% Gravel)
					CL	Sandy CLAY: dark yellowish brown (10YR 4/4), damp, fine- to medium-grained sand
5					CL	Silty CLAY with Sand: yellowish brown (10YR 5/6), damp, high plasticity, fine- to coarse-grained sand, trace gravel with rootlets, bark and woody material (65,18,15,2)
					CL	Sandy CLAY: dark yellowish brown (10YR 4/4), damp, fine- to coarse-grained sand with muti-colored grains (40,30,30,0)
10					CL	CLAY with Sand: light olive brown with dark yellowish brown motting, damp, low plasticity, fine- to medium-grained sand, trace coarse-grained sand (45,30,15,0)
15					CL	
20					CL	Sandy CLAY: yellowish brown (10YR 5/6), damp, fine- to coarse-grained, subangular to angular sand with multi-colored grains, trace gravel (45,15,35,5)
					SW	Gravelly SAND with Clay and Silt: medium- to coarse-grained, dark yellowish brown (10YR 4/4), damp, fine-grained gravel (10,20,50,10)
25						



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BORING LOG MW7

(Page 2 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach Carle

Date Drilled:	: 03/09/2009
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 8"
Casing Diameter:	: 2"
Location N-S	: 2115554.1
Location E-W	: 6069845.1
Total Depth:	: 40 fbgs
First GW Depth:	: 35 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 35'
- Second Encountered Water: NA

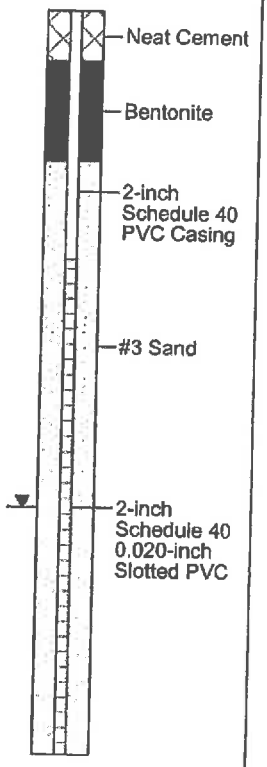
Well: MW7

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25					SW	Gravelly SAND with Clay and Silt (continued): medium- to coarse-grained, dark yellowish brown (10YR 4/4), damp, fine-grained gravel (10,20,50,10)
					CL	Sandy CLAY: dark yellowish brown (10YR 4/4), low plasticity, fine- to medium-grained sand, trace fine-grained, subangular to angular gravel (40,20,30,10)
30						
35					SC	Clayey SAND with Gravel: medium- to coarse-grained, dark yellowish brown (10YR 4/4), moist, well graded, muli-colored grains, fine-grained, subangular to angular gravel (30,10,55,15) @35 feet bgs: becoming wet
40					CL	Sandy CLAY: dark yellowish brown (10YR 4/4), moist, fine- to medium-grained sand (45,25,30,0)
45						
50						

Cleared to 5 feet bgs by 10-inches on 2/27/2009

Cleared to 5 feet bgs with hand auger for collection of soil sample.
Boring widened to 10-inches using airknife and vacuum truck.

Total Depth = 40 feet bgs, 13:35, 03/09/2009.



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BORING LOG MW8

(Page 1 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach-Carle

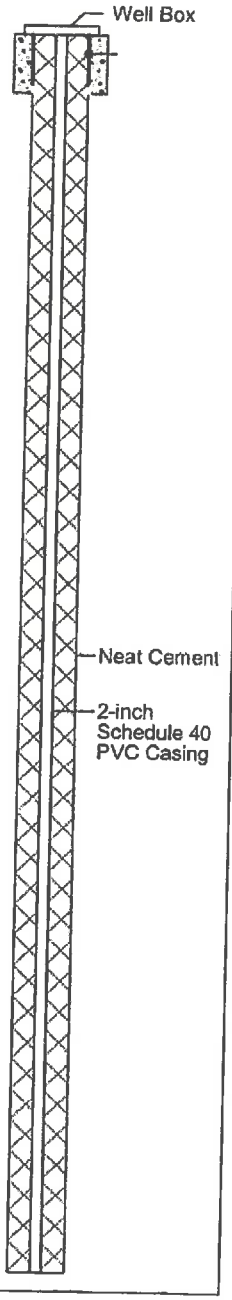
Date Drilled:	: 03/04/2009
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 8"
Casing Diameter:	: 2"
Location N-S	: 2115470.5
Location E-W	: 6069894.0
Total Depth:	: 40 fbgs
First GW Depth:	: 35 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 35'
- Second Encountered Water: NA

Well: MW8

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Ground cover - Lawn
					CL	Sandy CLAY: dark brown (10YR 3/3), moist, high plasticity, fine- to medium-grained sand, trace coarse-grained sand, rootlets (50% Clay, 20% Silt, 30% Sand, 0% Gravel)
					CL	Sandy CLAY: yellowish brown (10YR 5/6) with faint orange mottling, damp, medium plasticity, fine- to coarse-grained and subangular to angular sand, black iron oxide nodules, trace rootlets (50,25,25,0)
5					CL	Silty CLAY: dark yellowish brown (10YR 4/6), damp, trace sand, trace rootlets (80,15,3,0)
10		0.0			CH	Sandy CLAY: dark yellowish brown (10YR 4/6), damp, high plasticity, fine- to coarse-grained and well graded sand, trace gravel, black iron oxide clasts (60% Fines, 35% Sand, 5% Gravel)
15		0.0			CL	Sandy CLAY: yellowish brown (10YR 5/6), damp, low plasticity, fine- to medium-grained sand, trace coarse-grained sand
20		0.8			CL	Sandy CLAY: yellowish brown (10YR 5/6), damp, fine- to coarse-grained, subangular sand with multi-colored grains, trace gravel (60,30,10)
						@ 25 feet bgs: decreasing gravel and increasing medium- to coarse-grained sand (60,35,5)
25						



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BORING LOG MW8

(Page 2 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	:

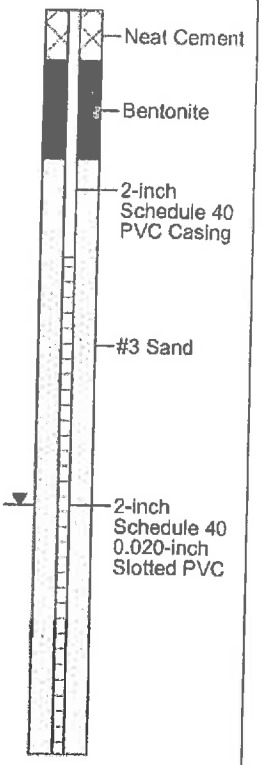
Date Drilled:	: 03/04/2009
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 8"
Casing Diameter:	: 2"
Location N-S	: 2115470.5
Location E-W	: 6069894.0
Total Depth:	: 40 fbgs
First GW Depth:	: 35 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 35'
- Second Encountered Water: NA

Well: MW8

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25		1.4			CL	Sandy CLAY: yellowish brown (10YR 5/6), damp, fine- to coarse-grained, subangular sand with multi-colored grains, trace gravel (60,35,5)
					CH	CLAY with Sand: dark yellowish brown (10YR 4/4) damp, high plasticity, fine-grained sand, trace medium- to coarse-grained sand (75,25,0)
30		1.3				
					SC	SAND with Clay: medium- to coarse-grained sand, dark yellowish brown (10 YR 4/4), moist, poorly graded (30,60,10)
					CL	CLAY with Sand: dark yellowish brown (10 YR 4/6), moist, medium plasticity, fine-grained sand, trace medium- to coarse-grained sand (80,20,0)
35		1.4			SC	Clayey SAND: medium to coarse-grained, dark yellowish brown (10YR 4/4), wet, trace angular gravel (40,55,5)
		2.1			CL	Sandy CLAY: dark yellowish brown (10YR 4/4), damp, fine- to coarse-grained sand with multi-colored grains, trace subangular to angular gravel (60,35,5)
40						Cleared to 5 feet bgs by 10-inches on 2/25/2009. Cleared to 5 feet bgs with hand auger for collection of soil sample. Boring widened to 10-inches and deepened to 8 fbgs using airknife and vacuum truck Total Depth = 40 feet bgs, 14:50, 03/04/2009.
45						
50						



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BORING LOG MW9

(Page 1 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793 / Paula Sime
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	: Heidi Dieffenbach

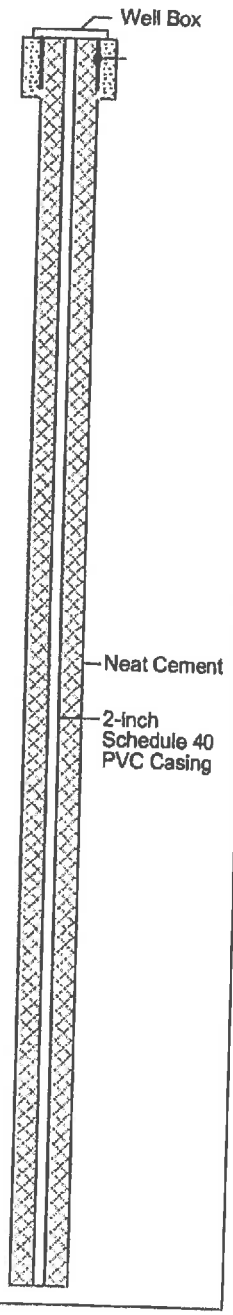
Date Drilled:	: 03/05/2009
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 8"
Casing Diameter:	: 2"
Location N-S	: 2115514.5
Location E-W	: 6069933.1
Total Depth:	: 40 fbgs
First GW Depth:	: 35 fbgs

Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- First Encountered Water: 35'
- Second Encountered Water: NA

Well: MW9

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Concrete: 4.3 inches in thickness.
					CH	Silty CLAY: dark brown (7.5YR 3/2), moist, high plasticity, trace sand, trace rootlets(Clay 80%, Silt 15%, Sand 5%, Gravel 0%)
					CL	Sandy CLAY: dark yellowish brown (10YR 4/6), moist, medium plasticity, fine- to coarse-grained, angular to subangular sand, trace angular to subangular gravel, trace rootlets (70,12,15,3)
5					CH	Silty CLAY: dark yellowish brown (10 YR 4/6), damp, high plasticity, trace sand, trace rootlets (82,15,3,0)
					CL	Sandy CLAY: dark yellowish brown, damp, high plasticity, fine- to coarse-grained, subangular, well graded sand (60, 0, 35, 5)
10						
15					CL	Sandy CLAY: dark yellowish brown, damp, low plasticity, fine- to medium, poorly graded sand, trace coarse-grained sand, very stiff, trace silt (60,5,35,0)
					CL	Sandy CLAY: dark yellowish brown, damp, low plasticity, fine- to coarse-grained, subangular, well graded sand, trace gravel and silt, very stiff (55,5,35,5)
20						
25						



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BORING LOG MW9

(Page 2 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, California
Logged By:	: Heidi L. Dieffenbach-Carle, P.G. #6793 / Paula Sime
Reviewed By:	: Heidi L. Dieffenbach-Carle, P.G. #6793
Signature:	:

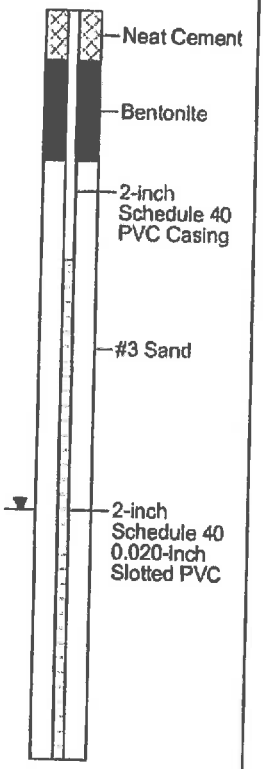
Date Drilled:	: 03/05/2009
Drilling Co.:	: Gregg Drilling Company
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: Direct Push
Borehole Diameter:	: 8"
Casing Diameter:	: 2"
Location N-S	: 2115514.5
Location E-W	: 6069933.1
Total Depth:	: 40 fbgs
First GW Depth:	: 35 fbgs

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: First Encountered Water: 35'; Second Encountered Water: NA

Well: MW9

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
25					SC	Clayey SAND: fine- to medium-grained, dark yellowish brown, damp, well graded, trace gravel and silt, very dense (25,5,65,5)
					CL	Sandy CLAY: dark yellowish brown, damp to moist, medium plasticity, fine- to medium-grained, well graded sand (75,0,25,0)
30						
					SW	SAND with Clay: fine- to coarse-grained, dark yellowish brown, very moist to wet (along clasts boundaries), well graded, subangular, trace gravel, medium loose (10,0,65,5)
35						@35 feet bgs: wet
					CL	Sandy CLAY: dark yellowish brown, moist, low plasticity, fine- to coarse-grained, poorly graded sand, trace gravel (70,0,27,3)
40						Cleared to 5 feet bgs with hand auger for collection of soil sample. Boring widened to 10-inches and deepened to 8 fbgs using air/water knife and vacuum truck on 2/25/2009.
						Total Depth = 40 fbgs, 10:45 03/05/2009.
45						
50						



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Cardno ERI
Shaping the Future

BORING LOG RW1

(Page 1 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, CA
Logged By:	: Vincent T. Battaglia
Reviewed By:	: David R. Daniels, P.G. 8737
Signature:	:

Date Drilled:	: 12/22/2011
Drilling Co.:	: Cascade Drilling
Drilling Method:	: Hollow Stem Auger
Sampling Method:	: Split Spoon
Borehole Diameter:	: 10"
Casing Diameter:	: 4"
Location N-S	: 2115521.4
Location E-W	: 6069882.6
Total Depth:	: 40 fbgs
First GW Depth:	: 29 fbgs

Sample Condition
- No Recovery
- Interval Not Sampled
- Described Sample
- Preserved Sample

Water Levels
- After Completion: 32.08 fbgs
- During drilliing: 29 fbgs

Well: RW1
TOC Elev.: 195.15

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						6-inches of Concrete
					GP	GRAVEL (FILL): gray, dry, poorly graded, rounded (0,0,0,100)
						SAND with Gravel and Clay: fine-to coarse-grained, brown, damp, poorly graded, subangular, fine gravel, subangular gravel (10,0,75,15)
					SP	
5		4.0				Cleared to 5 fbgs using air-vacuum rig, 12/22/2011
	4					
	4					
10	2					No Recovery.
	10					
	12				CL	CLAY with Sand and Gravel: brown with gray mottling, moist, low plasticity, trace calcium carbonate precipitates, stiff (60,0,20,20)
15	13	4.0				
	50/5					
20						No Recovery.

Cover
Surface Casing
Neat Cement Grout
4" diameter stainless steel blank riser

Cardno ERI
Shaping the Future

BORING LOG RW1

(Page 2 of 2)

Project No.:	: Former Exxon Service Station 70234
Site:	: 3450 35th Avenue, Oakland, CA
Logged By:	: Vincent T. Battaglia
Reviewed By:	: David R. Daniels, P.G. 8737
Signature:	:

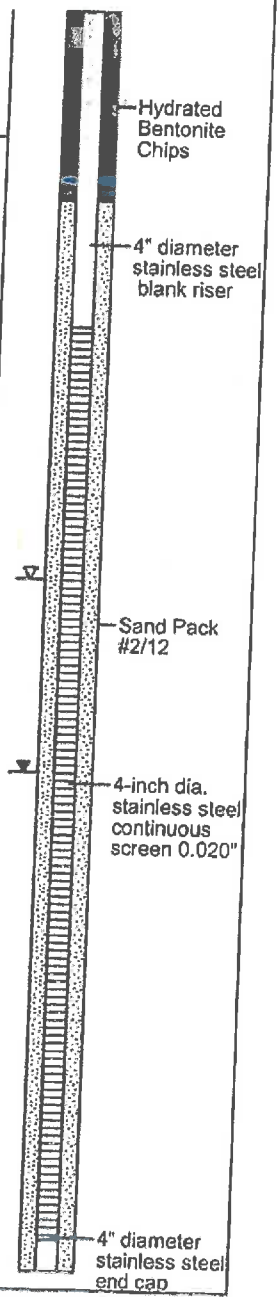
Date Drilled:	: 12/22/2011
Drilling Co.:	: Cascade Drilling
Drilling Method:	: Hollow Stem Auger
Sampling Method:	: Split Spoon
Borehole Diameter:	: 10"
Casing Diameter:	: 4"
Location N-S	: 2115521.4
Location E-W	: 6069882.6
Total Depth:	: 40 fbgs
First GW Depth:	: 29 fbgs

Sample Condition
- No Recovery
- Interval Not Sampled
- Described Sample
- Preserved Sample

Water Levels
- After Completion: 32.08 fbgs
- During drilling: 29 fbgs

Well: RW1
TOC Elev.: 195.15

Depth (ft)	Blow Count	OVM/PID (ppmv)	USCS	DESCRIPTION
20				
	11		CL	CLAY with Sand: brown with gray mottling, moist, low plasticity, stiff, subangular sand (80,0,20,0)
25	12			
	13	48		
	50/5			
	13		CL	CLAY with Sand and Gravel: brown with greenish gray mottling, moist, low plasticity, stiff, trace calcium carbonate precipitates, subangular sand, subangular gravel (65,0,25,10)
	13			
	15	187		
	4			
	4			
30	4		CL	CLAY with Sand and Gravel: brown with gray mottling, damp to moist, low plasticity, fine-to coarse-grained sand, subangular sand, calcium carbonate precipitates, fine-grained gravel, subangular gravel (65,0,25,10)
	13			
	13			
	14	>999		
	10		CL	CLAY with Sand: reddish brown, moist, low to medium plasticity, fine-to coarse-grained sand, subangular sand (80,0,20,0)
	12	231		
	13			
	9		CL	CLAY with Sand: reddish brown, moist, medium plasticity, fine-grained sand, subangular sand (90,0,10,0)
	9			
	11	160		
35	9			
	9			
	9		CL	CLAY with Sand and Gravel: reddish brown, saturated, low plasticity, firm, fine-to coarse-grained sand, subangular sand, fine-grained gravel (65,0,25,10)
	7			
	9			
	9	343		
	10			
	10	806		
	11			
	9			
40	11	102		Total Depth of Boring at 40 fbgs, 12/22/11. 1410. Free Groundwater Encountered at 29 fbgs.



ETIC ENGINEERING

PROJECT NAME: FORMER EXXON SERVICE STATION 70234
PROJECT NO: 14-070234-UP
LOCATION: 3450 35TH AVE, OAKLAND, CA

DRILLING COMPANY: Gregg Drilling	LICENSE No.: C57-485165	ELEVATION AND DATUM (FT.): -	
DRILLING METHOD 1: Hand Auger	DRILLER: German Garcia	DATE STARTED: 4/14/14	DATE FINISHED: 4/14/14
DRILLING METHOD 2: -	DRILL BIT: -	BORING DEPTH (FT.) 7	WELL DEPTH (FT.) 6.75
DRILLING EQUIPMENT: 5" Hand Auger	SAMPLER: 4-Inch Ø Shelby Tube Slide Hammer	NO. OF SAMPLES: SOIL: 2	GW: 0 / OTHER: 0
SIZE AND TYPE OF CASING: 1/4" Ø Stainless steel			
TYPE OF PERFORATION: Stainless steel 0.0057" mesh	FROM 6.25 TO 6.75 FT.	DEPTH TO WATER (FT.) / TIME:	▽ FIRST: - / -
SIZE AND TYPE OF FILTER PACK: #3 Monterey sand	FROM 6 TO 7 FT.		▼ COMPLETION: - / -
TYPE OF SEAL: Dry bentonite	FROM 5 TO 6 FT.		OTHER: - / -
TYPE OF SEAL: Bentonite Slurry	FROM 0.5 TO 5 FT.	LOGGED BY: Karina Gillette	CHECKED BY:

DEPTH (FT.)	DESCRIPTION	GRAPHIC LOG: LITHOLOGY	GRAPHIC LOG: USCS	GRAPHIC LOG: WELL CONSTRUCTION DIAGRAM	WATER LEVEL	SAMPLES: DRIVEN (in.)	SAMPLES: RECOVERY (in.)	SAMPLES: SAMPLING INTERVAL	SAMPLES: BLOW COUNTS (per 6-in.)	SAMPLES: OVM (ppmv)	REMARKS (Drilling Rate, Fluid Loss, Odor, etc.)
	Concrete + traffic box 0-0.5 Ft.										
0	Concrete										
1											
2											
3	SILTY SAND with gravel: Dark brown (10YR 3/3), fine to medium grained, loose, slightly moist, some fine subangular gravel up to 1/2 inch diameter.		SM								
4											
5											
6						18	18			0	Soil samples V1-6.5 @ 1315
7	END OF BORING AT 7 FEET.					6	6			0	V1-7 @ 1330
8											
9											
10											
11											
12											
13											
14											
15											
16											Swagelok valve on top of stainless steel tubing
17											
18											
19											
20											

BORING NO.: V1

ETIC ENGINEERING

PROJECT NAME: FORMER EXXON SERVICE STATION 70234
PROJECT NO: 14-070234-UP
LOCATION: 3450 35TH AVE, OAKLAND, CA

DRILLING COMPANY: Gregg Drilling	LICENSE No.: C57-485165	ELEVATION AND DATUM (FT.): -	
DRILLING METHOD 1: Hand Auger	DRILLER: German Garcia	DATE STARTED: 4/15/14	DATE FINISHED: 4/15/14
DRILLING METHOD 2: -	DRILL BIT: -	BORING DEPTH (FT.) 7	WELL DEPTH (FT.) 6.75
DRILLING EQUIPMENT: 5" Hand Auger	SAMPLER: 4-inch Ø Shelby Tube Slide Hammer	NO. OF SAMPLES: SOIL: 2	GW: 0 / OTHER: 0
SIZE AND TYPE OF CASING: 1/4" Ø Stainless steel		DEPTH TO WATER (FT.) / TIME:	▽ FIRST: - / ▼ COMPLETION: - / OTHER: -
TYPE OF PERFORATION: Stainless steel 0.0057" mesh	FROM 6.25 TO 6.75 FT.		
SIZE AND TYPE OF FILTER PACK: #3 Monterey sand	FROM 6 TO 7 FT.		
TYPE OF SEAL: Dry bentonite	FROM 5 TO 6 FT.		
TYPE OF SEAL: Bentonite Slurry	FROM 0.5 TO 5 FT.	LOGGED BY: Karina Gillette	CHECKED BY:

Concrete + traffic box 0-0.5 Ft.

DEPTH (FT.)	DESCRIPTION	GRAPHIC LOG: LITHOLOGY	GRAPHIC LOG: USCS	GRAPHIC LOG: WELL CONSTRUCTION DIAGRAM	WATER LEVEL	SAMPLES: DRIVEN (in.)	SAMPLES: RECOVERY (in.)	SAMPLES: SAMPLING INTERVAL	SAMPLES: BLOW COUNTS (per 6-in.)	OVM (ppmv)	REMARKS (Drilling Rate, Fluid Loss, Odor, etc.)
0	Concrete										
1	SILTY SAND with some gravel: Very dark grayish brown (10YR 3/2), fine to medium grained, loose, slightly moist, rounded gravel up to 3/8 inch diameter.	SM								0	
2	SAND: Brown (10YR 5/3), fine grained, loose, dry, trace rounded gravel up to 1/4 inch diameter.	SP									At 2.5' some ceramic fragments recovered.
3						6	6			0	V2-3 @ 0940
4	SILT with some sand: Dark yellowish brown (10YR 4/4), hard, dry, very fine grained sand.									0	
5		ML									
6						12	11.5			0	V2-6 @ 1020
7	SILTY CLAY: Yellowish brown (10YR 4/4), stiff, moist, trace fine gravel.	CL				6	6				V2-6.5 @ 1030
	END OF BORING AT 7 feet.									0	
8											
9											
10											
11											
12											
13											
14											
15											
16											Swagelok valve on top of stainless steel tubing
17											
18											
19											
20											

BORING NO.: V2

ETIC ENGINEERING

PROJECT NAME: FORMER EXXON SERVICE STATION 70234
PROJECT NO: 14-070234-UP
LOCATION: 3450 35TH AVE, OAKLAND, CA

DRILLING COMPANY: Gregg Drilling	LICENSE No.: C57-485165	ELEVATION AND DATUM (FT.): -	
DRILLING METHOD 1: Hand Auger	DRILLER: German Garcia	DATE STARTED: 4/14/14	DATE FINISHED: 4/15/14
DRILLING METHOD 2: -	DRILL BIT: -	BORING DEPTH (FT.) 7.25	WELL DEPTH (FT.) 6.75
DRILLING EQUIPMENT: 5" Hand Auger	SAMPLER: 4-inch Ø Shelby Tube Slide Hammer	NO. OF SAMPLES: SOIL: 2	GW: 0 / OTHER: 0
SIZE AND TYPE OF CASING: 1/4" Ø Stainless steel		DEPTH TO WATER (FT.) FIRST: -	COMPLETION: - / OTHER: -
TYPE OF PERFORATION: Stainless steel 0.0057" mesh	FROM 6.25 TO 6.75 FT.	TIME: -	
SIZE AND TYPE OF FILTER PACK: #3 Monterey sand	FROM 6 TO 7.25 FT.	LOGGED BY: Victor Oceguera	CHECKED BY:
TYPE OF SEAL: Dry bentonite	FROM 5 TO 6 FT.		
TYPE OF SEAL: Bentonite Slurry	FROM 0.5 TO 5 FT.		

DEPTH (FT.)	DESCRIPTION	GRAPHIC LOG: LITHOLOGY	GRAPHIC LOG: USCS	GRAPHIC LOG: WELL CONSTRUCTION DIAGRAM	WATER LEVEL	SAMPLES: DRIVEN (in.)	SAMPLES: RECOVERY (in.)	SAMPLES: SAMPLING INTERVAL	SAMPLES: BLOW COUNTS (per 6-in.)	SAMPLES: OVM (ppmv)	REMARKS (Drilling Rate, Fluid Loss, Odor, etc.)
	Concrete + traffic box 0-0.5 Ft.										
	Concrete										
1	SILTY SAND with gravel: Dark brown (10YR 3/3), fine to medium grained, loose, some angular gravel up to 1/2 inch diameter, moist.		SM							0	
2											
3	SANDY SILT: Dark brown (10YR 3/3), fine grained sand, soft, some angular gravel up to 1/2 inch diameter, moist.									0	
4	Color change: Dark yellowish brown (10YR 4/6) becoming medium stiff.									0	
5			ML								
6						12	12			0	V4-6 @ 0720
7	END OF BORING AT 7.25 feet.					6	6			0	V4-6.5 @ 0730
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

BORING NO.: V4

ETIC ENGINEERING

PROJECT NAME: FORMER EXXON SERVICE STATION 70234
PROJECT NO: 14-070234-UP
LOCATION: 3450 35TH AVE, OAKLAND, CA

DRILLING COMPANY: Gregg Drilling	LICENSE No.: C57-485165	ELEVATION AND DATUM (FT.): -	
DRILLING METHOD 1: Hand Auger	DRILLER: German Garcia	DATE STARTED: 4/14/14	DATE FINISHED: 4/15/14
DRILLING METHOD 2: -	DRILL BIT: -	BORING DEPTH (FT.) 7	WELL DEPTH (FT.) 6.75
DRILLING EQUIPMENT: 5" Hand Auger	SAMPLER: 4-inch Ø Shelby Tube Slide Hammer	NO. OF SAMPLES: SOIL: 2	GW: 0 / OTHER: 0
SIZE AND TYPE OF CASING: 1/4" Ø stainless steel		DEPTH TO WATER (FT.) ▽ FIRST: -	▼ COMPLETION: - / OTHER: -
TYPE OF PERFORATION: Stainless steel 0.0057" mesh	FROM 6.25 TO 6.75 FT.	TIME: -	- / -
SIZE AND TYPE OF FILTER PACK: #3 Monterey sand	FROM 6 TO 7 FT.	LOGGED BY: Victor Oceguera	CHECKED BY:
TYPE OF SEAL: Dry bentonite	FROM 5 TO 6 FT.		
TYPE OF SEAL: Bentonite Slurry	FROM 0.5 TO 5 FT.		

Concrete + traffic box 0-0.5 Ft.

