

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

ALEX BRISCOE, Agency Director



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

November 7, 2012

Mr. Gary Bankhead
Kaiser Foundation Hospitals
1100 San Leandro Blvd, Ste 200
San Leandro, CA 94577

Ms. Bernie Campbell
224 Mountain Drive
Piedmont, CA 94611

Mr. Bruce Brecovich
Val Strough Honda
Address Unknown

Ms. Maude Besthorn
Address Unknown

(Sent via electronic mail to: Gary.J.Bankhead@nsmtp.kp.org)

Subject: Closure Transmittal; Fuel Leak Case No. RO0000205 and GeoTracker Global ID T0600101504, Kaiser Development / Val Strough Honda, 3735 – 3799 Broadway, Oakland, CA 94611

Dear Mr. Bankhead and Ms. Campbell:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- Residual contamination (900 mg/kg Oil & Grease; 520 mg/kg TPH as diesel [characterized as heavier a hydrocarbon]) may remain in the vicinity of a former 500-gallon waste oil UST (previously located on APN 12-980-10-1). However, according to relevant development plan details provided by Kaiser – Permanente, it appears that this area was subexcavated an additional 4.0 to 4.3 feet to construct the delivery area pavement section along the western edge of the Medical Office Building. Additional charges for the removal of contaminated soil were also documented. No further confirmation soil samples appear to have been collected.
- Excavation or construction activities in areas of residual contamination (former 500-gallon waste oil UST on former APN 12-980-10-1) require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.
- This site is to be entered into the City of Oakland Permit Tracking System due to the potential residual contamination on site.

If you have any questions, please call Mark Detterman at (510) 567-6876. Thank you.

Sincerely,

Donna L. Drogos, P.E.
Division Chief

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

Mr. Bankhead and Ms. Campbell:
RO0000205
November 7, 2012, Page 2

cc: Ms. Cherie McCaulou (w/enc.), SF- Regional Water Quality Control Board, 1515 Clay Street, Suite 1400, Oakland, CA 94612, (sent via electronic mail to CMacaulou@waterboards.ca.gov)
Leroy Griffin, Oakland Fire Department 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (sent via electronic mail to lgriffin@oaklandnet.com)
Donna Drogos, (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman (sent via electronic mail to mark.detterman@acgov.org)
Electronic File, GeoTracker



REMEDIAL ACTION COMPLETION CERTIFICATION

November 7, 2012

Mr. Gary Bankhead
Kaiser Foundation Hospitals
1100 San Leandro Blvd, Ste 200
San Leandro, CA 94577

Ms. Bernie Campbell
224 Mountain Drive
Piedmont, CA 94611

Mr. Bruce Brecovich
Val Strough Honda
Address Unknown

Ms. Maude Besthorn
Address Unknown

(Sent via electronic mail to: Gary.J.Bankhead@nsmtp.kp.org)

Subject: Case Closure for Fuel Leak Case No. RO0000205 and GeoTracker Global ID T0600101504, Kaiser Development / Val Strough Honda, 3735 – 3799 Broadway, Oakland, CA 94611

Dear Mr. Bankhead and Ms. Campbell:

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

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

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 (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Ariu Levi
Director

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

I. AGENCY INFORMATION

Date: July 26, 2012

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6876
Responsible Staff Person: Mark Detterman	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Kaiser Development / Val Strough Honda		
Site Facility Address: 3735 – 3799 Broadway, Oakland, CA 94611		
RB Case No.: 01-1629	STID No.: 1235	LOP Case No.: RO0000205
URF Filing Date: -----	Geotracker ID: T0600101504	APN: 12-980-11; 12-980-10-1; -9; -8; -7; -25-1; -4; -3 (Currently 12-980-26)
Responsible Parties	Addresses	Phone Numbers
Gary Bankhead; Kaiser Foundation Hospitals	1100 San Leandro Blvd, Suite 200, San Leandro, CA 94577	(510) 618-5886
Bruce Brecovich Val Strough Honda	Unknown address	---
Bernie Campbell	224 Mountain Drive Piedmont, CA 94611	---
Maude Besthorn	Unknown address	---

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
----	10,000	Gasoline	Removed	February 20, 1987
----	10,000	Gasoline	Removed	February 20, 1987
----	10,000	Gasoline	Removed	February 20, 1987
----	500	Waste Oil	Removed	June 11, 2007
Piping			Not Reported; Assumed disposed with USTs	February 20, 1987; June 11, 2007

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown; No data found for three previously removed fuel USTs; waste oil UST appeared in good condition with no holes; overfill assumed		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? Yes	Number: 1	Proper screened interval? Not reported.
Highest GW Depth Below Ground Surface: 5 ft *	Lowest Depth: 23 ft *	Flow Direction: South to south-southwest **
Most Sensitive Current Use: Potential drinking water source.		

* Groundwater wells were not installed; groundwater depths gathered from soil bores.

** Groundwater wells not installed, gradient from adjacent site (Chevron #9-1026; 3701 Broadway, Oakland; RO0000500).

Summary of Production Wells in Vicinity: There are no known water supply wells within approximately ¼-mile of the site.			
Are drinking water wells affected? No		Aquifer Name: East Bay Plain	
Is surface water affected? No		Nearest SW Name: Western Creek; onsite or forming western edge of parcels	
Off-Site Beneficial Use Impacts (Addresses/Locations): None			
Reports on file? Yes		Where are reports filed? Alameda County Environmental Health	
TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tanks	Three - 10,000-gallon	Not Reported	February 20, 1987
	One - 500-gallon	Disposal; Certified Services Company; Richmond, CA	June 12, 2007
Piping	Unknown linear feet	Not reported	February 20, 1987; June 12, 2007
Free Product	None Reported	NA	NA
Soil	3764.4 tons	Altamont Landfill	April 16, 2007 - September 7, 2007
Groundwater	7,640,050	Treated onsite & discharged to either EBMUD sanitary sewer or under NPDES permit to Western Creek (onsite)	May 2007 to May 2008

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

Contaminant	Soil (mg/kg)		Water (µg/l)	
	Before	After	Before	After
TPH (Gas)	2,100	180	30,000 ¹	38 ²
TPH (Diesel)	6,500	520	290,000 ¹	38 ²
TPH (Motor Oil)	16,000	<5.0	1,000,000 ¹	<300 ²
Oil and Grease	27,000	900	Not Analyzed	Not Analyzed
Benzene	<4.2	<0.0047	1,300 ¹	<0.5 ²
Toluene	5.0	<0.0045	150 ¹	<0.5 ²
Ethylbenzene	15	0.041	1,600 ¹	<0.5 ²
Xylenes	79	0.224	6,800 ¹	<0.5 ²
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	6,500 ³	120 ⁴	27 ^{2, 6}	15 ^{2, 7}
MTBE	<0.005 ⁵	<0.005 ⁵	6.5 ⁸	<0.5 ^{2, 9}
Other (8240/8270)	7.4 ¹⁰	<0.024 ¹¹	5,900 ^{1, 12, 14}	<0.5 ^{2, 13}

1 = Grab groundwater sample

2 = Dewatering system influent concentrations

3 = 4.0 mg/kg Cadmium; 140 mg/kg Chromium; 6,500 mg/kg Lead; 240 mg/kg Nickel; and 4,100 mg/kg Zinc

4 = 0.64 mg/kg Cadmium; 64 mg/kg Chromium; 120 mg/kg Lead; 72 mg/kg Nickel; and 46 mg/kg Zinc

5 = <0.005 to <1.0 mg/kg MTBE, TBA, TAME, ETBE, DIPE, EtOH, EDB, and EDC

6 = 14 µg/l Cadmium; 9.30 µg/l Chromium; 0.92 µg/l Lead; 17 µg/l Nickel; and 27 µg/l Zinc

7 = 1.1 µg/l Cadmium; 2.8 µg/l Chromium; 1.1 µg/l Lead; 15 µg/l Nickel; and 13 µg/l Zinc

8 = 6.5 µg/l MTBE; 0.05 µg/l DIPE; <0.05 µg/l TAME, ETBE, EDB, and EDC; <5.0 µg/l TBA; <1.0 µg/l ethanol and methanol

9 = <0.5 µg/l MTBE, TAME, ETBE, DIPE, EDB; and EDC; <5 µg/l TBA; <1.0 µg/l ethanol and methanol

10 = 7.4 mg/kg naphthalene and 0.200 mg/kg acetone

11 = <0.005 mg/kg naphthalene and <0.024 mg/kg acetone

12 = 5,900 µg/l naphthalene; 5.3 µg/l 1,1-Dichloroethane; 15 µg/l cis 1,2-Dichloroethene; 0.5 µg/l Tetrachlorethene; and 13 µg/l Vinyl Chloride

13 = <0.5 µg/l naphthalene, 1,1-Dichloroethane, cis 1,2-Dichloroethene; Tetrachlorethene, and Vinyl Chloride

14 = Collected at upgradient edge of combined properties.

Site History and Description of Corrective Actions:

The Kaiser Permanente Medical Office Building (MOB) and parking structure is located at 3701-3799 Broadway Avenue in Oakland, California (the Site). The MOB as a whole encompasses the city block fronting Broadway between MacArthur Boulevard to the south and 38th Street to the north. The MOB is located on the southern portion of the block, and a parking structure is located on the northern end of the block. The Site is bounded to the east by Broadway; to the south by MacArthur Boulevard; to the west by Western Creek, a single-family residence, vacant residences and Manila Street; and to the north by 38th Street. The southern MOB was excavated to a depth of approximately 15 feet below grade surface (bgs), and the parking structure was excavated to a depth of approximately 30 feet bgs.

The property located at 3701 Broadway (corner of Broadway and MacArthur Boulevard) was occupied by a Chevron gasoline service station from approximately 1924 to 1988. Although the former Chevron site is a part of the current MOB and parking structure, the property is NOT included in this closure package. This division is observed due to a separation by case numbers.

The property located at 3735-3737 Broadway was formerly occupied by a car washing facility, which previously contained three 10,000-gallon underground storage tanks (USTs) and an aboveground sump used to contain rinsate from washing operations. These USTs were removed in February 1987. This property, as well as the properties located at 3741 Broadway and 3751-3757 Broadway, were most recently occupied by Honda of Oakland and operated as a new car dealership and automotive repair facility. Historical documentation indicates that the properties at 3741 and 3751-3757 Broadway had been used as an automotive service facility since at least the 1920s. The property located at 3781 Broadway was previously used as office space by Applied Research. The building located at 3785 Broadway was occupied by a Firestone automotive service and repair facility, and the building at 3793 Broadway was most recently a pet boarding facility. The property at 3799 previously operated as a Midas automotive service and repair facility.

As the parcels were purchased and were assembled together into the current configuration, the sites were investigated both separately and as a whole. Data contained in the tables and depicted in the figures includes data from all of the sites, including the Chevron site, which is not a part of this closure. The figures and data included in this package should be consulted to determine to which parcel they apply to (specifically Chevron and non-Chevron); there is some overlap.

Initial (non-Chevron parcel) investigations began in January 2004 with the installation of soil bores SB-1 to SB-12 (soil bores SB-1 to SB-3 were installed on the former Chevron parcel.) This investigation included the collection of soil vapor data from selected soil bores (SB2-V, SB5-V, and SV7-V). An additional soil bore investigation was conducted in January 2006 when soil bores SB-13 to SB-50 were installed over a period of several weeks (soil bores SB-13 to SB-30 were installed on the former Chevron parcel.) Soil bores SB-51 to SB-76 were installed in September 2006. All were installed on non-Chevron parcels. (Additional concurrent investigations were occurring on the former Chevron parcel including: soil bores CSB-1 to CSB-22 installed in June 2006; and sixteen sidewall soil bores [as an alternative to sidewall sampling] installed in June 2006 [SWW-1 to SWW-3, SWW-5; SWS-1 to SWS-7; SWE-1 to SWE-5]. These data are not included in this closure package.)

Remediation activities were conducted on the Site between April and September 2007. The site was broken in to seven Areas of Concern (AOC). AOC 1 was the former Chevron parcel and is not further considered in this closure package. AOC 2 and AOC 7 were located within the area excavated to 15 ft bgs for the MOB. AOC 3, AOC 4, AOC 5 and AOC 6 were located in the area excavated to a depth of 30 feet bgs for the parking structure. Confirmation soil data for Areas 2 through 7 were compared to residential ESLs established by the RWQCB. Residential soil ESLs were used as remediation goals. Soils with constituents above the residential ESL target concentrations, but below hazardous waste limits specified by the landfill, were transported to Altamont Landfill in Alameda County, a Class II disposal facility. No soil was disposed of at a hazardous waste (Class I) landfill. Soil from AOC 1 (Chevron) was profiled and disposed of at an off-site facility under the direction of Chevron.

There was one 35 foot deep piezometer known to have been installed at the Kaiser Hospital at 280 W. MacArthur in June 1991. One 37 foot well / piezometer was destroyed on July 20, 2007. It is not certain that these are the same construct.

Confirmation soil samples were generally collected following removal of impacted soils. For AOCs 2 to 7 confirmation soil samples were collected to document the removal of soils with concentrations of constituents above the residential ESL levels. If confirmation soil samples did not meet ESL levels, the excavation was extended. Soil

handling and disposal was conducted in general accordance with the Soil Management Plan (SMP) and SMP Addendum prepared for the Site.

At 3735 – 3757 Broadway (AOC 2, AOC 3, AOC 4, and AOC 7) concentrations up to 690 mg/kg TPHg, 77 mg/kg TPHd, 95 mg/kg TPHmo, 7.4 mg/kg naphthalene, and 190 mg/kg lead were detected in soil. Remediation excavation confirmation soil samples for these AOC's indicate residual concentrations were present at concentrations up to 7.2 mg/kg TPHg, 100 mg/kg TPHd, 120 mg/kg TPHmo, and 23 mg/kg lead. It should be noted that this area was generally excavated an additional 5 feet below the depth of the remedial excavation (15 feet bgs total depth); however, confirmation samples were not collected. Soil bore SB-52 was located inside the area of excavation for AOC 2 and documented residual concentrations up to 180 mg/kg TPHg, 4 mg/kg total xylenes, and 1.3 mg/kg naphthalene at a depth of 20 feet bgs (up to 5 feet below the bottom of the MOB excavation); however, this may also have been partly removed at the time of the remediation excavation when a portion of the excavation was extended to a depth of 18 feet bgs in the immediate vicinity of B-52. At 3785 Broadway (AOC 6) concentrations up to 72 mg/kg TPHd, 350 mg/kg TPHmo, 44 mg/kg TPHhf, and 350 mg/kg lead were detected in soil. Remediation excavation confirmation soil samples for AOC 6 indicate residual concentrations up to 17 mg/kg lead were present. It should be noted that this area was excavated an additional 20 feet (30 feet bgs final depth). At 3799 Broadway (AOC 5) concentrations up to 4,700 mg/kg TPHd, 16,000 mg/kg TPHmo, and 17,000 mg/kg TPH hydraulic fluid (TPHhf) were detected. Remediation excavation confirmation soil samples for AOC 5 indicate residual concentrations were present at concentrations up to 8.6 mg/kg TPHd and 19 mg/kg TPHhf. It should be noted that this area was excavated an additional 10 feet (30 feet bgs final depth).

During site excavation an unknown 500-gallon waste oil UST was discovered, removed, and contaminated soil overexcavated. It was located northeast of AOC 7 immediately east of Western Creek at 3735 – 3757 Broadway. Concentrations up to 2,100 mg/kg TPHg, 5,400 mg/kg TPHd, 27,000 mg/kg Oil and Grease, 5.0 mg/kg toluene, and 150 mg/kg lead were documented. The remediation excavation confirmation soil samples (collected at an approximate depth of 15 feet bgs) indicated residual concentrations up to 520 mg/kg TPHd, 900 mg/kg Oil and Grease, and 120 mg/kg lead were present. However, according to relevant development plan details provided by Kaiser – Permanente, it appears that this area was subexcavated an additional 4.0 to 4.3 feet to construct the delivery area pavement section along the western edge of the MOB. Additional charges for the removal of contaminated soil were also documented. No further confirmation soil samples appear to have been collected.

Approximately 490 cubic yards of soil was removed from AOC 2; 280 cubic yards from AOC 3; 75 cubic yards from AOC 4; 2,000 cubic yards from AOC 5; 100 cubic yards from AOC 6; and 85 cubic yards from AOC 7. A total of 3,764 tons (excluding AOC 1) of soil with concentrations greater than the residential ESL of petroleum hydrocarbons and/or metals were transported to the Altamont landfill for disposal.

Construction dewatering of groundwater was managed by the installation and operation of an on-site dewatering and treatment system. Groundwater was initially discharged to the sanitary sewer beginning on May 7, 2007, under East Bay Municipal Utility District (EBMUD) Publicly Owned Treatment Works (POTW) permit number 5061528-1. A National Pollutant Discharge Elimination System (NPDES) General Permit (No. CAG912002 - Fuels General Permit) dated October 4, 2007, was obtained from the California RWQCB. Prior to discharge under the NPDES permit, an influent and effluent sample was collected from the system per NPDES permit start-up requirements. Discharge of the treated groundwater was routed to Western Creek under the NPDES permit beginning on October 12, 2007, and was discontinued on May 19, 2008. The system was decommissioned on June 26, 2008 and had extracted a total of approximately 7,640,050 gallons of groundwater and treated approximately 2.10 pounds of hydrocarbons.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: Case closure for this fuel leak site is granted for the case. Excavation or construction activities in areas of residual contamination (former 500-gallon waste oil UST on former APN 12-980-10-1) require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities. This site is to be entered into the City of Oakland Permit Tracking System due to the potential residual contamination on site.		
Should corrective action be reviewed if land use changes? No		
Was a deed restriction or deed notification filed? No		Date Recorded: ---
Monitoring Wells Decommissioned: Yes	Number Decommissioned: 1	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

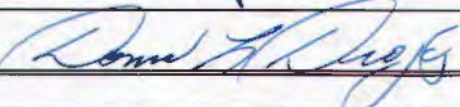
Considerations and/or Variances:

- Residual contamination (900 mg/kg Oil & Grease; 520 mg/kg TPH as diesel [characterized as heavier a hydrocarbon]) may remain in the vicinity of a former 500-gallon waste oil UST (previously located on APN 12-980-10-1). However, according to relevant development plan details provided by Kaiser – Permanente, it appears that this area was subexcavated an additional 4.0 to 4.3 feet to construct the delivery area pavement section along the western edge of the MOB. Additional charges for the removal of contaminated soil were also documented. No further confirmation soil samples appear to have been collected.
- The decommissioned well / piezometer was an unknown construct with no known association with environmental investigations associated with the subject site. It is reported to have been located in the NE corner of the parcel, was 37 feet in depth, and was decommissioned by pressure grouting on July 20, 2007.
- The ESLs identified as appropriate for use at this site and thus used in associated tables are incorrect. Groundwater remains classified as potential drinking water in the Basin Plan for this area.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment based on the information available in our files to date. No further investigation or cleanup for the fuel leak case is necessary. ACEH staff recommend closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Mark Detterman, P.G., C.E.G.	Title: Senior Hazardous Materials Specialist
Signature: 	Date: 7/27/12
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: 	Date: 07/27/12

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: 7/30/12	

Detterman, Mark, Env. Health

From: MCcaulou, Cherie@Waterboards [Cherie.MCcaulou@waterboards.ca.gov]
Sent: Monday, July 30, 2012 6:18 PM
To: Detterman, Mark, Env. Health
Subject: RE: Case Closure Summary for Kaiser Development / Val Strough Honda (RO205)

Mark – I received your notification and recommendation for case closure of Case No. RO205. We have no comments. Thank you.

From: Mark Env. Health Detterman [<mailto:Mark.Detterman@acgov.org>]
Sent: Monday, July 30, 2012 4:17 PM
To: MCcaulou, Cherie@Waterboards
Subject: Case Closure Summary for Kaiser Development / Val Strough Honda (RO205)

Attached is a closure summary for RO0000205 Kaiser Development located at 3735 – 3799 Broadway, Oakland, CA to comply with the RWQCB's 30-day review period. If no comments from the RWQCB are received within the 30-day review period, ACEH will proceed with case closure.

Please let me know if you have questions or comments regarding the site.
Regards,

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>

VIII. MONITORING WELL DECOMMISSIONING

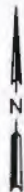
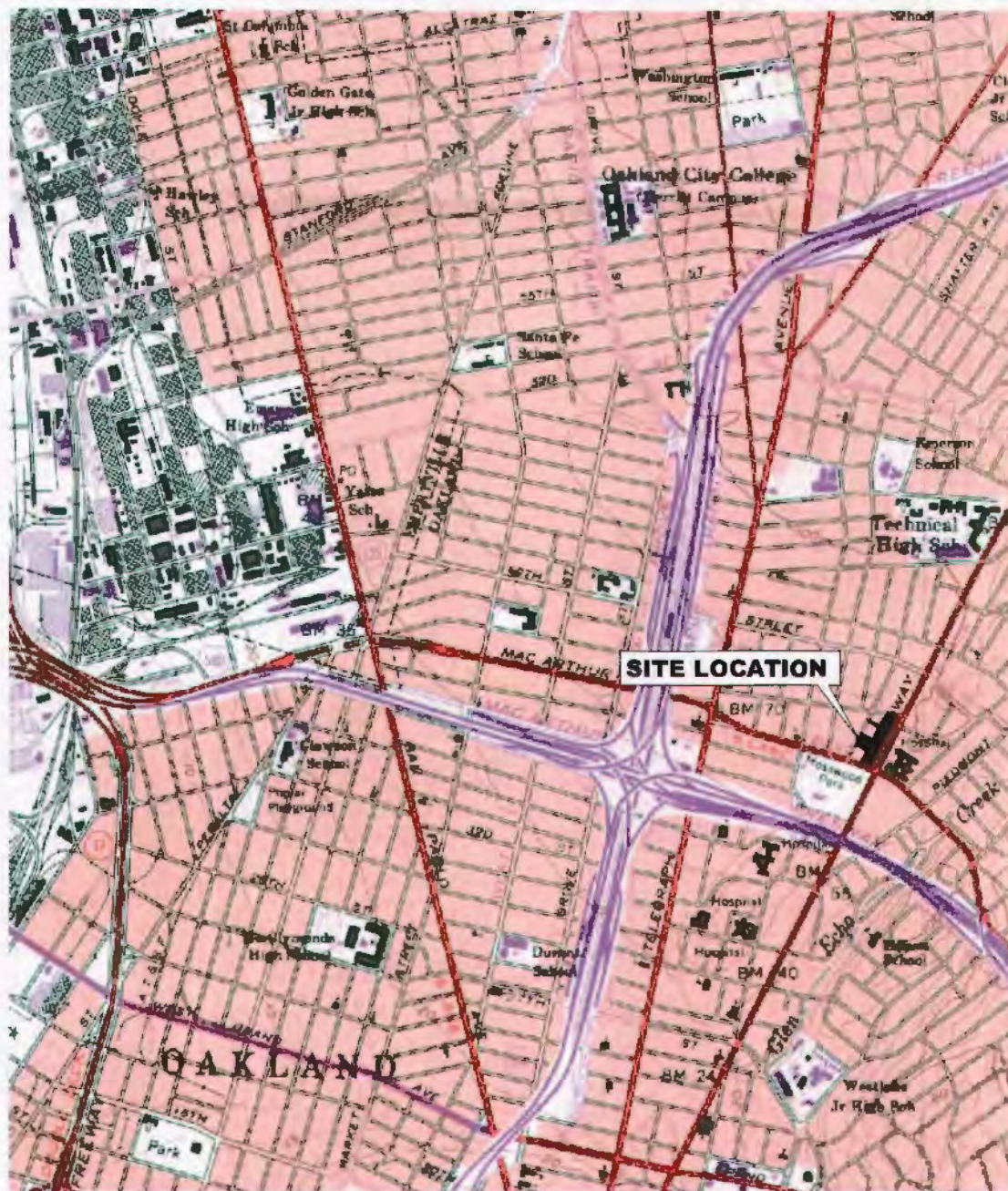
Date Requested by ACEH: NA	Date of Well Decommissioning Report: NA	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 1	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: NA		
ACEH Concurrence - Signature: 		Date: 7/27/12

Attachments:

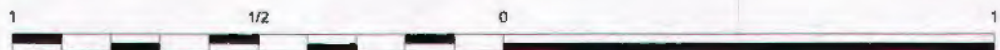
1. Site Vicinity Map (2 pp)
2. Site Plans (9 pp)
3. Soil Analytical Data (10 pp)
4. Groundwater Analytical Data (4 pp)
5. Soil Vapor Analytical Data (1 pp)
6. Boring Logs (44 pp; SB-11, SB-12, SB-31 to SB-36, SB-47 missing)
7. Cross Sections (0 pp)

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

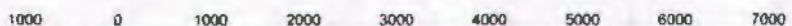
ATTACHMENT 1



CALIFORNIA



SCALE IN MILE



SCALE IN FEET

REFERENCE: Scanned USGS oakland West Quadrangle
7.5 Minute Series, Topographic
california - Photorevised 1980



SECOR

57 Lafayette Circle, 2nd Floor
Lafayette, California
Phone (925) 299-9300/299-9302 FAX

FOR:
KAISER FOUNDATION HEALTH PLAN, INC.

3701-3799 BROADWAY
Oakland, California

JOB NUMBER:
05OT.50238.01

DRAWN BY:
RRR

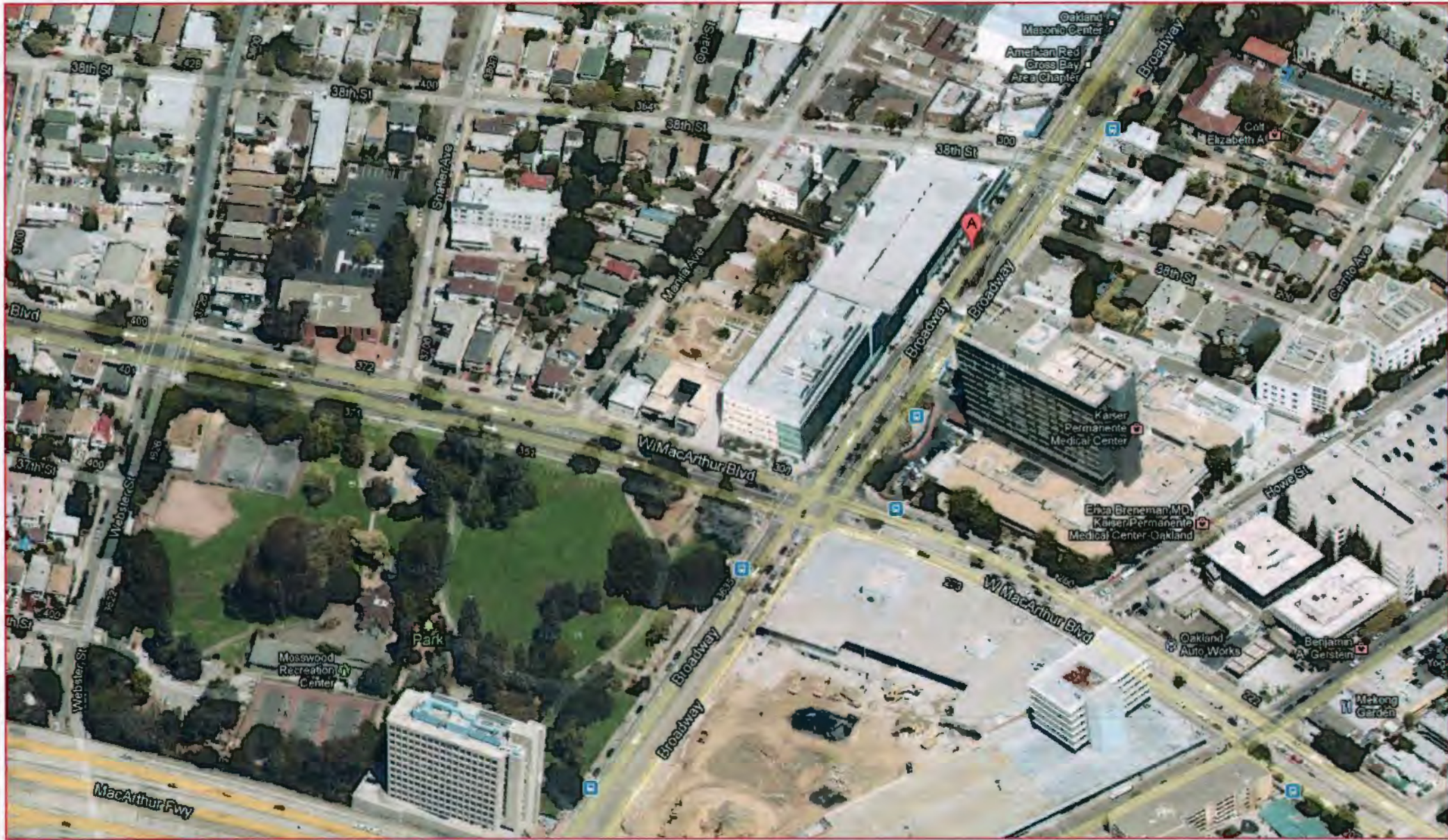
CHECKED BY:
GH

APPROVED BY:
GH

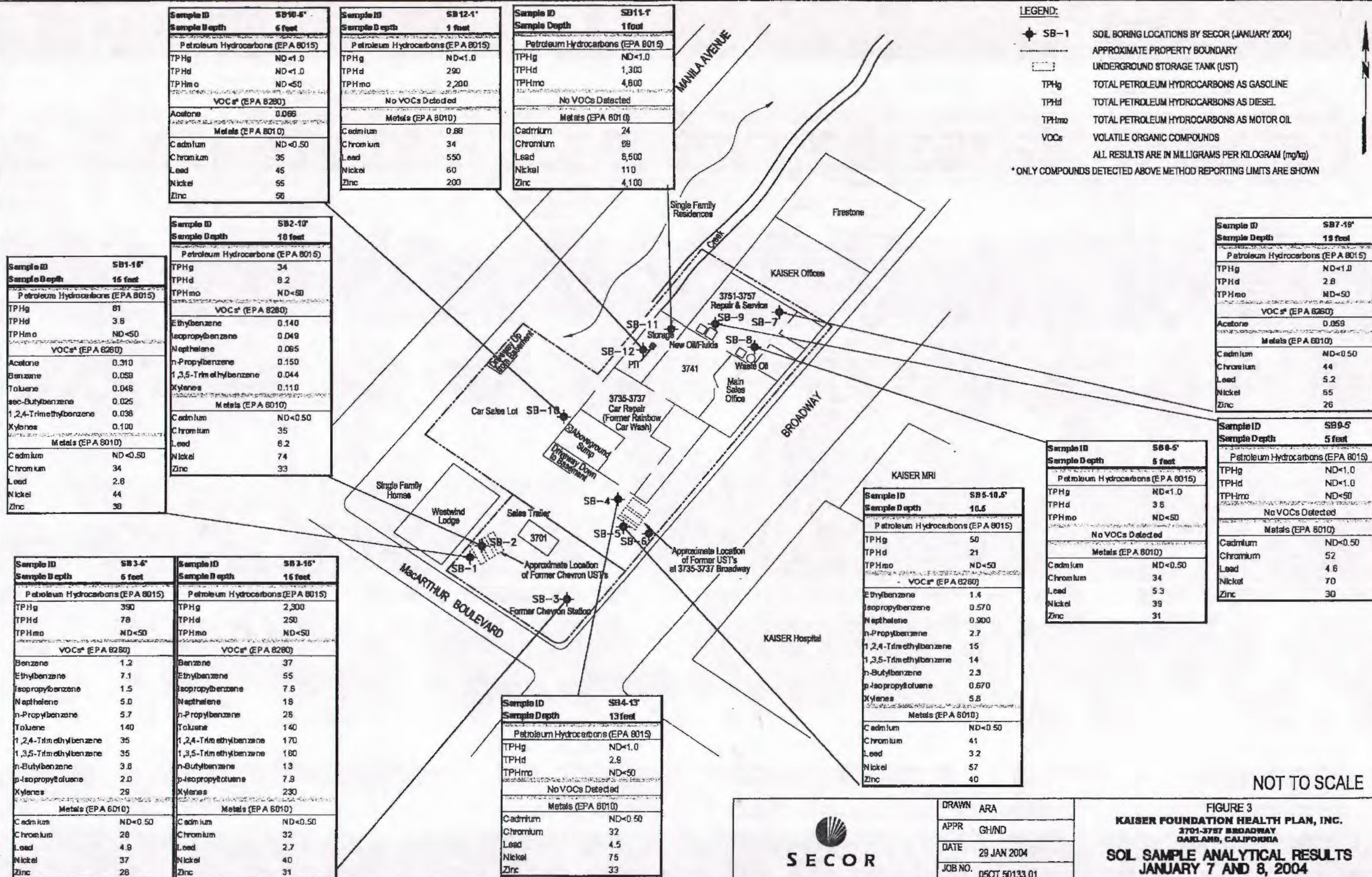
FIGURE:

1

DATE:
06/10/08



ATTACHMENT 2

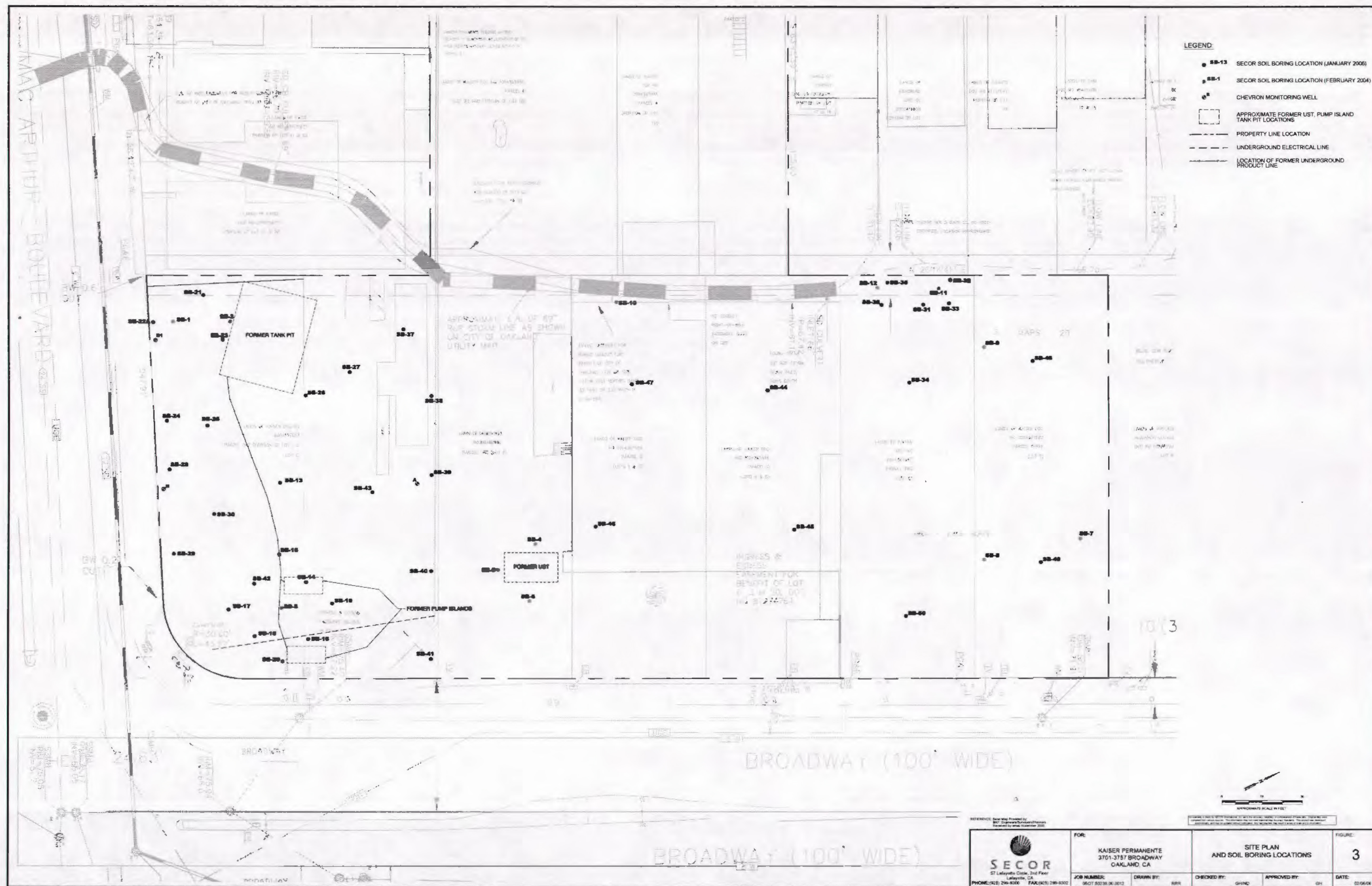


NOT TO SCALE

SECOR

DRAWN ARA
APPR GH/ND
DATE 29 JAN 2004
JOB NO. 050T.50133.01

FIGURE 3
KAISER FOUNDATION HEALTH PLAN, INC.
3701-3757 BROADWAY
OAKLAND, CALIFORNIA
SOIL SAMPLE ANALYTICAL RESULTS
JANUARY 7 AND 8, 2004