DEPTH (FT.)	DESCRIPTION	LITHOLOGY	USCS	WELL CONSTRUCTION DIAGRAM	WATER LEVEL	SAMPLES: DRIVEN (in.)	SAMPLES: RECOVERY (in.)	SAMPLES: SAMPLING INTERVAL	SAMPLES: BLOW COUNTS (per 6-in.)	SAMPLES: OVM (ppmv)	REMARKS (Drilling Rate, Fluid Loss, Odor, etc.)
1	Concrete										
2	SILTY CLAY: Dark brown (10YR 3/6), medium stiff, secondary color dark yellowish brown (10YR 5/6), moist.		CL								
3											
4	SILT WITH CLAY: Dark brown (10YR 3/4), moist, trace angular gravel up to 1 inch diameter.										
5	Color change: Dark yellowish brown (10YR 5/6)		ML								
6						12	9			0	V5-6 @ 0830
7	END OF BORING AT 7 feet.					6	6			0	V5-6.5 @ 0845
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

BORING NO.: V5

ETIC ENGINEERING

PROJECT NAME: FORMER EXXON SERVICE STATION 70234
PROJECT NO: 14-070234-UP
LOCATION: 3450 35TH AVE, OAKLAND, CA

DRILLING COMPANY: Gregg Drilling	LICENSE No.: C57-485165	ELEVATION AND DATUM (FT.): -	
DRILLING METHOD 1: Hand Auger	DRILLER: Armando Torres	DATE STARTED: 11/7/14	DATE FINISHED: 11/7/14
DRILLING METHOD 2: -	DRILL BIT: -	BORING DEPTH (FT.) 6.7	WELL DEPTH (FT.) 6.4
DRILLING EQUIPMENT: 3" Hand Auger	SAMPLER: Slide Hammer/ 3"Ø Shelby Tube	NO. OF SAMPLES: SOIL: 3	GW: 0 / OTHER: -
SIZE AND TYPE OF CASING: 1/4" Ø stainless steel		DEPTH TO WATER (FT.) / TIME:	▽ FIRST: - / ▼ COMPLETION: - - / OTHER: - -
TYPE OF PERFORATION: Stainless steel 0.0057" mesh	FROM 5.9 TO 6.4 FT.		
SIZE AND TYPE OF FILTER PACK: #3 sand	FROM 5.7 TO 6.7 FT.		
TYPE OF SEAL: Dry Granular Bentonite	FROM 4.7 TO 5.7 FT.		
TYPE OF SEAL: Bentonite Slurry	FROM 0.5 TO 4.7 FT.	LOGGED BY: Karina Gillette	CHECKED BY:

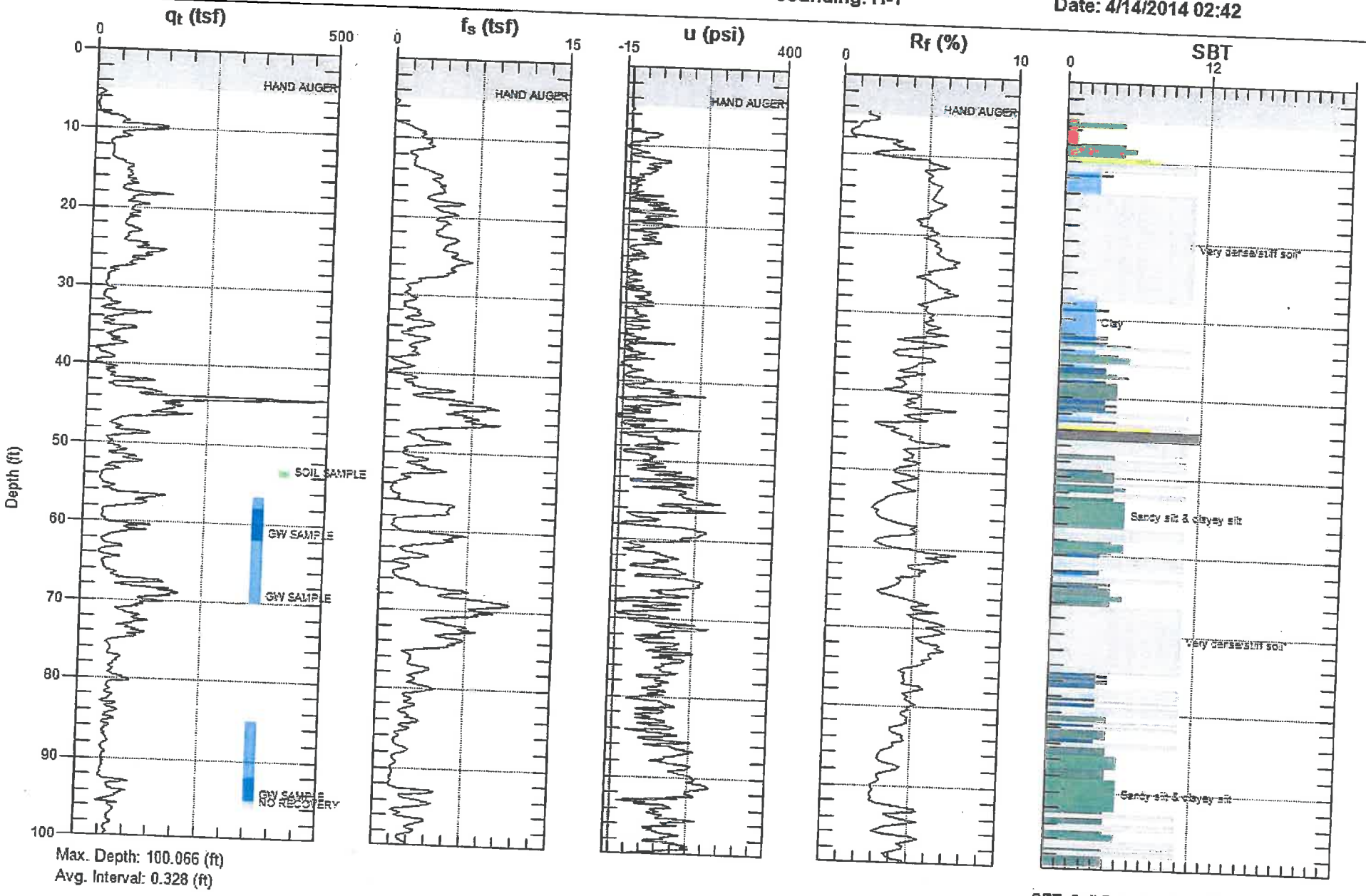
DEPTH (FT.)	DESCRIPTION	GRAPHIC LOG: LITHOLOGY	GRAPHIC LOG: USCS	GRAPHIC LOG: WELL CONSTRUCTION DIAGRAM	WATER LEVEL	SAMPLES: DRIVEN (in.)	SAMPLES: RECOVERY (in.)	SAMPLES: SAMPLING INTERVAL	SAMPLES: BLOW COUNTS (per 6-in.)	SAMPLES: OVM (ppmv)	REMARKS (Drilling Rate, Fluid Loss, Odor, etc.)
	Concrete + traffic box 0-0.5 Ft.										
1	Concrete										
2	SANDY SILT: Dark yellowish brown (10YR 4/4), stiff, moist.		ML								Swagelok valve on top of stainless steel tubing.
3	CLAY: Yellowish brown (10YR 5/6), medium plasticity, very stiff, moist.									0	V6, 3 collected @ 1050 on 11/7/14.
4											
5			CL								
6						12	12				V6, 6 collected @ 1120 on 11/7/14.
7	SANDY SILT: Dark yellowish brown (10YR 4/6), firm, moist, fine to medium sand, trace angular gravel up to 2"Ø.		ML			6	6			0	V6, 6.5 collected at 1145 on 11/7/14.
8	END OF BORING AT 6.7 feet.										
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

BORING NO.: V6

ETIC ENGINEERING

Site: 3450 35TH AVE.
Sounding: H-1

Engineer: K.GILLETTE
Date: 4/14/2014 02:42



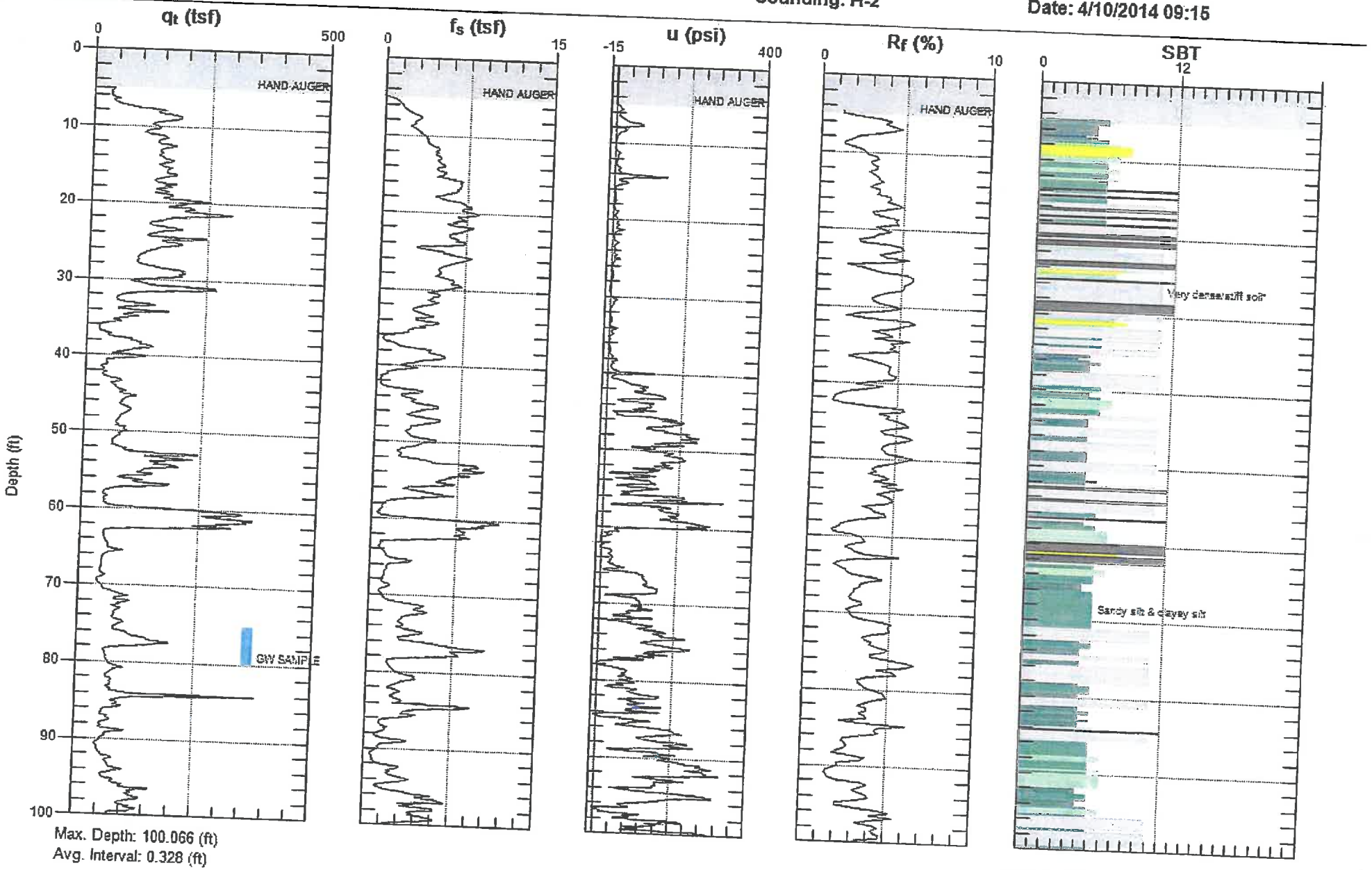
Max. Depth: 100.066 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

ETIC ENGINEERING

Site: 3450 35TH AVE.
Sounding: H-2

Engineer: K.GILLETTE
Date: 4/10/2014 09:15



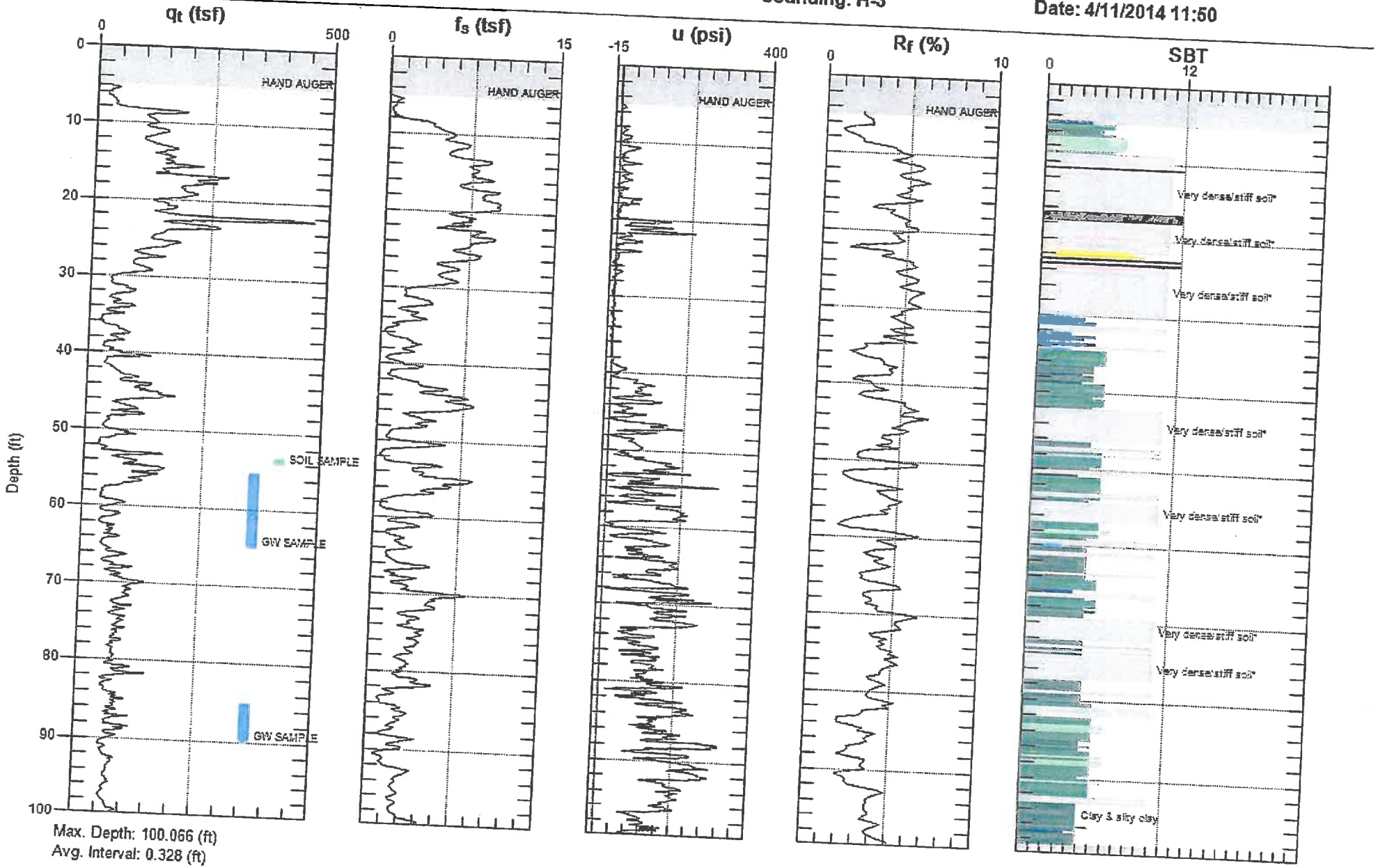
Max. Depth: 100.066 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

ETIC ENGINEERING

Site: 3450 35TH AVE.
Sounding: H-3

Engineer: K.GILLETTE
Date: 4/11/2014 11:50



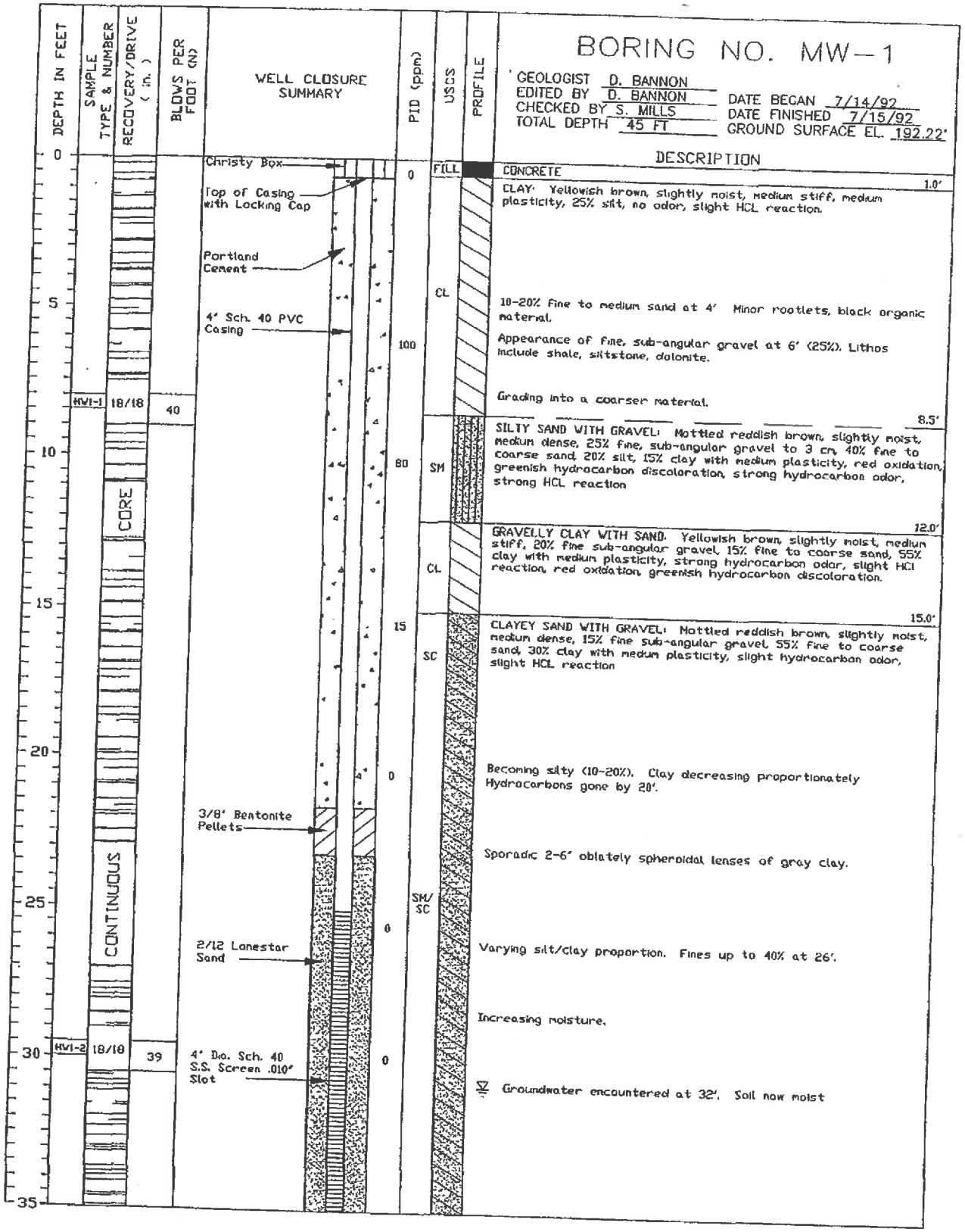
Max. Depth: 100.066 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

BORING NO. MW-1

GEOLOGIST D. BANNON
EDITED BY D. BANNON
CHECKED BY S. MILLS
TOTAL DEPTH 45 FT

DATE BEGAN 7/14/92
DATE FINISHED 7/15/92
GROUND SURFACE EL. 192.22'



DRILLING CO.. SIERRA PACIFIC EXPLORATION
DRILL METHOD. HOLLOW STEM AUGER
SAMPLING METHOD: CONTINUOUS CORE

PROJECT NO.: 191081
CLIENT: EXXON CO., U.S.A.
LOCATION: OAKLAND, CA
SITE ADDRESS: 3450 35TH AVENUE, OAKLAND, CA

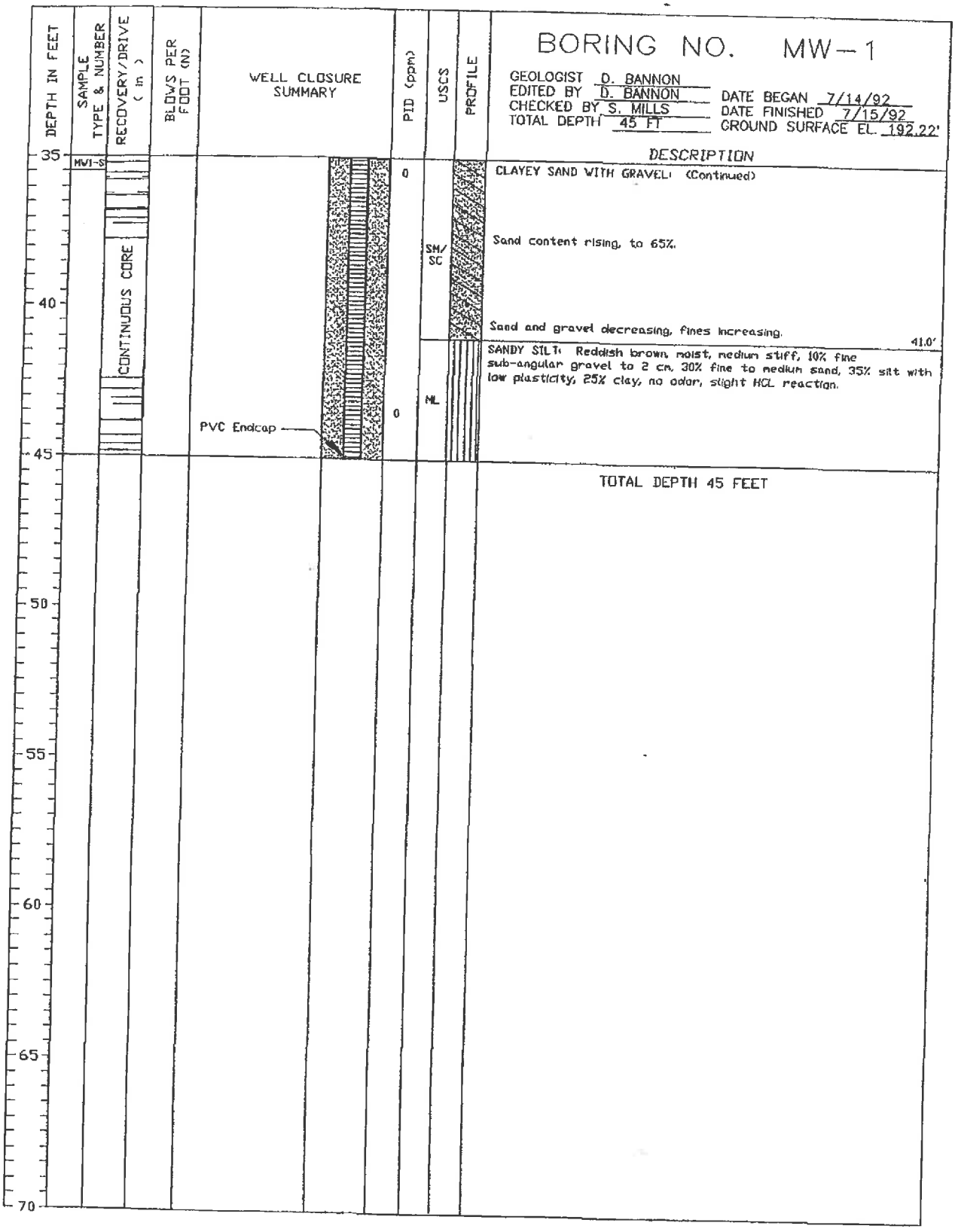
SEE LEGEND FOR EXPLANATION OF SYMBOLS AND TERMS

INTERNATIONAL TECHNOLOGY CORPORATION

BORING NO. MW-1

GEOLOGIST D. BANNON
EDITED BY D. BANNON
CHECKED BY S. MILLS
TOTAL DEPTH 45 FT

DATE BEGAN 7/14/92
DATE FINISHED 7/15/92
GROUND SURFACE EL. 192.22'



DESCRIPTION

CLAYEY SAND WITH GRAVEL: (Continued)

Sand content rising, to 65%.

Sand and gravel decreasing, fines increasing. 41.0'

SANDY SILT: Reddish brown, moist, medium stiff, 10% fine sub-angular gravel to 2 cm, 30% fine to medium sand, 35% silt with low plasticity, 25% clay, no odor, slight HCL reaction.

TOTAL DEPTH 45 FEET

DRILLING CO.: SIERRA PACIFIC EXPLORATION
DRILL METHOD: HOLLOW STEM AUGER
SAMPLING METHOD: CONTINUOUS CORE

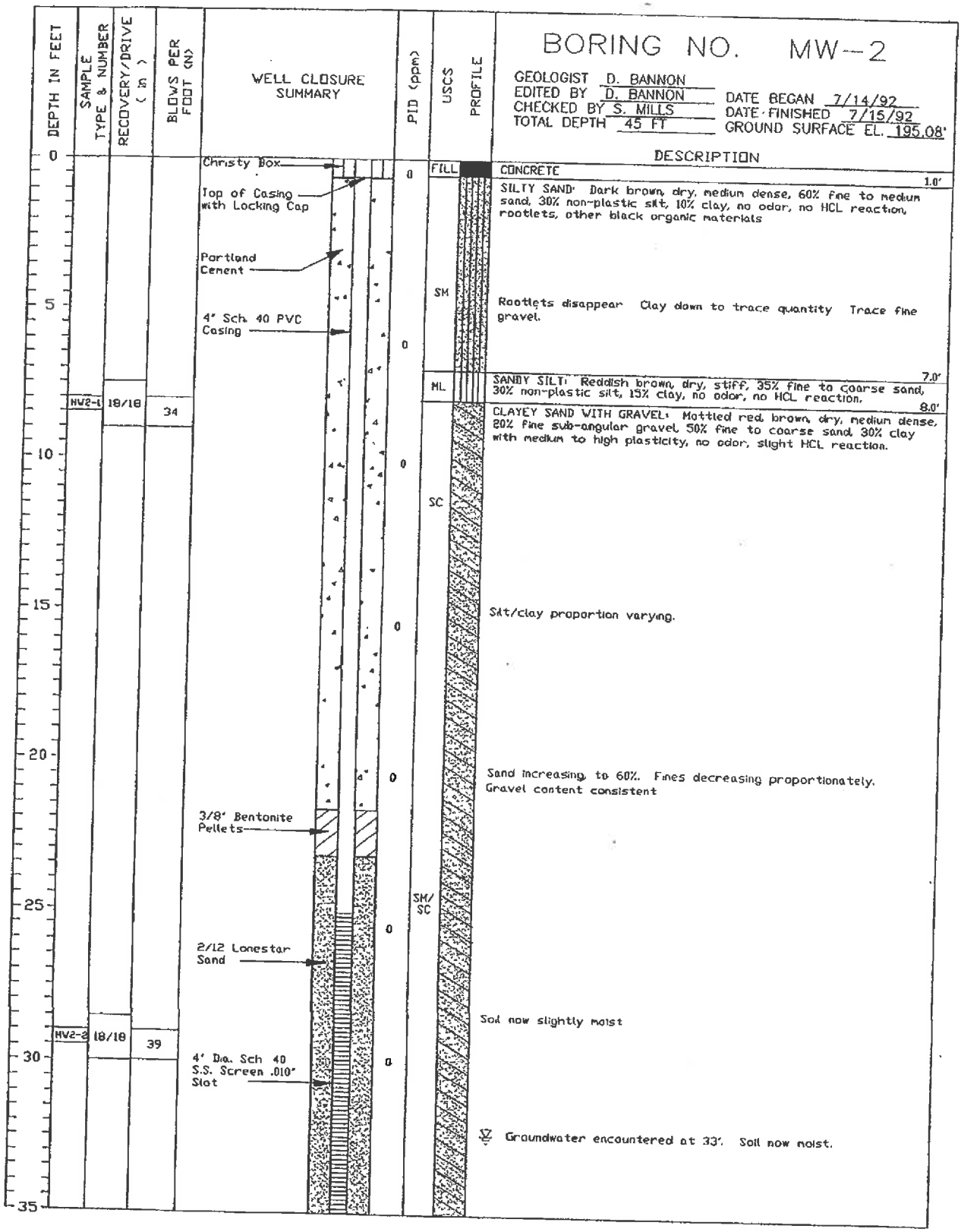
PROJECT NO.. 191081
CLIENT: EXXON CO., U.S.A.
LOCATION: OAKLAND, CA
SITE ADDRESS: 3450 35TH AVENUE, OAKLAND, CA

SEE LEGEND FOR EXPLANATION OF SYMBOLS AND TERMS

INTERNATIONAL TECHNOLOGY CORPORATION

BORING NO. MW-2

GEOLOGIST D. BANNON
EDITED BY D. BANNON
CHECKED BY S. MILLS
TOTAL DEPTH 45 FT
DATE BEGAN 7/14/92
DATE FINISHED 7/15/92
GROUND SURFACE EL. 195.08'



DRILLING CO.: SIERRA PACIFIC EXPLORATION
DRILL METHOD HOLLOW STEM AUGER
SAMPLING METHOD: SPLIT SPOON (SS) SAMPLER

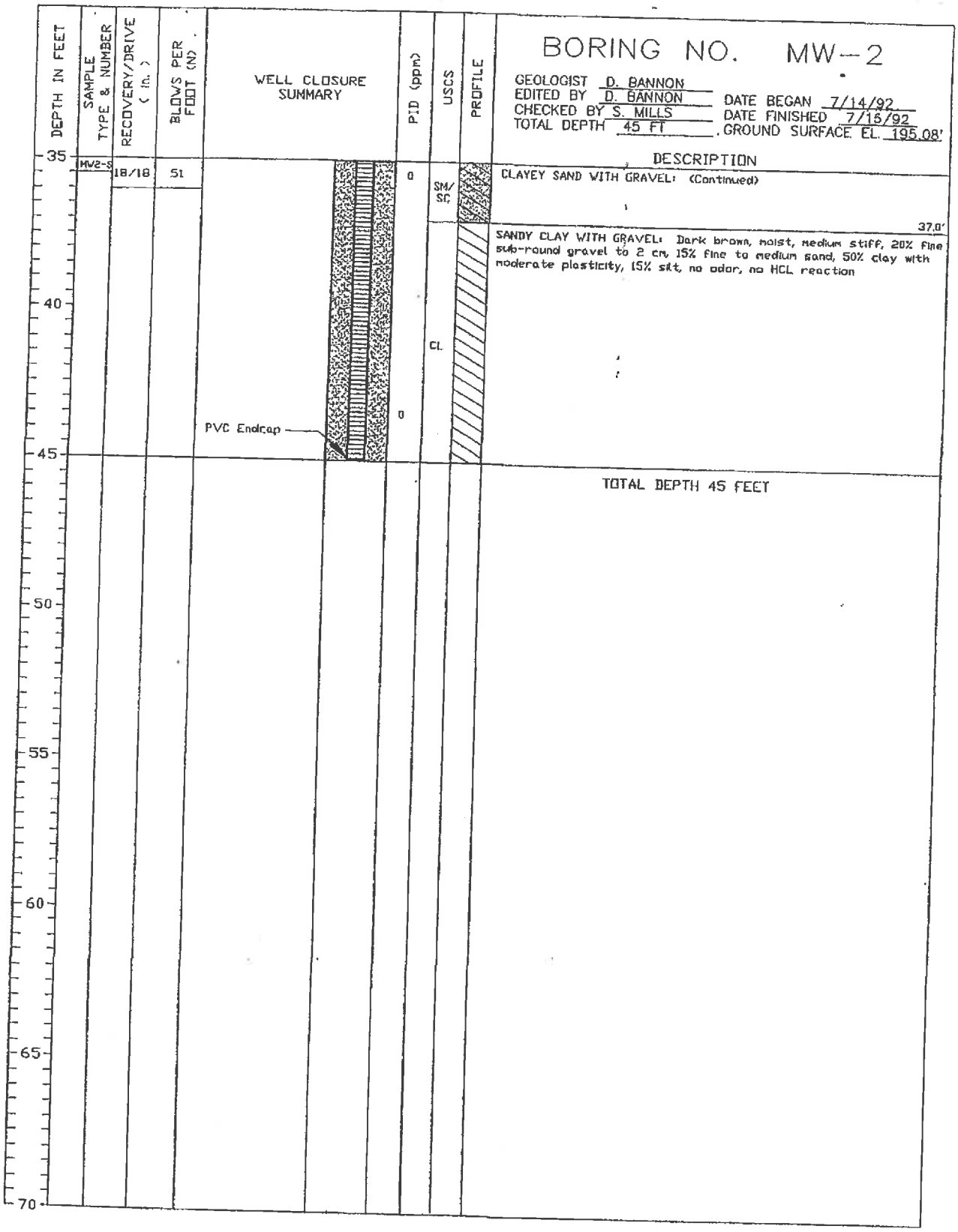
PROJECT NO.: 191081
CLIENT: EXXON CO., U.S.A.
LOCATION OAKLAND, CA
SITE ADDRESS: 3450 35TH AVENUE, OAKLAND, CA

SEE LEGEND FOR EXPLANATION OF SYMBOLS AND TERMS

INTERNATIONAL TECHNOLOGY CORPORATION

BORING NO. MW-2

GEOLOGIST D. BANNON
EDITED BY D. BANNON
CHECKED BY S. MILLS
TOTAL DEPTH 45 FT
DATE BEGAN 7/14/92
DATE FINISHED 7/15/92
GROUND SURFACE EL. 195.08'



DRILLING CO.: SIERRA PACIFIC EXPLORATION
DRILL METHOD: HOLLOW STEM AUGER
SAMPLING METHOD: SPLIT SPOON (SS) SAMPLER

PROJECT NO: 191081
CLIENT: EXXON CO., U.S.A.
LOCATION: OAKLAND, CA
SITE ADDRESS: 3450 35TH AVENUE, OAKLAND, CA

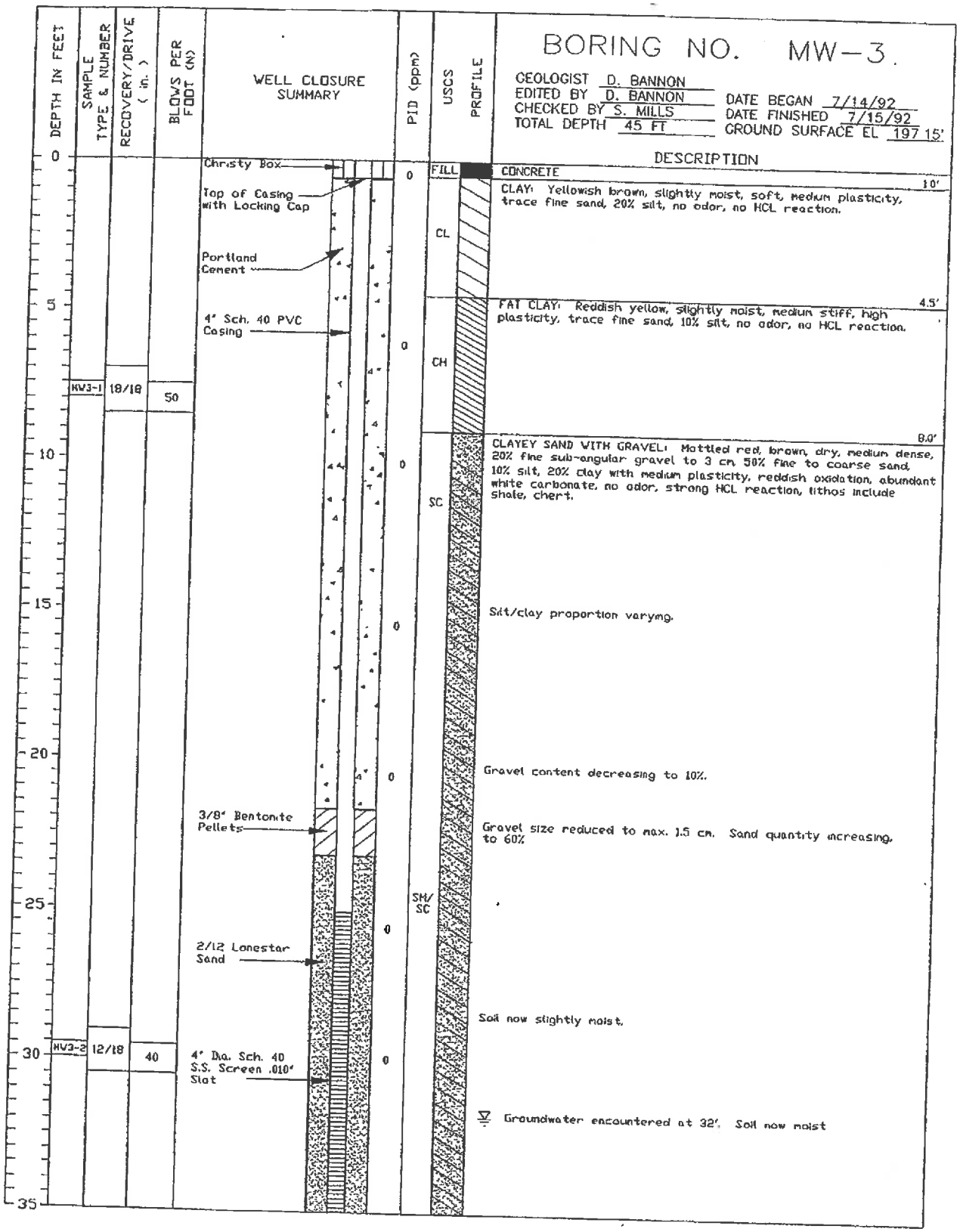
SEE LEGEND FOR EXPLANATION OF SYMBOLS AND TERMS

INTERNATIONAL TECHNOLOGY CORPORATION

BORING NO. MW-3

GEOLOGIST D. BANNON
EDITED BY D. BANNON
CHECKED BY S. MILLS
TOTAL DEPTH 45 FT

DATE BEGAN 7/14/92
DATE FINISHED 7/15/92
GROUND SURFACE EL 197 15'



DRILLING CO.: SIERRA PACIFIC EXPLORATION
DRILL METHOD. HOLLOW STEM AUGER
SAMPLING METHOD: SPLIT SPOON (SS) SAMPLER

PROJECT NO: 191081
CLIENT: EXXON CO., U.S.A.
LOCATION: OAKLAND, CA
SITE ADDRESS: 3450 35TH AVENUE, OAKLAND, CA

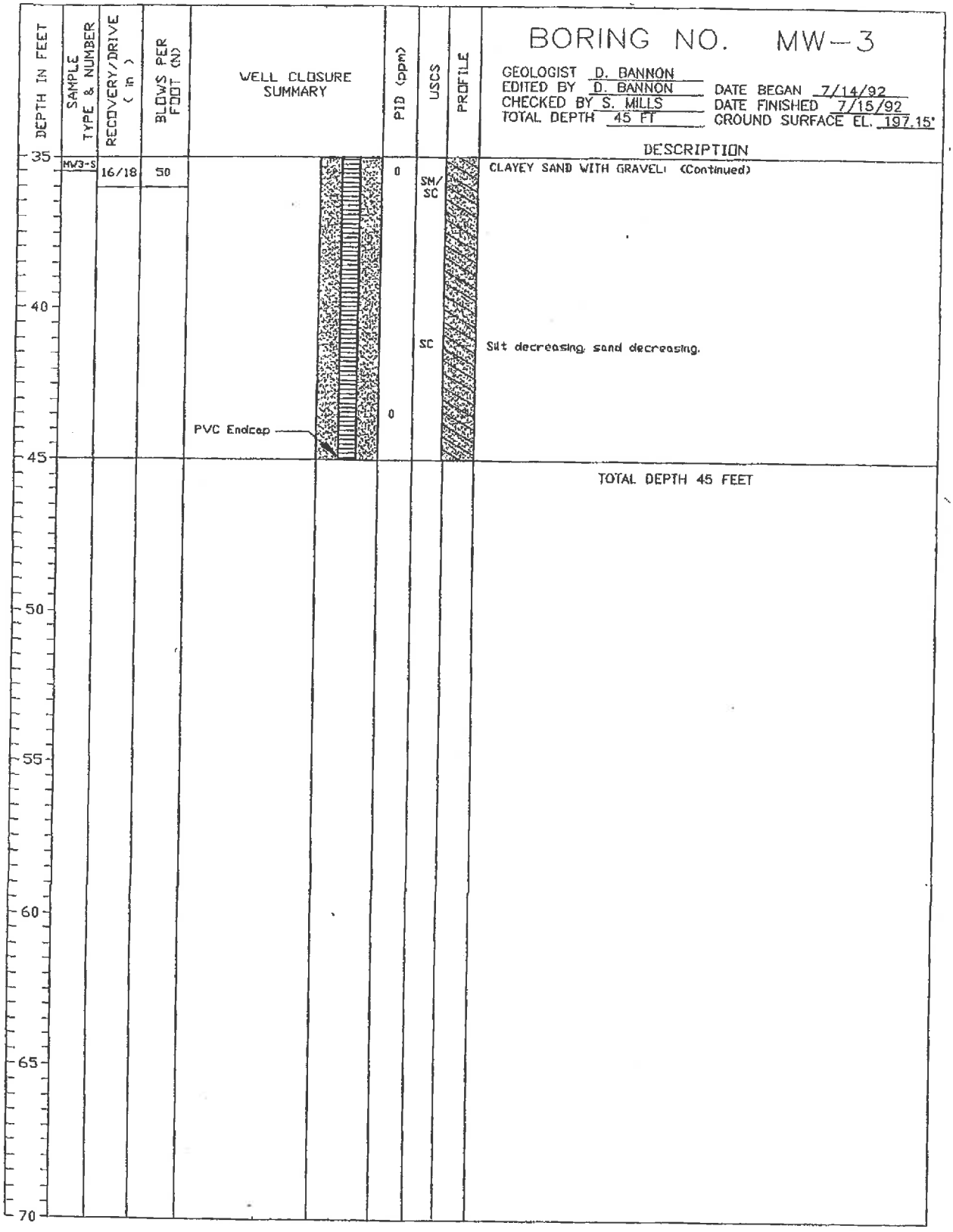
SEE LEGEND FOR EXPLANATION OF SYMBOLS AND TERMS

INTERNATIONAL TECHNOLOGY CORPORATION

BORING NO. MW-3

GEOLOGIST D. BANNON
EDITED BY D. BANNON
CHECKED BY S. MILLS
TOTAL DEPTH 45 FT

DATE BEGAN 7/14/92
DATE FINISHED 7/15/92
GROUND SURFACE EL. 197.15'



DRILLING CO.: SIERRA PACIFIC EXPLORATION
DRILL METHOD: HOLLOW STEM AUGER
SAMPLING METHOD: SPLIT SPOON (SS) SAMPLER

PROJECT NO.: 191081
CLIENT: EXXON CO., U.S.A.
LOCATION. OAKLAND, CA
SITE ADDRESS: 3450 35TH AVENUE, OAKLAND, CA

SEE LEGEND FOR EXPLANATION OF SYMBOLS AND TERMS

INTERNATIONAL TECHNOLOGY CORPORATION

ALTON GEOSCIENCE LOG OF EXPLORATORY BORINGS

PROJECT NO. 30-483 DATE DRILLED 3-20-91
CLIENT Exxon
LOCATION 3450 35th, Oakland
LOGGED BY JD APPROVED BY

BORING NO. B-1
WELL NO.

FIELD LOCATION OF BORING

Tank Cluster

SURFACE ELE. DATUM

DRILLING METHOD 4" H.S.A. HOLE DIAMETER
SAMPLER TYPE 2" S.S.
CASING INSTALLATION DATA N/A
DRILLER West Hazmat

WATER LEVEL										
DATE										
TIME										

BLOW COUNTS	PID/OVA READING	WELL CONSTRUCTION	DEPTH	SAMPLE	USCS CLASSIFICATION	DESCRIPTION
						6" of Concrete / 1' of subgrade
			0		CL	SILTY CLAY: light brown, moist, moderate plasticity, stiff
			2			
			4			
4.5.7	0		6			
			8		ML	SANDY SILT with clay: light brown, moist, low plasticity, fine- to coarse-grained sand, trace fine gravel, very stiff
			10			
5.9.17	6		12			
			14			
5.12.21	19		16			
			18			with black mottling
			20			
8.12.23	22					End of boring at 21.5'
						No ground water encountered
						Backfilled with neat cement

ALTON GEOSCIENCE
LOG OF EXPLORATORY BORINGS

PROJECT NO. 30-483 DATE DRILLED 3-20-91
CLIENT Exxon
LOCATION 3450 35th, Oakland
LOGGED BY JO APPROVED BY

BORING NO. B-2
WELL NO.

FIELD LOCATION OF BORING
Tank Cluster

SURFACE ELE. DATUM

DRILLING METHOD 4" H.S.A. HOLE DIAMETER
SAMPLER TYPE 2" S.S.
CASING INSTALLATION DATA N/A
DRILLER West Hazmat

WATER LEVEL					
DATE					
TIME					

BLOW COUNTS	PID/OVA READING	WELL CONSTRUCTION	DEPTH	SAMPLE	USCS CLASSIFICATION	DESCRIPTION
			0			6" of Concrete / 1' of subgrade
					ML	SANDY SILT with gravel (fill): dark brown, moist, fine- to medium-grained sand, wood, wire and brick fragments, soft
			4		CL	SILTY CLAY: light brown, moist, moderate plasticity, very stiff
5,8,10	0		6			
			8			
			10		ML	SANDY SILT with clay: light brown, moist, low plasticity, fine- to coarse-grained sand, trace fine gravel, very stiff
6,10,20	0		12			
			14			
10,13,14	263		16			
			18			
			20			
5,27,26	4					hard
						End of boring at 21.5'
						No ground water encountered
						Backfilled with neat cement

ALTON GEOSCIENCE
LOG OF EXPLORATORY BORINGS

FIELD LOCATION OF BORING

Tank Cluster

SURFACE ELE. _____ DATUM _____

PROJECT NO. 30-483 DATE DRILLED 3-20-91

CLIENT Exxon

LOCATION 3450 35th, Oakland

LOGGED BY JD APPROVED BY _____

BORING NO. B-3

WELL NO.

DRILLING METHOD 4" H.S.A. HOLE DIAMETER _____

SAMPLER TYPE 2" S.S.

CASING INSTALLATION DATA N/A

DRILLER West Hazmat

BLOW COUNTS	PID/OVA READING	WELL CONSTRUCTION	DEPTH	SAMPLE	USCS CLASSIFICATION	WATER LEVEL / DATE / TIME	DESCRIPTION
			0				6" of Concrete / 1' of subgrade
					CL		SILTY CLAY: light brown, moist, moderate plasticity, firm
			2				
			4				
2,3,4	4		6				
			8				
					ML		
6,9,18	48		10				SANDY SILT with clay: light brown, moist, low plasticity, fine- to coarse-grained sand, trace fine gravel, very stiff
			12				
			14				
9,11,20	309		16				
							End of boring at 16.5'
							No ground water encountered.
							Backfilled with neat cement.

ALTON GEOSCIENCE
LOG OF EXPLORATORY BORINGS

PROJECT NO. 30-483 DATE DRILLED 3-20-91 BORING NO. B-4
CLIENT Exxon WELL NO.
LOCATION 3450 35th, Oakland
LOGGED BY JO APPROVED BY

FIELD LOCATION OF BORING: Tank Cluster

SURFACE ELE. _____ DATUM _____

DRILLING METHOD 4" H.S.A. HOLE DIAMETER
SAMPLER TYPE 2" S.S.
CASING INSTALLATION DATA N/A
DRILLER West Hazmat

WATER LEVEL										
DATE										
TIME										

BLOW COUNTS	PID/OVA READING	WELL CONSTRUCTION	DEPTH	SAMPLE	USCS CLASSIFICATION	DESCRIPTION
			0			6" of Concrete / 1' of subgrade
					CL	SILTY CLAY : light brown, moist, moderate plasticity, hard
			2			
			4			
10.15.30	11		6			
			8			
					ML	SANDY SILT with clay : light brown, moist, low plasticity, fine- to coarse-grained sand, trace fine gravel, hard
10.20.20	314		10			
			12			
			14			
9.14.24	180		16			
			18			
			20			
4.15.22	9					
						End of boring at 21.5'
						No ground water encountered
						Backfilled with neat cement

ALTON GEOSCIENCE
LOG OF EXPLORATORY BORINGS

PROJECT NO. 20-483 DATE DRILLED 3-20-91
CLIENT Exxon
LOCATION 3450 35th, Oakland
LOGGED BY JD APPROVED BY

BORING NO. B-5
WELL NO.

FIELD LOCATION OF BORING

Tank Cluster

SURFACE ELE. _____ DATUM _____

DRILLING METHOD 4" H.S.A. HOLE DIAMETER
SAMPLER TYPE 2" S.S.
CASING INSTALLATION DATA N/A
DRILLER West Hazmat

WATER LEVEL						
DATE						
TIME						

BLOW COUNTS	PID/OVA READING	WELL CONSTRUCTION	DEPTH	SAMPLE	USCS CLASSIFICATION	DESCRIPTION
			0			6" of Concrete / 1' of subgrade
					CL	SILTY CLAY: light brown, moist, moderate plasticity, very stiff
			2			
			4			
5,9,10	4		6			
					ML	SANDY SILT with clay: light brown, moist, low plasticity, fine- to coarse-grained sand, trace fine gravel, hard
			8			
			10			
6,15,23	14					
			12			End of boring at 11.5'
						No ground water encountered
						Backfilled with neat cement.

ALTON GEOSCIENCE
LOG OF EXPLORATORY BORINGS

PROJECT NO. 30-483 DATE DRILLED 3-20-91
CLIENT Exxon
LOCATION 3450 35th, Oakland
LOGGED BY JD APPROVED BY

BORING NO. B-6
WELL NO.

FIELD LOCATION OF BORING

Tank Cluster

SURFACE ELE. DATUM

DRILLING METHOD 4" H.S.A. HOLE DIAMETER
SAMPLER TYPE 2" S.S.
CASING INSTALLATION DATA N/A
DRILLER West Hazmat

WATER LEVEL					
DATE					
TIME					

BLOW COUNTS	PID/OVA READING	WELL CONSTRUCTION	DEPTH	SAMPLE	USCS CLASSIFICATION	DESCRIPTION
			0			6" of Concrete / 1' of subgrade
					CL	SILTY CLAY: light brown, moist, moderate plasticity, stiff
			2			
			4			
5,6,8	0		6			
			8		ML	SANDY SILT with clay: light brown, moist, low plasticity, fine- to coarse-grained sand, trace fine gravel, very stiff
			10			
6,14,13	160		12			
			14			
			16			
5,15,19	1		18			
			20			
5,11,20	0					
						End of boring at 21.5'
						No ground water encountered.
						Backfilled with neat cement.

ALTON GEOSCIENCE
LOG OF EXPLORATORY BORINGS

PROJECT NO. 30-483 DATE DRILLED 3-20-91
CLIENT Exxon
LOCATION 3450 35th, Oakland
LOGGED BY JD APPROVED BY

BORING NO. B-7
WELL NO.

FIELD LOCATION OF BORING

Pump Island

SURFACE ELE. _____ DATUM _____

DRILLING METHOD 4" H.S.A. HOLE DIAMETER
SAMPLER TYPE 2" S.S.
CASING INSTALLATION DATA N/A
DRILLER West Hazmat

WATER LEVEL										
DATE										
TIME										

BLOW COUNTS	PID/OVA READING	WELL CONSTRUCTION	DEPTH	SAMPLE	USCS CLASSIFICATION	DESCRIPTION
			0			6" of Concrete / 1' of subgrade
					CL	SILTY CLAY with sand: light brown, moist, low plasticity, fine- to coarse-grained sand, very stiff
			2			
			4			
6,7,13	0		6			
					ML	SANDY SILT with clay: light brown, moist, low plasticity, fine- to coarse-grained sand, trace fine gravel, hard
			8			
			10			
10,22,25	51					
			12			End of boring at 11.5'
						No ground water encountered
						Backfilled with neat cement

ALTON GEOSCIENCE
LOG OF EXPLORATORY BORINGS

PROJECT NO. 30-483 DATE DRILLED 3-30-91
CLIENT Exxon
LOCATION 3450 35th, Oakland
LOGGED BY JD APPROVED BY

BORING NO. B-8
WELL NO.

FIELD LOCATION OF BORING

Pump Island

SURFACE ELE. _____ DATUM _____

DRILLING METHOD 4" H.S.A. HOLE DIAMETER
SAMPLER TYPE 2" S.S.
CASING INSTALLATION DATA N/A
DRILLER West Hazmat

WATER LEVEL						
DATE						
TIME						

BLOW COUNTS	PID/OVA READING	WELL CONSTRUCTION	DEPTH	SAMPLE	USCS CLASSIFICATION	DESCRIPTION
			0			6" of Concrete / 1' of subgrade
					CL	SILTY CLAY with sand : dark brown, moist, low plasticity, fine - to coarse - grained sand, stiff
			2			
			4			color change : light brown
4,4,6	0		6			
			8			
			10			
11,21,22	9					hard
			12			End of boring at 11.5'
						No ground water encountered
						Backfilled with neat cement

ALTON GEOSCIENCE
LOG OF EXPLORATORY BORINGS

PROJECT NO. 30-483 DATE DRILLED 3-20-91 BORING NO. B-10
CLIENT Exxon WELL NO.
LOCATION 3450 35th, Oakland
LOGGED BY JD APPROVED BY

FIELD LOCATION OF BORING

Waste Oil Tank

SURFACE ELE. _____ DATUM _____

DRILLING METHOD 4" H.S.A. HOLE DIAMETER
SAMPLER TYPE 2" S.S.
CASING INSTALLATION DATA N/A
DRILLER West Hazmat

	BLOW COUNTS	PID/OVA READING	WELL CONSTRUCTION	DEPTH	SAMPLE	USCS CLASSIFICATION	DESCRIPTION
WATER LEVEL							
DATE							
TIME							
				0			6" of Concrete / 1' of subgrade
						CL	SILTY CLAY with sand: dark brown, moist, low plasticity, fine- to medium-grained sand, stiff
				2			
				4			
	4,4,8	0		6			
				8			
				10			
	5,13,24	4					hard
				12			
				14			with trace fine gravel, angular
	4,15,17	0		16			
							End of boring at 16.5'
							No ground water encountered
							Backfilled with neat cement.

ALTON GEOSCIENCE LOG OF EXPLORATORY BORINGS

PROJECT NO. 30-483 DATE DRILLED 3-20-91
CLIENT Exxon
LOCATION 3450 35th, Oakland
LOGGED BY JD APPROVED BY

BORING NO. B-9
WELL NO.

FIELD LOCATION OF BORING

Waste Oil Tank

SURFACE ELE. ____ DATUM ____

DRILLING METHOD 4" H.S.A. HOLE DIAMETER ____
SAMPLER TYPE 2" S.S.
CASING INSTALLATION DATA N/A
DRILLER West Hazmat

WATER LEVEL						
DATE						
TIME						

BLOW COUNTS	PID/OVA READING	WELL CONSTRUCTION	DEPTH	SAMPLE	USCS CLASSIFICATION	DESCRIPTION
			0			6" of Concrete / 1' of subgrade
					CL	SILTY CLAY with sand: dark brown, moist, low plasticity, fine- to medium-grained sand, very stiff
			2			
			4			
8,11,19	0		6			
			8			
			10			
7,12,20	9					hard
			12			
			14			with trace fine gravel, angular
10,20,42	0		16			
						End of boring at 16.5'
						No ground water encountered.
						Backfilled with neat cement.