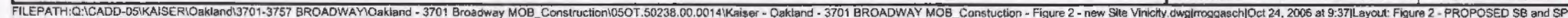


- LEGEND**
- SB-13 SECOR SOIL BORING LOCATION (JANUARY 2005)
 - SB-1 SECOR SOIL BORING LOCATION (FEBRUARY 2004)
 - CHEVRON MONITORING WELL
 - APPROXIMATE FORMER UST, PUMP ISLAND TANK PIT LOCATIONS
 - PROPERTY LINE LOCATION
 - UNDERGROUND ELECTRICAL LINE
 - LOCATION OF FORMER UNDERGROUND PRODUCT LINE

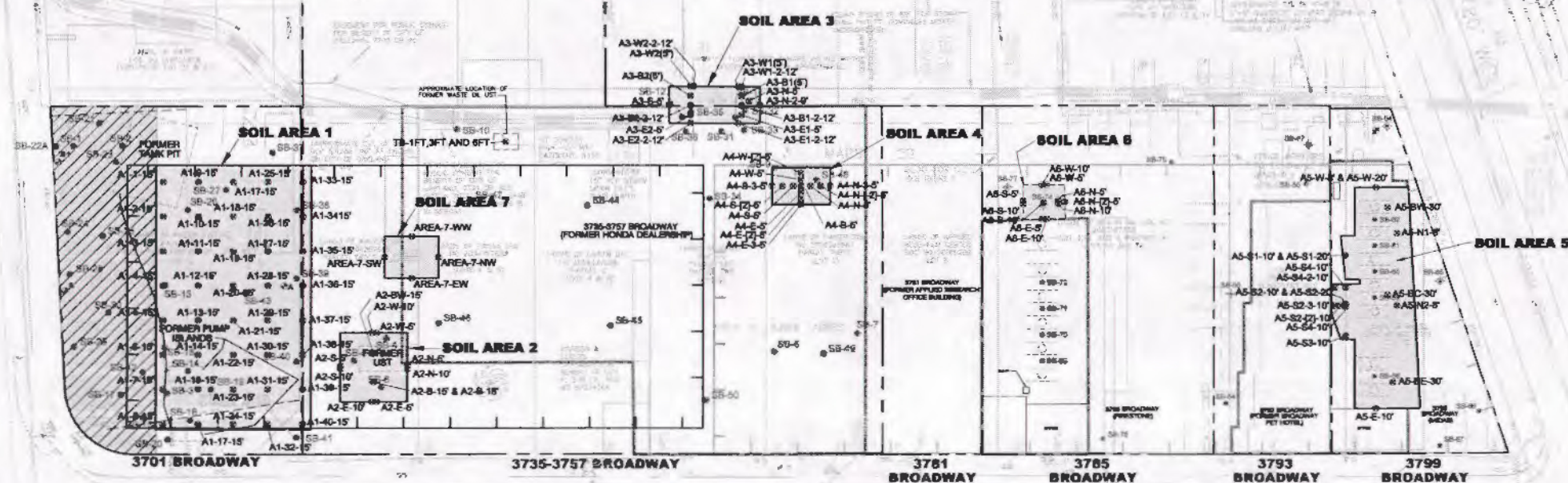


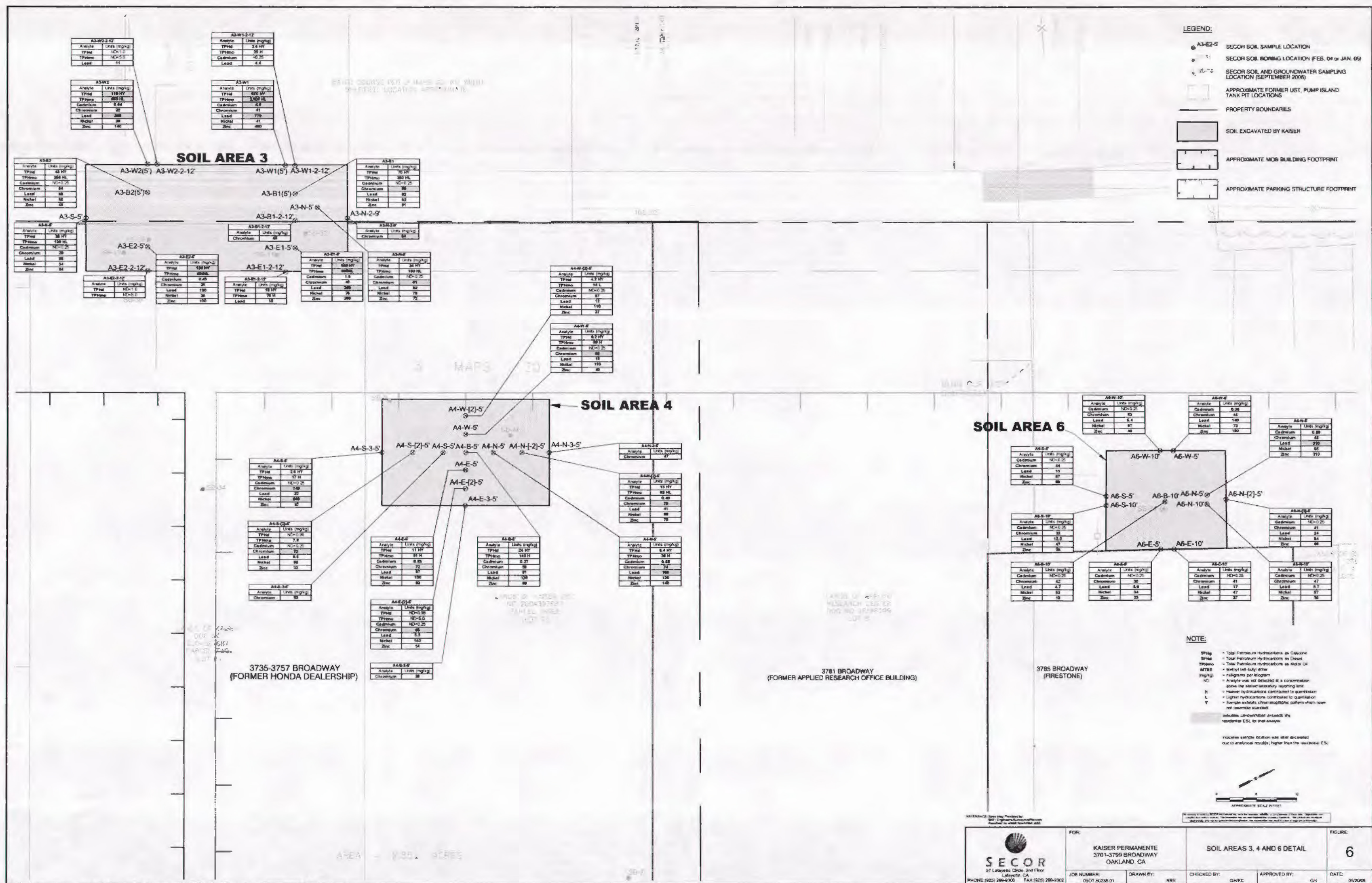
APPROXIMATE SCALE IN FEET

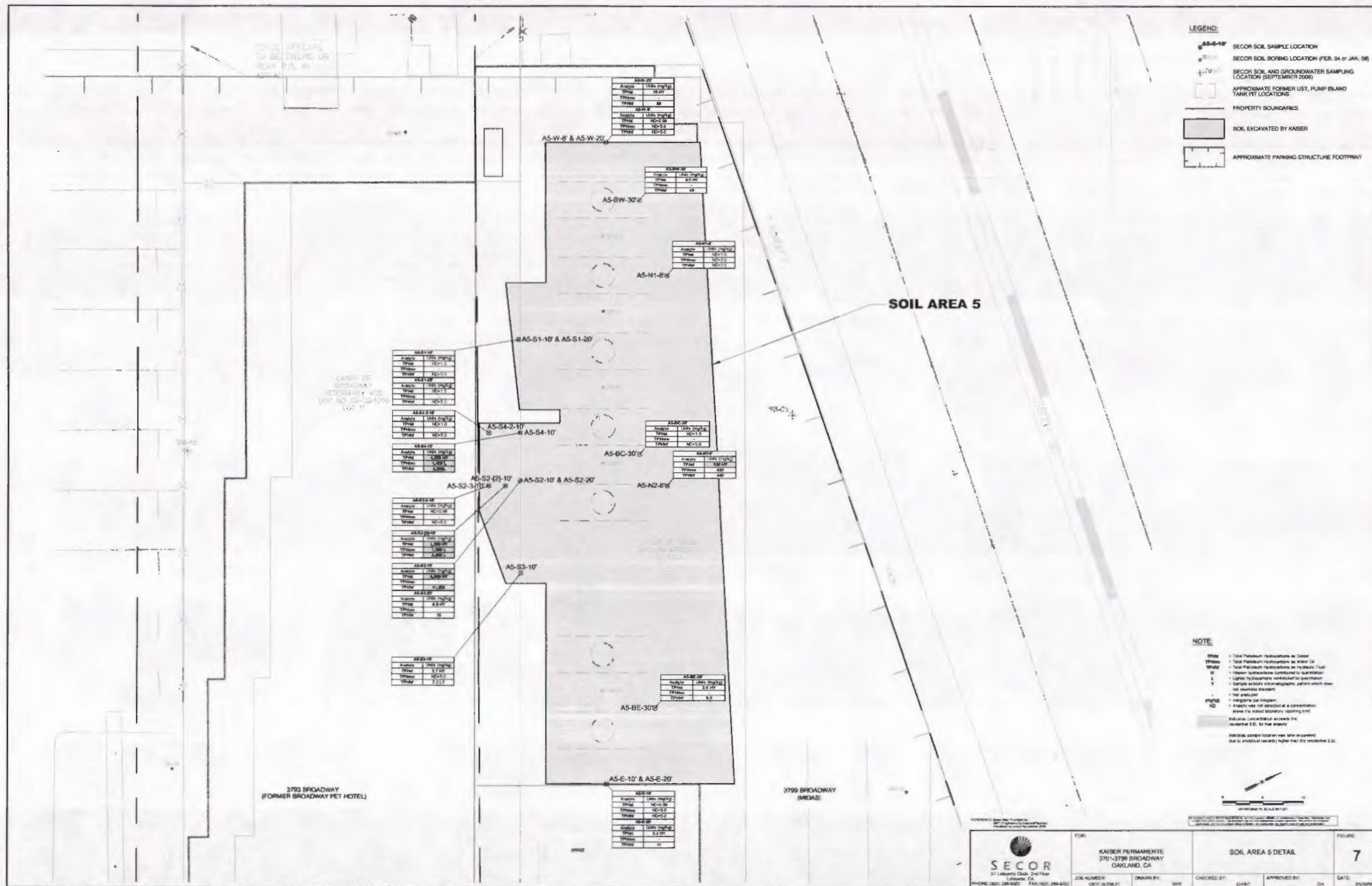
REFERENCE: Base Map Provided by SOT Engineers/Surveyors/Planners Revised to date November 2005		FOR: KAISER PERMANENTE 3701-3757 BROADWAY OAKLAND, CA		SITE PLAN AND SOIL BORING LOCATIONS		FIGURE: 3
SECOR 37 Lafayette Circle, 2nd Floor Lafayette, CA PHONE (925) 296-6300 FAX (925) 296-6302	JOB NUMBER: 9607-0000-000002	DRAWN BY: BBB	CHECKED BY: GWD	APPROVED BY: OH	DATE: 02/06/06	

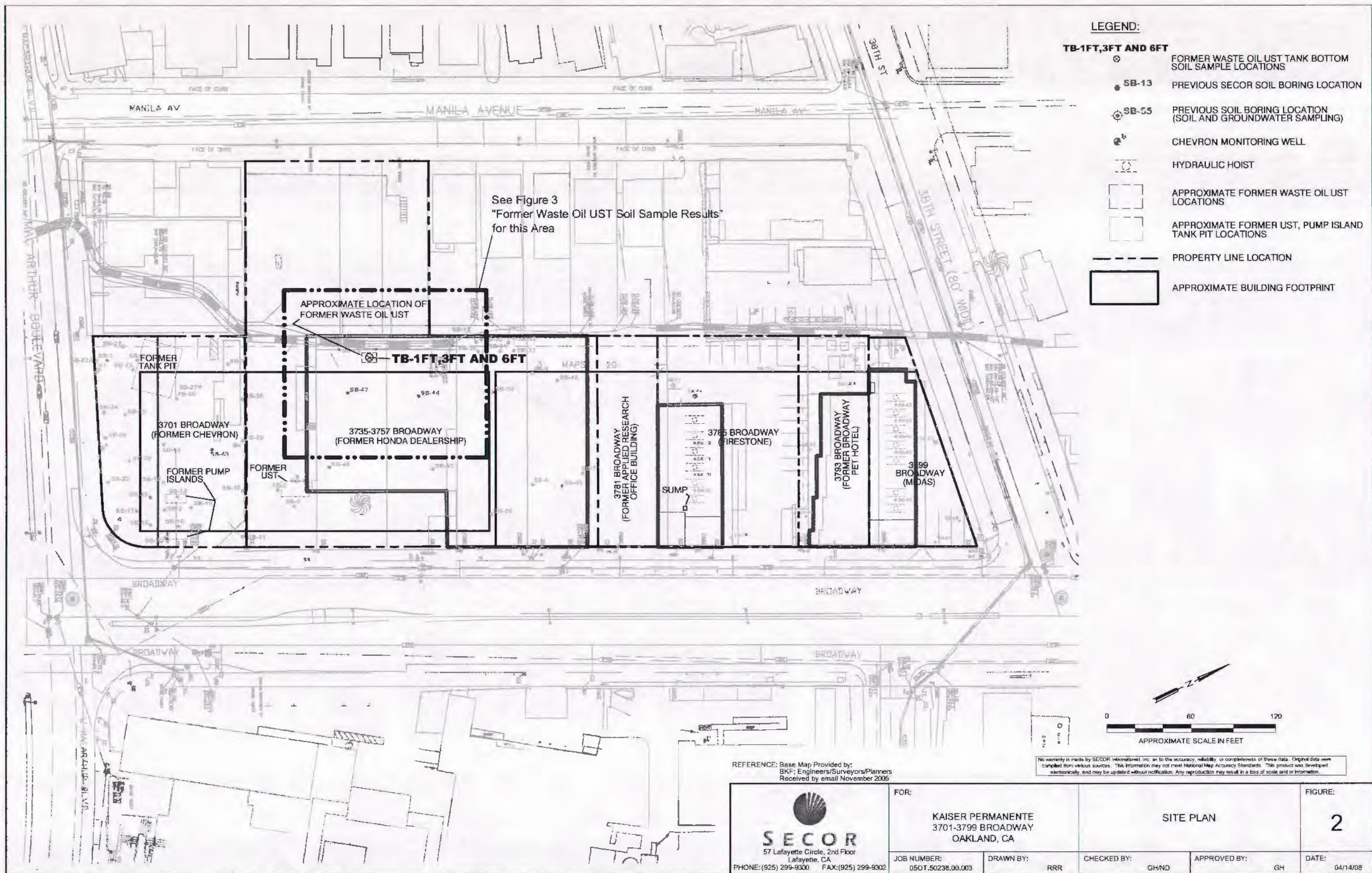


- LEGEND:**
- AS-E-10' SECOR SOIL SAMPLE LOCATION
 - SB-1 SECOR SOIL BORING LOCATION (FEB. 04 or JAN. 05)
 - SB-84 CHEVRON MONITORING WELL
 - SECOR SOIL AND GROUNDWATER SAMPLING LOCATION (SEPTEMBER 2008)
 - ABANDONED WELL
 - APPROXIMATE FORMER UST, PUMP ISLAND TANK PIT LOCATIONS
 - PROPERTY BOUNDARIES
 - UNDERGROUND ELECTRICAL LINE
 - LOCATION OF FORMER UNDERGROUND PRODUCT LINE
 - SOIL EXCAVATED BY KAISER
 - SOIL PREVIOUSLY EXCAVATED BY CHEVRON
 - APPROXIMATE MOB BUILDING FOOTPRINT
 - APPROXIMATE PARKING STRUCTURE FOOTPRINT









EL. 62.06
FLOW LINE
EL. 61.40

APPROXIMATE LOCATION OF
FORMER WASTE OIL UST

TB-1FT, 3FT AND 6FT

TB-1FT		TB-3FT		TB-6FT	
Analyte	Units (mg/kg)	Analyte	Units (mg/kg)	Analyte	Units (mg/kg)
TPHg	2,100 HY	TPHg	39 HY	TPHg	< 1.0
TPHd	5,400 HLY	TPHd	560 HLY	TPHd	520 HLY
Oil and Grease	27,000	Oil and Grease	1,600	Oil and Grease	900
Benzene	<2.5	Benzene	<0.5	Benzene	<0.0045
Toluene	5.0	Toluene	<0.5	Toluene	<0.0045
Ethylbenzene	5.6	Ethylbenzene	<0.5	Ethylbenzene	<0.0045
Xylenes	37	Xylenes	1.98	Xylenes	<0.0045
MTBE	<2.5	MTBE	<0.5	MTBE	<0.0045
Lead	150	Lead	320	Lead	120

3735-3757 BROADWAY
(FORMER HONDA DEALERSHIP)

LEGEND:

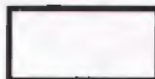
TB-1FT, 3FT and 6FT



FORMER WASTE OIL UST TANK BOTTOM
SOIL SAMPLE LOCATIONS



PROPERTY LINE LOCATION



APPROXIMATE BUILDING FOOTPRINT

SAMPLE EXPLANATION:

Abbreviations:

TPHg	Total petroleum hydrocarbons as gasoline.
TPHd	Total petroleum hydrocarbons as diesel.
MTBE	Methyl tert butyl ether
mg/kg	milligrams per kilogram
ND<x.xx	Indicates analyte not detected at or above the specified laboratory reporting limit
~	Not analyzed
H	Heavier hydrocarbons contributed to quantitation
Y	Sample exhibits chromatographic pattern which does not resemble standard
L	Lighter hydrocarbons contributed to quantitation
BOLD	Higher than method detection limit

NOTE:

1) ALL DEPTHS ARE FEET BELOW TANK BOTTOM.