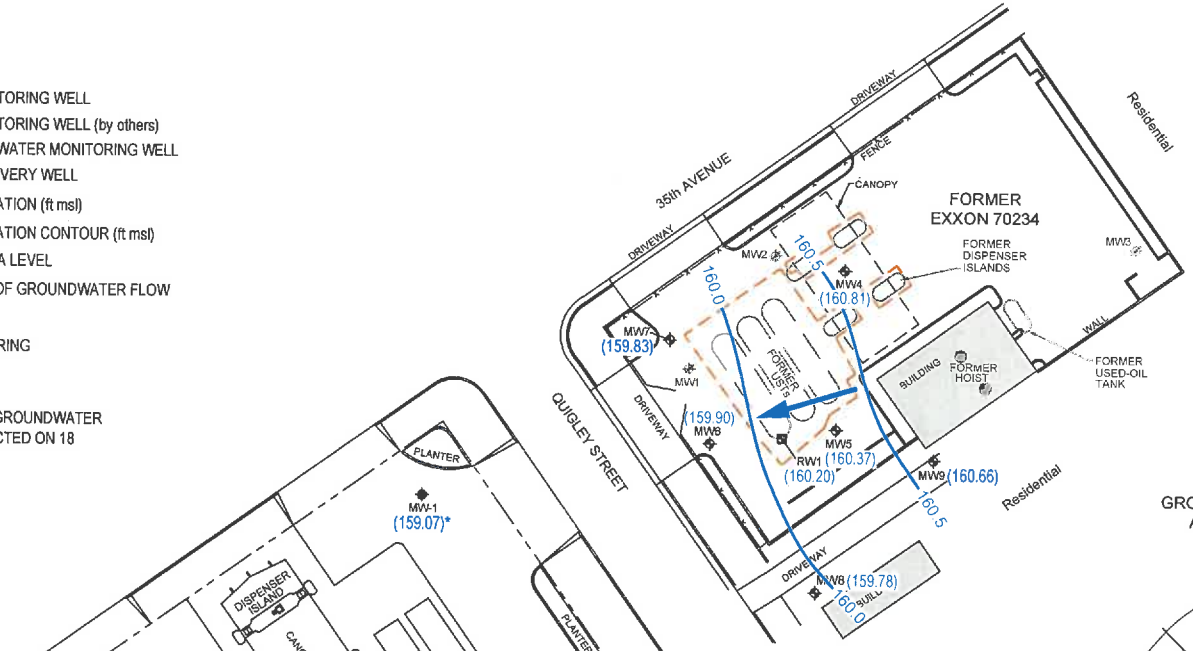
ATTACHMENT B-4

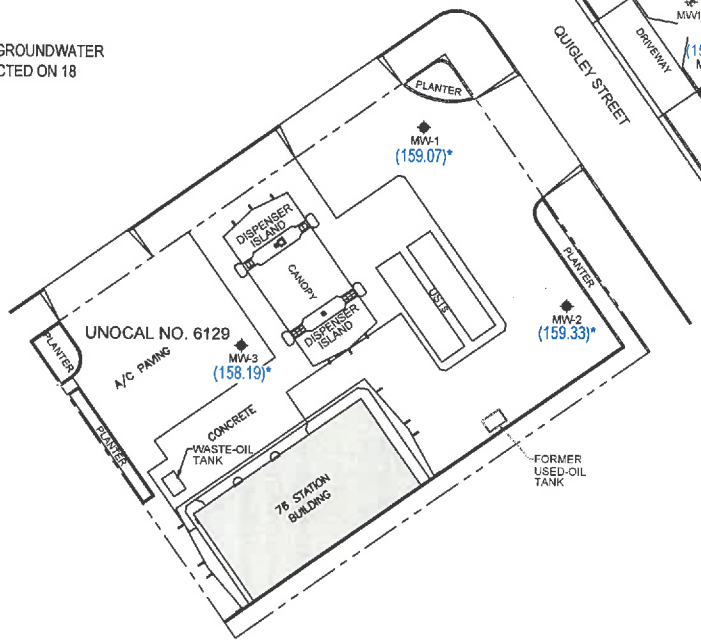
Groundwater Data

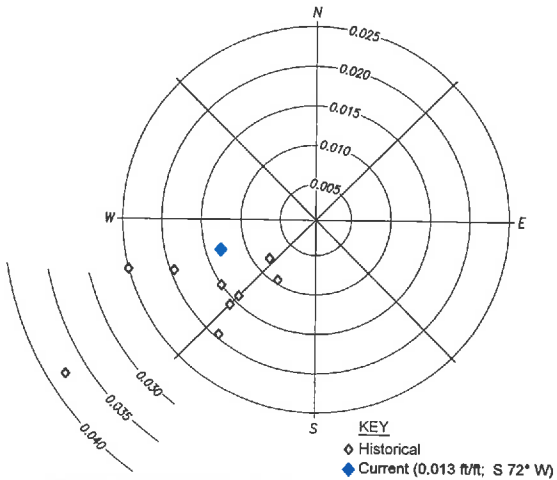
LEGEND:

- EXCAVATED AREA
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (by others)
- DESTROYED GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- (160.81) GROUNDWATER ELEVATION (ft msl)
- 160.0 GROUNDWATER ELEVATION CONTOUR (ft msl)
- ft msl FEET ABOVE MEAN SEA LEVEL
- GENERAL DIRECTION OF GROUNDWATER FLOW
- NS NOT SAMPLED
- * NOT USED IN CONTOURING

NOTES:
1. UNOCAL NO. 6129 GROUNDWATER SAMPLING CONDUCTED ON 18 OCTOBER 2017.



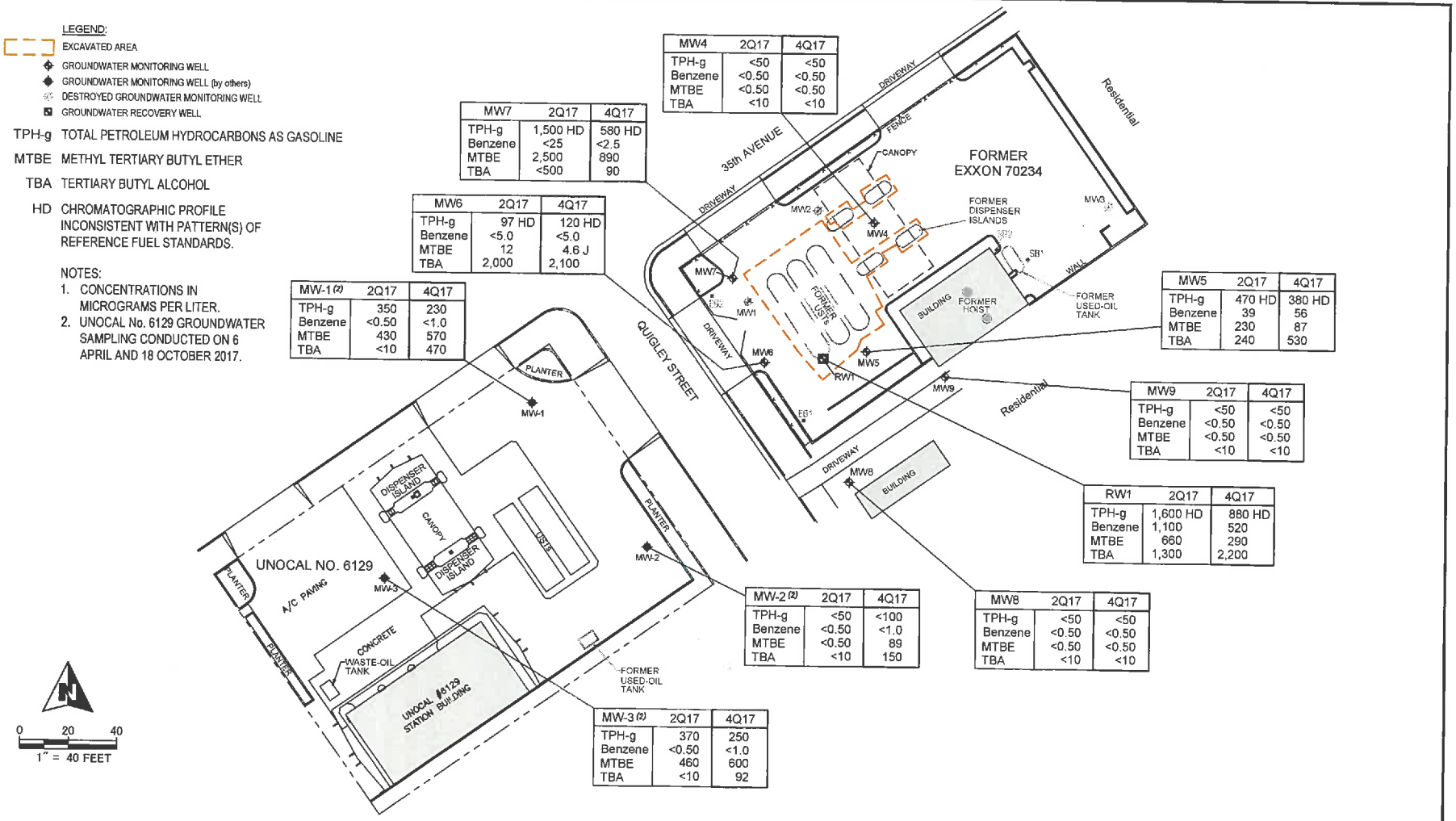




0 20 40
1" = 40 FEET

17-070234-UP	EXXONMOBIL OIL CORPORATION	
	GROUNDWATER ELEVATION CONTOUR MAP	
DR: RW	1 NOVEMBER 2017	
DR: AJW	FORMER EXXON SERVICE STATION 70234	FIGURE: 3
CK:	3450 35th AVENUE	
FR:	OAKLAND, CALIFORNIA	

ETIC ENGINEERING CONSTRUCT
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523
(925) 602-4710
eticeng.com



17-070234-UP	EXXONMOBIL OIL CORPORATION
DR: RW	GROUNDWATER ANALYTICAL DATA
DR: AJW	27 APRIL AND 1 NOVEMBER 2017
CK:	FORMER EXXON SERVICE STATION 70234
FR:	3450 35th AVENUE
	OAKLAND, CALIFORNIA

ETIC CONSULT ENGINEER CONSTRUCT
250 W. COLORADO BLVD. SUITE 110 ARCADIA, CA 91007 (626) 432-5999

FIGURE: 6

TABLE 4 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW1	SCREEN INTERVAL (feet bgs) 25-45												
MW1	07/15/92	---	Well installed.										
MW1	07/17/92	192.00	33.02	158.98	0.00	67	6.6	6.9	2.0	4.5	---	17	---
MW1	10/22/92	192.00	34.07	157.93	0.00	<50	2.9	<0.5	<0.5	<0.5	---	16	---
MW1	02/04/93	192.00	29.43	162.57	0.00	<50	0.8	<0.5	<0.5	<0.5	---	4	---
MW1	05/03/93	192.00	29.72	162.28	0.00	71	2.8	7.2	2.2	22	---	40	---
MW1	07/30/93	192.00	32.95	159.05	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	5	---
MW1	10/19/93	192.00	34.34	157.66	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	12	---
MW1	02/23/94	192.00	31.72	160.28	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	4	---
MW1	06/06/94	192.00	31.77	160.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW1	08/18/94	192.00	33.76	158.24	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	130	---
MW1	11/15/94	192.00	34.08	157.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3.0	<100
MW1	02/06/95	192.00	28.50	163.50	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW1	05/10/95	192.00	29.30	162.70	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW1	09/20/99	192.00	33.30	158.70	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<75	<50
MW1	Well destroyed in June 2000.												
MW2	SCREEN INTERVAL (feet bgs) 25-45												
MW2	07/15/92	---	Well installed.										
MW2	07/17/92	194.85	34.65	160.20	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW2	10/22/92	194.85	35.64	159.21	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	--	---
MW2	02/04/93	194.85	31.13	163.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW2	05/03/93	194.85	31.08	163.77	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	3	---
MW2	07/30/93	194.85	34.34	160.51	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	14	---
MW2	10/19/93	194.85	36.00	158.85	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW2	02/23/94	194.85	33.92	160.93	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW2	06/06/94	194.85	33.50	161.35	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW2	08/18/94	194.85	35.38	159.47	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3.0	---
MW2	11/15/94	194.85	35.93	158.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3.0	<100
MW2	02/06/95	194.85	30.38	164.47	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW2	05/10/95	194.85	30.77	164.08	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW2	09/20/99	194.85	35.15	159.70	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<75	<0.5
MW2	Well destroyed in June 2000.												
MW3	SCREEN INTERVAL (feet bgs) 25-45												
MW3	07/15/92	---	Well installed.										

TABLE 4 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date		Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW3	07/17/92		196.90	37.24	159.66	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	50	---
MW3	10/22/92		196.90	35.95	160.95	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	9	---
MW3	02/04/93		196.90	29.85	167.05	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW3	05/03/93		196.90	29.87	167.03	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	3	---
MW3	07/30/93		196.90	33.85	163.05	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	22	---
MW3	10/19/93		196.90	35.89	161.01	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	12	---
MW3	02/23/94		196.90	32.88	164.02	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	25	---
MW3	06/06/94		196.90	32.40	164.50	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW3	08/18/94		196.90	35.07	161.83	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3.0	---
MW3	11/15/94		196.90	35.97	160.93	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3.0	<100
MW3	02/06/95		196.90	28.39	168.51	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW3	05/10/95		196.90	28.90	168.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW3	09/20/99		196.90	34.68	162.22	0.00	75.0	<0.5	11.5	1.8	18.0	1.87	<75	<0.5
MW3	Well destroyed in June 2000.													
MW4	SCREEN INTERVAL (feet bgs) 35-45													
MW4	03/02/09		---	Well installed.										
MW4	03/30/09		197.62	30.94	166.68	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	04/02/09		197.62	Well surveyed.										
MW4	05/28/09		197.62	32.00	165.62	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	08/31/09		197.62	35.43	162.19	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	12/11/09		197.62	35.01	162.61	0.00	<50	<0.50	0.83	<0.50	1.1	<0.50	---	---
MW4	05/07/10		197.62	29.11	168.51	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW4	11/01/10		197.62	34.95	162.67	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW4	05/27/11	a	197.62	30.65	166.97	0.00	---	---	---	---	---	---	---	---
MW4	11/23/11		197.62	33.49	164.13	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW4	05/24/12		197.62	30.02	167.60	0.00	58	0.84	4.4	0.64c	3.5	<0.50	---	---
MW4	10/31/12		197.62	35.14	162.48	0.00	110	5.3	45	4.2	21	<0.50	---	---
MW4	05/02/13	e	197.62	32.03	165.59	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	11/09/13		197.62	36.53	161.09	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	05/12/14	a	197.62	33.51	164.11	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	11/19/14	a	197.62	36.96	160.66	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	05/13/15	a	197.62	34.01	163.61	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	12/16/15	a	197.62	37.31	160.31	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	06/15/16	a	197.62	34.13	163.49	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	12/20/16	a	197.62	34.03	163.59	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---

TABLE 4 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date		Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW4	04/27/17	a	197.62	28.29	169.33	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	**11/01/17**	**a**	**197.62**	**36.81**	**160.81**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	---	---
MW5	SCREEN INTERVAL (feet bgs) 30-40													
MW5	03/06/09		---	Well installed.										
MW5	03/30/09		196.35	30.05	166.30	0.00	4,200	540	140	<12	310	1,900		
MW5	04/02/09		196.35	Well surveyed.									---	---
MW5	05/28/09		196.35	31.45	164.90	0.00	5,300	890	150	<25	140	3,600	---	---
MW5	08/31/09		196.35	34.70	161.65	0.00	5,800	550	<100	<100	<100	3,500	---	---
MW5	12/11/09		196.35	34.52	161.83	0.00	4,000b	230	<100	<100	<100	3,800	---	---
MW5	05/07/10		196.35	30.84	165.51	0.00	2,700b	73	5.3	3.6	6.5	1,700	---	---
MW5	11/01/10		196.35	33.93	162.42	0.00	2,400b	320	71	21	40	3,400	---	---
MW5	05/27/11	a	196.35	31.65	164.70	0.00	---	---	---	---	---	---	---	---
MW5	11/23/11		196.35	32.58	163.77	0.00	1,900b	72	2.7	3.1	8.1	3,200	---	---
MW5	05/24/12		196.35	30.26	166.09	0.00	2,900b	54	31	5.2	17	1,700	---	---
MW5	10/31/12		196.35	33.94	162.41	0.00	2,200b	220	72	8.7	47	2,700	---	---
MW5	05/02/13	c	196.35	31.33	165.02	0.00	2,200b	61	<0.50	3.8	7.9	1,300	---	---
MW5	11/09/13		196.35	35.69	160.66	0.00	1,300b	120	<5.0	<5.0	8.8	370	---	---
MW5	05/12/14	a	196.35	32.64	163.71	0.00	1,200	120	<5.0	<5.0	<5.0	490	---	---
MW5	11/19/14	a	196.35	36.05	160.30	0.00	1,400 HD	140	2.0 J	<2.5	4.7	120	---	---
MW5	05/13/15	a	196.35	33.31	163.04	0.00	1,100 HD	74	<2.5	<2.5	2.7	310	---	---
MW5	12/16/15	a	196.35	36.34	160.01	0.00	760	150	2.0 J	1.8 J	4.6	94	---	---
MW5	06/15/16	a	196.35	33.63	162.72	0.00	840 HD	150	1.4 J	1.8 J	4.1	300	---	---
MW5	12/20/16	a	196.35	32.8	163.55	0.00	1,000 HD	160	<5.0	<5.0	<5.0	230	---	---
MW5	04/27/17	a	196.35	27.54	168.81	0.00	470 HD	39	<5.0	<5.0	<5.0	230	---	---
MW5	**11/01/17**	**a**	**196.35**	**35.98**	**160.37**	**0.00**	**380 HD**	**56**	**<2.5**	**<2.5**	**1.4 JA**	**87**	---	---
MW6	SCREEN INTERVAL (feet bgs) 29-39													
MW6	03/09/09		---	Well installed.										
MW6	03/30/09		192.41	26.94	165.47	0.00	2,800	0.91	<0.50	<0.50	<0.50	4,800		
MW6	04/02/09		192.41	Well surveyed.									---	---
MW6	05/28/09		192.41	28.04	164.37	0.00	2,800	<100	<100	<100	<100	6,000	---	---
MW6	08/31/09		192.41	30.57	161.84	0.00	4,900	<100	<100	<100	<100	6,600	---	---
MW6	12/11/09		192.41	30.78	161.63	0.00	4,900b	<100	<100	<100	<100	6,200	---	---
MW6	05/07/10		192.41	25.42	166.99	0.00	2,900b	2.7	<0.50	0.74c	<1.0	3,700	---	---
MW6	11/01/10		192.41	30.68	161.73	0.00	850b	2.1	<0.50	<0.50	<1.0	6,100	---	---

TABLE 4 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date		Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW6	05/27/11	a	192.41	27.07	165.34	0.00	---	---	---	---	---	---	---	---
MW6	11/23/11		192.41	29.25	163.16	0.00	1,600b	<0.50	<0.50	<0.50	<1.0	6,400	---	---
MW6	05/24/12		192.41	26.36	166.05	0.00	2,000b	1.3c	9.7	0.97c	5.5	3,400	---	---
MW6	10/31/12		192.41	30.74	161.67	0.00	1,400b	3.8	28	2.2	11	5,400	---	---
MW6	05/02/13		192.41	27.91	164.50	0.00	1,900b	<0.50	<0.50	<0.50	<0.50	2,600	---	---
MW6	11/09/13		192.41	32.15	160.26	0.00	3,600b	<40	<40	<40	<40	4,800	---	---
MW6	05/12/14	a	192.41	29.28	163.13	0.00	190 HD	<5.0	<5.0	<5.0	<5.0	280	---	---
MW6	11/19/14	a	192.41	32.49	159.92	0.00	420 HD	<10	<10	<10	<10	530	---	---
MW6	05/13/15	a	192.41	29.81	162.60	0.00	200 HD	<10	<10	<10	<10	26	---	---
MW6	12/16/15	a	192.41	32.76	159.65	0.00	62 HD	<2.5	<2.5	<2.5	<2.5	36	---	---
MW6	06/15/16	a	192.41	30.01	162.40	0.00	120 HD	<0.50	<0.50	<0.50	<0.50	13	---	---
MW6	12/20/16	a	192.41	29.29	163.12	0.00	71 HD	<0.50	<0.50	<0.50	<0.50	7	---	---
MW6	04/27/17	a	192.41	24.46	167.95	0.00	97 HD	<5.0	<5.0	<5.0	<5.0	12	---	---
MW6	**11/01/17**	**a**	**192.41**	**32.51**	**159.90**	**0.00**	**120 HD**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**4.6 J**	---	---
MW7	SCREEN INTERVAL (feet bgs) 30-40													
MW7	03/09/09		---	Well installed.									---	---
MW7	03/30/09		194.34	29.15	165.19	0.00	55	<0.50	<0.50	<0.50	<0.50	66	---	---
MW7	04/02/09		194.34	Well surveyed.										
MW7	05/28/09		194.34	30.16	164.18	0.00	50	<1.0	<1.0	<1.0	<1.0	67	---	---
MW7	08/31/09		194.34	33.31	161.03	0.00	<50	<0.50	0.60	<0.50	<0.50	12	---	---
MW7	12/11/09		194.34	32.71	161.63	0.00	<50	0.78	1.7	0.62	2.4	31	---	---
MW7	05/07/10		194.34	27.54	166.80	0.00	510b	<0.50	<0.50	<0.50	<1.0	700	---	---
MW7	11/01/10		194.34	32.82	161.52	0.00	68b	<0.50	<0.50	<0.50	<1.0	140	---	---
MW7	05/27/11	a	194.34	28.85	165.49	0.00	---	---	---	---	---	---	---	---
MW7	11/23/11		194.34	31.39	162.95	0.00	190b	<0.50	<0.50	<0.50	<1.0	300	---	---
MW7	05/24/12	a	194.34	28.31	166.03	0.00	---	---	---	---	---	---	---	---
MW7	10/31/12		194.34	32.86	161.48	0.00	230b	2.9	21	1.8	9.2	290	---	---
MW7	05/02/13		194.34	29.93	164.41	0.00	570b	<0.50	<0.50	<0.50	<0.50	790	---	---
MW7	11/09/13		194.34	34.23	160.11	0.00	370b	<10	<10	<10	<10	460	---	---
MW7	05/12/14	a	194.34	31.33	163.01	0.00	310 HD	<10	<10	<10	<10	980	---	---
MW7	11/19/14	a	194.34	34.31	160.03	0.00	400 HD	<12	<12	<12	<12	660	---	---
MW7	05/13/15	a	194.34	31.65	162.69	0.00	660 HD	<20	<20	<20	<20	870	---	---
MW7	12/16/15	a	194.34	34.62	159.72	0.00	110 HD	<4.0	<4.0	<4.0	<4.0	220	---	---
MW7	06/15/16	a	194.34	31.96	162.38	0.00	740 HD	<4.0	<4.0	<4.0	<4.0	1,200	---	---
MW7	12/20/16	a	194.34	31.67	162.67	0.00	1,200 HD	<25	<25	<25	<25	1,500	---	---

TABLE 4 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date		Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW7	04/27/17	a	194.34	26.64	167.70	0.00	1,500 HD	<25	<25	<25	<25	2,500	---	---
MW7	**11/01/17**	**a**	**194.34**	**34.51**	**159.83**	**0.00**	**580 HD**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	**890**	---	---
MW8	SCREEN INTERVAL (feet bgs) 30-40													
MW8	03/04/09		---	Well installed.										
MW8	03/30/09		192.96	27.35	165.61	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	04/02/09		192.96	Well surveyed.									---	---
MW8	05/28/09		192.96	28.72	164.24	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	08/31/09		192.96	31.93	161.03	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	12/11/09		192.96	31.24	161.72	0.00	<50	0.74	1.6	0.59	2.3	<0.50	---	---
MW8	05/07/10		192.96	25.68	167.28	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW8	11/01/10		192.96	31.18	161.78	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW8	05/27/11		192.96	27.55	165.41	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW8	11/23/11		192.96	29.74	163.22	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW8	05/24/12		192.96	26.93	166.03	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW8	10/31/12		192.96	31.35	161.61	0.00	75	2.5	19	1.7	8.7	<0.50	---	---
MW8	05/02/13		192.96	28.44	164.52	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	11/09/13		192.96	32.89	160.07	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	05/12/14	a	192.96	30.27	162.69	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	11/19/14	a	192.96	33.16	159.80	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	05/13/15	a	192.96	30.35	162.61	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	12/16/15	a	192.96	33.41	159.55	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	06/15/16	a	192.96	30.68	162.28	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	12/20/16	a	192.96	29.38	163.58	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	04/27/17	a	192.96	24.74	168.22	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	**11/01/17**	**a**	**192.96**	**33.18**	**159.78**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	---	---
MW9	SCREEN INTERVAL (feet bgs) 30-40													
MW9	03/05/09		---	Well installed.										
MW9	03/30/09		195.16	28.31	166.85	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	04/02/09		195.16	Well surveyed.									---	---
MW9	05/28/09		195.16	29.69	165.47	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	08/31/09		195.16	33.20	161.96	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	12/11/09		195.16	32.62	162.54	0.00	<50	0.73	1.7	0.54	2.2	<0.50	---	---
MW9	05/07/10		195.16	26.59	168.57	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW9	11/01/10		195.16	32.45	162.71	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---

TABLE 4 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date		Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW9	05/27/11		195.16	29.62	165.54	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW9	11/23/11		195.16	30.56	164.60	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW9	05/24/12		195.16	27.94	167.22	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW9	10/31/12		195.16	32.66	162.50	0.00	140	6.9	38	2.7	13	<0.50	---	---
MW9	05/02/13		195.16	29.58	165.58	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	11/09/13		195.16	Well inaccessible.										
MW9	05/12/14	b	195.16	Well inaccessible.										
MW9	11/19/14	a	195.16	34.60	160.56	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	05/13/15	a	195.16	31.66	163.50	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	12/16/15	a	195.16	34.84	160.32	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	06/15/16	a	195.16	31.98	163.18	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	12/20/16	b	195.16	Well inaccessible.										
MW9	04/27/17	a	195.16	25.79	169.37	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	**11/01/17**	**a**	**195.16**	**34.50**	**160.66**	**0.00**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**---**	**---**
RW1	SCREEN INTERVAL (feet bgs) 29-39.5													
RW1	12/22/11		---	Well installed.										
RW1	12/30/11		195.15	Well surveyed.										
RW1	05/24/12		195.15	28.55	166.60	0.00	5,500b	920	5.9c	51	14	2,500	---	---
RW1	10/31/12	a	195.15	---	---	---	---	---	---	---	---	---	---	---
RW1	05/02/13	c	195.15	30.27	164.88	0.00	4,300b	1,200	<2.5	41	14	2,300	---	---
RW1	11/09/13		195.15	34.64	160.51	0.00	810b	210	<10	<10	<10	520	---	---
RW1	05/12/14	a	195.15	31.54	163.61	0.00	830 HD	450	<10	13	<10	490	---	---
RW1	11/19/14	a	195.15	34.94	160.21	0.00	910 HD	450	<10	<10	<10	590	---	---
RW1	05/13/15	a	195.15	32.26	162.89	0.00	1,300 HD	560	<5.0	8.1	2.4 JA	480	---	---
RW1	12/16/15	a	195.15	35.22	159.93	0.00	310 HD	150	<5.0	<5.0	<5.0	110	---	---
RW1	06/15/16	a	195.15	32.4	162.75	0.00	1,300	850	3.6 J	17	5.5	450	---	---
RW1	12/20/16	a	195.15	31.54	163.61	0.00	2,400 HD	1,100	<20	18 J	<20	540	---	---
RW1	04/27/17	a	195.15	26.62	168.53	0.00	1,600 HD	1,100	<20	41	21	660	---	---
RW1	**11/01/17**	**a**	**195.15**	**34.95**	**160.20**	**0.00**	**880 HD**	**520**	**5.2 J**	**11 J**	**9.8 JA**	**290**	**---**	**---**
Grab Groundwater Samples														
Pit Water	06/14/02		---	---	---	---	5,600	140	840	100	530	12,000	---	---
UST Pit	06/19/02		---	---	---	---	680	2.7	36	18	130	640	---	---

TABLE 4 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
W-38-B11	11/14/07	---	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
W-15-B12	11/13/07	---	---	---	---	8,400	67	<5.0	140	150	78	---	---
W-40-B13	11/12/07	---	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	0.53	---	---
W-15-B14	11/13/07	---	---	---	---	2,500	1.7	3.0	26	13	16	---	---
W-38-B15	11/15/07	---	---	---	---	18,000	3,400	2,500	330	2,000	12,000	---	---
W-40-B16	11/15/07	---	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	7.7	---	---
W-37-B17	11/13/07	---	---	---	---	630	1.8	<0.50	4.1	1.4	2,200	---	---
W-38-B18	11/12/07	---	---	---	---	4,300	52	<12	56	96	1,400	---	---
W-35-B19	03/03/09	---	---	---	---	4,400	<0.50	<0.50	<0.50	<1.0	7,100	---	---
W-35-B20	03/03/09	---	---	---	---	640	<0.50	<0.50	<0.50	<1.0	440	---	---
W-35-B21	03/03/09	---	---	---	---	<50	<0.50	<0.50	<0.50	<1.0	1.4	---	---

TOC Top of casing.
LPH Liquid-phase hydrocarbons.
TPH-g Total Petroleum Hydrocarbons as gasoline.
MTBE Methyl tertiary butyl ether.

bgs Below ground surface.
µg/L Micrograms per liter.
-- Not sampled or not analyzed.

Total Pb Total lead analyzed using EPA Method 6010.
Organic Pb Organic lead analyzed using CA DHS LUFT method.

a Well purged prior to sampling.
b Well inaccessible.
c Well sampled the following day.

HD Chromat. profile inconsistent with the ref. fuel stnds.
J Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA Analyte positively identified but quantitation is an estimate.

Notes: Data prior to 1999 provided by EA Engineering, Science, and Technology. Data prior to 2013 provided by Cardno ERI.