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FOR:

KAISER PERMANENTE
3701-3799 BROADWAY
OAKLAND, CA

JOB NUMBER:

050T.50238.00.003

DRAWN BY:

RRR

CHECKED BY:

GH/ND

APPROVED BY:

GH

FIGURE:

3

DATE:

04/14/08

Table 1
Soil Sample Analytical Results - Petroleum Hydrocarbons and Volatile Organic Compounds
Kaiser Permanente
3701 - 3757 Broadway
Oakland, California
Results in milligrams per kilogram (mg/kg)

Area of Investigation	Sample ID	Depth (ft)	Sample Date	EPA Method 8016M			Volatile Organic Compounds (EPA Method 8260B)																			
				TPH _g	TPH _d	TPH _{iso}	Benzene	Toluene	Ethyl Benzene	Xylenes	Acetone	Isobutyl Benzene	Isopropyl Benzene	Naphthalene	n-Propyl Benzene	1,2,4-Trimethyl Benzene	1,3,5-Trimethyl Benzene	n-Butyl Benzene	p-Isopropyl Toluene	2-Ethylhexene	Methylcyclohexane	1,2-Dichloro Ethane	tert-Butyl Benzene	Freon 12	All Other VOCs	
3701 Broadway (Chowchow)	SB28-15'	15	01/17/08	110	100" L	16	2.6	0.77	3.3	14.1	ND<2.9	ND<0.71	ND<0.71	1.3	1.8	9.7	3.1	0.86	ND<0.71	ND<1.4	ND<2.9	ND<0.71	ND<0.71	ND<1.4	ND<0.71-7.1	
	SB28-20'	20	01/17/08	8.0	ND<1.0	ND<5.0	0.48	ND<0.13	ND<0.13	ND<0.13	ND<0.50	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.25	ND<0.50	ND<0.13	ND<0.13	ND<0.25	ND<0.13-1.3	
	SB28-10'	10	01/18/08	ND<1.1	ND<1.0	ND<5.0	0.0077	ND<0.0048	ND<0.0048	ND<0.0048	0.023	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048-0.048	
	SB28-17'	17	01/18/08	43	38" L	ND<5.0	0.42	0.30	0.59	2.82	ND<0.50	ND<0.13	ND<0.13	0.19	0.33	2.0	0.55	ND<0.13	ND<0.13	ND<0.25	ND<0.50	ND<0.13	ND<0.13	ND<0.25	ND<0.13-1.3	
	SB28-21'	21	01/18/08	ND<1.1	2.4"	ND<5.0	0.30	ND<0.025	ND<0.025	ND<0.025	0.24	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.093	ND<0.50	0.088	ND<0.025	ND<0.050	ND<0.025-0.25	
	SB30-10'	10	01/19/08	3800	18" L	ND<5.0	0.28	0.55	0.24	0.98	ND<0.50	ND<0.13	ND<0.13	0.20	0.20	1.3	0.38	ND<0.13	ND<0.13	ND<0.25	ND<0.50	ND<0.13	ND<0.13	ND<0.25	ND<0.13-1.3	
	SB30-18'	18	01/19/08	580	370" L	14	2.8	18.0	8.2	32.4	ND<8.7	ND<1.7	ND<1.7	2.4	3.4	21.0	7.9	ND<1.7	ND<1.7	ND<3.3	ND<8.7	ND<1.7	ND<1.7	ND<3.3	ND<1.7-17	
	SB30-18'	18	01/19/08	4.3 Z	84" L	0.1	0.32	0.44	0.098	0.50	0.28	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.13	0.037	ND<0.025	ND<0.025	0.16	ND<0.50	0.11	ND<0.025	0.085	ND<0.025-0.50	
	SB37-10'	10	01/19/08	7900	1200" H L	1,600	ND<8.3	ND<8.3	31.0	78	ND<25	ND<8.3	ND<8.3	14.0	18.0	110	35.0	9.0	ND<8.3	ND<13	ND<25	ND<8.3	ND<8.3	ND<13	ND<8.3-83	
	SB37-13'	13	01/19/08	17	88" H L	110	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.50	0.18	0.29	1.3	1.1	ND<0.13	ND<0.13	1.0	ND<0.13	ND<0.25	ND<0.50	ND<0.13	ND<0.13	ND<0.25	ND<0.13-1.3	
	SB37-16'	16	01/19/08	1000	210" H L	380	ND<0.13	ND<0.13	0.14	ND<0.13	ND<0.50	0.34	0.37	0.91	1.5	ND<0.13	0.14	1.8	ND<0.13	ND<0.25	ND<0.50	ND<0.13	0.29	ND<0.25	ND<0.13-1.3	
	SB38-4.5'	4.5	01/19/08	43	1800" H	6,000	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.50	ND<0.13	ND<0.13	0.38	0.14	0.59	0.18	0.33	ND<0.13	ND<0.25	ND<0.50	ND<0.13	ND<0.13	ND<0.25	ND<0.13-1.3	
	SB38-12'	12	01/19/08	16	14" H	88	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	0.037	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.082	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050-0.050	
	SB38-17'	17	01/19/08	ND<0.95	14" H	82	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.019	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048-0.087	
	SB38-10'	10	01/19/08	ND<1.0	ND<1.0	ND<5.0	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.020	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048-0.048	
3735-3737 Broadway	SB38-14'	14	01/19/08	10	16" L	ND<5.0	ND<0.13	ND<0.13	ND<0.13	ND<0.13	ND<0.50	ND<0.13	ND<0.13	ND<0.13	0.33	1.5	0.71	0.16	ND<0.13	ND<0.25	ND<0.50	ND<0.13	ND<0.13	ND<0.25	ND<0.13-1.3	
	SB38-18'	18	01/19/08	500	1.8" L	ND<5.0	ND<0.13	ND<0.13	ND<0.13	1.9	ND<0.50	0.32	0.71	1.4	2.1	12	9.9	0.88	0.16	ND<0.25	ND<0.5	ND<0.13	ND<0.13	ND<0.25	ND<0.13-1.3	
	SB40-10'	10	01/19/08	ND<0.92	ND<1.0	ND<5.0	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.019	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048-0.048		
	SB40-18'	18	01/19/08	8.8	22" L	ND<5.0	ND<0.013	ND<0.013	ND<0.013	ND<0.013	ND<0.050	0.032	0.018	ND<0.013	0.041	0.077	0.094	0.031	ND<0.013	ND<0.025	0.089	ND<0.013	ND<0.013	ND<0.025	ND<0.013-0.13	
	SB40-18.5'	18.5	01/19/08	500	47" L	ND<5.0	ND<0.42	ND<0.42	0.62	3.8	ND<1.7	ND<0.42	ND<0.42	1.1	1.0	8.4	3.0	0.81	ND<0.42	ND<0.53	ND<1.7	ND<0.42	ND<0.42	ND<0.53	ND<0.42-4.2	
	SB41-10'	10	01/19/08	ND<0.88	ND<1.0	ND<5.0	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.020	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048-0.048	
	SB41-15'	15	01/19/08	8.4	7.2" L	ND<5.0	0.20	ND<0.0050	0.063	ND<0.0050	0.030	0.0081	0.013	ND<0.0050	0.040	0.18	0.069	0.013	ND<0.0050	0.014	0.1	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050-0.10	
	SB41-18'	18	01/19/08	1500	2.3" L	ND<5.0	ND<1.7	ND<1.7	8.9	9.5	ND<8.7	ND<1.7	ND<1.7	2.9	4.0	ND<24.0	8.1	1.7	ND<1.7	ND<3.3	ND<8.7	ND<1.7	24	ND<3.3	ND<1.7-17	
	SB42-10'	10	01/19/08	1.7	1.7" L	ND<5.0	0.085	ND<0.0050	0.017	ND<0.0050	0.041	ND<0.0050	ND<0.0050	ND<0.0050	0.0075	0.0082	ND<0.0050	0.0081	ND<0.0050	0.020	0.073	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050-0.050	
	SB42-14'	14	01/19/08	48	18" H L	28 H	0.16	0.32	0.30	0.9	ND<0.091	0.032	0.098	0.30	0.14	0.77	0.27	0.12	ND<0.023	ND<0.045	ND<0.081	ND<0.023	0.024	ND<0.045	ND<0.023-0.23	
	SB42-18'	18	01/19/08	640	78" L	ND<5.0	2.1	8.4	8.4	27.7	ND<5	ND<1.3	ND<1.3	2.0	2.4	14.0	4.1	ND<1.3	ND<1.3	ND<2.5	ND<5.0	ND<1.3	ND<1.3	ND<2.5	ND<1.3-13	
	SB43-18'	18	01/19/08	320	24" L	18	ND<0.25	ND<0.25	0.29	ND<0.25	ND<1	0.27	0.51	0.81	1.80	8.40	3.80	0.84	ND<0.25	ND<0.5	ND<1	ND<0.25	ND<0.25	ND<0.5	ND<0.25-2.5	
	3741 and 3751- 3757 Broadway	SB4-13'	13	01/08/04	ND<1.0	2.5"	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050	ND<0.010	ND<0.0050	ND<0.0050	ND<0.010	ND<0.005-0.050
		SB5-10.5'	10.5	01/08/04	50	21"	ND<50	ND<0.250	ND<0.250	1.4	8.8	ND<25	ND<0.250	0.870	0.900	2.7	15	14	2.3	0.670	ND<25	ND<25	ND<0.25	ND<0.25	ND<0.25	ND<0.25-25
		SB44-5'	5	01/20/08	ND<1.1	1.7" H	12	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.019	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048-0.048	
SB44-15'		15	01/20/08	ND<0.88	2.3"	ND<5.0	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.019	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048-0.048	
SB45-5'		5	01/20/08	ND<0.88	ND<1.0	14	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.018	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045-0.045	
SB45-14'		14	01/20/08	ND<1.1	ND<1.0	ND<5.0	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.019	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048-0.048	
SB46-5'		5	01/20/08	ND<1.0	ND<1.0	8.9	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.079	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050-0.050	
SB46-15'		15	01/20/08	ND<1.1	ND<0.86	ND<5.0	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.020	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048-0.048	
SB47-2'		2	01/20/08	ND<1.1	1.3" H	7.0	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.019	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047-0.047	
SB7-18'		18	01/09/04	ND<1.0	2.8"	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.088	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050	ND<0.010	ND<0.0050	ND<0.0050	ND<0.010	ND<0.005-0.050	
SB8-5'		5	01/09/04	ND<1.0	3.6"	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050	ND<0.010	ND<0.0050	ND<0.0050	ND<0.010	ND<0.005-0.050	
SB9-5'		5	01/09/04	ND<1.0	ND<1.0	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050	ND<0.010	ND<0.0050	ND<0.0050	ND<0.010	ND<0.005-0.050	
SB10-5'		5	01/09/04	ND<1.0	ND<1.0	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.088	ND<0.005	ND<0.005	ND<0.010	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.050	ND<0.010	ND<0.0050	ND<0.0050	ND<0.010	ND<0.005-0.050	
SB11-1'		1	01/09/04	ND<1.0	1,380"	4,800	ND<0.005	ND<0.005	ND																	

Table 1
Soil Sample Analytical Results - Petroleum Hydrocarbons and Volatile Organic Compounds
Kaiser Permanente
3701 - 3767 Broadway
Oakland, California
Results in milligrams per kilogram (mg/kg)

Area of Investigation	Sample ID	Depth (ft)	Sample Date	EPA Method 8015M			Volatile Organic Compounds (EPA Method 8260B)																		
				TPH/g	TPH/d	TPH/mo	Benzene	Toluene	Ethyl benzene	Xylenes	Acetone	sec-Butyl benzene	Isopropyl benzene	Napthalene	n-Propyl benzene	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	n-Butyl benzene	p-Isopropyl toluene	2-Butanone	Methylene Chloride	1,2-Dichloro ethane	tert-Butyl benzene	Freon 12	All Other VOCs
	SB48-5'	5	01/20/08	ND<1.1	ND<1.0	ND<5.0	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.019	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0093	ND<0.019	ND<0.0048	ND<0.0048	ND<0.0093	ND<0.0048-0.048
	SB48-11'	11	01/20/08	ND<1.0	1.4" H	11	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.020	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.053	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050-0.050
	SB50-5'	5	01/20/08	ND<1.1	ND<1.0	6.6 H	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.019	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0098	0.14	ND<0.0048	ND<0.0048	ND<0.0098	ND<0.0048-0.048
	SB60-14'	14	01/20/08	11	1.4" H	5.4	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.020	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0098	0.043	ND<0.0049	ND<0.0049	ND<0.0098	ND<0.0049-0.049
	ESL	Residential (<3m)		100	100	500	0.044	2.9	3.3	2.3	0.5	NE	NE	0.48	NE	NE	NE	NE	NE	3.9	0.077	0.0048	NE	NE	NA
		Residential (>3m)		100	100	1000	0.044	2.9	3.3	2.3	0.5	NE	NE	0.48	NE	NE	NE	NE	NE	3.9	0.077	0.0048	NE	NE	NA
				gasolines	middle distillates	residual fuels																			

Notes:
ESL = Environmental screening levels for subsurface soils-residential land use permitted, where groundwater is a current or potential source of drinking water (Interim Final - Feb. 2005, San Francisco Bay Area Regional Water Quality Control Board, Summary Tables A-1 and C-1)
TPHg = Total petroleum hydrocarbons as gasoline
TPHd = Total petroleum hydrocarbons as diesel
TPHmo = Total petroleum hydrocarbons as motor oil
NE = Not established
NA = Not applicable
ND = Not detected above specified reporting limit
* = Laboratory qualifier indicates that the hydrocarbon reported does not match the pattern of their diesel standard
H = Heavier hydrocarbons contributed to the quantitation
L = Lighter hydrocarbons contributed to the quantitation
Z = Sample exhibits unknown single peak or peaks

Table 2
Soil Sample Analytical Results - Metals
Kaiser Permanente
3701 - 3737 Broadway
Oakland, California
Results in milligrams per kilogram (mg/kg)

Area of Investigation	Sample ID	Depth (ft)	Sample Date	LUFT 5 Metals (EPA Method 6010B)				
				Cadmium	Chromium	Lead	Nickel	Zinc
3701 Broadway (CHEVRON)	SB30-18'	18	01/19/06	0.22	32	3.1	41	36
	SB37-10'	10	01/19/06	0.23	45	7.9	88	39
	SB37-13'	13	01/19/06	0.25	37	9.0	68	39
	SB37-16'	16	01/19/06	0.34	47	5.1	60	46
	SB38-4.5'	4.5	01/19/06	2.2	29	1,300	35	330
	SB38-12'	12	01/19/06	ND<0.19	39	6.8	45	28
	SB38-17'	17	01/19/06	0.23	32	4.6	37	33
	SB39-10'	10	01/19/06	0.28	36	8.5	64	35
	SB39-14'	14	01/19/06	0.31	52	6.8	56	52
	SB35-16'	16	01/19/06	ND<0.27	37	2.6	44	42
	SB40-10'	10	01/19/06	0.24	39	7.4	66	34
	SB40-15'	15	01/19/06	0.38	39	6.0	57	52
	SB40-18.5'	18.5	01/19/06	0.34	34	3.9	39	35
	SB41-10'	10	01/19/06	0.37	43	2.2	64	30
	SB41-15'	15	01/19/06	0.47	52	2.3	58	54
	SB41-18'	18	01/19/06	0.31	28	2.1	35	33
	SB42-10'	10	01/18/06	0.30	52	3.8	68	41
	SB42-14'	14	01/18/06	0.34	45	8.8	69	55
	SB42-18'	18	01/18/06	0.27	44	6.4	72	46
	SB43-15'	15	01/19/06	0.69	51	5.8	73	56
3735-3737 Broadway	SB4-13'	13	01/08/04	ND<0.50	32	4.5	75	33
	SB5-10.5'	10.5	01/08/04	ND<0.50	41	3.2	57	40
	SB44-5'	5	01/20/06	0.33	44	8.3	51	34
	SB44-16'	16	01/20/06	0.40	51	2.1	48	46
	SB45-5'	5	01/20/06	0.46	45	11	77	57
	SB45-14'	14	01/20/06	0.40	69	4.7	51	38
	SB46-8'	8	01/20/06	0.28	43	9.2	61	29
	SB46-15'	15	01/20/06	ND<0.25	39	2.7	72	39

Table 2
Soil Sample Analytical Results - Metals
Kaiser Permanente
3701 - 3757 Broadway
Oakland, California
Results in milligrams per kilogram (mg/kg)

Area of Investigation	Sample ID	Depth (ft)	Sample Date	LUFT 5 Metals (EPA Method 8010B)				
				Cadmium	Chromium	Lead	Nickel	Zinc
	SB47-2'	2	01/20/06	ND<0.20	44	35	61	38
3741 and 3751-3757 Broadway	SB7-19'	19	01/09/04	ND<0.50	44	5.2	65	26
	SB8-5'	5	01/09/04	ND<0.50	34	5.3	39	31
	SB9-5'	5	01/09/04	ND<0.50	62	4.6	70	30
	SB10-5'	5	01/09/04	ND<0.50	35	45	55	56
	SB11-1'	1	01/09/04	24	69	6,500	110	4,100
	SB12-1'	1	01/09/04	9.88	34	550	60	200
	SB31-2'	2	01/20/06	ND<0.24	23	90	26	57
	SB32-2'	2	01/20/06	9.8	42	910	48	2308
	SB33-4'	4	01/20/06	ND<0.23	25	27	23	37
	SB35-4'	4	01/20/06	ND<0.27	34	69	41	63
	SB36-4'	4	01/20/06	ND<0.22	32	21	34	38
	SB48-4'	4	01/20/06	ND<0.26	81	3.4	90	39
	SB48-10'	10	01/20/06	ND<0.19	40	4.8	81	22
	SB49-5'	5	01/20/06	9.33	41	5.9	50	37
	SB49-11'	11	01/20/06	ND<0.22	44	7.5	43	25
	SB50-5'	5	01/20/06	ND<0.18	39	7.4	61	31
	SB50-14'	14	01/20/06	ND<0.18	38	5.8	41	25
	ESL	Residential (<3m)		1.7	58	150	150	600
		Residential (>3m)		38	58	750	1,000	2,500

Notes:

ESL = Environmental screening levels for subsurface soils - residential land use permitted, where groundwater is a current or potential source of drinking water (Interim Final - Feb. 2005, San Francisco Bay Area Regional Water Quality Control Board, Summary Tables A-1 and C-1)

ND = Not detected above specified reporting limit

Table 1
Soil Sample Analytical Results
Kaiser Permanente
Oakland Medical Office Building (MOB) Project: 3735 - 3799 Broadway
Oakland, California

Area of Investigation	Sample ID	Depth (ft)	Sample Date	Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (mg/kg)														LUFT 5 Metals EPA Method 6010B (mg/kg)					Polychlorinated Biphenyls EPA Method 8082 (µg/kg)			
				TPHg	TPHd	TPHmo	TPHmf	Benzene	Toluene	Ethyl benzene	Xylenes	Acetone	Naphthalene	n-Propyl benzene	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	n-Butyl benzene	2-Butanone	Methylene Chloride	1,1-Dichloro ethane	cis-1,2-Dichloro ethene	Trichloroethene	Tetrachloroethene	Cadmium	Chromium	Lead	Nickel	Zinc	PCBs	
3735-3757 Broadway	SB-51-5	5	09/15/06	ND<0.96	9.2 H Y	52 H	—	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.025	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0098	0.58>LR	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	0.40	42	190	40	81	—	
	SB-51-9.5	9.5	09/15/06	ND<1.1	5.2 H Y	29 H	—	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.024	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0094	0.53>LR	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.25	47	11	41	27	—	
	SB-51-16	16	09/15/06	3.9 H Y	27 H L Y	95	—	ND<0.028	ND<0.028	ND<0.028	ND<0.028	ND<0.14	ND<0.028	0.071	0.290	0.110	0.036	ND<0.056	1.1>LR	ND<0.028	ND<0.028	ND<0.028	ND<0.028	ND<0.028	ND<0.25	44	24	39	36	—
	SB-52-8	8	09/15/06	ND<1.1	ND<1.0	ND<5.0	—	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.025	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	0.29>LR	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.25	39	5.2	42	30	—	
	SB-52-12	12	09/15/06	ND<1.0	ND<0.99	ND<5.0	—	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.025	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0098	0.54>LR	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.25	96	8.7	73	37	—	
	SB-52-16	16	09/15/06	090	77 L Y	ND<5.0	—	ND<4.2	ND<4.2	20	112	ND<21	7.4	9.0	56	20	ND<4.2	ND<8.3	ND<17	ND<4.2	ND<4.2	ND<4.2	ND<4.2	ND<0.25	46	2.4	56	46	—	
3793 Broadway	SB-53-20	20	09/15/06	180	42 L Y	ND<5.0	—	ND<1.3	ND<1.3	ND<1.3	4	ND<6.3	1.3	ND<1.3	8.9	2.8	ND<1.3	ND<2.5	ND<5.0	ND<1.3	ND<1.3	ND<1.3	ND<1.3	ND<0.25	64	43	18	140	49	—
	SB-54-6	6	09/12/06	ND<0.96	2.1 H Y	17	17	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.024	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0094	0.47>LR	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.25	66	5.2	64	29	—	
	SB-54-11	11	09/12/06	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.025	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0098	0.42>LR	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.25	53	6.0	55	27	—	
	SB-54-16	16	09/12/06	ND<0.97	ND<0.99	ND<5.0	ND<5.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.025	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	0.24>LR	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.25	56	6.2	68	30	—	
	SB-55-9.5	9.5	09/14/06	ND<1.1	3.9 H Y	28	—	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.024	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0094	0.25>LR	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.25	32	4.5	43	17	—	
	SB-55-18.5	18.5	09/14/06	ND<1.0	ND<0.99	ND<5.0	—	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.024	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0094	0.68>LR	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.25	64	4.4	54	37	—	
3799 Broadway	SB-56-6	6	09/12/06	ND<1.0	1.6 Y	ND<5.0	—	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.024	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0094	0.27>LR	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.25	42	4.5	69	140	—	
	SB-56-11	11	09/12/06	ND<1.1	ND<1.0	ND<5.0	—	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.023	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0091	0.24>LR	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.25	44	4.6	41	18	—	
	SB-57-5	5	09/14/06	ND<1.1	3.1 Y	35 H	—	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.024	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0096	0.46>LR	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.25	28	54	9.5	100	48	—
	SB-57-14	14	09/14/06	ND<1.0	17 H L Y	11	—	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.024	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0096	0.13>LR	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.25	0.33	72	14	130	65	—
	SB-58-6	6	09/11/06	ND<0.99	ND<1.0	ND<5.0	ND<5.0	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.024	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0096	0.12>LR	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.25	56	8.6	69	29	—
	SB-58-12	12	09/11/06	ND<0.97	30 H Y	92	92	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.023	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0091	0.087>LR	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.25	39	4.0	65	39	—
	SB-58-17	17	09/11/06	ND<0.94	110 H Y	490	490	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.024	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0094	0.21>LR	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.25	48	6.7	69	38	—
	SB-59-6	6	09/11/06	ND<1.0	3,100 H Y	13,000	13,000	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	0.051	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0094	0.47>LR	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.25	29	12	41	17	—
	SB-59-10	10	09/11/06	ND<0.95	280 H Y	1,000	1,000	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0089	0.24>LR	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.25	40	4.0	46	25	—
	SB-59-19	19	09/11/06	1.0 H Y	4,700 H Y	16,000	17,000	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.025	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	0.26>LR	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.25	38	4.6	54	38	—
	SB-60-6	6	09/11/06	ND<1.0	1,400 H Y	4,000	4,500	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0096	0.32>LR	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.25	19	70	24	63	—
	SB-60-10	10	09/11/06	ND<1.0	1,300 H Y	4,600	4,900	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	0.067	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0096	0.30>LR	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.25	28	6.6	35	19	—
	SB-60-16	16	09/11/06	1.4 H Y	2,300 H Y	3,400	5,100	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.0068	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	0.19>LR	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.25	32	2.2	46	36	—
	SB-61-6	6	09/12/06	ND<0.93	6.5 H Y	32	32	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.024	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0096	0.25>LR	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.0048	ND<0.25	24	2.5	28	49	—

Table 2
Areas 2 through 7 - Confirmation Soil Sample Analytical Results
Kaiser Permanente
Oakland Medical Office Building (MOB) Replacement Project
3700 Block of Broadway
Oakland, California

Soil Excavation Area	Sample ID	Depth (ft bgs)	Sample Date	Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (mg/kg)					LUFT Metals EPA Method 6010B (mg/kg)				
				TPHg	TPHd	TPHmo	TPHhf	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Cadmium	Chromium	Lead	Nickel	Zinc
2	A2-N-5'	5	04/17/07	ND<1.0	ND<1.0	ND<5.0	-	ND<0.0044	ND<0.0044	ND<0.0044	ND<0.0044	ND<0.0044	ND<0.25	25	14	31	16
	A2-S-5'	5	04/16/07	ND<0.95	1.3 HY	ND<5.0	-	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.25	9.2	23	21	50
	A2-E-5'	5	04/16/07	ND<1.0	ND<1.0	ND<5.0	-	ND<0.0046	ND<0.0046	ND<0.0046	ND<0.0046	ND<0.0046	ND<0.25	25	12	18	14
	A2-W-5'	5	04/16/07	ND<0.94	2.2 HY	22 H	-	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.25	23	19	27	60
	A2-N-10'	10	04/17/07	ND<0.98	ND<1.0	ND<5.0	-	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.25	41	4.7	56	25
	A2-S-10'	10	04/16/07	2.6 HY	22 HY	82 HL	-	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.25	24	12	19	29
	A2-E-10'	10	04/17/07	ND<1.0	ND<0.99	ND<5.0	-	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.25	42	7.6	35	24
	A2-W-10'	10	04/16/07	7.2 HY	100 HLY	120 HL	-	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.25	21	12	15	24
	A2-B-15'	15	04/17/07	700	40 LY	ND<5.0	-	ND<2.5	ND<2.5	15	79	ND<2.5	ND<0.25	36	4.3	50	43
	A2-BW-15'	15	04/17/07	14 Y	14 LY	ND<5.0	-	ND<0.13	ND<0.13	0.13	ND<0.13	ND<0.13	0.27	42	13	94	53
3	A2-B-18'	18	06/26/07	2.4	-	-	-	ND<0.005	0.057	0.041	0.224	ND<0.005	-	-	-	-	-
	A3-N-5'	5	04/24/07	-	34 HY	190 HL	-	-	-	-	-	-	ND<0.25	61	52	79	72
	A3-N-2-9'	9	04/27/07	-	-	-	-	-	-	-	-	-	-	64	-	-	-
	A3-S-5'	5	04/24/07	-	28 HY	130 HL	-	-	-	-	-	-	ND<0.25	28	95	34	84
	A3-E1-5'	5	04/24/07	-	130 HY	630HL	-	-	-	-	-	-	1.6	48	260	76	200
	A3-E1-2-12'	12	04/27/07	-	16 HY	70 H	-	-	-	-	-	-	-	-	15	-	-
	A3-E2-5'	5	04/24/07	-	130 HY	630HL	-	-	-	-	-	-	0.43	28	130	36	100
	A3-E2-2-12'	12	04/27/07	-	ND<1.0	ND<5.0	-	-	-	-	-	-	-	-	-	-	-
	A3-B1	5	04/24/07	-	70 HY	350 HL	-	-	-	-	-	-	ND<0.25	59	62	62	91
	A3-B1-2-12'	12	04/27/07	-	-	-	-	-	-	-	-	-	-	48	-	-	-
	A3-B2	5	04/24/07	-	43 HY	250 HL	-	-	-	-	-	-	ND<0.25	54	65	55	48
	A3-W1	5	04/24/07	-	670 HY	2,900 HL	-	-	-	-	-	-	4.0	41	770	41	400
	A3-W1-2-12'	12	04/27/07	-	2.6 HY	25 H	-	-	-	-	-	-	ND<0.25	-	4.4	-	-
	A3-W2	5	04/24/07	-	110 HY	550 HL	-	-	-	-	-	-	0.64	32	200	39	140
	A3-W2-2-12'	12	04/27/07	-	ND<1.0	ND<5.0	-	-	-	-	-	-	-	-	11	-	-

Table 2
Areas 2 through 7 - Confirmation Soil Sample Analytical Results
Kaiser Permanente
Oakland Medical Office Building (MOB) Replacement Project
3700 Block of Broadway
Oakland, California

Soil Excavation Area	Sample ID	Depth (ft bgs)	Sample Date	Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (mg/kg)					LUFT Metals EPA Method 6010B (mg/kg)				
				TPHg	TPHd	TPHmo	TPHhf	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Cadmium	Chromium	Lead	Nickel	Zinc
4	A4-N-5'	5	04/17/07	-	6.4 HY	36 H	-	-	-	-	-	-	0.58	74	160	120	140
	A4-N-[2]-5'	5	04/24/07	-	13 HY	63 HL	-	-	-	-	-	-	0.40	75	41	88	70
	A4-N-3-5'	5	04/27/07	-	-	-	-	-	-	-	-	-	-	47	-	-	-
	A4-S-5'	5	04/17/07	-	2.6 HY	17 H	-	-	-	-	-	-	ND<0.25	140	22	240	43
	A4-S-[2]-5'	5	04/24/07	-	ND<0.99	7.9	-	-	-	-	-	-	ND<0.25	72	9.5	68	32
	A4-S-3-5'	5	04/27/07	-	-	-	-	-	-	-	-	-	-	53	-	-	-
	A4-E-5'	5	04/17/07	-	11 HY	51 H	-	-	-	-	-	-	0.53	72	87	130	93
	A4-E-[2]-5'	5	04/24/07	-	ND<0.99	ND<5.0	-	-	-	-	-	-	ND<0.25	65	5.3	140	34
	A4-E-3-5'	5	04/27/07	-	-	-	-	-	-	-	-	-	-	29	-	-	-
	A4-W-5'	5	04/17/07	-	9.2 HY	60 H	-	-	-	-	-	-	ND<0.25	62	18	110	40
	A4-W-[2]-5'	5	04/24/07	-	4.2 HY	14 L	-	-	-	-	-	-	ND<0.25	57	12	110	37
	A4-B-5'	5	04/17/07	-	24 HY	140 H	-	-	-	-	-	-	0.27	58	61	120	69
5	A5-N1-8'	8	04/25/07	-	ND<1.0	ND<5.0	ND<5.0	-	-	-	-	-	-	-	-	-	-
	A5-N2-8'	8	04/25/07	-	120 HY	420	440	-	-	-	-	-	-	-	-	-	-
	A5-S1-10'	10	04/17/07	-	ND<1.0	-	ND<5.0	-	-	-	-	-	-	-	-	-	-
	A5-S1-20'	20	04/17/07	-	ND<1.0	-	ND<5.0	-	-	-	-	-	-	-	-	-	-
	A5-S2-10'	10	04/17/07	-	6,500 HY	-	11,000	-	-	-	-	-	-	-	-	-	-
	A5-S2-[2]-10'	10	04/25/07	-	1,300 HY	1,300 L	2,500 L	-	-	-	-	-	-	-	-	-	-
	A5-S2-3-10'	10	04/27/07	-	ND<0.99	-	ND<5.0	-	-	-	-	-	-	-	-	-	-
	A5-S2-20'	20	04/17/07	-	8.6 HY	-	15	-	-	-	-	-	-	-	-	-	-
	A5-S3-10'	10	04/25/07	-	3.7 HY	ND<5.0	7.2 LY	-	-	-	-	-	-	-	-	-	-
	A5-S4-10'	10	04/25/07	-	1,000 HY	1,400 L	2,200L	-	-	-	-	-	-	-	-	-	-
	A5-S4-2-10'	10	04/27/07	-	ND<1.0	-	ND<5.0	-	-	-	-	-	-	-	-	-	-
	A5-E-10'	10	04/25/07	-	ND<0.99	ND<5.0	ND<5.0	-	-	-	-	-	-	-	-	-	-
	A5-W-8'	8	04/25/07	-	ND<0.99	ND<5.0	ND<5.0	-	-	-	-	-	-	-	-	-	-
	A5-E-20'	20	09/07/07	-	3.4 HY	-	11	-	-	-	-	-	-	-	-	-	-
	A5-W-20'	20	09/07/07	-	18 HY	-	58	-	-	-	-	-	-	-	-	-	-
	A5-BE-30'	30	09/25/07	-	2.0 HY	-	9.0	-	-	-	-	-	-	-	-	-	-
	A5-BC-30'	30	09/25/07	-	ND<1.0	-	ND<5.0	-	-	-	-	-	-	-	-	-	-
	A5-BW-30'	30	09/25/07	-	4.5 HY	-	19	-	-	-	-	-	-	-	-	-	-

Table 2
Areas 2 through 7 - Confirmation Soil Sample Analytical Results
Kaiser Permanente
Oakland Medical Office Building (MOB) Replacement Project
3700 Block of Broadway
Oakland, California

Soil Excavation Area	Sample ID	Depth (ft bgs)	Sample Date	Petroleum Hydrocarbons EPA Method 8015M (mg/kg)				Volatile Organic Compounds EPA Method 8260B (mg/kg)					LUFT Metals EPA Method 6010B (mg/kg)				
				TPHg	TPHd	TPHmo	TPHhf	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Cadmium	Chromium	Lead	Nickel	Zinc
6	A6-N-5'	5	04/17/07	-	-	-	-	-	-	-	-	-	0.69	45	310	65	310
	A6-N-[2]-5'	5	04/24/07	-	-	-	-	-	-	-	-	-	ND<0.25	41	24	84	66
	A6-S-5'	5	04/17/07	-	-	-	-	-	-	-	-	-	ND<0.25	44	11	87	66
	A6-E-5'	5	04/17/07	-	-	-	-	-	-	-	-	-	ND<0.25	28	5.6	34	23
	A6-W-5'	5	04/17/07	-	-	-	-	-	-	-	-	-	0.36	44	140	73	180
	A6-N-10'	10	04/17/07	-	-	-	-	-	-	-	-	-	ND<0.25	47	9.7	57	35
	A6-S-10'	10	04/17/07	-	-	-	-	-	-	-	-	-	ND<0.25	33	12.0	47	35
	A6-E-10'	10	04/17/07	-	-	-	-	-	-	-	-	-	ND<0.25	41	17	47	37
	A6-W-10'	10	04/17/07	-	-	-	-	-	-	-	-	-	ND<0.25	53	5.4	97	40
	A6-B-10'	10	04/24/07	-	-	-	-	-	-	-	-	-	ND<0.25	42	4.7	53	18
7	AREA 7-VWV	5	06/07/07	ND<1.1	ND<0.99	ND<5.0	-	-	-	-	-	-	-	-	-	-	-
	AREA 7-NW	5	06/07/07	ND<1.0	1.7 HY	12 Y	-	-	-	-	-	-	-	-	-	-	-
	AREA 7-SW	5	06/07/07	ND<0.94	5.1 HY	20	-	-	-	-	-	-	-	-	-	-	-
	AREA 7-EW	5	06/07/07	ND<1.0	ND<1.0	ND<5.0	-	-	-	-	-	-	-	-	-	-	-
	ESL ¹	Residential (<3m)		100	100	500	500	0.044	2.9	3.3	2.3	0.5	1.7	58	150	150	600
		Residential (>3m)		100	100	1,000	1,000	0.044	2.9	3.3	2.3	0.5	38	58	750	1,000	2,500
				Gasolines	Middle distillates	Residual fuels	Residual fuels										
				Background Metals Concentrations ²									0.05 - 1.7	23 - 1,579	12.4 - 97.1	9 - 509	88 - 236

Notes:

- 1 Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) for exposure to subsurface soils in a residential setting, where groundwater is a current or potential source of drinking water (SF Bay RWQCB, Interim Final, February 2005, Summary Tables A-1 and C-1).
- 2 Source: *Background Concentrations of Trace and Major Elements in California Soils*, Kearney Foundation of Soil Science, March 1996.
- Not analyzed.
- Bold** Indicates analyte was detected at or above laboratory reporting limit.
- Indicates concentration exceeds the residential ESL for that analyte.
- Indicates sample location was later excavated due to analytical result(s) higher than the residential ESL.