TABLE 5 GROUNDWATER ANALYTICAL RESULTS FOR DETECTED VOCs,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date		Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	Naphthalene (µg/L)
MW1	7/17/1992 - 09/20/1999		Not analyzed for these analytes.								
MW1	Well destroyed in June 2000.										
MW2	7/17/1992 - 09/20/1999		Not analyzed for these analytes.								
MW2	Well destroyed in June 2000.										
MW3	7/17/1992 - 09/20/1999		Not analyzed for these analytes.								
MW3	Well destroyed in June 2000.										
MW4	03/30/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	05/28/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	08/31/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	12/11/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	05/07/10		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	11/01/10		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	05/27/11	b	---	---	---	---	---	---	---	---	---
MW4	11/23/11		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	05/24/12		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	10/31/12		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	05/03/13		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	11/09/13		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	05/12/14		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	<1.0
MW4	11/19/14		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	05/13/15		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	12/16/15		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	06/15/16		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	12/20/16		--	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	04/27/17		--	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	**11/01/17**		**--**	**<0.50**	**<0.50**	**<0.50**	**<10**	**<0.50**	**<0.50**	**---**	**---**
MW5	03/30/09		---	<12	17	<12	450	<12	<12	---	---
MW5	05/28/09		---	<25	<25	<25	530	<25	<25	---	---
MW5	08/31/09		---	<100	<100	<100	<1,000	<100	<100	---	---
MW5	12/11/09		---	<100	<100	<100	2,000	<100	<100	---	---
MW5	05/07/10		---	<25	<25	<25	400	<25	<25	---	---
MW5	11/01/10		---	<50	<50	<50	1,500	<50	<50	---	---
MW5	05/27/11	b	---	---	---	---	---	---	---	---	---
MW5	11/23/11		---	<50	<50	<50	<500	<50	<50	---	---
MW5	05/24/12		---	<50	<50	<50	1,400	<50	<50	---	---
MW5	10/31/12		---	<50	<50	<50	730	<50	<50	---	---
MW5	05/03/13		---	<20	<20	<20	590	<20	<20	---	---
MW5	11/09/13		---	<5.0	<5.0	<5.0	1,100	<5.0	<5.0	---	---
MW5	05/12/14		---	<5.0	<5.0	<5.0	1,000	<5.0	<5.0	---	<10
MW5	11/19/14		---	<2.5	<2.5	<2.5	600	<2.5	<2.5	---	---
MW5	05/13/15		---	<2.5	<2.5	<2.5	950	<2.5	<2.5	---	---
MW5	12/16/15		---	<2.5	<2.5	<2.5	790	<2.5	<2.5	---	---
MW5	06/15/16		---	<2.5	<2.5	<2.5	720	<2.5	<2.5	---	---
MW5	12/20/16		---	<5.0	4.7 J	<5.0	680	<5.0	<5.0	---	---
MW5	04/27/17		--	<5.0	<5.0	<5.0	240	<5.0	<5.0	---	---
MW5	**11/01/17**		**--**	**<2.5**	**1.8 J**	**<2.5**	**530**	**<2.5**	**<2.5**	**---**	**---**
MW6	03/30/09		---	<0.50	<0.50	1.3	410	<0.50	0.82	---	---
MW6	05/28/09		---	<100	<100	<100	<1,000	<100	<100	---	---
MW6	08/31/09		---	<100	<100	<100	1,100	<100	<100	---	---
MW6	12/11/09		---	<100	<100	<100	2,600	<100	<100	---	---
MW6	05/07/10		---	<100	<100	<100	<1,000	<100	<100	---	---

TABLE 5 GROUNDWATER ANALYTICAL RESULTS FOR DETECTED VOCs,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date		Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	Naphthalene (µg/L)
MW6	11/01/10		---	<50	<50	<50	2,400	<50	<50	---	---
MW6	05/27/11	b	---	---	---	---	---	---	---	---	---
MW6	11/23/11		---	<100	<100	<100	<1,000	<100	<100	---	---
MW6	05/24/12		---	<100	<100	<100	2,700	<100	<100	---	---
MW6	10/31/12		---	<100	<100	<100	<1,000	<100	<100	---	---
MW6	05/02/13		---	<40	<40	<40	570	<40	<40	---	---
MW6	11/09/13		---	<40	<40	<40	2,100	<40	<40	---	---
MW6	05/12/14		---	<5.0	<5.0	<5.0	1,700	<5.0	<5.0	---	<10
MW6	11/19/14		---	<10	<10	<10	2,100	<10	<10	---	---
MW6	05/13/15		---	<10	<10	<10	2,400	<10	<10	---	---
MW6	12/16/15		---	<2.5	<2.5	<2.5	530	<2.5	<2.5	---	---
MW6	06/15/16		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW6	12/20/16		---	<0.50	<0.50	<0.50	2,400	<0.50	<0.50	---	---
MW6	04/27/17		--	<5.0	<5.0	<5.0	2,000	<5.0	<5.0	---	---
MW6	**11/01/17**		**--**	**<5.0**	**<5.0**	**<5.0**	**2,100**	**<5.0**	**<5.0**	**---**	**---**
MW7	03/30/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW7	05/28/09		---	<1.0	<1.0	<1.0	<10	<1.0	<1.0	---	---
MW7	08/31/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW7	12/11/09		---	<0.50	<0.50	<0.50	12	<0.50	<0.50	---	---
MW7	05/07/10		---	<0.50	<0.50	<0.50	130	<0.50	<0.50	---	---
MW7	11/01/10		---	<2.5	<2.5	<2.5	27	<2.5	<2.5	---	---
MW7	05/27/11	b	---	---	---	---	---	---	---	---	---
MW7	11/23/11		---	<5.0	<5.0	<5.0	<50	<5.0	<5.0	---	---
MW7	05/24/12	b	---	---	---	---	---	---	---	---	---
MW7	10/31/12		---	<5.0	<5.0	<5.0	<50	<5.0	<5.0	---	---
MW7	05/02/13		---	<5.0	<5.0	<5.0	57	<5.0	<5.0	---	---
MW7	11/09/13		---	<10	<10	<10	<200	<10	<10	---	---
MW7	05/12/14		---	<10	<10	<10	<200	<10	<10	---	<20
MW7	11/19/14		---	<12	<12	<12	<250	<12	<12	---	---
MW7	05/13/15		---	<20	<20	<20	<400	<20	<20	---	---
MW7	12/16/15		---	<4.0	<4.0	<4.0	<80	<4.0	<4.0	---	---
MW7	06/15/16		---	<4.0	<4.0	<4.0	380	<4.0	<4.0	---	---
MW7	12/20/16		---	<25	<25	<25	210 J	<25	<25	---	---
MW7	04/27/17		--	<25	<25	<25	<500	<25	<25	---	---
MW7	**11/01/17**		**--**	**<2.5**	**<2.5**	**<2.5**	**90**	**<2.5**	**<2.5**	---	---
MW8	03/30/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	05/28/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	08/31/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	12/11/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	05/07/10		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	11/01/10		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	05/27/11		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	11/23/11		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	05/24/12		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	10/31/12		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	05/02/13		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	11/09/13		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW8	05/12/14		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	<1.0
MW8	11/19/14		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW8	05/13/15		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW8	12/16/15		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW8	06/15/16		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW8	12/20/16		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW8	04/27/17		--	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---

TABLE 5 GROUNDWATER ANALYTICAL RESULTS FOR DETECTED VOCs,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date		Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	Naphthalene (µg/L)
MW8	**11/01/17**		--	**<0.50**	**<0.50**	**<0.50**	**<10**	**<0.50**	**<0.50**	---	---
MW9	03/30/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	05/28/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	08/31/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	12/11/09		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	05/07/10		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	11/01/10		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	05/27/11		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	11/23/11		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	05/24/12		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	10/31/12		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	05/02/13		---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	11/09/13	b	---	Well inaccessible.							
MW9	11/19/14		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW9	05/13/15		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW9	12/16/15		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW9	06/15/16		---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW9	12/20/16	b	---	Well inaccessible.							
MW9	04/27/17		--	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW9	**11/01/17**		--	**<0.50**	**<0.50**	**<0.50**	**<10**	**<0.50**	**<0.50**	---	---
RW1	05/24/12		---	<50	<50	<50	1,900	<50	<50	---	---
RW1	10/31/12	b	---	---	---	---	---	---	---	---	---
RW1	05/03/13		---	<40	<40	<40	880	<40	<40	---	---
RW1	11/09/13		---	<10	<10	<10	1,100	<10	<10	---	---
RW1	05/12/14		---	<10	<10	<10	840	<10	<10	---	<20
RW1	11/19/14		---	<10	<10	<10	1,300	<10	<10	---	<20
RW1	05/13/15		---	<5.0	<5.0	<5.0	880	<5.0	<5.0	---	---
RW1	12/16/15		---	<5.0	<5.0	<5.0	1,300	<5.0	<5.0	---	---
RW1	06/15/16		---	<5.0	<5.0	<5.0	1,300	<5.0	<5.0	---	---
RW1	12/20/16		---	<20	32	<20	1,600	<20	<20	---	---
RW1	04/27/17		--	<20	<20	<20	1,300	<20	<20	---	---
RW1	**11/01/17**		--	**<12**	**14**	**<12**	**2,200**	**<12**	**<12**	---	---
Grab Groundwater Samples											
Pit Water	06/14/02		11.5a	---	---	---	---	---	---	---	---
UST Pit	06/19/02		13.5a	---	---	---	---	---	---	---	---
W-38-B11	11/14/07		38	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<50	---
W-15-B12	11/13/07		15	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<500	---
W-40-B13	11/12/07		40	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<50	---
W-15-B14	11/13/07		15	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<100	---
W-38-B15	11/15/07		38	<25	<25	<25	1,900	<25	<25	<2,500	---
W-40-B16	11/15/07		40	<0.50	<0.50	<0.50	<10	<0.50	<0.50	85	---
W-37-B17	11/13/07		37	<0.50	<0.50	<0.50	58	<0.50	<0.50	<50	---
W-38-B18	11/12/07		38	<12	<12	<12	<250	<12	<12	<1,200	---
W-35-B19	03/03/09		35	<50	<50	<50	<500	<50	<50	<5,000	---
W-35-B20	03/03/09		35	<0.50	<0.50	<0.50	12	<0.50	<0.50	<50	---
W-35-B21	03/03/09		35	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<50	---

EDB 1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA 1,2-Dichloroethane analyzed using EPA Method 8260B.

TABLE 5 GROUNDWATER ANALYTICAL RESULTS FOR DETECTED VOCs,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	Naphthalene (µg/L)

TBA	Tertiary butyl alcohol analyzed using EPA Method 8260B.
TAME	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
ETBE	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	Di-isopropyl ether analyzed using EPA Method 8260B.
Ethanol	Ethanol analyzed using EPA Method 8260B.
µg/L	Micrograms per liter.
---	Not sampled/Not analyzed/Not measured/Not applicable.
a	Approximate depth to groundwater surface at time of sampling.
b	Well inaccessible.

Notes: Data prior to 1999 provided by EA Engineering, Science, and Technology, data prior to 2013 provided by Cardno ERI.

B	Analyte was present in the associated method blank.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
QO	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.

TABLE 6 NATURAL ATTENUATION PARAMETER ANALYTICAL RESULTS,
FORMER MOBIL SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

			Laboratory Parameters					Field Parameters					
Well Number	Date		Alkalinity as CaCO3 (mg/L)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Methane (µg/L)	Temperature (Celsius)	pH	EC (µS/cm)	Total Dissolved Solids (mg/L)	ORP (mV)	DO (mg/L)
MW4	05/13/15	a	172	<0.100	68	2.4	0.173 J	18.1	7.12	584.1	645.6	--	5.11
MW4	12/16/15	a	169	<0.100	65	2.5	0.358 J	18.4	7.18	540.2	365.7	--	--
MW4	06/15/16	a	170	<0.100	63	2.2	0.0470 J	18.8	6.97	545.9	371.6	--	--
MW4	12/20/16	a	175	<0.100	63	2.5	0.0650 J	18.2	7.05	534.7	366.4	--	--
MW4	04/27/17	a	172	<0.100	63	2.6	0.0530 J	19.3	7.23	546.6	373.6	--	--
MW4	**11/01/17**	**a**	**163**	**<0.100**	**64**	**2.8**	**0.0500 J**	**19.0**	**6.88**	**553.1**	**378.9**	**--**	**--**
MW5	05/13/15	a	324	2.15	32	0.76	28.1	17.8	7.03	870.1	593.8	--	3.98
MW5	12/16/15	a	352	2.69	28	0.36	25.0	17.5	6.66	839.2	584.1	--	--
MW5	06/15/16	a	356	1.97	30	0.59	28.1	18.5	6.45	861.8	599.3	--	--
MW5	12/20/16	a	382	2.14	26	0.22	37.7	18.2	6.58	877.6	589.7	--	--
MW5	04/27/17	a	308	2.80	43	0.54	53.4	18.5	6.59	735.0	507.6	--	--
MW5	**11/01/17**	**a**	**336**	**1.54**	**29**	**0.29**	**35.1**	**18.0**	**6.31**	**729.0**	**503.4**	**--**	**--**
MW6	05/13/15	a	427	<0.100	42	0.35	5.09	18.0	7.00	945.4	660.1	--	4.32
MW6	12/16/15	a	484	<0.100	43	0.14	2.71	18.4	6.89	963.5	669.3	--	--
MW6	06/15/16	a	471	<0.100	38	0.26	7.05	19.4	6.65	972.4	681.4	--	--
MW6	12/20/16	a	501	<0.100	35	0.31	10.2	18.5	6.90	1,010	709.2	--	--
MW6	04/27/17	a	428	<0.100	36	0.43	7.10	19.3	7.04	911.1	634.8	--	--
MW6	**11/01/17**	**a**	**513**	**0.0713 J**	**35**	**0.22**	**7.90**	**18.7**	**6.50**	**1,003**	**702.9**	**--**	**--**
MW7	05/13/15	a	254	<0.100	61	1.6	1.67	18.5	7.16	719.1	510.2	--	4.34
MW7	12/16/15	a	222	<0.100	64	1.8	8.51	19.4	6.72	637.0	437.9	--	--
MW7	06/15/16	a	270	<0.100	58	1.3	7.54	19.8	6.71	726.0	499.3	--	--
MW7	12/20/16	a	276	<0.100	63	1.5	3.72	19.5	6.74	727.0	500.4	--	--
MW7	04/27/17	a	342	<0.100	56	1.3	0.796 J	19.9	6.95	830.3	575.4	--	--
MW7	**11/01/17**	**a**	**251**	**<0.100**	**60**	**2.0**	**2.66**	**19.5**	**6.60**	**656.1**	**450.5**	**--**	**--**
MW8	05/13/15	a	208	<0.100	42	7.3	0.983 J	17.7	7.16	595.3	410.1	--	5.07
MW8	12/16/15	a	229	<0.100	42	8.3	0.182	17.5	7.09	769.7	533.4	--	--
MW8	06/15/16	a	198	<0.100	38	7.5	0.152 J	18.0	6.74	573.2	396.4	--	--
MW8	12/20/16	a	214	<0.100	45	9.2	0.0710 J	17.7	7.16	614.4	425.5	--	--

TABLE 6 NATURAL ATTENUATION PARAMETER ANALYTICAL RESULTS,
FORMER MOBIL SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

			Laboratory Parameters					Field Parameters					
Well Number	Date		Alkalinity as CaCO3 (mg/L)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Methane (µg/L)	Temperature (Celsius)	pH	EC (µS/cm)	Total Dissolved Solids (mg/L)	ORP (mV)	DO (mg/L)
MW8	04/27/17	a	158	<0.100	34	8.2	0.241 J	18.0	7.54	528.1	359.0	--	--
MW8	**11/01/17**	**a**	**248**	**<0.100**	**46**	**9.3**	**0.183 J**	**17.7**	**7.29**	**762.2**	**528.2**	**--**	**--**
MW9	05/13/15	a	252	<0.100	41	6.0	0.0530	17.9	7.09	835.3	582.4	--	4.79
MW9	12/16/15	a	258	<0.100	39	5.6	0.0510	17.4	6.89	876.9	605.8	--	--
MW9	06/15/16	a	257	<0.100	39	6.3	0.0610 J	18.5	7.02	824.2	572.3	--	--
MW9	12/20/16	b	--	--	--	--	--	--	--	--	--	--	--
MW9	04/27/17	a	250	<0.100	42	7.0	<1.00	18.6	7.45	804.5	557.9	--	--
MW9	**11/01/17**	**a**	**254**	**<0.100**	**38**	**6.2**	**0.0400 J**	**17.9**	**6.82**	**751.3**	**519.9**	**--**	**--**
RW1	05/13/15	a	359	<0.100	43	0.77	1.85	18.4	7.05	849.1	590.7	--	4.11
RW1	12/16/15	a	301	<0.100	40	0.85	1.62	17.4	6.98	819.0	569.2	--	--
RW1	06/15/16	a	379	<0.100	37	0.64	3.26	18.6	6.92	873.4	608.0	--	--
RW1	12/20/16	a	372	<0.100	38	0.67	6.73	18.0	7.02	895.9	625.1	--	--
RW1	04/27/17	a	427	<0.100	38	0.82	6.72	19.1	7.52	993.3	694.9	--	--
RW1	**11/01/17**	**a**	**385**	**<0.100**	**34**	**0.74**	**6.24**	**18.4**	**6.59**	**856.7**	**596.3**	**--**	**--**

DO	Dissolved oxygen.	mg/L	Milligrams per liter.
ORP	Oxidation/reduction potential.	mV	Millivolts.
EC	Conductivity.	--	Not sampled or not analyzed.
µS/cm	MicroSiemens per centimeter.	a	Well purged prior to sampling.
µg/L	Micrograms per liter.	b	Well inaccessible.
<0.100	Concentration not detected above reporting limit (e.g. Reporting limit is 0.100 µg/L).		

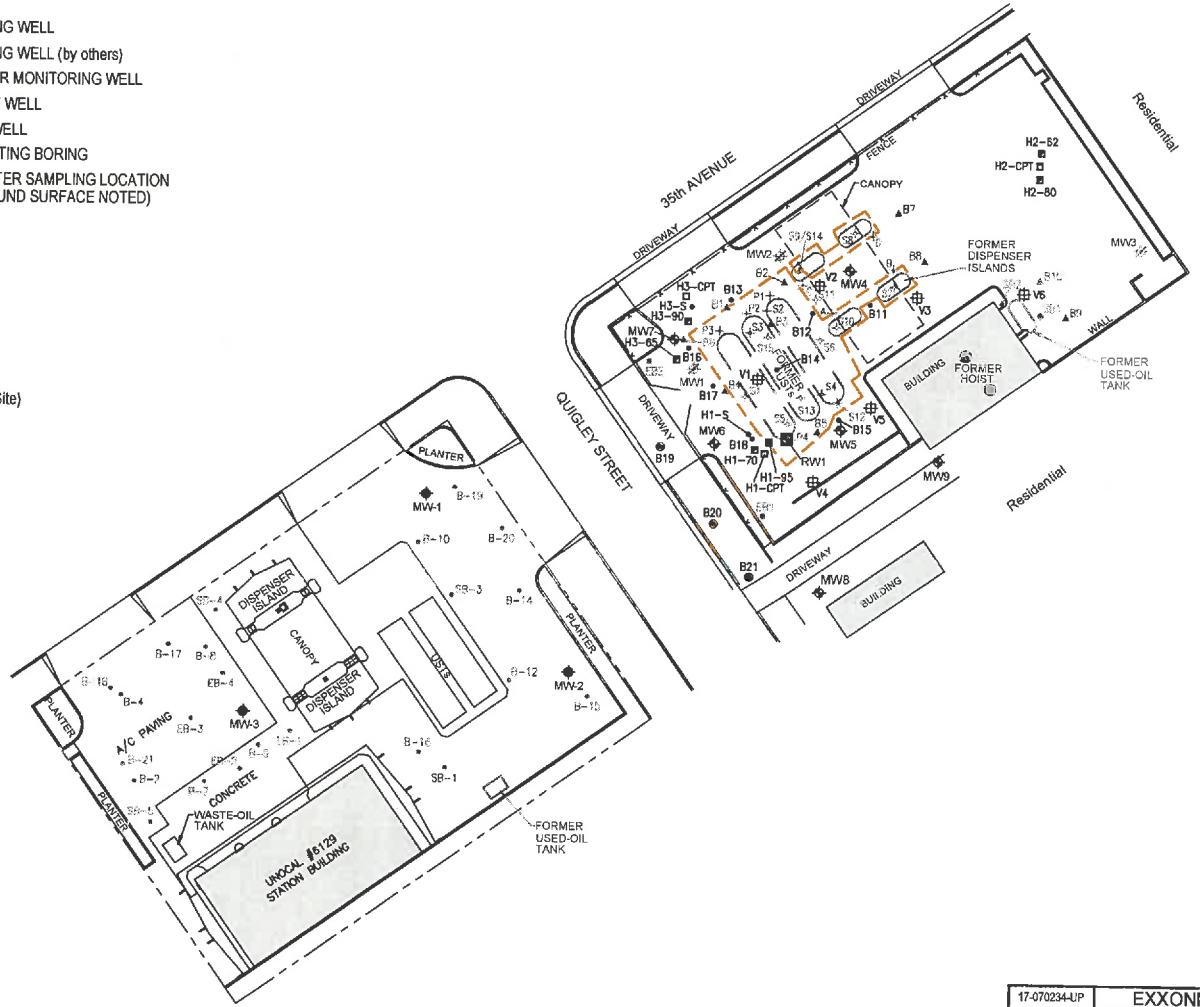
J Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

ATTACHMENT B-5

Soil Data

LEGEND:

- EXCAVATED AREA
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (by others)
- DESTROYED GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- V1 SOIL VAPOR MONITORING WELL
- H3–CPT CONE PENETROMETER TESTING BORING
- H3–65 HYDROPUNCH GROUNDWATER SAMPLING LOCATION (WITH DEPTH BELOW GROUND SURFACE NOTED)
- H3–S SOIL BORING
- SOIL BORING (GTI, 1986)
- SOIL BORING (HLA, 1988)
- SOIL BORING (Alton, 1991)
- SOIL SAMPLE (Alton, 1991)
- SOIL SAMPLE (TRC, 2002)
- SOIL BORING (ERI, 2007)
- SOIL BORING (ERI, 2009)
- SOIL BORING (Unocal #6129 Site)



0 20 40
APPROX. SCALE (feet)

17-070234-UP	EXXONMOBIL OIL CORPORATION
ON: TRW	SITE MAP SHOWING BORING AND WELL LOCATIONS
DR: AJW	FORMER EXXON SERVICE STATION 70234
CK:	3450 35th AVENUE
FN:	OAKLAND, CALIFORNIA
	FIGURE: 4

ETIC CONSULT ENGINEER CONSTRUCT
250 W. COLORADO BLVD. SUITE 110 ARCADIA, CA 91007 (626) 432-5999

TABLE 2 CUMULATIVE ANALYTICAL RESULTS FOR TPH-G, BTEX, AND MTBE IN SOIL,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Sampling Date	Depth (feet bgs)	TPH-g (mg/kg)	Kerosene (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	EHC-HO (mg/kg)	TOG (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
Used-Oil UST Confirmation Soil Sample														
T1-12	06/18/97	---	8.6a	---	200b	680c	---	---	ND	0.038	0.016	0.046	---	8.8
Hydraulic Hoist Confirmation Samples														
H1-8	06/18/97	---	---	---	---	---	99d	---	---	---	---	---	---	---
H2-8	06/18/97	---	---	---	---	---	2,100d	---	---	---	---	---	---	---
Samples from the UST Cavity Sidewall														
Pit1@12'	06/14/02	12	<1.0	---	---	---	---	---	<0.005	<0.005	<0.005	<0.005	<0.005	---
Pit2@11.5'	06/14/02	11.5	<1.0	---	---	---	---	---	<0.005	<0.005	<0.005	<0.005	<0.005	---
Pit3@11'	06/14/02	11	<1.0	---	---	---	---	---	<0.005	<0.005	<0.005	<0.005	<0.005	---
Pit4@10'	06/14/02	10	<1.0	---	---	---	---	---	<0.005	<0.005	<0.005	<0.005	<0.005	---
Samples from Beneath Product Piping														
A-6.4	06/25/02	6.4	<1.0	---	---	---	---	---	<0.005	<0.005	<0.005	<0.005	<0.005	---
B-4.9	06/25/02	4.9	24	---	---	---	---	---	0.057	0.11	0.12	1.2	0.020	---
C-6.5	06/25/02	6.5	<1.0	---	---	---	---	---	<0.005	<0.005	<0.005	<0.005	<0.005	---
D-5.2	06/25/02	5.2	<1.0	---	---	---	---	---	<0.005	<0.005	<0.005	<0.005	<0.005	---
Soil Samples from 1991 UST Excavation														
S1	08/28/91	10	<1.0	---	---	---	---	---	<0.005	<0.005	<0.005	<0.005	---	<5
S2	08/28/91	10	<1.0	---	---	---	---	---	<0.005	<0.005	<0.005	<0.005	---	<5
S3	08/28/91	10	<1.0	---	---	---	---	---	<0.005	<0.005	<0.005	<0.005	---	<5
S4	08/28/91	10	290	---	---	---	---	---	2.8	6.5	5.2	27	---	<5
S5	08/28/91	10	3.5	---	---	---	---	---	0.27	0.096	0.064	0.32	---	<5
S6	08/28/91	11	4.1	---	---	---	---	---	0.19	0.13	0.056	0.23	---	<5
S7	08/28/91	3	4.0	---	---	---	---	---	0.66	0.040	0.11	0.13	---	<5
S8	08/28/91	3	<1.0	---	---	---	---	---	<0.005	<0.005	<0.005	<0.005	---	<5
S9	08/28/91	3	210	---	---	---	---	---	1.4	7.2	3.0	18	---	<5
S10	08/28/91	3	<1.0	---	---	---	---	---	<0.005	0.031	0.029	0.067	---	<5
S11	08/28/91	1.5	<1.0	---	---	---	---	---	<0.005	<0.005	<0.005	<0.005	---	<5
S12	08/28/91	15	3.1	---	---	---	---	---	0.36	0.048	0.052	0.16	---	---
S13	08/28/91	15	1.8	---	---	---	---	---	0.26	0.008	0.009	0.041	---	---
S14	08/28/91	4	5.0	---	---	---	---	---	0.047	0.063	0.009	0.041	---	---
S15	08/28/91	15	<1.0	---	---	---	---	---	<0.005	<0.005	<0.005	<0.005	---	---
Soil Borings														
B1	3/20/91	15.5	<1.0	---	---	---	---	---	0.011	0.007	0.011	0.04	---	---
B1	3/20/91	20.5	<1.0	---	---	---	---	---	0.012	0.007	0.01	0.04	---	---

TABLE 2 CUMULATIVE ANALYTICAL RESULTS FOR TPH-G, BTEX, AND MTBE IN SOIL,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Sampling Date	Depth (feet bgs)	TPH-g (mg/kg)	Kerosene (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	EHC-HO (mg/kg)	TOG (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
B2	3/20/91	15.5	<1.0	---	---	---	---	---	0.036	0.026	0.012	0.055	---	---
B2	3/20/91	20.5	<1.0	---	---	---	---	---	0.0073	0.0063	0.0098	0.038	---	---
B3	3/20/91	10.5	1	---	---	---	---	---	0.006	0.006	0.008	0.036	---	---
B3	3/20/91	15.5	440	---	---	---	---	---	0.7	5.4	4.7	24	---	---
B4	3/20/91	10.5	5	---	---	---	---	---	0.013	0.019	0.014	0.082	---	<5
B4	3/20/91	15.5	6.6	---	---	---	---	---	0.039	0.043	0.027	0.12	---	---
B4	3/20/91	20.5	<1.0	---	---	---	---	---	0.0076	0.0073	0.011	0.054	---	---
B5	3/20/91	10.5	26	---	---	---	---	---	0.055	0.061	0.17	0.67	---	---
B6	3/20/91	10.5	240	---	---	---	---	---	0.28	2.2	2.8	13	---	---
B6	3/20/91	15.5	1.4	---	---	---	---	---	0.0055	0.0054	0.009	0.034	---	---
B7	3/20/91	10.5	<1.0	---	---	---	---	---	0.006	0.006	0.008	0.033	---	---
B8	3/20/91	10.5	<1.0	---	---	---	---	---	0.006	0.005	0.008	0.035	---	---
B9	3/20/91	10.5	---	---	---	---	---	<50	---	---	---	---	---	---
B10	3/20/91	10.5	---	---	---	---	---	<50	---	---	---	---	---	---
S-5-B11	09/05/07	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-10-B11	09/10/07	10	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-13.5-B11	09/10/07	13.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-18-B11	09/11/07	18	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-20-B11	09/11/07	20	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-25.5-B11	11/14/07	25.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-29.5-B11	11/14/07	29.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-34.5-B11	11/14/07	34.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-5-B12	09/04/07	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-15.5-B12	11/13/07	15.5	43	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-20.5-B12	11/13/07	20.5	3.2	---	---	---	---	---	0.076	<0.0050	0.0053	<0.0050	0.15	---
S-5-B13	09/05/07	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-10-B13	09/10/07	10	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-14.5-B13	09/10/07	14.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-20-B13	09/10/07	20	4.3	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---

TABLE 2 CUMULATIVE ANALYTICAL RESULTS FOR TPH-G, BTEX, AND MTBE IN SOIL,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Sampling Date	Depth (feet bgs)	TPH-g (mg/kg)	Kerosene (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	EHC-HO (mg/kg)	TOG (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
S-25-B13	11/12/07	25	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-30-B13	11/12/07	30	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-35-B13	11/12/07	35	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-5.0-B14	09/06/07	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-16-B14	11/13/07	16	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-20.5-B14	11/13/07	20.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	0.031	---
S-5-B15	09/04/07	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-10.5-B15	11/15/07	10.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-15.5-B15	11/15/07	15.5	1.1	---	---	---	---	---	0.32	0.019	0.017	0.074	0.12	---
S-20-B15	11/15/07	20	300	---	---	---	---	---	6.1	36	14	72	<0.25	---
S-25.5-B15	11/15/07	25.5	220	---	---	---	---	---	3.1	18	6.8	36	<0.12	---
S-30.5-B15	11/15/07	30.5	59	---	---	---	---	---	2.9	5.6	1.5	20	<0.25	---
S-35.5-B15	11/15/07	35.5	3.3	---	---	---	---	---	0.28	0.21	0.26	0.79	0.26	---
S-5-B16	09/04/07	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-11-B16	11/14/07	11	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-15.5-B16	11/14/07	15.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-21-B16	11/14/07	21	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-26-B16	11/14/07	26	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-30.5-B16	11/14/07	30.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-34.5-B16	11/14/07	34.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-38.5-B16	11/14/07	38.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	0.021	---
S-5-B17	09/05/07	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-11-B17	11/13/07	11	90	---	---	---	---	---	0.052	<0.0050	0.086	0.020	0.036	---
S-16-B17	11/13/07	16	<0.50	---	---	---	---	---	0.0052	<0.0050	<0.0050	<0.0050	0.099	---
S-21-B17	11/13/07	21	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	0.011	---
S-24.5-B17	11/13/07	24.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	0.59	---
S-31-B17	11/13/07	31	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-35.5-B17	11/13/07	35.5	0.85	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	1.7	---
S-5-B18	09/04/07	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-10-B18	11/12/07	10	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-15-B18	11/12/07	15	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	0.0051	---
S-20-B18	11/12/07	20	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	0.019	---
S-25-B18	11/12/07	25	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	0.18	---
S-30-B18	11/12/07	30	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	0.54	---

TABLE 2 CUMULATIVE ANALYTICAL RESULTS FOR TPH-G, BTEX, AND MTBE IN SOIL,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Sampling Date	Depth (feet bgs)	TPH-g (mg/kg)	Kerosene (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	EHC-HO (mg/kg)	TOG (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
S-35-B18	11/12/07	35	24	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	0.53	---
S-5-B19	02/25/09	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-10-B19	03/02/09	10	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-15.5-B19	03/03/09	15.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-20.5-B19	03/03/09	20.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-25.5-B19	03/03/09	25.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-30.5-B19	03/03/09	30.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-35.5-B19	03/03/09	35.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-39.5-B19	03/03/09	39.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	0.51	---
S-5-B20	02/25/09	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	0.048	---
S-10.5-B20	03/03/09	10.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-15.0-B20	03/03/09	15.0	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-20.5-B20	03/03/09	20.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-25.5-B20	03/03/09	25.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-30.5-B20	03/03/09	30.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-35.5-B20	03/03/09	35.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-39.5-B20	03/03/09	39.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-5-B21	02/25/09	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-10.5-B21	03/04/09	10.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-15-B21	03/04/09	15	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-20.5-B21	03/04/09	20.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-25.5-B21	03/04/09	25.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-30.5-B21	03/04/09	30.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-35.5-B21	03/04/09	35.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-39.5-B21	03/04/09	39.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
Monitoring and Recovery Wells														
MW1	07/14/92	8	<1.0	---	---	---	---	---	<0.0050	<0.0050	<0.0050	0.0064	---	<10
MW1	07/14/92	29.5	<1.0	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	---	<10
MW2	07/14/92	28	<1.0	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	---	<10
MW3	07/14/92	29.5	<1.0	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	---	<10
S-5-MW4	02/25/09	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-10.5-MW4	03/02/09	10.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-15.5-MW4	03/02/09	15.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-20.5-MW4	03/02/09	20.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---

TABLE 2 CUMULATIVE ANALYTICAL RESULTS FOR TPH-G, BTEX, AND MTBE IN SOIL,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Sampling Date	Depth (feet bgs)	TPH-g (mg/kg)	Kerosene (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	EHC-HO (mg/kg)	TOG (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
S-25.5-MW4	03/02/09	25.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-30.5-MW4	03/02/09	30.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-35.5-MW4	03/02/09	35.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-40-MW4	03/02/09	40	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-44.5-MW4	03/02/09	44.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-5-MW5	02/27/09	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-10-MW5	03/05/09	10	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-15-MW5	03/05/09	15	0.70	---	---	---	---	---	0.22	0.022	0.071	0.31	0.036	---
S-20-MW5	03/05/09	20	260	---	---	---	---	---	5.4	19	11	63	<5.0	---
S-25-MW5	03/06/09	25	41	---	---	---	---	---	<0.0050	0.069	0.15	0.75	<0.50	---
S-30-MW5	03/06/09	30	0.91	---	---	---	---	---	0.14	0.0061	0.011	0.036	<0.50	---
S-35-MW5	03/06/09	35	5.4	---	---	---	---	---	<0.050	3.9	1.5	15	<0.50	---
S-39.5-MW5	03/06/09	39.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-5-MW6	02/27/09	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-10-MW6	03/09/09	10	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-15.5-MW6	03/09/09	15.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	0.011	---
S-20.5-MW6	03/09/09	20.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	0.015	---
S-25.5-MW6	03/09/09	25.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-30.5-MW6	03/09/09	30.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	0.063	---
S-35.5-MW6	03/09/09	35.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-39.5-MW6	03/09/09	39.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-5-MW7	02/27/09	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-10.5-MW7	03/09/09	10.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-15.5-MW7	03/09/09	15.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-20.5-MW7	03/09/09	20.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-25.5-MW7	03/09/09	25.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-30.5-MW7	03/09/09	30	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-35.5-MW7	03/09/09	35.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-39.5-MW7	03/09/09	39.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-5-MW8	02/25/09	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-10.5-MW8	03/04/09	10.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-15.5-MW8	03/04/09	15.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-20.5-MW8	03/04/09	20.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-25.5-MW8	03/04/09	25.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-30.5-MW8	03/04/09	30.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---

TABLE 2 CUMULATIVE ANALYTICAL RESULTS FOR TPH-G, BTEX, AND MTBE IN SOIL,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Sampling Date	Depth (feet bgs)	TPH-g (mg/kg)	Kerosene (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	EHC-HO (mg/kg)	TOG (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
S-35.5-MW8	03/04/09	35.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-39.5-MW8	03/04/09	39.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-5-MW9	02/25/09	5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-10-MW9	03/05/09	10	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-15-MW9	03/05/09	15	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-20-MW9	03/05/09	20	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-25-MW9	03/05/09	25	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-30-MW9	03/05/09	30	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-35-MW9	03/05/09	35	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-40-MW9	03/05/09	40	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	---
S-5.0-RW1	12/22/11	5.0	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-15.0-RW1	12/22/11	15.0	1.3e	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	0.0053	---
S-25.0-RW1	12/22/11	25.0	6.5e	---	---	---	---	---	<0.0050	<0.0050	<0.0050	0.029	0.0066g	---
S-28.0-RW1	12/22/11	28.0	27e	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
S-31.0-RW1	12/22/11	31.0	1.7	---	---	---	---	---	<0.0050	0.0072	<0.0050	0.096	0.50	---
S-32.5-RW1	12/22/11	32.5	0.95	---	---	---	---	---	<0.0050	<0.0050	<0.0050	0.0087	0.72	---
S-34.0-RW1	12/22/11	34.0	2.3e	---	---	---	---	---	<0.0050	<0.0050	<0.0050	0.0053	0.94	---
S-37.0-RW1	12/22/11	37.0	420	---	---	---	---	---	<0.50	<0.50	0.88	10	<0.50	---
S-38.5-RW1	12/22/11	38.5	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	0.0071	---
S-40.0-RW1	12/22/11	40.0	440	---	---	---	---	---	<1.0	<1.0	2.1	29	<1.0	---
Soil Stockpile Samples														
SP-1(S-SP1-S-SP4)	09/12/07	---	<0.10	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	7.2
SP(1-4)	06/18/97	---	ND	---	47b	150c	---	---	ND	ND	ND	ND	---	8.7
SP-2	03/09/09	---	<0.50	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	5.83
S-SP1 (1,2,3,4)	12/22/11	---	40	8.0	<5.0	<25	---	---	0.0068	0.012	0.048	0.46	<0.50	4.50
Soil Vapor Monitoring Wells														
V1-7	04/14/14	7	<0.51	---	---	---	---	---	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	---
V2-3	04/15/14	3	<0.52	---	---	---	---	---	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	---
V2-6.5	04/15/14	6.5	<0.49	---	---	---	---	---	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	---
V3-3	04/15/14	3	<0.49	---	---	---	---	---	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	---
V3-6.5	04/15/14	6.5	<0.48	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
V4-6.5	04/15/14	6.5	<0.48	---	---	---	---	---	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	---
V5-6.5	04/15/14	6.5	<0.49	---	---	---	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---
V6,3	11/07/14	3	<0.49	---	---	---	---	---	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	---
V6,6.5	11/07/14	6.5	<0.50	---	---	---	---	---	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	---

TABLE 2 CUMULATIVE ANALYTICAL RESULTS FOR TPH-G, BTEX, AND MTBE IN SOIL,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Sampling Date	Depth (feet bgs)	TPH-g (mg/kg)	Kerosene (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	EHC-HO (mg/kg)	TOG (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
Soil Borings 2014														
H1-54	04/15/14	54	<0.50	---	---	---	---	---	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	---
H3-54	04/14/14	54	<0.52	---	---	---	---	---	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	---
Tier 1 ESLs Feb. 2016 (Rev. 3)			100	---	230	5,100	---	---	0.0	2.9	1.4	2.3	0.023	80

Notes:

TPH-g	Total Petroleum Hydrocarbons as gasoline analyzed using EPA Method 8015M.
Kerosene	Kerosene analyzed using EPA Method 8015B.
TPH-d	Total Petroleum Hydrocarbons as diesel.
TPH-mo	Total Petroleum Hydrocarbons as motor oil.
EHC-HO	Extractable hydrocarbons as hydraulic oil.
TOG	Total oil and grease.
BTEX	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B/8260B.
MTBE	Methyl tertiary butyl ether analyzed using EPA Method 8021B/8260B
Lead	Lead analyzed using EPA Method 6010B.
feet bgs	Feet below ground surface.
mg/kg	Milligrams per kilogram.
ND	Not detected at or above the laboratory reporting limit.
NE	Not establlished.
<	Less than the stated laboratory reporting limit.
---	Not analyzed/not applicable.
a	Unidentified C8-C12.
b	Unidentified C9-C24.
c	Unidentified C16-C36.
d	Unidentified C16-C40.
e	Hydrocarbon pattern does not match that of the specified standard.
Tier 1 ESLs	Tier 1 Environmental Screening Levels San Francisco Bay Regional Water Quality Control Board, February 2016, (Rev. 3).

Analytical data prior to 2013 provided by Cardno ERI.

TABLE 3 CUMULATIVE ANALYTICAL RESULTS FOR FUEL OXYGENATES, HALOGENATED VOLATILE ORGANIC COMPOUNDS, METALS, AND PAHs IN SOIL,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Sampling Date	Depth (feet bgs)	1,2-DCA (mg/kg)	EDB (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)	HVOCs (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)	Naphthalene (mg/kg)	PAHs (mg/kg)
Used-Oil UST Confirmation Soil Sample																		
T1-12	06/18/97	---	---	---	---	---	---	---	---	---	ND	ND	ND	47	56	84	---	---
Hydraulic Hoist Confirmation Samples																		
Not analyzed for these analytes.																		
Samples from the UST Cavity Sidewall																		
Not analyzed for these analytes.																		
Samples from Beneath Product Piping																		
Not analyzed for these analytes.																		
Soil Samples from 1991 UST Excavation																		
Not analyzed for these analytes.																		
Samples Collected from Soil Borings prior to 2007																		
Not analyzed for these analytes.																		
S-5-B11	09/05/07	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-10-B11	09/10/07	10	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-13.5-B11	09/10/07	13.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-18-B11	09/11/07	18	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-20-B11	09/11/07	20	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-25.5-B11	11/14/07	25.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-29.5-B11	11/14/07	29.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-34.5-B11	11/14/07	34.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-5-B12	09/04/07	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-15.5-B12	11/13/07	15.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-20.5-B12	11/13/07	20.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-5-B13	09/05/07	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-10-B13	09/10/07	10	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-14.5-B13	09/10/07	14.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-20-B13	09/10/07	20	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-25-B13	11/12/07	25	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-30-B13	11/12/07	30	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-35-B13	11/12/07	35	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-5.0-B14	09/06/07	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-16-B14	11/13/07	16	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-20.5-B14	11/13/07	20.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-5-B15	09/04/07	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-10.5-B15	11/15/07	10.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-15.5-B15	11/15/07	15.5	0.011	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-20-B15	11/15/07	20	<0.25	<0.25	<0.50	<0.50	<0.50	<2.5	<12	---	---	---	---	---	---	---	---	---
S-25.5-B15	11/15/07	25.5	<0.12	<0.12	<0.25	<0.25	<0.25	<1.2	<6.2	---	---	---	---	---	---	---	---	---

TABLE 3 CUMULATIVE ANALYTICAL RESULTS FOR FUEL OXYGENATES, HALOGENATED VOLATILE ORGANIC COMPOUNDS, METALS, AND PAHs IN SOIL,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Sampling Date	Depth (feet bgs)	1,2-DCA (mg/kg)	EDB (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)	HVOCs (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)	Naphthalene (mg/kg)	PAHs (mg/kg)
S-30.5-B15	11/15/07	30.5	<0.25	<0.25	<0.50	<0.50	<0.50	<2.5	<12	---	---	---	---	---	---	---	---	---
S-35.5-B15	11/15/07	35.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	0.25	<0.25	---	---	---	---	---	---	---	---	---
S-5-B16	09/04/07	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-11-B16	11/14/07	11	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-15.5-B16	11/14/07	15.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-21-B16	11/14/07	21	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-26-B16	11/14/07	26	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-30.5-B16	11/14/07	30.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-34.5-B16	11/14/07	34.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-38.5-B16	11/14/07	38.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-5-B117	09/05/07	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-11-B17	11/13/07	11	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-16-B17	11/13/07	16	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-21-B17	11/13/07	21	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-24.5-B17	11/13/07	24.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	0.20	---	---	---	---	---	---	---	---	---	---
S-31-B17	11/13/07	31	<0.0050	<0.0050	<0.010	<0.010	<0.010	0.15	---	---	---	---	---	---	---	---	---	---
S-35.5-B17	11/13/07	35.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-5-B18	09/04/07	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-10-B18	11/12/07	10	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-15-B18	11/12/07	15	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-20-B18	11/12/07	20	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-25-B18	11/12/07	25	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-30-B18	11/12/07	30	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-35-B18	11/12/07	35	<0.0050	<0.0050	<0.010	<0.010	<0.010	0.70	---	---	---	---	---	---	---	---	---	---
S-5-B19	02/25/09	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-10-B19	03/02/09	10	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-15.5-B19	03/03/09	15.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-20.5-B19	03/03/09	20.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-25.5-B19	03/03/09	25.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-30.5-B19	03/03/09	30.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-35.5-B19	03/03/09	35.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-39.5-B19	03/03/09	39.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-5-B20	02/25/09	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-10.5-B20	03/03/09	10.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-15.0-B20	03/03/09	15.0	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-20.5-B20	03/03/09	20.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-25.5-B20	03/03/09	25.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-30.5-B20	03/03/09	30.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-35.5-B20	03/03/09	35.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-39.5-B20	03/03/09	39.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-5-B21	02/25/09	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---

TABLE 3 CUMULATIVE ANALYTICAL RESULTS FOR FUEL OXYGENATES, HALOGENATED VOLATILE ORGANIC COMPOUNDS, METALS, AND PAHs IN SOIL,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Sampling Date	Depth (feet bgs)	1,2-DCA (mg/kg)	EDB (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)	HVOCs (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)	Naphthalene (mg/kg)	PAHs (mg/kg)
S-10.5-B21	03/04/09	10.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-15-B21	03/04/09	15	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-20.5-B21	03/04/09	20.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-25.5-B21	03/04/09	25.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-30.5-B21	03/04/09	30.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-35.5-B21	03/04/09	35.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-39.5-B21	03/04/09	39.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
Monitoring and Recovery Wells																		
MW1	07/14/92	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW2	07/14/92	29.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW3	07/14/92	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW4	07/14/92	29.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-5-MW4	02/25/09	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-10.5-MW4	03/02/09	10.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-15.5-MW4	03/02/09	15.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-20.5-MW4	03/02/09	20.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-25.5-MW4	03/02/09	25.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-30.5-MW4	03/02/09	30.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-35.5-MW4	03/02/09	35.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-40-MW4	03/02/09	40	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-44.5-MW4	03/02/09	44.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-5-MW5	02/27/09	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-10-MW5	03/05/09	10	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-15-MW5	03/05/09	15	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-20-MW5	03/05/09	20	<5.0	<5.0	<10	<10	<10	<50	<250	---	---	---	---	---	---	---	---	---
S-25-MW5	03/06/09	25	<0.50	<0.50	<1.0	<1.0	<1.0	<5.0	<25	---	---	---	---	---	---	---	---	---
S-30-MW5	03/06/09	30	<0.50	<0.50	<1.0	<1.0	<1.0	<5.0	<25	---	---	---	---	---	---	---	---	---
S-35-MW5	03/06/09	35	<0.50	<0.50	<1.0	<1.0	<1.0	<5.0	<25	---	---	---	---	---	---	---	---	---
S-39.5-MW5	03/06/09	39.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-5-MW6	02/27/09	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-10-MW6	03/09/09	10	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-15.5-MW6	03/09/09	15.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-20.5-MW6	03/09/09	20.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-25.5-MW6	03/09/09	25.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-30.5-MW6	03/09/09	30.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-35.5-MW6	03/09/09	35.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	0.054	<0.25	---	---	---	---	---	---	---	---	---
S-39.5-MW6	03/09/09	39.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-5-MW7	02/27/09	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-10.5-MW7	03/09/09	10.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-15.5-MW7	03/09/09	15.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-20.5-MW7	03/09/09	20.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-25.5-MW7	03/09/09	25.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---

TABLE 3 CUMULATIVE ANALYTICAL RESULTS FOR FUEL OXYGENATES, HALOGENATED VOLATILE ORGANIC COMPOUNDS, METALS, AND PAHs IN SOIL,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Sampling Date	Depth (feet bgs)	1,2-DCA (mg/kg)	EDB (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)	HVOCs (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)	Naphthalene (mg/kg)	PAHs (mg/kg)
S-30.5-MW7	03/09/09	30	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-35.5-MW7	03/09/09	35.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-39.5-MW7	03/09/09	39.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-5-MW8	02/25/09	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-10.5-MW8	03/04/09	10.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-15.5-MW8	03/04/09	15.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-20.5-MW8	03/04/09	20.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-25.5-MW8	03/04/09	25.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-30.5-MW8	03/04/09	30.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-35.5-MW8	03/04/09	35.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-39.5-MW8	03/04/09	39.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-5-MW9	02/25/09	5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-10-MW9	03/05/09	10	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-15-MW9	03/05/09	15	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-20-MW9	03/05/09	20	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-25-MW9	03/05/09	25	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-30-MW9	03/05/09	30	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-35-MW9	03/05/09	35	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-40-MW9	03/05/09	40	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	---	---	---	---	---	---	---
S-5.0-RW1	12/22/11	5.0	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-15.0-RW1	12/22/11	15.0	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-25.0-RW1	12/22/11	25.0	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-28.0-RW1	12/22/11	28.0	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-31.0-RW1	12/22/11	31.0	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-32.5-RW1	12/22/11	32.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	0.17	---	---	---	---	---	---	---	---	---	---
S-34.0-RW1	12/22/11	34.0	<0.0050	<0.0050	<0.010	<0.010	<0.010	0.42	---	---	---	---	---	---	---	---	---	---
S-37.0-RW1	12/22/11	37.0	<0.50	<0.50	<1.0	<1.0	<1.0	<5.0	---	---	---	---	---	---	---	---	---	---
S-38.5-RW1	12/22/11	38.5	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	---	---
S-40.0-RW1	12/22/11	40.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	---	---	---	---	---	---	---	---	---	---
Soil Stockpile Samples																		
SP-1(S-SP1-S-SP4)	09/12/07	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	---	---	---	---	---	---	---	---	---	---
SP(1-4)	06/18/97	---	---	---	---	---	---	---	---	ND	ND	---	ND	55	53	43	---	---
SP-2	03/09/09	---	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.25	---	---	ND	---	---	---	---	---	---
S-SP1 (1,2,3,4)	12/22/11	---	<0.0050	<0.0050	<0.010	<0.010	<0.010	0.076	---	a	---	---	---	---	---	---	---	---
Soil Vapor Monitoring Wells																		
V1-7	04/14/14	7	---	---	<0.010	<0.010	<0.010	<0.051	---	---	---	---	---	---	---	---	<0.051	---
V2-3	04/15/14	3	---	---	<0.0096	<0.0096	<0.0096	<0.048	---	---	---	---	---	---	---	---	<0.048	---
V2-6.5	04/15/14	6.5	---	---	<0.010	<0.010	<0.010	<0.052	---	---	---	---	---	---	---	---	<0.052	---
V3-3	04/15/14	3	---	---	<0.011	<0.011	<0.011	<0.053	---	---	---	---	---	---	---	---	<0.053	---
V3-6.5	04/15/14	6.5	---	---	<0.0099	<0.0099	<0.0099	<0.050	---	---	---	---	---	---	---	---	<0.050	---
V4-6.5	04/15/14	6.5	---	---	<0.010	<0.010	<0.010	<0.051	---	---	---	---	---	---	---	---	<0.051	---

TABLE 3 CUMULATIVE ANALYTICAL RESULTS FOR FUEL OXYGENATES, HALOGENATED VOLATILE ORGANIC COMPOUNDS, METALS, AND PAHs IN SOIL,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Sample ID	Sampling Date	Depth (feet bgs)	1,2-DCA (mg/kg)	EDB (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)	HVOCs (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)	Naphthalene (mg/kg)	PAHs (mg/kg)
V5-6.5	04/15/14	6.5	---	---	<0.010	<0.010	<0.010	<0.050	---	---	---	---	---	---	---	---	<0.050	---
V6,3	11/07/14	3	---	---	<0.010	<0.010	<0.010	<0.051	---	---	---	---	---	---	---	---	<0.051	<0.020
V6,6.5	11/07/14	6.5	---	---	<0.010	<0.010	<0.010	<0.051	---	---	---	---	---	---	---	---	<0.051	<0.020
Soil Borings 2014																		
H1-54	04/15/14	54	---	---	<0.010	<0.010	<0.010	<0.051	---	---	---	---	---	---	---	---	<0.051	---
H3-54	04/14/14	54	---	---	<0.010	<0.010	<0.010	<0.052	---	---	---	---	---	---	---	---	<0.052	---
Tier 1 ESLs February 2016 (Rev. 3)			0.0045	0.00033	NE	NE	NE	0.075	NE	---	---	---	39	+++	86	23,000	0.033	#

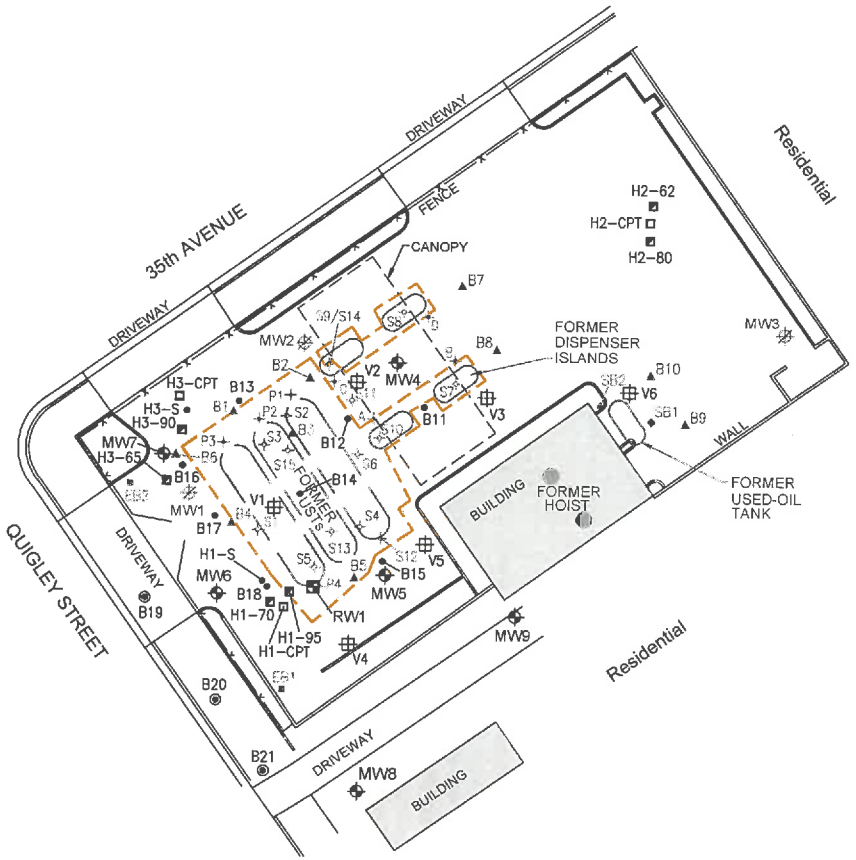
Notes:

1,2-DCA	1,2-dichloroethane analyzed using EPA Method 8260B.
EDB	Ethylene dibromide (1,2-dibromoethane) analyzed using EPA Method 8260B.
DIPE	Di-isopropyl ether analyzed using EPA Method 8260B.
ETBE	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	Tertiary butyl alcohol analyzed using EPA Method 8260B.
Ethanol	Ethanol analyzed using EPA Method 8260B.
VOCs	Volatile organic compounds.
SVOCs	Polycyclic aromatic hydrocarbons.
HVOCs	Halogenated volatile organic compounds analyzed using EPA Method 8260B.
PAHs	Polycyclic aromatic hydrocarbons.
feet bgs	Feet below ground surface.
mg/kg	Milligrams per kilogram.
ND	Not detected at or above the laboratory reporting limit.
NE	Not established.
<	Less than the stated laboratory reporting limit.
---	Not analyzed/not applicable.
a	1.1 mg/kg 1,2,4-trimethylbenzene; 0.16 mg/kg 1,3,5-trimethylbenzene; 0.022 mg/kg isopropyltoluene; 0.078 mg/kg naphthalene; 0.059 mg/kg n-butylbenzene; 0.091 mg/kg n-propylbenzene; 0.0070 p-isopropyltoluene; 0.012 sec-butylbenzene.
Soil Tier 1ESLs	Tier 1 Environmental Screening Levels San Francisco Bay Regional Water Quality Control Board, February 2016, (Rev. 3)
+++	The ESLs for chromium are cited according to Cr+3 or Cr+6

Analytical data prior to 2013 provided by Cardno ERI.