Abbreviations:

- TPHg Total petroleum hydrocarbons as gasoline.
- TPHd Total petroleum hydrocarbons as diesel.
- TPHmo Total petroleum hydrocarbons as motor oil.
- TPHhf Total petroleum hydrocarbons as hydraulic fluid.
- MTBE Methyl tert butyl ether
- mg/kg milligrams per kilogram (parts per million)
- ND<x.xx Indicates analyte not detected at or above the specified laboratory reporting limit.
- Not analyzed
- H Heavier hydrocarbons contributed to quantitation
- Y Sample exhibits chromatographic pattern which does not resemble standard
- L Lighter hydrocarbons contributed to quantitation
- ft bgs feet below ground surface

Table 2 - UST Stockpile Composite Sample Analytical Results
Kaiser Permanente
Oakland Medical Office Building (MOB) Replacement Project
3700 Block of Broadway
Oakland, California

Sample Location	Sample ID	Depth (ft)	Sample Date	Petroleum Hydrocarbons EPA Method 8015M (mg/kg)		Oil and Grease EPA Method 1654A (mg/kg)	BTXE & Oxygenates EPA Method 8260B (mg/kg)						TTL Lead EPA Method 8010B (mg/kg)	STL Lead EPA Method 8010B (mg/L)
				TPHg	TPHd	Oil and Grease	Benzene	Toluene	Ethylbenzene	Xylenes (total)	MTBE	All Other Oxygenates	Lead	Lead
Stockpile	TANK-SP-COMP	NA	06/11/07	12 HY	420 HLY	440	<0.023	0.042	0.069	0.4	<0.023	<0.023 - <0.45	290	1.4
	ESL ¹		Residential (<3m)	100	100	500	0.044	2.9	3.3	2.3	0.5	NA	1.7	NA
				Gasolines	Middle distillates	Residual fuels								
							TTL or STL Values						1,000	5.0

Notes:

- ¹ Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) for exposure to subsurface soils in a residential setting, where groundwater is a current or potential source of drinking water (SF Bay RWQCB, Interim Final, February 2005, Summary Table A-1).
- TTL Total Threshold Limit Concentration
STL Soluble Threshold Limit Concentration
— Not analyzed.
- Bold** Indicates analyte was detected at or above laboratory reporting limit.

Abbreviations:

- TPHg Total petroleum hydrocarbons as gasoline.
TPHd Total petroleum hydrocarbons as diesel.
TPHmo Total petroleum hydrocarbons as motor oil.
TPHhf Total petroleum hydrocarbons as hydraulic fluid.
MTBE Methyl tert butyl ether
mg/kg milligrams per kilogram (parts per million)
mg/L milligrams per liter (parts per million)
NA Not applicable
ND<x.xx Indicates analyte not detected at or above the specified laboratory reporting limit.
- Not analyzed
H Heavier hydrocarbons contributed to quantitation
Y Sample exhibits chromatographic pattern which does not resemble standard
L Lighter hydrocarbons contributed to quantitation

Table 1 - UST Removal Confirmation Soil Sample Analytical Results
 Kaiser Permanente
 Oakland Medical Office Building (MOB) Replacement Project
 3700 Block of Broadway
 Oakland, California

Sample ID	Depth Below Tank Bottom (ft)	Sample Date	Petroleum Hydrocarbons EPA Method 8015B (mg/kg)		Oil and Grease EPA Method 1664A (mg/kg)	BTEX & Oxygenates EPA Method 8260B (mg/kg)						TTL Lead EPA Method 8010B (mg/kg)
			TPHg	TPHd	Oil and Grease	Benzene	Toluene	Ethylbenzene	Xylenes (total)	MTBE	All other Oxygenates	Lead
TB-1FT	1	06/11/07	2,100 HY	5,400 HLY	27,000	<2.5	5.0	5.8	37	<2.5	<2.5 - <50	160
TB-3FT	3	06/11/07	39 HY	580 HLY	1,800	<0.5	<0.5	<0.5	1.98	<0.5	<0.5 <10	320
TB-6FT	6	08/26/07	< 1.0	520 HLY	900	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	--	120

Table Notes:

Bold value indicates analyte detected at or above the laboratory reporting limit

Abbreviations:

TPHg Total petroleum hydrocarbons as gasoline.
 TPHd Total petroleum hydrocarbons as diesel.
 MTBE Methyl tert butyl ether
 mg/kg milligrams per kilogram
 ND<x.xx Indicates analyte not detected at or above the specified laboratory reporting limit
 -- Not analyzed
 H Heavier hydrocarbons contributed to quantitation

Table 4
Grab Groundwater Sample Analytical Results
Kaiser Permanente
3701 - 3757 Broadway
Oakland, California
Results in micrograms per liter (ug/L)

Sample ID	Sample Date	EPA Method 8015M			EPA Method 8260B												
		TPHg	TPHd	TPHmo	Benzene	n-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Napthalene	n-Propylbenzene	Toluene	1,2-Dichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes	All other VOCs
SB1-W	01/08/04	130,000	960,000*	ND<250,000	19,000	3,600	7,500	1,200	2,300	5,900	3,900	9,000	ND<500	31,000	26,000	41,000	ND<500 - 50,000
SB4-W	01/08/04	ND<50	ND<50	ND<500	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	0.57	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50 - 50
SB6-W	01/09/04	77,000	8,000*	ND<2,500	3,400	ND<100	1,600	83	ND<100	360	250	7,800	370	2,500	650	9,600	ND<50 - 5,000
SB7-W	01/09/04	88	55*	ND<500	ND<0.50	ND<1.0	0.56	ND<0.50	ND<1.0	ND<1.0	ND<1.0	1.9	ND<0.50	ND<0.50	ND<0.50	2.7	ND<0.50 - 50
MCL		NE	NE	NE	1	NE	300	NE	NE	NE	NE	150	0.5	NE	NE	1,750	NA
ESL		500	640	640	46	NE	290	NE	NE	24	NE	130	200	NE	NE	13	NA
			(middle distillates)	(residual fuels)													

Notes:

MCL = Maximum contaminant levels - California Drinking Water Standards (September 12, 2003)

ESL = Environmental screening levels for residential and industrial land use, where groundwater is not a current or potential source of drinking water (Interim Final - July 2003, San Francisco Bay Area Regional Water Quality Control Board, Summary Table B and D; values for shallow and deep soil are identical)

TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

TPHmo = Total petroleum hydrocarbons as motor oil

VOCs = Volatile organic compounds

NE = Not established

NA = Not applicable

ND = Not detected above reporting limit specified (two values indicate range of reporting limits)

* = Laboratory qualifier indicates that the hydrocarbon reported does not match the pattern of their diesel standard

Table 2
Groundwater Sample Analytical Results
Kaiser Permanente
Oakland Medical Office Building (MOB) Project: 3735 - 3799 Broadway
Oakland, California

Area of Investigation	Sample ID	Sample Date	Petroleum Hydrocarbons EPA Method 8015M (µg/L)					Volatile Organic Compounds EPA Method 8260B (µg/L)																	
			TPHg	TPHD	TPHmo	TPHHf	TPHss	Benzene	Toluene	Ethyl benzene	Xylenes	Isopropyl benzene	Naphthalene	n-Propyl benzene	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	sec-Butyl benzene	n-Butyl benzene	p-Isopropyl toluene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	Vinyl Chloride	MIBE
3735 - 3757 Broadway	SB-51-12-W	09/15/06	30,000	1,900 L Y	ND<300	---	---	ND<8.3	ND<8.3	1,400	3,370	120	520	360	1,200	590	31	52	10	ND<8.3	ND<8.3	ND<8.3	ND<8.3	ND<8.3	ND<8.3
	SB-52-22-W	09/15/06	20,000	2,400 L Y	ND<300	---	---	ND<8.3	22	1,100	3,120	150	530	350	1,300	370	33	48	ND<8.3	ND<8.3	ND<8.3	ND<8.3	ND<8.3	ND<8.3	ND<8.3
	SB-53-22-W	09/15/06	23,000	4,300 L Y	ND<300	---	---	1,300	150	1,600	6,800	170	620	530	2,200	660	50	290	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20
3793 Broadway	SB-55-24-W	09/15/06	ND<50	54 Y	ND<300	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	SB-57-21-W	09/14/06	ND<50	58 Y	ND<300	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
3799 Broadway	SB-64-20-W	09/11/06	ND<50	ND<50	ND<300	ND<300	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.5
	SB-65-19-W	09/11/06	ND<50	290,000 H Y	1,000,000	1,100,000	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.3	15	1.0	0.5	13	1.0
3785 Broadway	SB-74-22-W	09/13/06	ND<50	420 H Y	1,800	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	SB-77-23-W	09/13/06	ND<50	59 H Y	ND<300	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	ESL ¹		100 Gasolines	100 Middle distillates	100 Residual fuels	NE	NE	1.0	40	30	20	NE	17	NE	NE	NE	NE	NE	NE	5.0	6.0	5.0	5.0	0.5	5.0

Notes:
Besides BTEX, only VOCs with one or more detections are shown; please refer to laboratory analytical reports for full list of analytes
1 Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) for exposure to groundwater in a residential setting, where groundwater is a current or potential source of drinking water (SF Bay RWQCB, Interim Final, February 2005, Summary Table A-1).
--- Not analyzed.
Bold Indicates compound was detected at or above laboratory reporting limit.
Indicates concentration exceeds the residential ESL for that compound.

Abbreviations:
NE No ESL established for compound.
TPHg Total petroleum hydrocarbons as gasoline.
TPHd Total petroleum hydrocarbons as diesel.
TPHmo Total petroleum hydrocarbons as motor oil.
TPHhf Total petroleum hydrocarbons as hydraulic fluid.
TPHss Total petroleum hydrocarbons as Stoddard solvent.
ND<x.xx Indicates analyte not detected at or above the specified laboratory reporting limit.

Laboratory Flags:
L Lighter hydrocarbons contributed to the quantitation.
H Heavier hydrocarbons contributed to the quantitation.
Y Sample exhibits chromatographic pattern which does not resemble standard.

TABLE 2 - NPDES PERMIT CHEMICAL ANALYSIS
Kaiser Oakland MOB Temporary Dewatering Project
3701-3799 Broadway
Oakland, California

INFLUENT/EFFLUENT MONITORING TABLE

Sample ID/ US EPA Method ⁵	Sample Date	TPHg (8015B)	TPHd, TPHhf (8015B)	PAHs (8310)	EDBA/OCs (8260B)	Oxygenates (8260B)	Ethanol/ Methanol (8015B)	All other SVOCs (8270C)	Turbidity (SM2130B)	TDS (SM2540C)	Cyanide (SM4500 CN-E)	EC	Temp (°F)	pH	Salinity (SM 2520B)	Hardness (EPA 130.2)	Fish Bioassay, 96 hr (% survival, rainbow trout)
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(NTU)	(mg/L)	(mg/L)	(µmhos/cm)			(ppt)	(mg/L as CaCO3)	
MDLs		3.3-14	9.5-26	0.003-0.08	0.06-0.1	0.04-2.6	0.21-0.27	0.14-3.0									
INF-001	10/11/2007	23J	39J, ND(<300)	ND(<0.10-1.9)	ND(<5), (0.2J - 2.9J) ¹	ND(<5-10)	ND(<1), ND(<1)	ND(<9.4-47) ³	56.5	310	ND(<0.01)	480	65	6.7	—	—	—
EFF-001	10/11/2007	39J	ND(<50), ND(<300)	ND(<0.10-1.9)	ND(<0.5), (0.05J - 0.8J) ²	ND(<5-10)	ND(<1), ND(<1)	ND(<9.4-47)	0.35	480	ND(<0.01)	830	65	7.0	—	—	100
INF-001	10/16/2007	10J	28J, ND(<300)	—	—	—	—	—	—	—	ND(<0.01)	780	68	8.8	—	—	—
EFF-001	10/16/2007	16J	ND(<50), ND(<300)	—	—	—	—	—	1.4	470	ND(<0.01)	820	64	7.0	—	—	—
INF-001	11/1/2007	—	—	—	—	—	—	—	—	—	—	—	70	6.7	—	—	—
EFF-001	11/1/2007	16J	ND(<50), ND(<300)	—	—	—	—	—	—	500	—	700	68	7.0	—	—	—
INF-001	12/4/2007	—	—	—	—	—	—	—	—	—	—	—	65	6.9	—	—	—
EFF-001	12/4/2007	25J ⁴	ND(<50), ND(<300)	—	—	—	—	—	—	510	—	680	63	7.2	—	—	—
INF-001	1/3/2008	28J	ND(<50), ND(<300)	ND(<0.09-1.9)	—	—	—	—	—	—	—	—	67	6.6	—	—	—
EFF-001	1/3/2008	26J	ND(<50), ND(<300)	ND(<0.09-1.9)	—	ND(<0.5-10)	ND(<1), ND(<1)	—	1.3	480	—	900	60	6.9	—	—	95
INF-001	2/1/2008	—	ND(<50), ND(<300)	—	ND(<0.5), (0.05J-2.9J) ⁵	(0.05J, 0.2J) ⁷	ND(<1), ND(<1)	ND(<9.4-47)	—	—	ND(<0.01)	—	67	6.5	—	—	—
EFF-001	2/1/2008	32J	ND(<50), ND(<300)	—	ND(<0.5), (0.2J-0.5) ⁸	—	—	ND(<9.4-47)	—	420	ND(<0.01)	520	59	6.7	—	—	—
RSW-001U	2/1/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	ND(<0.50)	150	—
RSW-001D	2/1/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	ND(<0.50)	140	—
INF-001	3/3/2008	—	—	—	—	—	—	—	—	—	—	—	68	6.7	—	—	—
EFF-001	3/3/2008	15J	ND(<50), ND(<300)	—	—	—	—	—	—	470	—	940	66	7.0	—	—	—
RSW-001U	3/3/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	ND(<0.50)	170	—
RSW-001D	3/3/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	ND(<0.50)	270	—
INF-001	3/31/2008 ¹³	17J	38J, ND(<300)	ND(<0.09-1.9)	—	—	—	—	—	—	—	—	68	6.6	—	—	—
EFF-001	3/31/2008 ¹³	17J	35J, ND(<300)	ND(<0.09-1.9)	—	—	—	—	2.5	590	—	790	64	6.7	—	—	100
MID-001A	3/31/2008 ¹³	16J	—	—	ND(<0.5), 0.3J ⁶	ND(<0.5-10)	—	—	—	—	—	—	—	—	—	—	—
MID-001B	3/31/2008 ¹³	12J	—	—	ND(<0.5), 0.3J ^{9, 10}	ND(<0.5-10)	—	—	—	—	—	—	—	—	—	—	—
RSW-001U	3/31/2008 ¹³	—	—	—	—	—	—	—	—	—	—	—	—	—	ND(<0.5)	160	—
RSW-001D	3/31/2008 ¹³	—	—	—	—	—	—	—	—	—	—	—	—	—	ND(<0.5)	300	—
INF-001	5/1/2008 ¹⁴	—	—	—	—	—	—	—	—	—	—	—	—	6.3	—	—	—
EFF-001	5/1/2008 ¹⁴	36J ¹¹	19J ¹² , ND(<300)	—	—	—	—	—	—	570	—	670	—	6.6	—	—	—
RSW-001U	5/1/2008 ¹⁴	—	—	—	—	—	—	—	—	—	—	—	—	—	ND(<0.5)	190	—
RSW-001D	5/1/2008 ¹⁴	—	—	—	—	—	—	—	—	—	—	—	—	—	ND(<0.5)	310	—

Notes:

1,2-DCA = 1,2-dichloroethane
BTEX = Benzene, Toluene, Ethyl Benzene, Xylenes
DIPE = Isopropyl ether
EC = Electrical Conductivity
EDB = Ethylene Dibromide
MTBE = Methyl Tertiary Butyl Ether
ETBE = Ethyl Tertiary Butyl Ether
PAHs = Poly Aromatic Hydrocarbons
SVOCs = Semi-volatile Organic Compounds
VOCs = Volatile Organic Compounds
TDS = Total dissolved solids
Oxygenates = TAME, DIPE, ETBE, EDB, TBA and 1,2-DCA (MTBE conc. shown below)

TAME = Methyl tertiary amyl ether
TBA = Tertiary Butyl Alcohol
TPHg = Total Petroleum Hydrocarbons, as diesel
TPHhf = Total Petroleum Hydrocarbons, as gasoline
NTU = Nephelometric turbidity units
µmhos/cm = micromhos per centimeter
ppt = parts per thousand
CaCO3 = Calcium Carbonate
— = Not analyzed
ND = Not detected at specified laboratory reporting limits.
°F = Degrees Fahrenheit

J = Estimated Value
µg/L = micrograms per liter
mg/L = milligrams per liter

- Constituents were reported with estimated concentrations: 1.7J µg/L acetone, 0.2J µg/L carbon disulfide, 0.6J µg/L chloroform, 0.8J µg/L carbon tetrachloride, 2.9J µg/L 2-butanone, 1.7J µg/L tetrachloroethylene, and 2.4J µg/L MTBE.
- Laboratory blank QA/QC was found to contain 0.09J µg/L chloroform, 0.04J µg/L n-butylbenzene, 0.1J µg/L naphthalene.
- Other constituents were reported with estimated concentrations: 1.3J µg/L bis(2-Ethylhexyl)phthalate.
- Laboratory blank QA/QC was found to contain 18J µg/L TPH-g.
- Unless otherwise noted, sample holding times for all samples collected during the period were met by the laboratory.
- Other constituents were reported with concentrations: 0.05J µg/L DIPE, 0.06J µg/L trichlorofluoromethane, 0.1J µg/L 1,1-dichloroethene, 0.5J µg/L methylene chloride, 2.3 µg/L MTBE, 0.3J µg/L 2-butanone, 0.2J µg/L cis-1,2-dichloroethene, 0.7 µg/L chloroform, 2.9 µg/L tetrachloroethene, 0.2J µg/L trichloroethene, 1.7 µg/L benzene, 0.2J µg/L 1,2-dichloroethane, 0.2J µg/L carbon tetrachloride. Laboratory blank QA/QC was found to contain 0.03J µg/L n-butylbenzene and 0.08J µg/L naphthalene.
- Constituents were reported with estimated concentrations: 0.05J µg/L DIPE and 0.2J µg/L 1,2-DCA.
- Constituents were reported with estimated concentrations: 0.3J µg/L acetone, 0.2J µg/L chloroform, and 0.5 µg/L MTBE.
- Constituents were reported with estimated concentrations: 0.3J µg/L chloroform.
- Laboratory blank QA/QC was found to contain 0.3J µg/L sec-butylbenzene.
- Laboratory blank QA/QC was found to contain 21J µg/L TPH-g.
- Laboratory blank QA/QC was found to contain 20J µg/L TPH-d.
- Sampling which occurred on 3/31/08 was considered the April compliance event.
- The system was shutdown on May 19, 2008 and therefore June sampling was not completed.