ATTACHMENT B-6

Soil Vapor Data



LEGEND:

- EXCAVATED AREA
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (by others)
- DESTROYED GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- V1 SOIL VAPOR MONITORING WELL
- H3-CPT CONE PENETROMETER TESTING BORING
- H3-65 HYDROPUNCH GROUNDWATER SAMPLING LOCATION (WITH DEPTH BELOW GROUND SURFACE NOTED)
- H3-S SOIL BORING
- SOIL BORING (GTI, 1986)
- SOIL BORING (HLA, 1988)
- SOIL BORING (Alton, 1991)
- SOIL SAMPLE (Alton, 1991)
- SOIL SAMPLE (TRC, 2002)
- SOIL BORING (ERI, 2007)
- SOIL BORING (ERI, 2009)
- SOIL BORING (Conoco Phillips 76 Site)

N

0 15 30

1" = 30 FEET

ETIC CONSULT CONSTRUCT

2285 MORELLO AVENUE
PLEASANT HILL, CA 94523
(925) 602-4710
eticeng.com

17-070234-UP	EXXONMOBIL OIL CORPORATION
DR: RW	SITE MAP
DR: AJW	FORMER EXXON SERVICE STATION 70234
CK:	3450 35th AVENUE
FR:	OAKLAND, CALIFORNIA

FIGURE: 2

TABLE 7 SOIL VAPOR ANALYTICAL RESULTS,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Soil Vapor Monitoring Well	Screened Interval Depth (feet bgs)	Sampling Date	Concentration (% by Volume)				(% by volume)		Concentration ($\mu g/m^3$)											
			Oxygen and Argon	Carbon Dioxide	Methane	Lab Helium	Field Helium in Purged Soil Vapor	Field Helium under Shroud	TPH-g	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
V1	6.25-6.75	04/22/14	12.9	4.81	<0.500	0.0348	0	21.7	30,000	<7.4	75	<10	<10	<34	<28	<39	<39	<39	<120
V2	6.25-6.75	04/22/14	14.2	7.09	<0.500	0.0220	0	21.7	36,000	<6.5	110	<8.9	<8.9	<29	<25	<34	<34	<34	<110/<20*
V3	6.25-6.75	04/22/14	15.4	5.76	<0.500	0.0969	0	38.8	24,000	<1.6	110	3.8	2.7	<7.2	<6.1	<8.4	<8.4	<8.4	<26
V4	6.25-6.75	04/23/14	18.7	3.01	<0.500	0.0241	0	23.6	24,000	<1.6	<1.9	<2.2	<2.2	<7.2	<6.1	<8.4	<8.4	<8.4	<26
V5	6.25-6.75	04/23/14	8.76	6.20	<0.500	0.0209	--	22.0	22,000	3.4	46	<2.2	<2.2	<7.2	<6.1	<8.4	<8.4	<8.4	<26
V5 (duplicate)	6.25-6.75	04/23/14	9.12	6.03	<0.500	0.0298	--	22.0	19,000	3.2	38	2.5	2.3	<7.2	<6.1	<8.4	<8.4	<8.4	<26
V6	5.9-6.4	11/19/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V6	5.9-6.4	02/18/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V6	5.9-6.4	02/20/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tier 1 ESLs February 2016 (rev 3)			--	--	--	--	--	--	50,000	48	160,000	560	52,000	5,400	--	--	--	--	41
LTCP Commerical									--	280	--	3,600	--	--	--	--	--	--	310
LTCP Residential									--	85	--	1,100	--	--	--	--	--	--	93

Notes:

bgs	Below ground surface.
TPH-g	Total Petroleum Hydrocarbons as gasoline.
MTBE	Methyl tertiary butyl ether.
TBA	Tertiary butyl alcohol.
ETBE	Ethyl tertiary butyl ether.
DIPE	Di-isopropyl ether.
TAME	Tertiary amyl methyl ether.
%	Percent.
$\mu g/m^3$	Micrograms per cubic meter.
--	Not analyzed, not measured, or not applicable.
Tier 1 ESLs	Environmental Screening Level, Subslab/Soil Gas, San Francisco Bay Regional Water Quality Control Board, February 2016.
LTCP	Low threat closure policy soil gas criteria for the no bioattenuation zone. California Regional Water Quality Control Board, 2012.
<26	Not detected at or above the reporting limit indicated.
NE	Not established.
*	The first result is from EPA Method TO-15. The second result is from EPA Method TO-17.

ATTACHMENT C-1

Responsible Party & Assessor's Office Information

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
COLLEEN CHAWLA, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
LOCAL OVERSIGHT PROGRAM (LOP) FOR
HAZARDOUS MATERIALS RELEASES
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6700
FAX (510) 337-9335

March 26, 2018

ExxonMobil
4096 Piedmont Ave., #194
Oakland, CA 94611
Attn.: Jennifer Sedlachek
(*Sent via electronic mail to:*
jennifer.c.sedlachek@exxonmobil.com)

Valero
10955 Westmoor Drive, Suite 400
West Minster, CO 80021
Attn.: Roger Levin
(*Sent via electronic mail to:*
roger.levin@valero.com)

MHCB (USA) Leasing & Finance Corporation
C/o R J Dold
3200 Southwest Fwy
Houston, TX 77027

MHCB (USA) Leasing & Finance Corporation
c/o Ad Valorem Tax Department
Address Unknown

FSW Highland LLC
99 S. Hill Drive
Brisbane, CA 94005-1274
Attn.: Zack Spencer

FWS Highland LLC
99 S. Hill Drive
Brisbane, CA 94005-1274
Attn.: Zack Spencer

BNY Western Trust Company
C/o R J Dold
Address Unknown

Bieu Tran, Andy H Chan & Peter H. Chen
13081 Brookpark Rd.
Oakland, CA 94619-3503
(*Sent via electronic mail to:*
bieutran@yahoo.com)

Subject: Notice of Responsibility Add/ Remove Responsible Parties - Fuel Leak Case No. RO0002515 and Geotracker Global ID #T06019757161, Valero #3832, 3450 35th Avenue, Oakland, CA 94619

Dear Responsible Parties:

In a Notice of Responsibility dated February 25, 2003, ExxonMobil, Valero, and BNY Western Trust Company were notified that the above referenced site had been placed in the Local Oversight Program and were named as Responsible Parties for the fuel leak case. In a Notice of Responsibility dated June 23, 2016, MHCB (USA) Leasing & Finance Corporation c/o Ad Valorem Tax Department, FSW Highland LLC, and Bieu Tran & Andy H Chan et al were named as additional Responsible Parties for the fuel leak case. Peter H. Chen has been identified as the "et al" of the previously named "Bieu Tran & Andy H Chan et al" and has been named as an additional Responsible Party. Errors were made in the identification of MHCB (USA) Leasing & Finance Corporation c/o Ad Valorem Tax Department and FSW Highland LLC, and these entities are being removed from the list of Responsible Parties. They are being replaced with the corrected MHCB (USA) Leasing & Finance Corporation c/o R J Dold, and FWS Highland LLC, respectively, as defined under 23 C.C.R Sec. 2720. Please see Attachment A – Responsible Parties Data Sheet, which identifies all Responsible Parties and provides background on the unauthorized release and Responsible Party Identification.

If you have any questions, please call me at (510) 567-6764 or send me an electronic mail message at keith.nowell@acgov.org.

Sincerely,

Keith Nowell

Digitally signed by Keith Nowell
DN: cn=Keith Nowell, o=Alameda County, ou=Department of Environmental Health, email=keith.nowell@acgov.org, c=US
Date: 2018.03.23 13:37:48 -07'00'

Keith Nowell, PG, CHG
Hazardous Materials Specialist

cc: Dilan Roe, ACDEH, (*Sent via electronic mail to: dilan.roe@acgov.org*)
Paresh Khatri, ACDEH, (*Sent via electronic mail to: paresh.khatri@acgov.org*)
Keith Nowell, ACDEH (*Sent via electronic mail to: keith.nowell@acgov.org*)

Geotracker, File

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
COLLEEN CHAWLA, Director

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

Certified Mail #: 7011 3500 0003 1935 1672

March 16, 2018

NOTICE OF RESPONSIBILITY

Site Name & Address:

VALERO #3832
3450 35TH AVE.
OAKLAND, CA 94619

Local ID:	RO0002515
Related ID:	NA
RWQCB ID:	NA
Global ID:	T06019757161

Responsible Party:

MHCB (USA) LEASING & FINANCE CORPORATION
C/O R J DOLD
3200 SOUTHWEST FWY
HOUSTON, TX 77027

Date First Reported: 10/03/2002

Substance: • Gasoline-Automotive (motor gasoline and additives), leaded & unleaded

Funding for Oversight: LOPS - LOP State Fund

Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified MHCB (USA) LEASING & FINANCE CORPORATION C/O R J DOLD as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5752.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.

Ronald Browder 03-16-2018

Date:

RONALD BROWDER, Director
Contract Project Director

Action: ADD

Reason: NEW

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
COLLEEN CHAWLA, Director

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

Certified Mail #: 7011 3500 0003 1935 1696

March 16, 2018

NOTICE OF RESPONSIBILITY

Site Name & Address:

VALERO #3832
3450 35TH AVE.
OAKLAND, CA 94619

Local ID: RO0002515
Related ID: NA
RWQCB ID: NA
Global ID: T06019757161

Responsible Party:

FSW HIGHLAND LLC
99 S. HILL DRIVE
BRISBANE, CA 94005-1274

Date First Reported: 10/03/2002

Substance:
- Gasoline-Automotive (motor gasoline and additives), leaded & unleaded

Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown on the attached list has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency previously identified FSW HIGHLAND LLC as a primary or active Responsible Party. It appears a letter transposition occurred; hence, FSW HIGHLAND LLC is being removed from the named list of Responsible Parties.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5752.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.

Ronald J Browder 03-16-2018

Date:

RONALD BROWDER, Director
Contract Project Director

Action: DELETE

Reason: UPDATE

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
COLLEEN CHAWLA, Director

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

Certified Mail #: 7011 3500 0003 1935 1689

March 16, 2018

NOTICE OF RESPONSIBILITY

Site Name & Address:

VALERO #3832
3450 35TH AVE.
OAKLAND, CA 94619

Local ID:	**RO0002515**
Related ID:	**NA**
RWQCB ID:	**NA**
Global ID:	**T06019757161**

Responsible Party:

MHCB (USA) LEASING & FINANCE CORPORATION
C/O AD VALOREM TAX DEPARTMENT
PO BOX 690110
SAN ANTONIO, TX 78269-0110

Date First Reported: 10/03/2002

Substance:
- Gasoline-Automotive (motor gasoline and additives), leaded & unleaded

Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown on the attached list has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency previously identified MHCB (USA) LEASING & FINANCE CORPORATION C/O AD VALOREM TAX DEPARTMENT as a primary or active Responsible Party. No supporting documentation was located for this identification and MHCB (USA) LEASING & FINANCE CORPORATION C/O AD VALOREM TAX DEPARTMENT is being removed from the named list of Responsible Parties.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5752.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.

Ronald Browder

RONALD BROWDER, Director
Contract Project Director

Date: 03-16-2018

Action: DELETE

Reason: UPDATE

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
COLLEEN CHAWLA, Director

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

Certified Mail #: 7011 3500 0003 1934 7651

March 16, 2018

NOTICE OF RESPONSIBILITY

Site Name & Address:

VALERO #3832
3450 35TH AVE.
OAKLAND, CA 94619

Local ID:	**RO0002515**
Related ID:	**NA**
RWQCB ID:	**NA**
Global ID:	**T06019757161**

Responsible Party:

PETER H. CHEN
13081 BROOKPARK ROAD
OAKLAND, CA 94619-3503

Date First Reported: 10/03/2002

Substance: • Gasoline-Automotive (motor gasoline and additives), leaded & unleaded

Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified PETER H. CHEN as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5752.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.

Ronald Browder 03-16-2018

Date:

RONALD BROWDER, Director
Contract Project Director

Action: ADD

Reason: NEW

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
COLLEEN CHAWLA, Director

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

Certified Mail #: 7011 3500 0003 1935 1665

March 16, 2018

NOTICE OF RESPONSIBILITY

Site Name & Address:

VALERO #3832
3450 35TH AVE.
OAKLAND, CA 94619

Local ID:	**RO0002515**
Related ID:	**NA**
RWQCB ID:	**NA**
Global ID:	**T06019757161**

Responsible Party:

FWS HIGHLAND LLC
99 S. HILL DR
BRISBANE, CA 94005-1274

Date First Reported: 10/03/2002

Substance: • Gasoline-Automotive (motor gasoline and additives), leaded & unleaded

Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified FWS HIGHLAND LLC as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5752.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.

Ronald L Browder 03-16-2018

Date:

RONALD BROWDER, Director
Contract Project Director

Action: ADD

Reason: NEW

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File

ALAMEDA COUNTY ENVIRONMENTAL HEALTH
LUFT LOCAL OVERSIGHT PROGRAM

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET

March 26, 2018

Site Name & Address:

VALERO #3832
3450 35TH AVE.
OAKLAND, CA 94619

Local ID:	**RO0002515**
Related ID:	**NA**
RWQCB ID:	**NA**
Global ID:	**T06019757161**

All Responsible Parties

RP has been named a Primary RP – EXXONMOBILE
ATTN: JENNIFER SEDLACHEK
4096 PIEDMONT AVE #194 | OAKLAND, CA 94611 | (510) 547-8196

RP has been named a Primary RP – BNY WESTERN TRUST COMPANY
C/O R J DOLD
3200 SOUTHWEST FWY | HOUSTON, TX 77027 | No Phone Number Listed

RP has been named a Primary RP – MHCB (USA) LEASING & FINANCE CORPORATION
C/O R J DOLD
700 LOUISIANA ST. #3500 | HOUSTON, TX 77002| No Phone Number Listed

RP has been named a Primary RP - VALERO
ATTN: ROGER LEVIN
10955 WESTMOOR DRIVE SUITE 400 | WEST MINSTER, CO 80021 | No Phone Number Listed

RP has been named a Primary RP - FWS HIGHLAND LLC
99 S. HILL DR | BRISBANE, CA 94005-1274 | No Phone Number Listed

RP has been named a Primary RP – BIEU T TRAN, ANDY H CHAN & PETER H. CHEN
13081 BROOKPARK ROAD | OAKLAND, CA 94619-3503| (510) 867-1288

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET (Continued)

March 26, 2018

Responsible Party Identification Background

Alameda County Environmental Health (ACEH) names a "Responsible Party," as defined under 23 C.C.R Sec. 2720. Section 2720 defines a responsible party 4 ways. An RP can be:

1. "Any person who owns or operates an underground storage tank used for the storage of any hazardous substance."
2. "In the case of any underground storage tank no longer in use, any person who owned or operated the underground storage tank immediately before the discontinuation of its use."
3. "Any owner of property where an unauthorized release of a hazardous substance from an underground storage tank has occurred."
4. "Any person who had or has control over an underground storage tank at the time of or following an unauthorized release of a hazardous substance."

Existence of Unauthorized Release

Three 12,000-gallon gasoline underground storage tanks (USTs) and approximately 1,000 feet of dispenser piping were excavated and removed from the site in June, 2002. Maximum petroleum hydrocarbon concentrations of 24 milligrams per kilogram (mg/Kg) total petroleum hydrocarbons as gasoline (TPH-g) were detected in soil samples collected beneath the dispenser piping. A grab-groundwater sample recovered from fuel tank pit excavation was reported to contain 5,600 micrograms per liter (ug/L) TPH-g, 140 ug/L benzene, and 12,000 ug/L methyl tertiary butyl ether (MTBE). These concentrations indicate an unauthorized release has occurred from the underground storage tank system at this site.

Responsible Party Identification

EXXON Corporation acquired title of the property on October 31, 1988. EXXON Corporation merged with Mobil Corporation on November 30, 1999, becoming EXXONMobil Corporation. EXXONMobil Corporation, as a successor to EXXON Corporation, meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

BNY Western Trust Company c/o R J Dold acquired title of the property on June 16, 2000. BNY Western Trust Company c/o R J Dold meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

MHCB (USA) Leasing & Finance Corporation c/o R J Dold acquired title of the property on July 16, 2003. MHCB (USA) Leasing & Finance Corporation c/o R J Dold meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

Valero acquired title of the property on January 12, 2011. Valero meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

FWS Highland LLC acquired title of the property on March 2, 2011. FWS Highland LLC meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

Bieu T Tran, Andy H Chan and Peter H Chen acquired title of the property on March 3, 2015. Bieu T Tran, Andy H Chan and Peter H Chen meet the definition of a responsible party for the site because they own the property where an unauthorized release occurred (Definition 3).

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
REBECCA GEBHART, Acting Director

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

June 23, 2016

ExxonMobil
4096 Piedmont Ave., #194
Oakland, CA 94611
Attn.: Jennifer Sedlachek
(*Sent via electronic mail to:*
jennifer.c.sedlachek@exxonmobil.com)

Valero
10955 Westmoor Drive, Suite 400
West Minster, CO 80021
Attn.: Roger Levin
(*Sent via electronic mail to:*
roger.levin@valero.com)

BNY Western Trust Company
3200 Southwest Fwy
Houston, TX 77027
Attn.: R J Dold

MHCB (USA) Leasing & Finance Corporation
c/o Ad Valorem Tax Department
PO Box 690110
San Antonio, TX 78269-0110

FSW Highland LLC
99 S. Hill Drive
Brisbane, CA 94005-1274

Bieu Tran & Andy H Chan et al
3755 38th Ave.
Oakland, CA 94619-2063

Subject: Notice of Responsibility Update - Fuel Leak Case No. RO0002515 and Geotracker Global ID #T06019757161, Valero #3832, 3450 35th Avenue, Oakland, CA 94619

Dear Responsible Parties:

In a Notice of Responsibility dated February 25, 2003, ExxonMobil, Valero, and BNY Western Trust Company were notified that the above referenced site had been placed in the Local Oversight Program and were named as Responsible Parties for the fuel leak case. MHCB (USA) Leasing & Finance Corporation, FSW Highland LLC, and Bieu Tran & Andy H Chan et al have been named as additional Responsible Parties for the fuel leak case as defined under 23 C.C.R Sec. 2720. Please see Attachment A – Responsible Parties Data Sheet, which identifies all Responsible Parties and provides background on the unauthorized release and Responsible Party Identification.

If you have any questions, please call me at (510) 567-6764 or send me an electronic mail message at keith.nowell@acgov.org.

Sincerely,

Keith Nowell

Digitally signed by Keith Nowell
DN: cn=Keith Nowell, o, ou, email=keith.nowell@acgov.org, c=US
Date: 2016.06.21 16:47:34 -07'00'

Keith Nowell, PG, CHG
Hazardous Materials Specialist

Attachment A – Responsible Parties Data Sheet

cc: Dilan Roe, ACEH, (*Sent via electronic mail to dilan.roe@acgov.org*)
Keith Nowell, ACEH, (*Sent via electronic mail keith.nowell@acgov.org*)
Geotracker, Electronic File

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
REBECCA GEBHART, Acting Director

ENVIRONMENTAL HEALTH DEPARTMENT
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Certified Mail #: 7009 2820 0001 4359 5401

June 23, 2016

NOTICE OF RESPONSIBILITY

Site Name & Address:
VALERO #3832
3450 35TH AVE.
OAKLAND, CA 94619

Local ID: RO0002515
Related ID: NA
RWQCB ID: NA
Global ID: T06019757161

Responsible Party:

MHCB (USA) LEASING & FINANCE CORPORATION
C/O AD VALOREM TAX DEPARTMENT
PO BOX 690110
SAN ANTONIO, TX 78269-0110

Date First Reported: 10/03/2002
Substance: • Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified MHCB (USA) LEASING & FINANCE CORPORATION as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5752.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.

Ronald Browder Date: 06-21-2016

RONALD BROWDER, Acting Director
Contract Project Director

Action: Update
Reason: ADD

Attachment A: Responsible Parties Data Sheet

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
REBECCA GEBHART, Acting Director

ENVIRONMENTAL HEALTH DEPARTMENT
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Certified Mail #: 7009 2820 0001 4359 5388

June 23, 2016

NOTICE OF RESPONSIBILITY

Site Name & Address:
VALERO #3832
3450 35TH AVE.
OAKLAND, CA 94619

Local ID: RO0002515
Related ID: NA
RWQCB ID: NA
Global ID: T06019757161

Responsible Party:

FSW HIGHLAND LLC
99 S. HILL DR
BRISBANE, CA 94005-1274

Date First Reported: 10/03/2002
Substance: • Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified FSW HIGHLAND LLC as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5752.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.

Ronald Browder Date: 06-24-2016

RONALD BROWDER, Acting Director
Contract Project Director

Action: Update
Reason: ADD

Attachment A: Responsible Parties Data Sheet

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
REBECCA GEBHART, Acting Director

ENVIRONMENTAL HEALTH DEPARTMENT
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Certified Mail #: 7009 2820 0001 4359 5395

June 23, 2016

NOTICE OF RESPONSIBILITY

Site Name & Address:
VALERO #3832
3450 35TH AVE.
OAKLAND, CA 94619

Local ID:	RO0002515
Related ID:	NA
RWQCB ID:	NA
Global ID:	T06019757161

Responsible Party:

TRAN BIEU T & CHAN ANDY H ET AL
3755 38TH AVE
OAKLAND, CA 94619-2063

Date First Reported:	10/03/2002
Substance:	• Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Funding for Oversight:	LOPS - LOP State Fund
Multiple RPs?:	Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified TRAN BIEU T & CHAN ANDY H ETAL as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5752.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.

Ronald Browder Date: 06-21-2016

RONALD BROWDER, Acting Director
Contract Project Director

Action:	Update
Reason:	ADD

Attachment A: Responsible Parties Data Sheet

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File

ALAMEDA COUNTY ENVIRONMENTAL HEALTH
LUFT LOCAL OVERSIGHT PROGRAM

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET

June 23, 2016

Site Name & Address:
VALERO #3832
3450 35TH AVE.
OAKLAND, CA 94619

Local ID:	RO0002515
Related ID:	NA
RWQCB ID:	NA
Global ID:	T06019757161

All Responsible Parties

RP has been named a Primary RP – EXXONMOBILE
ATTN: JENNIFER SEDLACHEK
4096 PIEDMONT AVE #194 | OAKLAND, CA 94611 | 510) 547-8196

RP has been named a Primary RP – BNY WESTERN TRUST COMPANY
ATTN.: R J DODD
3200 SOUTHWEST FWY | HOUSTON, TX 77027 | No Phone Number Listed

RP has been named a Primary RP – MHCB (USA) LEASING & FINANCE CORPORATION
C/O AD VALOREM TAX DEPARTMENT
PO BOX 690110 | SAN ANTONIO, TX 78269-0110| No Phone Number Listed

RP has been named a Primary RP - VALERO
ATTN: ROGER LEVIN
10955 WESTMOOR DRIVE SUITE 400 | WEST MINSTER, CO 80021 | No Phone Number Listed

RP has been named a Primary RP - FSW HIGHLAND LLC
99 S. HILL DR | BRISBANE, CA 94005-1274 | No Phone Number Listed

RP has been named a Primary RP - TRAN BIEU T & CHAN ANDY H ETAL
3755 38TH AVE | OAKLAND, CA 94619-2063| No Phone Number Listed

Responsible Party Identification Background

Alameda County Environmental Health (ACEH) names a "Responsible Party," as defined under 23 C.C.R Sec. 2720. Section 2720 defines a responsible party 4 ways. An RP can be:

1. "Any person who owns or operates an underground storage tank used for the storage of any hazardous substance."
2. "In the case of any underground storage tank no longer in use, any person who owned or operated the underground storage tank immediately before the discontinuation of its use."
3. "Any owner of property where an unauthorized release of a hazardous substance from an underground storage tank has occurred."
4. "Any person who had or has control over an underground storage tank at the time of or following an unauthorized release of a hazardous substance."

Existence of Unauthorized Release

Three 12,000-gallon gasoline underground storage tanks (USTs) and approximately 1,000 feet of dispenser piping were excavated and removed from the site in June, 2002. Maximum petroleum hydrocarbon concentrations of 24 milligrams per kilogram (mg/Kg) total petroleum hydrocarbons as gasoline (TPH-g) were detected in soil samples collected beneath the dispenser piping. A grab-groundwater sample recovered from fuel tank pit excavation was reported to contain 5,600 micrograms per liter (ug/L) TPH-g, 140 ug/L benzene, and 12,000 ug/L methyl tertiary butyl ether (MTBE). These concentrations indicate an unauthorized release has occurred from the underground storage tank system at this site.

Responsible Party Identification

EXXON Corporation acquired title of the property on October 31, 1988. EXXON Corporation merged with Mobil Corporation on November 30, 1999, becoming EXXON Mobil Corporation. EXXON Mobil Corporation, as a successor to EXXON Corporation, meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

BNY Western Trust Company acquired title of the property on June 16, 2000. BNY Western Trust Company meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

MHCB (USA) Leasing & Finance Corporation acquired title of the property on July 16, 2003. MHCB (USA) Leasing & Finance Corporation meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

Valero acquired title of the property on January 12, 2011. Valero meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

FWS Highland LLC acquired title of the property on March 2, 2011. FWS Highland LLC meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

Tran Bieu T & Chan Andy H ETAL acquired title of the property on March 3, 2015. Tran Bieu T & Chan Andy H ETAL meets the definition of a responsible party for the site because it owns the property where an unauthorized release occurred (Definition 3).

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

Certified Mail # 7001 2510 1997 3859
February 25, 2003

Notice of Responsibility

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

Record ID: RO0002515
Valero Facility 3832
3450 35th Ave
Oakland, CA 94619

SITE

Date First Reported: 06/14/02
Substance: Gasoline
Funding (Federal or State): F
Multiple RPs?: Y

Exxon/Mobil
Gene Ortega
2300 Clayton, #1250
Concord, CA 94520

Responsible Party (RP #3)
(list of all RPs attached)

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified Exxon/Mobil as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency within 20 calendar days of receipt of this notice which identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5700.

Pursuant to section 25299.37(c) (7) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact Don Hwang, Hazardous Materials Specialist, at this office at (510) 567-6746 for further information about the site designation process.

Date: 3/13/03

Ariu Levi, Chief
Contract Project Director

Please Circle One (Add) Delete Change

Reason: _____

c: Lori Casias, SWRCB
Don Hwang, Hazardous Materials Specialist

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

7001 2510 0007 1997 3859

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

Sent To: EXXON Mobil / Gene Ortega
Street, Apt. No., or PO Box No.: 2300 CLAYTON #1250
City, State, ZIP+4: CONCORD, CA 94619

SENDER:
- Complete ite
- Complete ite
- Print your na card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

1. ☐ Addressee's Address
2. ☐ Restricted Delivery
Consult postmaster for fee.

3. Article Addressed to:
EXXON Mobil
GENE ORTEGA
2300 CLAYTON #1250
CONCORD, CA 94619

4a. Article Number
7001 2510 0007 1997 3859

4b. Service Type
☐ Registered ☑ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
03/26/03

5. Received By: (Print Name)
GENE ORTEGA

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

PS Form 3811, December 1994 102595-97-B-0179 Domestic Return Receipt

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

Certified Mail # 7001 2510 0007 1997 3842
February 25, 2003

Notice of Responsibility

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

Record ID: RO0002515
Valero Facility 3832
3450 35th Ave
Oakland, CA 94619

SITE

Date First Reported: 06/14/02
Substance: Gasoline
Funding (Federal or State): F
Multiple RPs?: Y

BNY Western Trust
c/o R J Dold
3200 SW FRWY, #3050
Houston, TX 77027

Responsible Party (RP)
Property Owner

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified Exxon/Mobil as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency within 20 calendar days of receipt of this notice which identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

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Pursuant to section 25299.37(c) (7) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact Don Hwang, Hazardous Materials Specialist, at this office at (510) 567-6746 for further information about the site designation process.

Date: 3/11/03

Ariu Levi, Chief
Contract Project Director

Please Circle One Add Delete Change

Reason: _____

c: Lori Casias, SWRCB
Don Hwang, Hazardous Materials Specialist

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

7001 2510 0007 1997 3842

OFFICIAL USE

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

Sent To: BNY WESTERN TRUST/RJDM
Street, Apt. No.; or PO Box No.: 3200 SW FWY #3050
City, State, ZIP+4: HOUSTON, TX 77027

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
BNY WESTERN TRUST/RJDM
3200 SW FWY #3050
HOUSTON TX 77027

7001 2510 0007 1997 3842

4a. Article Number

4b. Service Type
☐ Registered ☑ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery: 3/27/03

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X

PS Form 3811, December 1994 102595-97-B-0179 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

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

Certified Mail # 7002 0860 0006 1510 3593
February 25, 2003

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

Notice of Responsibility

Record ID: RO0002515
Valero Facility 3832
3450 35th Ave
Oakland, CA 94619

SITE

Date First Reported: 06/14/02
Substance: Gasoline
Funding (Federal or State): F
Multiple RPs?: Y

Valero
Joe Aldridge
685 W 3rd St
Hanford, CA 93230

Responsible Party (RP #2)
(list of all RPs attached)

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified Exxon/Mobil as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency within 20 calendar days of receipt of this notice which identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

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Pursuant to section 25299.37(c) (7) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact Don Hwang, Hazardous Materials Specialist, at this office at (510) 567-6746 for further information about the site designation process.

Date: 3/12/03

Ariu Levi, Chief
Contract Project Director

Please Circle One Add Delete Change

Reason:

c: Lori Casias, SWRCB
Don Hwang, Hazardous Materials Specialist

NOR1 4/01

ALAMEDA COUNTY - DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS MATERIALS DIVISION

February 25, 2003

LIST OF RESPONSIBLE PARTIES FOR

SITE

Record ID: RO0002515
Valero Facility #3832
5481 Brisa St
Livermore, CA 94550

Date First Reported 06/14/02
Substance: Gasoline
Petroleum (X) Yes
Source: F

BNY Wester Trust
c/o R J Dold
3200 SW FRWY #3050
Houston, TX 77027

Responsible Party #1
Property Owner

Valero
Joe Aldridge
685 W 3rd St
Hanford, CA 93230

Responsible Party #2
Contact Company
Contact Person

ExxonMobil
Gene Ortega
2300 Clayton, #1250
Concord, CA 94520

Responsible Party #3
Contact Company
Contact Person

7002 0860 0006 1510 3593

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

Sent To: VALERO/Joe Aldridge
Street, Apt. No.; or PO Box No.: 685 W. 3rd St.
City, State, ZIP+4: Hanford CA 93230

PS Form 3800, April 2002 — See Reverse for Instructions

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee).
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
VALERO
Joe Aldridge
685 W. 3rd St
Hanford, CA 93230

4a. Article Number: 7002 0860 0006 1510 3593

4b. Service Type
☐ Registered ☑ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery: 3/25/07

5. Received By: (Print Name) Dennis Smith

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X

PS Form 3811, December 1994 — 102595-97-B-0179 — Domestic Return Receipt

Thank you for using Return Receipt Service.