TABLE 3 - NPDES PERMIT METALS ANALYSIS
 Kaiser Oakland MOB Temporary Dewatering Project
 3701-3799 Broadway
 Oakland, California

Date Sampled:				10/11/2007	10/11/2007		10/16/2007	10/16/2007		1/3/2008	1/3/2008		2/1/2008	2/1/2008		3/3/2008
Sample ID:	US EPA Method	Effluent Trigger Limits	MDLs 10/11/2007	INF-001	EFF-001	MDLs 10/16/2007	INF-001	EFF-001	MDLs 01/03/2008	INF-001	EFF-001	MDLs 02/01/2008	INF-001	EFF-001	MDLs 03/03/2008	INF-001
Units:		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
Antimony	6010B/6020/200.8	6.0	0.072	0.098J	ND(<1.0)	0.072	ND(<1.0)	0.11J	---	---	---	0.072	0.18J	0.28J	---	---
Arsenic	6010B/6020/200.8	10	0.11	0.95J	0.66J	0.11	0.78J	ND(<1.0)	---	---	---	0.11	0.52J	0.33J	---	---
Beryllium	6010B/6020/200.8	1.0	0.053	0.084J	ND(<1.0)	0.053	ND(<1.0)	0.086J	---	---	---	0.053	0.055J	0.079J	---	---
Cadmium	6010B/6020/200.8	0.07	0.041	0.24J	ND(<1.0)	0.041	0.075J	0.14J	0.041	14	0.95J	0.041	0.084J	0.095J	0.068	ND(<1.0)
Total Chromium (Cr)	6010B/6020/200.8	11	0.11	9.30	3.4	0.11	7	2.8	---	---	---	0.11	2.8	2.5	---	---
Hexavalent Cr	7198A	11	10	20	ND(<10)	10	ND(<10)	ND(<10)	---	---	---	10	ND(<10)	ND(<10)	---	---
Copper	6010B/6020/200.8	3.1	0.18	2.4	1.6	0.18	2.2	4.4	1.6	2.1J	2.3J	0.18	0.78J	5.9	0.39	1.1J
Lead	6010B/6020/200.8	2.0	0.073	0.38J	1.6	0.073	0.35J	3.8	1.1	ND(<3.4)	ND(<3.4)	0.073	0.92J	2.7	0.052	ND(<1.0)
Mercury	1631	0.025	0.0002 - 0.0004	0.0195J	0.0052J	0.0002 - 0.0004	0.0431	0.0045	---	---	---	0.0002	0.0193	0.0033	---	---
Nickel	6010B/6020/200.8	8.2	0.16	16	15	0.16	17	15	0.65	12	12	0.16	12	8.5	0.12	15
Selenium	6010B/6020/200.8	5.0	0.074	1.3	0.27J	0.074	0.18J	0.26J	---	---	---	0.074	0.20J	0.29J	---	---
Silver	6010B/6020/200.8	1.9	0.027	0.032J	ND(<1.0)	0.027	ND(<1.0)	0.080J	---	---	---	0.027	0.028J	0.061J	---	---
Thallium	6010B/6020/200.8	0.1	0.019	0.099J	ND(<1.0)	0.019	ND(<1.0)	0.024J	---	---	---	0.019	ND(<1.0)	0.14J	---	---
Zinc	6010B/6020/200.8	35	1.6	8.6	91	1.6	27	96	3.1	4.6J	68	1.6	13	56	0.65	13

Notes:

Bold = Reported levels exceed trigger limits
 EFF = Effluent sample
 INF = Influent sample
 J = Estimated Value
 MDL = method detection limit
 µg/l = Micrograms per liter
 ND (<1.0) = Not Detected at reporting limit or practical quantitation limit shown
 --- = Not analyzed

ATTACHMENT 5

Table 3
Soil Vapor Sample Analytical Results
Kaiser Permanente
3701 - 3757 Broadway Broadway Avenue
Oakland, California
Results in micrograms per liter (ug/L)

Sample ID	Sample Date	EPA Method 8280B				
		TPHg	Acetone	Toluene	Xylenes	All Other VOCs
SB2-V	01/08/04	88	ND<50	ND<0.50	ND<1.0	ND<0.50 - 50
SB5-V	01/08/04	ND<50	80	0.55	1.9	ND<0.50 - 50
SB7-V	01/08/04	ND<50	ND<50	ND<0.50	ND<1.0	ND<0.50 - 50
PRG	Ambient Air	NE	0.370	0.400	0.110	NA
ESL	Residential (<1.5m)	10	73	83	21	NA
	Industrial (<1.5m)	29	200	230	58	NA

Notes:

PRG = EPA Region IX Preliminary Remedial Goals; units converted to ug/L

ESL = Environmental screening levels for soil gas-residential and industrial land uses permitted (Interim Final - July 2003, San Francisco Bay Area Regional Water Quality Control Board, Summary Table E; units converted to ug/L)

TPHg = Total petroleum hydrocarbons as gasoline

VOCs = Volatile organic compounds

NE = Not established

NA = Not applicable

ND = Not detected above specified reporting limit (two values indicate range of reporting limits)

ATTACHMENT 6

Project: <u>Kaiser F.H.P. - 3701-3757 Broadway, Oakland, CA</u>				Boring/Well Name:	
Boring Location: <u>NW of fm RST's 3735 Broadway</u>				Job No.: <u>050T.50133</u>	
Subcontractor and Equipment: <u>Virex Geoprobe</u>				Logged by: <u>Rdaitaile</u>	
Sampling Method: <u>Cont. 1.5" core (PVC)</u>				Monitoring Device: <u>PID/0VM</u>	
Start Date/Time: <u>08 Jan 04 / 1330</u>				Finish Date/Time: <u>11 1405</u>	
First Water (hgs): <u>9.75</u>				Stabilized Water (hgs): <u>—</u>	
Surface Elevation: <u>—</u>				Casing Top Elevation: <u>—</u>	
Comments: <u>Collected grab GW at 105'</u>					

Sample I.D.	PID (ppm)	Interval/Recovery	Depth (feet hgs)	USCS Code	Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percentages)	Boring Abandonment or Well Construction Details
			0	F	Asphalt - 1.5" Broken	
			0		Silty, gravelly sand, (Fill?), yell brn, dk yell brn, gray brown intermixed; overall 20% gravel to 1.5", 60% pred fn sand w/ some med-cse; 20% silt	
584-5' (1335)			5			
584-9.5' (1345)			10	SP	grayish sand (SP), dk brown; loose; wet; well sorted; v. fn-fn (0, 40, 10, 0)	
584-14' (1358)			15	CL	Silty clay (CL); lt. gray and lt. yell brn mottled; med hard; dry; (0, 0, 30, 70)	
584-13' (1405)			15		grades increasing silt, pred. lt. gray	
			20		End of boring 1405 hrs	

SECOR International Incorporated

Reviewed by: _____ Date: _____
 Revised by: _____ Date: _____

Project: Kaiser F.H.P. - 3701-3757 Broadway, Oakland, CA		Boring/Well Name:
Boring Location: 40' W of Bldg near S edge fire 151	Job No.: OSOT.50133	SB-5 Page 1 of 1
Subcontractor and Equipment: Virex Geoprobe	Logged by: Robitaille	
Sampling Method: Cont. 1.5" core (MC)	Monitoring Device: PID/00m	Comments: Collected vapor sample at G' using St-Geoprobe SV retracting point.
Start Date/Time: 08 Jan 04 // 1425	Finish Date/Time: // 1430	
First Water (hgs): 9?	Stabilized Water (hgs): —	
Surface Elevation: —	Casing Top Elevation: —	

Sample I.D.	PID (ppm)	Interval/Recovery	Depth (feet hgs)	USCS Code	Stratigraphic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percents)	Boring Abandonment or Well Construction Details
			0	F	Asphalt - 1.5" broken	
			0.5		Gravelly silt with sand (Fill); dk gray, yell brown, dk brn mixed; mod hard; dry; overall 20% gravel to 1.5 20% fn-CSE sand, 60% silt; trace clay	
SB-5-S' (1425)			5			
SB-5-V (1430)			8		silty sand; grayish brown; mod loose; wet; pred fn-mod (0,70,30,0)	
			4.8		? Sand; black; loose; wet; well sorted fn-mod trace CSE; strong petroleum odor (found in shoe only) Faint	
SB-5-105 (1430)			10			
			15		End of boring 1430 hrs	
			20			

SECOR International Incorporated

Reviewed by: _____ Date: _____
Revised by: _____ Date: _____

Project: Kaiser F.H.P. - 3701-3757 Broadway, Oakland, CA		Boring/Well Name:
Boring Location: 20' N of 3701, 25' W of Edway	Job No.: 050T-50133	SB-6
Subcontractor and Equipment: Vironex Geoprobe	Logged by: Robitaille	
Sampling Method: Cont. 1.5" core	Monitoring Device: PID/OVM	Page 1 of 1
Start Date/Time: 08 Jan 04 // 1550	Finish Date/Time: 9 Jan 04 // 0840	Comments: Collected grab GW
First Water (bgs): $\approx 21'$	Stabilized Water (bgs): $\sim 21'$	
Surface Elevation: —	Casing Top Elevation: —	

Sample I.D.	PID (ppm)	Interval/Recovery	Depth (feet bgs)	USCS Code	Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percentages)	Boring Abandonment or Well Construction Details
			0		Concrete - 3" Cracked	
			1	CL	Silty Clay; Dk. gray and dk reddish brown mottled; mod hard; moist; (0,0,25,75)	
			0	CL	Clay; dk gray; mod hard; moist; ^{some} trace silt; (0,0,10,90)	
			5		grades mottled dk gray and dk yell. brown	
SBG-5' (1000)			2			
			7			
			10		grades pred yell. brown	
SBG-10' (1020)			8			
			15	CL	thin zone of gravelly sand; loose; dry; 2" thick silty clay; lt. grayish brown; hard; dry; (0,0,20,80); faint petroleum odor (degraded gasoline) grades increasing silt (0,0,40,60)	
SBG-15' (1030)			30			
			70		(0,0,50,50) trace fn sand, w/ black Fe or Mn staining	
			33	CL	thin zone of silty fine sand; dense; dry; 2" (SM)	
			20	CL	AA	
			34	?	?	
SBG-W (0850)			44	CL	silty fine sand (SM); yell. brown; loose; wet; pred fn w/ trace med sand; (0,70,30,0)	
			25	CL	silty clay (CL), yell. brown; hard; dry; (0,0,20,80)	
Site 20' (0840)			34		End of boring 24' at 1700 hrs 08 Jan 04 Resumed 09 Jan 04 0830 - v. little water overnight and collapsed to $\approx 22'$ For 0840 9 Jan 04 - core contains 18' clay at bottom and loose wet silty sand - should produce H ₂ O - Produces but slowly	
						hard drilling - only 2' push w/ reduced tip opening
						resumed 4' push
						Recovery of 20-24' based on over-stuffed barrel - could not extract - silty sand at top - wet, and hard clay in shoe. Did not produce water or plugged foot valve on 08 Jan. Let sit overnight

SECOR International Incorporated

Reviewed by: _____ Date: _____
Revised by: _____ Date: _____

Project: Kaiser F.H.P. - 3701-3757 Broadway, Oakland, C.A		Boring/Well Name:
Boring Location: 6' S of A wall 3757, 50' West of Bldg		SB-7
Subcontractor and Equipment: Vincent Geoprobe	Logged by: Robitaille	Page 1 of 1
Sampling Method: cont. 1.5" core (PVC)	Monitoring Device: PID/ANM	
Start Date/Time: 09 Jan 04 // 1000	Finish Date/Time: 11/1045	Comments: Collected Vapor at 6'
First Water (bgs): 21.5	Stabilized Water (bgs): —	Collected grab GW
Surface Elevation: —	Casing Top Elevation: —	

Sample I.D.	PID (ppm)	Interval/Recovery	Depth (feet bgs)	USCS Code	Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percent)	Boring Abandonment or Well Construction Details
			0		Concrete at 4"	
			1	CL	Silty clay (CL); yellowish brown w/ reddish brn mottles; mod hard; dry; (0,0,30,70)	
SB7-5' (1005)			2			
SB7-V (1010)			3			
			4	AA		
SB7-10' (1020)			10	CL	Silty clay (CL), v. dk. brown, mod soft; dry; trace cse chert sand; abundant v. dk. reddish staining; (0,0,15,85) and gravel to 12"	
			2		grades dk. grayish brown	
SB7-15' (1030)			15		grades increasing sand (fine cse) and gravel	
SB7-19' (1035)			20	CL	Sandy clay with gravel; dk yell. brown; mod soft; moist; v. silty; silt to fine cse sand; fine angular gravel; (10,20,10,60)	
			21	CL	Silty clay; lt. yell brn & yell brn mottled; soft, moist; (0,0,40,60)	
SB7-W (1050)			22	CL	Silty fine sand; yell. brown; mod dense; wet; v. fine sand (0,70,30,0) trace clay	
SB7-23.5 (1050)			23.5	CL	Silty clay; lt. gray & lt. yell brn; mod hard; moist; w/ black staining; (0,0,30,70)	
			25		End of boring 1045 hrs 9 Jan 03	

SECOR International Incorporated

Reviewed by: _____ Date: _____
 Revised by: _____ Date: _____

Project: Kaiser F.H.P. - 3701-3757 Broadway, Oakland, CA		Boring/Well Name:
Boring Location: 3757 shop near solvent AST - SW of Bldg.: 050T.50133		SB-8
Subcontractor and Equipment: Vitonex Geoprobe	Logged by: Robitaille	
Sampling Method: corth 1.5" core (PVC)	Monitoring Device: PID/OVM	Page 1 of 1
Start Date/Time: 9 Jan 04 // 1105	Finish Date/Time: // 1125	Comments:
First Water (bgs): — NE	Stabilized Water (bgs): —	
Surface Elevation: —	Casing Top Elevation: —	

Sample I.D.	PID (ppm)	Interval/Recovery	Depth (feet bgs)	USCS Code	Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percentages)	Boring Abandonment or Well Construction Details
			0		concrete - o.k. condition - no cracks	
			3		CL Silty clay (CL); dk. brn and dk. yell brown; mod stiff; dry; (0,0,30,70)	
SB8-1' (1110)			1			
			2			
			3			
			4		Silt with clay Sandy silt, with mod. stiff, with yell brn, mod (0,20,50,30), mod hard, dry; v. fn w/ some fn. sand	
SB8-5' (1120)			5		grades less sand, increasing clay	
			6		End of boring 1125 hrs	

SECOR International Incorporated

Reviewed by:	Date:
Revised by:	Date:

Project: <u>Kaiser F.H.P. - 3801 - 3853 Broadway, Oakland, CA</u>		Boring/Well Name:
Boring Location: <u>3857 near oil AST's from Edwary</u>	Job No.: <u>050T.50133</u>	SB-9 Page <u>1</u> of <u>1</u>
Subcontractor and Equipment: <u>Viroter Geoprobe</u>	Logged by: <u>Robitaille</u>	
Sampling Method: <u>cont. 1.5" core PVC</u>	Monitoring Device: <u>PID/OVM</u>	Comments: <u>Ambient PID = <10 due to mechanics working.</u>
Start Date/Time: <u>9 Jan 04 // 1205</u>	Finish Date/Time: <u>// 1215</u>	
First Water (bgs): <u>NE</u>	Stabilized Water (bgs): <u>---</u>	
Surface Elevation: <u>---</u>	Casing Top Elevation: <u>---</u>	