COUNTY OF ALAMEDA
Assessor's Office
Property Value System

Help
New Query

History | Value | Transfer | Map | Glossary

Parcel Number:**30-1980-20-1** Inactive:**N** Lien Date:**01/01/2016** Owner:**CHAN ANDY H & CHEN PETER H ETAL**
Property Address: **3450 35TH AVE, OAKLAND, CA 94619-1335**
Current Mailing Address as of 12/21/2016: **CHAN ANDY H & CHEN PETER H ETAL, 13081 BROOKPARK RD , OAKLAND, CA 94619-3503**
Parcel History

Mailing Name		Historical Mailing Address		Document Date	Document Number		Value From Trans Tax	Parcel Count	Use
TRAN BIEU T & CHAN ANDY H ETAL	List Owners	3755 38TH AVE , OAKLAND, CA 94619-2063	03/03/2015	2015-58151		1		3000	
TRAN BIEU T & CHAN ANDY H ETAL	List Owners	3755 38TH AVE , OAKLAND, CA 94619-2063	03/03/2015	2015-58150		1		3000	
TRAN BIEU T & CHAN ANDY H ETAL	List Owners	3755 38TH AVE , OAKLAND, CA 94619-2063	03/03/2015	2015-58149		1		3000	
TRAN BIEU T & CHAN ANDY H ETAL	List Owners	3755 38TH AVE , OAKLAND, CA 94619-2063	03/03/2015	2015-58152	$280,000	1		3000	
FWS HIGHLAND LLC	List Owners	99 S HILL DR , BRISBANE, CA 94005-1274	03/02/2011	2011-70098		1		3000	
VALERO REFINING CO CALIFORNIA	List Owners	ONE VALERO WAY , SAN ANTONIO, TX 78249	01/12/2011	2011-11479		2		3000	
VALERO REFINING CO CALIFORNIA	List Owners	ONE VALERO WAY , SAN ANTONIO, TX 78249	01/12/2011	2011-11476		1		3000	
MHCB (USA) LEASING & FINANCE CORPORATION c/o R J DOLD	List Owners	700 LOUISIANA ST # 3500, HOUSTON, TX 77002	07/16/2003	2003-413771		1		8500	
BNY WESTERN TRUST COMPANY c/o R J DOLD	List Owners	3200 SOUTHWEST FWY , HOUSTON, TX 77027	06/16/2000	2000-180889	$369,000	1		8500	
EXXON CORPORATION	List Owners	PO BOX 53 , HOUSTON, TX 77001	10/31/1988	1988-275834	$263,500	1		8500	
TEXACO REFINING & MARKETING INC c/o TAX DEPT	List Owners	PO BOX 54419 , LOS ANGELES, CA 90054-0419	12/12/1985	1985-264033		4		8500	
TEXACO INC c/o TEXACO INC TAX DEPT	List Owners	PO BOX 54419 , LOS ANGELES, CA 90054-0419	03/27/1985	1985-60779		1		8500	
STATEWIDE STATIONS INC c/o TEXACO	List Owners	3350 WILSHIRE BLVD , LOS ANGELES, CA 90010-1824	06/14/1976	1976-93819	$262,500	1		8500	
TEXACO INC	List Owners	3450 35TH AVE , OAKLAND, CA 94619-1335	12/27/1972	1972-173856		6		8500	

COUNTY OF ALAMEDA
Assessor's Office
Property Value System

Help
New Query

History | Value | Transfer | Map | Glossary

Parcel Number:30-1980-16 Inactive:Y Lien Date:01/01/2018 Owner:TEXACO INC
Property Address: 3450 35TH AVE, OAKLAND, CA 94619-1335
Parcel History

Mailing Name	Historical Mailing Address	Document Date	Document Number	Value From Trans Tax	Parcel Count	Use

Assessor's Office - Property Search Results

COUNTY OF ALAMEDA
Assessor's Office
Property Value System

Help

New Query

Name	Parcel No	Property Address	USE					
TEXACO INC	30-1980-16	3450 35TH AVE , OAKLAND, CA 94619-1335	0000	History	Value	TransferList	Map	
CHAN, ANDY H	30-1980-20-1	3450 35TH AVE , OAKLAND, CA 94619-1335	3000	History	Value	TransferList	Map	
CHEN, PETER H	30-1980-20-1	3450 35TH AVE , OAKLAND, CA 94619-1335	3000	History	Value	TransferList	Map	
TRAN, BIEU T	30-1980-20-1	3450 35TH AVE , OAKLAND, CA 94619-1335	3000	History	Value	TransferList	Map	

ETIC
CONSULT ENGINEER CONSTRUCT

250 W. Colorado Avenue | Suite 110 | Arcadia, CA 91007
Phone 626-432-5999 | Fax 626-432-5998
www.eticeng.com | License No. 624022

18 January 2018

Mr. Keith Nowell
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: **List of Landowners Form**
Former Exxon Service Station 70234
3450 35th Avenue, Oakland, California
ACHCSA File No. RO0002515

Dear Mr. Nowell:

Attached for your review is the List of Landowners Form that has been prepared at the request of ExxonMobil Environmental Services Company on behalf of ExxonMobil Oil Corporation (ExxonMobil) by ETIC for the above-referenced site. The form is being submitted to comply with the requirements for closure under the State Water Resources Control Board's Low Threat Underground Storage Tank Closure Policy for Alameda County Health Care Services Agency Case No. RO0002515.

Based upon my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

If you have any questions or need additional information regarding this project, please do not hesitate to contact Kate Lamb at (626) 432-5999-4710, ext. 2506.

Sincerely,

Kate Lamb
Senior Project Manager

Attachment: List of Landowners Form

c: w/ attachment:
Mr. Bieu Tran, 13081 Brookpark Road, Oakland, CA 94619
Mr. Shay Wideman, The Valero Companies, Environ. Liability Mgt., P.O. Box 696000, San Antonio, TX 78269

c: w/o attachment:
Mr. Ryan Haughy, ETIC

Attachment

13081 Brookpark Road

LIST OF LANDOWNERS FORM

County of Alameda
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Oakland, CA 94619-3503

bieutran@yahoo.com

CERTIFIED LIST OF RECORD FEE TITLE OWNERS FOR:

Site Name: VALERO #3832

Address: 3450 35th AVENUE

City, State, Zip: OAKLAND, CA 94619

Record ID #: RO0002515

Please fill out item 1 if there are multiple site landowners (attach an extra sheet if necessary). If you are the sole site landowner, skip item 1 and fill out item 2.

1. In accordance with Section 25297.15(a) of Chapter 6.7 of the California Health & Safety Code, I, JENNIFER C. SEDLACHEK (name of primary responsible party), certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site:

Name: BIEU TRAN & ANDY H. CHAN & PETER H. CHEN
Address: 13081 BROOKPARK ROAD
City, State, Zip: OAKLAND, CA 94619-3503
E-mail Address: bieutran@yahoo.com

Name:
Address:
City, State, Zip:
E-mail Address:

Name:
Address:
City, State, Zip:
E-mail Address:

2. In accordance with Section 25297.15(a) of Chapter 6.7 of the California Health & Safety Code, I _____, certify that I am the sole landowner for the above site.

Sincerely,

Signature of Primary Responsible Party	Printed Name	Date	E-mail Address
[signature]	JENNIFER C. SEDLACHEK	1-16-18	jennifer.c.sedlachek@exxonmobil.com

ATTACHMENT C-2

Site Configuration at Time of Closure

Google Maps 3450 35th Ave

3450 35th Ave

ATTACHMENT D-1

Public Notification Fact Sheet & Distribution List

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
COLLEEN CHAWLA, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
LOCAL OVERSIGHT PROGRAM (LOP) FOR
HAZARDOUS MATERIALS RELEASES
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6700
FAX (510) 337-9335

January 29, 2018

ExxonMobil
4096 Piedmont Ave., #194
Oakland, CA 94611
Attn.: Jennifer Sedlachek
(Sent via electronic mail to: jennifer.c.sedlachek@exxonmobil.com)

Valero
10955 Westmoor Drive, Suite 400
West Minster, CO 80021
Attn.: Roger Levin
(Sent via electronic mail to: roger.levin@valero.com)

Bieu Tran & Andy H Chan et al
13081 Brookpark Rd.
Oakland, CA 94619-3503
(Sent via electronic mail to: bieutran@yahoo.com)

MHCB (USA) Leasing & Finance Corporation
c/o Ad Valorem Tax Department
PO Box 690110
San Antonio, TX 78269-0110

FWS Highland LLC
99 S. Hill Drive
Brisbane, CA 94005-1274
Attn.: Zack Spencer

BNY Western Trust Company
Address Unknown

Subject: Case Closure Consideration, Fuel Leak Case No. RO0002515 Valero #3832, 3450 35th Avenue, Oakland, CA 94619; GeoTracker Global ID T06019757161)

Dear Responsible Parties:

Alameda County Department of Environmental Health (ACDEH) is considering the above referenced site for potential case closure. As you are aware a site investigation for leakage associated with underground storage tank system(s) has been performed at the subject property to which you are named as the primary or active responsible parties.

Public Participation

Public participation is a requirement for the case closure process. In order to notify potentially affected members of the public of the potential fuel leak case closure, a *Notification of Potential Case Closure* will be distributed to addresses in the immediate vicinity. The *Notification of Potential Case Closure* requests that landowners or residents submit any comments or questions to ACDEH regarding potential case closure. ACDEH will consider all comments from the public prior to potential case closure.

SCHEDULE OF EVENTS

- **January 31, 2018** – Start of Public Comment Period
- **April 1, 2018** – End of Public Comment Period
- **30 Days** following successful completion of addressing public comments- Closure

Should you have any questions, please contact me at (510) 567–6764 or send me an electronic mail message at keith.nowell@acgov.org.

If your email address does not appear on the cover page of this notification ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Sincerely,

Keith Nowell

Digitally signed by Keith Nowell
DN: cn=Keith Nowell, o=Alameda County, ou=Department of Environmental Health, email=keith.nowell@acgov.org, c=US
Date: 2018.01.29 08:47:23 -08'00'

Keith Nowell, PG, CHG
Hazardous Materials Specialist

Enclosures: Attachment 1 – Notification of Potential Case Closure
Attachment 2 – Public Notification Distribution Identification

cc: Kate Lamb, ETIC Engineering, Inc., 250 West Colorado Boulevard, Suite 110, Arcadia, California 91007 (*Sent via electronic mail to: klamb@eticeng.com*)

Dilan Roe, ACDEH, (*Sent via electronic mail to: dilan.roe@acgov.org*)
Paresh Khatri, ACDEH, (*Sent via electronic mail to: paresh.khatri@acgov.org*)
Keith Nowell, ACDEH (*Sent via electronic mail to: keith.nowell@acgov.org*)

Geotracker, File

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
COLLEEN CHAWLA, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
LOCAL OVERSIGHT PROGRAM (LOP) FOR
HAZARDOUS MATERIALS RELEASES
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6700
FAX (510) 337-9335

INVITATION TO COMMENT – POTENTIAL CASE CLOSURE

Valero #3832
3450 35th Ave., Oakland, California
FUEL LEAK CASE RO0002515
GEOTRACKER GLOBAL ID T06019757161

January 29, 2018

The above referenced site is a fuel leak case that is under the regulatory oversight of the Alameda County Department of Environmental Health (ACDEH) Local Oversight Program for the investigation and cleanup of a release of petroleum hydrocarbons from an underground storage tank system. Site investigation and cleanup activities have been completed and the site has been evaluated in accordance with the State Water Resources Control Board Low-Threat Closure Policy. The site appears to meet all of the criteria in the Low-Threat Closure Policy. Therefore, ACDEH is considering closure of the fuel leak case.

The public is invited to review and comment on the potential closure of the fuel leak case. This notice is being sent to the current occupants and landowners of the site and adjacent properties and other known interested parties. The entire case file can be viewed over the Internet on the ACDEH website (http://www.acgov.org/aceh/lop/ust.htm) or the State of California Water Resources Control Board GeoTracker website (http://geotracker.waterboards.ca.gov). Please send written comments to Keith Nowell at the address below; all comments will be forwarded to the responsible parties. Comments received by **April 1, 2018** will be considered and responded to prior to a final determination on the proposed case closure.

If you have comments or questions regarding this site, please contact the ACDEH caseworker, Keith Nowell at 510-567-6746 or by email at keith.nowell@acgov.org. Please refer to ACDEH case RO0002515 in any correspondence.

Parcel_APN	Name	StreetAddress	Unit	City	Zip	Zip_4
28-950-37-1	SULL RAJINDER S & SUKHVINDER	2004 HARTNELL ST		UNION CITY CA	94587	3241
28-950-37-1	OCCUPANT	3201 35TH AVE		OAKLAND CA	94619	
28-952-11-3	BASUINO JAMES E & JANICE M TRS & BASUINO JOSE ETAL	2003 COMISTAS DR		WALNUT CREEK CA	94598	4210
28-952-11-3	OCCUPANT	3390 ARKANSAS ST		OAKLAND CA	94602	
28-952-12-4	CHEW SHERWIN H	686 10TH ST	7	OAKLAND CA	94607	3675
28-952-12-4	OCCUPANT	3301 35TH AVE		OAKLAND CA	94619	
28-952-13-5	THAI ANH T	2843 CORTINA WAY		UNION CITY CA	94587	1553
28-952-13-5	OCCUPANT	3231 35TH AVE		OAKLAND CA	94619	
28-955-1	SANCHEZ EMILIA	3468 MIDVALE AVE		OAKLAND CA	94602	3826
28-955-2-1	KWONG DAVID & MONA TRS	715 E 12TH ST		OAKLAND CA	94606	3624
28-955-2-1	OCCUPANT	35TH AVE		OAKLAND CA	94602	
28-955-3-4	HIGHTREE APARTMENTS LLC	2425 CHANNING WAY	692	BERKELEY CA	94704	2260
28-955-3-4	OCCUPANT	3451 35TH AVE		OAKLAND CA	94619	
28-955-6-5	TANG LINGHONG & LIU JIANG	1144 OAKLAND AVE		PIEDMONT CA	94611	4152
28-955-6-5	OCCUPANT	3420 DELAWARE ST		OAKLAND CA	94602	
28-955-7-2	BURKETT JARRELL D	3404 DELAWARE ST		OAKLAND CA	94602	
28-955-8	KRIDLE ROBERT J & JUDITH B TRS	7117 THORNHILL DR		OAKLAND CA	94611	1339
28-955-8	OCCUPANT	3328 DELAWARE ST		OAKLAND CA	94602	
28-956-13-3	LOI NGUYEN & YVONNE LE FAMILY LLC	808 HEDGESTONE WAY		MODESTO CA	95355	4559
28-956-13-3	OCCUPANT	3420 QUIGLEY ST		OAKLAND CA	94619	
28-956-14	STARKS ERMA L TR	3474 MIDVALE AVE		OAKLAND CA	94602	3874
28-956-14	OCCUPANT	3476 MIDVALE AVE		OAKLAND CA	94602	
28-956-15	WASHINGTON LINDA V TR	3480 MIDVALE AVE		OAKLAND CA	94602	3826
28-956-16	BRIDGES AARON S & DEBORAH M	3482 MIDVALE AVE		OAKLAND CA	94602	3826
30-1980-1	REDWOOD & 35TH AVENUE GAS STATION INC	6247 RIDGEMONT DR		OAKLAND CA	94619	3726
30-1980-1	OCCUPANT	3420 35TH AVE		OAKLAND CA	94619	
30-1980-2	PENG FENG B	3519 QUIGLEY ST		OAKLAND CA	94619	1338
30-1980-3	TUNG KWOK H & LI HUI Q	3105 FERNSIDE BLVD		ALAMEDA CA	94501	1759
30-1980-3	OCCUPANT	3525 QUIGLEY ST		OAKLAND CA	94619	
30-1980-20-1	CHAN ANDY H & CHEN PETER H ETAL	13081 BROOKPARK RD		OAKLAND CA	94619	3503
30-1980-20-1	OCCUPANT	3450 35TH AVE		OAKLAND CA	94619	
30-1980-21	LEI SHI Z & CAI QI S	3480 35TH AVE		OAKLAND CA	94619	1335
30-1980-22	MCCOWN JESSE M	3486 35TH AVE		OAKLAND CA	94619	1335
30-1980-23	WU EVAN	1169 BROADWAY ST		SAN FRANCISCO CA	94109	2163
30-1980-23	OCCUPANT	3492 35TH AVE		OAKLAND CA	94619	
30-1980-24	RESS CASEY & ROSSEAU KELLIE	3507 REDDING ST		OAKLAND CA	94619	1321
30-1980-25	ZHU JIAN H & MARK YUE N	3515 REDDING ST		OAKLAND CA	94619	1321
30-1980-26	MILLER MATTHEW P	3521 REDDING ST		OAKLAND CA	94619	1321
30-1980-53	BERHANE ZERAY ETAL	1321 GOLDEN GATE AVE		SAN FRANCISCO CA	94115	4715
30-1980-53	OCCUPANT	3520 QUIGLEY ST		OAKLAND CA	94619	
30-1980-54	BITKER STEVE B & LAIBITKER ALICE TRS	2 BEAUFORT HARBOR LNDG		ALAMEDA CA	94502	6516
30-1980-54	OCCUPANT	3518 QUIGLEY ST		OAKLAND CA	94619	
32-2030-130	LEE MAX	137 CRESCENT AVE		BURLINGAME CA	94010	5246

32-2030-130	OCCUPANT	3216 35TH AVE	OAKLAND CA	94619		
32-2030-131	HO SAM P & LINNA C	3230 35TH AVE	OAKLAND CA	94619	1206	
32-2030-131	OCCUPANT	3232 35TH AVE	OAKLAND CA	94619		
32-2030-132	ESPINELLO JOSE C & OLIVIA C TRS	3300 35TH AVE	OAKLAND CA	94619	1206	
32-2030-133-1	LIANG GUO S	3314 35TH AVE	OAKLAND CA	94619	1206	
32-2030-137-1	CHEN JOHN Y & NG YING	6167 MOUNT DIABLO CT	CASTRO VALLEY CA	94552	1948	
32-2030-137-1	OCCUPANT	3329 OCTAVIA ST	OAKLAND CA	94619		
32-2030-138	WHEAT EVELYN E TR	3319 OCTAVIA ST	OAKLAND CA	94619	1267	
32-2030-143	RICHARDS ELLEN L	3518 SUTER ST	OAKLAND CA	94619	1233	
32-2030-144	MA JASON & LANA & JENNY	484 CREIGHTON WAY	OAKLAND CA	94619	2308	
32-2030-144	OCCUPANT	3510 SUTER ST	OAKLAND CA	94619		
32-2030-145	HO STEPHEN K & LI JINLI	3508 SUTER ST	OAKLAND CA	94619	1233	
32-2030-145	OCCUPANT	3506 SUTER ST	OAKLAND CA	94619		
28-952-13-3	LU EDWARD Z TR & LU GEORGE	2503 LAKEVIEW DR	SAN LEANDRO CA	94577	6310	
28-952-13-3	OCCUPANT	3397 ARKANSAS ST	OAKLAND CA	94602		
	OAKLAND PUBLIC WORKS	250 FRANK OGAWA PLAZA	SUITE 5 OAKLAND, CA	94612		ATTN: MARK ARNIOLA
	EAST BAY MUNICIPAL UTILITY DISTRICT	P.O. BOX 24055	OAKLAND, CA	94623	1055	ATTN: KEN MINN
	EAST BAY MUNICIPAL UTILITY DISTRICT	P.O. BOX 24055	MS 702 OAKLAND CA	94623	1055	ATTN: CHANDRA JOHANNESSC
	SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD	1515 CLAY ST., STE 1400	OAKLAND CA	94612		ATTN: LAURENT MEILLIER
	ALAMEDA COUNTY CERTIFIED UNIFIED PROGRAM AGENCY	1131 HARBOR BAY PARKWAY	ALAMEDA CA	94502	6577	ATTN: SUSAN HUGO


Antioch
Concord
Oakland
San Leandro
Livermore
Fremont
San Mateo
San Jose
DELAWARE ST
DAKOTA ST
ARKANSAS ST
KANSAS ST
QUIGLEY ST
LOMA VISTA AV
REDDING ST
BROWN AV
MANGELS AV
HAGEMAN AV
OCEANVIEW ST
LOMA VISTA WY
VIOLA ST
38TH AV
OLIVER ST
Legend
Parcels
BART Station
BART Tracks
Railroads
Freeway_Single 25k to 100
Freeways 25k to 100
<all other values>
3
Streets 0 to 10k
Ramps 25k to 100
Unnamed Streets
Waterbodys
LakePond
SwampMarsh
Bay
Rivers
Parks
East Bay Parks
Planning Areas
Cities
Alameda
Albany
Berkeley
Dublin
Emeryville
Notes
Parcels selected for public notificaion for potential case closure
1: 5,181
RO2515- EXXON #7-0234
863.5
0
431.73
863.5 Feet
WGS_1984_Web_Mercator_Auxiliary_Sphere
© Latitude Geographics Group Ltd.
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ATTACHMENT E

Attachment E-1: List of Attachments

Attachment E-2: List of Acronyms & Symbols

ATTACHMENT E-1

LIST OF ATTACHMENTS

A	**LTCP Evaluation**
A-1	Geotracker LTCP Evaluation Checklist
A-2	Site Conceptual Model Summary
A-3	LTCP Media Specific Evaluation for Groundwater
A-4	LTCP Media Specific Evaluation for Vapor Intrusion
A-5	LTCP Media Specific Evaluation for Direct Contact and Outdoor Air Exposure
B	**Site Investigation Data**
B-1	Site Vicinity & Site Maps with Sampling Locations,
B-2	Preferential Pathways & Sensitive Receptor Survey Data
B-3	Boring Logs
B-4	Groundwater Data
B-5	Soil Data
B-6	Soil Vapor Data
C	**Responsible Party and Property Information**
C-1	Responsible Party & Assessor's Office Property Information, Site Configuration at Time of Case Closure
C-2	Site Configuration at Time of Case Closure
D	**Case Closure Public Notification Information**
D-1	Public Notification Fact Sheet & Distribution List
E	**Closure Form Keys**
E-1	List of Attachments
E-2	List of Acronyms & Symbols

ATTACHMENT E-2

Acronym or Symbol	Description
ACDEH	Alameda County Department of Environmental Health
APN	Assessor Parcel Number
BTEX	benzene, toluene, ethylbenzene, xylenes
EDB	ethylene dibromide or 1,2-dichloroethane (1,2-DCA)
EDC	ethylene dichloride
CEG	Certified Engineering Geologist
Cd	cadmium
Cr	chromium
c/o	care of
DIPE	di-isopropyl ether
DTSC	California Department of Toxic Substances Control
ECs	engineering controls
EPA	Environmental Protection Agency
ETBE	ethyl tert butyl ether
EtOC	ethanol
ft bgs	feet below ground surface
GW	groundwater
IA	indoor air
ICs	institutional controls
ID	Identification
K	1,000
LOP	Local Oversight Program
LTCP	State Water Resources Control Board's Low Threat Closure Policy
LUST	Leaking Underground Storage Tank
MTBE/TBA	methyl tert butyl either/t-butyl alcohol
N	napthalene
Ni	nickel
NA	not analyzed
NR	not required
OA	outdoor air

ATTACHMENT E-2

LIST OF ACRONYMS & SYMBOLS (CONTINUED)

Acronym or Symbol	Description
Pb	lead
PCBs	polychlorinated biphenyls
PE	California Professional Engineer
PG	California Professional Geologist
S	soil
SCP	Site Cleanup Program
SS	sub-slab vapor
SV	soil vapor
SVOCs	semi volatile organic compounds
SW	surface water
TAME	tert amyl methyl ether
TPHbo	total petroleum hydrocarbons as bunker oil
TPHd	total petroleum hydrocarbons as diesel
TPHg	total petroleum hydrocarbons as gasoline
TPHho	total petroleum hydrocarbons as hydraulic oil
TPHjf	total petroleum hydrocarbons as jet fuel
TPHk	total petroleum hydrocarbons as kerosene
TPHmo	total petroleum hydrocarbons as motor oil
TPHss	total petroleum hydrocarbons as stoddard solvent
UST	underground storage tank
VOCs	volatile organic compounds
Zn	zinc
mg/kg	milligrams per kilogram
µg/L	microgram per liter
$\mu g/m^3$	microgram per cubic meter
>, <, ≥	greater than, less than, or greater than or equal to
%	percent

GEOTRACKER | Regulator Tools | Admin Tools | Reports | Other Tools | GAMA | Contact | Logout | Quick Sear

VALERO #3832 (T06019757161) - MAP THIS SITE

PUBLIC PAGE

3450 35TH AVE. - VIEW ALTERNATE ADDRESSES
OAKLAND , CA 94619
ALAMEDA COUNTY
LUST CLEANUP SITE (INFO)
STATUS: COMPLETED - CASE CLOSED

CLEANUP OVERSIGHT AGENCIES
ALAMEDA COUNTY LOP *(LEAD)* - *CASE #: RO0002515* - *KEITH NOWELL*
SAN FRANCISCO BAY RWQCB (REGION 2) - *CASE #: NA*

Activities Report | Documents / Data | Environmental Conditions | Admin | Funding | Case Reviews

THERE ARE 1 OTHER CASES ASSOCIATED WITH THIS CASE - SHOW

THIS PROJECT WAS LAST MODIFIED BY *DILAN ROF* ON 6/26/2018 1:02:18 PM - HISTORY

CLOSURE POLICY *THIS VERSION IS IN PROGRESS AS OF 6/26/2018* *CHECKLIST INITIATED ON 7/23/2013* CLOSURE POLICY HISTORY

General Criteria - *The site satisfies the policy general criteria* - CLEAR SECTION ANSWERS — YES

a. Is the unauthorized release located within the service area of a public water system? — ◉ YES ○ NO
Name of Water System : EBMUD

b. The unauthorized release consists only of petroleum (info). — ◉ YES ○ NO

c. The unauthorized ("primary") release from the UST system has been stopped. — ◉ YES ○ NO

d. Free product has been removed to the maximum extent practicable (info). — ◉ FP Not Encountered ○ YES ○ NO

e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed (info). — ◉ YES ○ NO

f. Secondary source has been removed to the extent practicable (info). — ◉ YES ○ NO

g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15. — ○ Not Required ◉ YES ○ NO

h. Does a nuisance exist, as defined by Water Code section 13050. — ○ YES ◉ NO

1. Media-Specific Criteria: Groundwater - *The contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent, and meets all of the additional characteristics of one of the five classes of sites listed below.* - CLEAR SECTION ANSWERS — YES

EXEMPTION - Soil Only Case (Release has not Affected Groundwater - Info) — ○ YES ◉ NO

Does the site meet any of the Groundwater specific criteria scenarios? — ◉ YES ○ NO

1.5 - The regulatory agency determines, based on an analysis of site specific conditions, that the site under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame. — ◉ YES ○ NO

2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - *The site is considered low-threat for the vapor-intrusion-to-air pathway if site-specific conditions satisfy items 2a, 2b, or 2c* - CLEAR SECTION ANSWERS — YES

EXEMPTION - Active Commercial Petroleum Fueling Facility — ○ YES ◉ NO

Does the site meet any of the Petroleum Vapor Intrusion to Indoor Air specific criteria scenarios? — ◉ YES ○ NO

2a - Scenario 4 (example): Direct Measurement of Soil Gas Concentrations — YES

i. Soil Gas Sampling Locations – No Bioattenuation Zone: — YES
- Beneath or adjacent to an existing building: Soil gas sample is collected at least 5 feet below the bottom of the building foundation. — ◉ YES ○ NO
- Future construction: The soil gas sample shall be collected from at least 5 feet below the ground surface (bgs). — ◉ YES ○ NO

ii. Soil Gas Sampling Locations – with Bioattenuation Zone: The criteria in Column A in the Soil Gas Criteria table (page 5 of the Policy) apply if the following requirements for a bioattenuation zone are satisfied: — YES
- Minimum of 5 feet of soil between the soil vapor measurement and the foundation of an existing or ground surface of future construction. — ◉ YES ○ NO
- TPH (TPHg + TPHd) is <100 mg/kg (measured in at least two depths within the 5-ft zone) — ◉ YES ○ NO
- Oxygen is ≥ 4% measured at the bottom of the 5-ft zone. — ◉ YES ○ NO

3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - *The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below.* - CLEAR SECTION ANSWERS — YES

EXEMPTION - The upper 10 feet of soil is free of petroleum contamination — ○ YES ◉ NO

Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios? — ◉ YES ○ NO

3(a) - Maximum concentrations of petroleum constituents in soil are less than or equal to those listed in the following table (LINK) for the specified depth below ground surface. — ◉ YES ○ NO

Additional Information

This case should be kept OPEN in spite of meeting policy criteria. — ○ YES ○ NO

Has this LTCP Checklist been updated for FY 17/18? — ◉ YES ○ NO

SPELL CHECK

Save Form as Partially Completed