Sample I.D.	PID (ppm)	Interval/Recovery	Depth (feet bgs)	USCS Code	Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percent)	Boring Abandonment or Well Construction Details
			0		Concrete - OK condition, stained w/oil	
			0.5	CL	silty clay (CL); yell brn to lt. grayish brn; mod hard; dry; (0,0,30,70); dk brown top 2"	
			1		grades mottled dk. red & black (decomposed CSE sand?)	
			1.5	ML	clayey silt (ML); dk brown; mod hard; dry; (0,0,85,15)	
			2			
			3			
			4	CL	silty clay (CL), dk. yell brn to v. dk. brown - mixed; mod hard; dry; trace small gravel; trace fn - CSE sand	
			5	ML	clayey silt (ML); lt. yellowish brown to lt. gray; mod soft; dry; (0,0,85,15)	
			6		End of boring 1215 hrs	

SECOR International Incorporated

Reviewed by:	Date:
Revised by:	Date:

Project: <u>Kaiser F.H.P. - 3701-3757 Broadway, Oakland, CA</u>		Boring/Well Name:
Boring Location: <u>US parking area near lg. sump</u>	Job No.: <u>OSOT, 50133</u>	SB-10
Subcontractor and Equipment: <u>Vitrex - Hand Auger</u>	Logged by: <u>Robitaille</u>	
Sampling Method: <u>Hand Auger: 1" core driver</u>	Monitoring Device: <u>PID/vm</u>	Page <u>1</u> of <u>1</u>
Start Date/Time: <u>9 Jan 04 // 1315</u>	Finish Date/Time: <u>//</u>	Comments: <u>Approx 8' west of SW corner of holding tank / Sump.</u>
First Water (bgs): <u>NE</u>	Stabilized Water (bgs): <u>-</u>	
Surface Elevation: <u>-</u>	Casing Top Elevation: <u>-</u>	

Sample I.D.	PID (ppm)	Interval/Recovery	Depth (feet bgs)	USCS Code	Lithologic Description (Soil type, Color, Consistency, Moisture, Descriptors, Estimated percent)	Boring Abandonment or Well Construction Details
			0		Asphalt - 2" - O.K. Condition - cored w/ hole saw	
			1		F Base coarse, gravel & sand, dk. yell. brown silty clay with cobbles and debris of concrete; v. dk. brown; mod hard; moist; cobbles to 4"	
SB10-2' (1330)			2	CL	Switched to 1" dia hand driven coring tool (PVC) Silty Clay (CL); dk to v. dk gray; mod soft; moist mottled with black; (0,0,20,80)	
			3			
			4			
SB10-5' (1340)			5		AA	
			6			

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Boring Log 10 page

Reviewed by:	Date:
Revised by:	Date:

Project: <u>Haiser - Oakland</u>				Log of Boring: _____		Page <u>1</u> of <u>1</u>	
Boring Location: <u>3701 Broadway, Oakland</u>				Project No.: <u>OSOT-50738.10</u>			
Subcontractor and Equipment: <u>Gregg Drilling / 62001060</u>				Logged By: <u>X. Helman</u>		<u>SB-37</u>	
Sampling Method: <u>Cont. Core</u>				Monitoring Device: <u>PID</u>		Comments: _____	
Start Date/Time: <u>1-19-06 / 1330</u>				Finish Date/Time: <u>1-19-06 / 1405</u>			
First Water (BGS): <u>NA</u>				Stabilized Water Level (BGS): <u>9.9</u>			

Sample Interval Recovery, Inches	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol	Surface Elevation:	Casing Top Elevation:	Boring Abandonment/ Well Construction Details
					LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)		
H A			0		concrete		X C O R E
			1		Bischoff gravel		
			2		Clayey Silt (ML); v. dk. gray (10YR-3/1); Firm; Dry; mod. plastic; (0,0,75,25)		
			3				
			4		Silty Clay (CL); Olive Gray (5Y-4/2); Firm to Hard; Dry; mod. plastic; (0,0,35,70)		
	50		5				
			6				
			7		Silty Sand (SM); Black (5Y-2.5/1); Sand is F. grained. coarse; wet; Oil-on water; strong odor; (0,80,20,0)		
	130		8				
	285		9		Silty Clay-AA; dk. greenish gray (10Y-3/1);		
	355		10		Silty Sand with gravel and clay (SM); dk. greenish gray (10Y-3/1); Sand is F. grained; Dense; moist; strong odor; (10,60,20,10)		
			11				
			12				
	405		13		Clay with silt (CL); Lt. olive brn (2.5Y-5/3); Hard; Dry; mod. plastic; strong odor; (0,0,10,90)		
			14				
			15				
	485		16		AA		
	105		17				
			18				
			19				
		20					

SEACOR

Reviewed by: _____ Date: _____

Project: <u>Kaiser - Oakland</u>		Log of Boring: _____	Page <u>1</u> of <u>1</u>
Boring Location: <u>3701 Broadway, Oakland</u>		Project No.: <u>0507.50282.00</u>	
Subcontractor and Equipment: <u>Gregg Pilling / Broprobe</u>		Logged By: <u>C. McLeur</u>	<u>SB-38</u>
Sampling Method: <u>Cont. Core</u>		Monitoring Device: <u>P10</u>	Comments: <u>Note: perched water at 4'</u>
Start Date/Time: <u>1-19-06 / 1130</u>		Finish Date/Time: <u>1-19-06 / 1320</u>	
First Water (BGS): <u>14' A</u>		Stabilized Water Level (BGS): <u>4'</u>	

Sample Interval/ Recovery, Inches		Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol	Surface Elevation:	Casing Top Elevation:	Boring Abandonment/ Well-Construction Details		
						LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)				
H A 				0	xxx	(concrete building slab		9100+		
				1		clay (CL); Ben (10YR-4/5); Firm; moist;				
				2		mod. plast.; (0,0,0,100)				
				3						
				4		Gravelly Silty Sand (SM); Black (5Y-2.5/1);				
	25			5	(X)	Sand is F. ve. fine; loose; wet; mod. oil odor;				
				6		green on water; (20,50,50,0)				
				7		Silty clay (CL); V. dk. gray (5Y-3/1);				
	20			8		Firm; moist; mod. plastic; mod. oil				
				9		odor; (0,0,30,70)				
				10						
				11						
	5			12	(X)	@ 12.5 color change to olive (5Y-5/3)				
				13						
				14						
				15						
				16						
	5			17	(X)					
				18						
				19						
				20						

SEACOR

Reviewed by: _____ Date: _____

Project: <u>Kaiser - Oahu</u>				Log of Boring: _____		Page of _____	
Boring Location: <u>3701 Broadway, Oahu</u>				Project No: <u>0507.58228.01</u>			
Subcontractor and Equipment: <u>Cross Boring / Geoprobe</u>				Logged By: <u>C. M. H. / 01</u>		SB-39	
Sampling Method: <u>Cont. Core</u>				Monitoring Device: <u>PID</u>		Comments: _____	
Start Date/Time: <u>1-19-06 / 1100</u>				Finish Date/Time: <u>1-19-06 / 1120</u>			
First Water (BGS): <u>14.4</u>				Stabilized Water Level (BGS): <u>9.4</u>			

Sample Interval/ Recovery, Feet	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol	Surface Elevation:	Casing Top Elevation:	Boring Abandonment/ Well-Construction Details
					LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)		
			0		Asphalt		9105 +
			1				
			2		Clay with silt (CL); Lt. Olive Brn		
			3		(2.5Y-5/2); Hard; Dry; mod. plast.		
			4		(0, 0, 10, 90)		
			5				
			6		AA		
			7				
			8				
			9				
			10				
			11				
			12				
			13		AA - Faint Odor		
			14				
			15				
			16		AA - moist; mod. odor		
			17				
			18		clayey silt with sand (cm); Olive gray (5Y-4/2)		
			19		Sand is fr. grained; Firm; moist;		
			20		mod. odor; (0, 10, 70, 20)		

SEACOR

Reviewed by: _____ Date: _____

Project: <u>Kaiser-Danland</u>				Log of Boring: _____		Page of _____	
Boring Location: <u>3701 Proudway, Oakland</u>				Project No.: <u>0507, 50738.00</u>			
Subcontractor and Equipment: <u>Gregg Drilling / Ecoprobe</u>				Logged By: <u>E. Melancon</u>			
Sampling Method: <u>Co. J. RCT</u>				Monitoring Device: <u>PPD</u>		Comments: <u>Shore on water</u>	
Start Date/Time: <u>1-19-06 / 1030</u>				Finish Date/Time: <u>1-19-06 / 1100</u>			
First Water (BGS): <u>18'</u>				Stabilized Water Level (BGS): <u>10.2</u>			

Sample Interval/ Recovery, feet	Blows/foot	PID (ppm)	Depth (feet)	USGS Symbol	Surface Elevation:	Casing Top Elevation:	Boring Abandonment/ Well Construction Details
					LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)		
14 A			0		Asphalt		grout
			1		clay (CL); Brn (10YR-4/3); Firm; moist;		
			2		mod. to high plastic; (0,0,0,101)		
			3		and gravel		
			4		Sandy silt w/ clay (ML); Olive Brn		
			5		(2.5Y-4/3); Sand is F. grained;		
			6		Firm; moist; mod. plastic; (10,30,50,10)		
			7				
			8		clay with silt (CL); Brn (10YR-5/3);		
			9		Firm to Hard; Dry; mod. plastic;		
			10		(0,0,10,90)		
			11				
			12				
			13				
			14		AA-40:34		
			15				
			16				
			17				
			18				
			19		Silty Sand with clay (SM); Olive gray		
		20		(5Y-4/2); Sand is F. grained; mod. Dense;			
				wet; strong odor; SPH green; (0,75,20,1)			

SEACOR

Reviewed by: _____ Date: _____

Project: <u>Kaiser - Oakland</u>				Log of Boring		Page of	
Boring Location: <u>3701 Broadway, Oakland</u>				Project No.: <u>0507.50226.00</u>			
Subcontractor and Equipment: <u>Gregg Drilling / GSP 06</u>				Logged By: <u>C. McNamee</u>		SB-41	
Sampling Method: <u>Cont. Core</u>				Monitoring Device: <u>PID</u>		Comments:	
Start Date/Time: <u>1-19-06 / 1400</u>				Finish Date/Time: <u>1-19-06 / 1450</u>			
First Water (BGS): <u>NA</u>				Stabilized Water Level (BGS): <u>14.9</u>			

Sample Interval Recovery, Inches	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol	Surface Elevation:	Casing Top Elevation:	Boring Abandonment/ Well-Construction Details
					LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)		
			0		Asphalt		950 J+
			1				
			2		Clay (cc); Ben (10% - 1/2); Firm to High		
			3		moist; mod. to High plastic; (0,0,0,100)		
			4				
			5				
			6				
			7				
			8		AA - weak silty		
			9				
			10				
			11				
			12		AA - faint odor		
			13				
			14				
			15		AA - mod. odor		
			16				
			17				
			18		clayey silt with sand (mf); olive gray		
			19		(5% - 1/2); sand is f. grained;		
			20		-; moist; mod. plastic;		
					strong odor; (0,10,70,20)		

SEACOR

Reviewed by: _____ Date: _____

Project: <u>H4300 - Oshland</u>				Log of Boring		Page of
Boring Location: <u>3701 Broadway, Oshland</u>				Project No.: <u>0507.5028.00</u>		
Subcontractor and Equipment: <u>Gross Drilling / Groprobe</u>				Logged By: <u>T. Hopley</u>		<u>SB-42</u>
Sampling Method: <u>Touch Core</u>				Monitoring Device: <u>P10</u>		Comments:
Start Date/Time: <u>1-18-06 / 945</u>				Finish Date/Time: <u>1-18-06 / 1040</u>		<u>Screen on water</u>
First Water (BGS): <u>~18'</u>				Stabilized Water Level (BGS): <u>11'</u>		

Sample Interval/ Recovery, Inches	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol	Surface Elevation: Casing Top Elevation:	LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	Boring Abandonment/ Well Construction Details
			0			Asphalt + Bitrock	
			1				
			2			Clay with Silt (CL); Dry (10YR-4/3);	
			3			Firm to Hard; moist; mod. plast;	
			4			(0,0,0,100)	
			5				
			6				
			7				
			8			water producing zone in missed recovery	
			9			Clay with Silt (CL); Ben (10YR-5/5);	
			10			Hard; Dry; mod. plast; Faint odor	
			11			Staining in zones; (0,0,10,90)	
			12				
			13			AA - mod. odor	
			14				
			15				
			16			AA - Strong odor	
			17				
			18			Silty Sand with clay (SM);	
			19			olive gray (5Y-4/2); Sand is	
			20			fine grained; mod. dense; wet;	
			21			Strong odor; SPH 54+41;	
			22			(0,75,20,5)	
			23				
			24				

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Reviewed by: _____ Date: _____

Project: <u>Haiser - Oakland</u>					Log of Boring: _____		Page <u>1</u> of <u>1</u>	
Boring Location: <u>3701 Broad Way, Oakland</u>					Project No.: <u>030T502E8.00</u>			
Subcontractor and Equipment: <u>Greco Drilling / Geoprobe</u>					Logged By: <u>CR/Mr. L. M. Con</u>		<u>SB-43</u>	
Sampling Method: <u>Cont. Core</u>					Monitoring Device: <u>P10</u>		Comments:	
Start Date/Time: <u>1-19-06 / 1500</u>					Finish Date/Time: <u>1-19-06 / 1530</u>			
First Water (BGS): <u>18'</u>					Stabilized Water Level (BGS): <u>12.7'</u>			

Sample Interval/ Recovery, inches	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol	Surface Elevation:	Casing Top Elevation:	Boring Abandonment/ Well Construction Details
					LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)		
10			0				grout
			1				
			2				
			3				
			4				
15			5				
			6				
			7				
			8				
			9				
20			10		AA - silty, in touch; Hard		
			11				
			12				
			13				
			14				
25			15		AA		
			16				
			17				
			18				
			19				
30			20		AA - mod. odor		
			21				
			22				
			23				
			24				
35			25		Silty sand with c/ly (FM); Olive gray (5Y-4/2); sand is f. gray inc. med. dr. wet; strong odor; (0, 75, 20, 5)		
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495			485				
			486				
			487				
			488				
			489				
500			490				

Project: <u>Kaiser - Oakland</u>				Log of Boring: _____		Page of _____	
Boring Location: <u>3741 Broadway, Oakland</u>				Project No: <u>850750238.00</u>			
Subcontractor and Equipment: <u>Gross Drilling / Grop Probe</u>				Logged By: <u>C. M. L. 4/20</u>			
Sampling Method: <u>Cont. Core</u>				Monitoring Device: <u>P10</u>		Comments: _____	
Start Date/Time: <u>1-20-06 / 800</u>				Finish Date/Time: <u>1-20-06 / 920</u>			
First Water (BGS): <u>NA</u>				Stabilized Water Level (BGS): <u>16'</u>			

Sample Interval/ Recovery, Feet	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol	Surface Elevation:	Casing Top Elevation:	Boring Abandonment/ Well-Construction Details
					LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)		
			0		on floor - building floor 5'6"		6107
			1		Silty clay (CL); dk. yellow-brown (10YR-4/4); Hard; moist; mod. plast; (0, 0, 20, 80)		
			2				
			3		Silty clay (CL); dk. yellow-brown (10YR-4/4); Hard; moist; mod. plast; (0, 0, 20, 80)		
			4				
			5				
			6				
			7				
			8				
			9				
			10				
			11				
			12				
			13		Gravelly, Silty Sand with clay (SM); dk. yellow-brown (10YR-5/6); Sand: fine-grained; moist; (15, 50, 25, 10)		
			14				
			15				
			16				
			17		Clay with silt (CL); dk. yellow-brown (10YR-5/6); Firm; moist; mod. plast; (0, 0, 10, 90)		
			18				
			19				
			20				
			21		Sandy silt with clay (ML); olive (5Y-5/3); Firm; moist; mod. plast; (0, 35, 55, 10)		
			22				
			23				
			24				

SEACOR

Reviewed by: _____ Date: _____

Project: <u>Ag. 501 - 04/10/04</u>		Log of Boring	Page of
Boring Location: <u>3741 Broadway, Oakland</u>		Project No.: <u>0507.58226.00</u>	
Subcontractor and Equipment: <u>Gregg Drilling / Sprock</u>		Logged By: <u>C. McLaughlin</u>	
Sampling Method: <u>cont. core</u>		Monitoring Device: <u>P10</u>	Comments: <u>SB-45</u>
Start Date/Time: <u>1-20-06 / 1320</u>		Finish Date/Time: <u>1-20-06 / 1355</u>	
First Water (BGS): <u>NA</u>		Stabilized Water Level (BGS): <u>NA</u>	

Sample Interval/ Recovery, Inches	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol	Surface Elevation:	Casing Top Elevation:	Boring Abandonment/ Well Construction Details	
					LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)			
NA			0	XXX	concrete slab floor			grout
			1	uuu	Described gravel			
		0	2	/	Silty (clay (CL); DK. yel. brn (10YR-4/1)			
			3	/	Hard; moist; mod. plast; (0,0,20,80)			
			4	/				
		0	5	X				
			6	/	Silty Clay (CL); Block (2.5Y-2.5/1) - AA			
			7	/				
			8	/				
			9	/				
		0	10	X				
			11	/				
			12	/				
			13	/	Clay with silt (CL); Lt. Olive Brn (2.5Y-5/2)			
		0	14	X	Hard; moist; mod. plast; (0,0,10,90)			
			15	/				
			16	/				
			17	/				
			18	/	AA			
		0	19	X				
			20	/				

SEACOR

Reviewed by: _____ Date: _____

Project: <u>Kaiser - Oakland</u>					Log of Boring: _____		Page <u>1</u> of <u>1</u>	
Boring Location: <u>3741 Broadway, Oakland</u>					Project No.: <u>0317.50228.00</u>		Comments: <u>SB-46</u>	
Subcontractor and Equipment: <u>Gress Drilling / Geoprobe</u>					Logged By: <u>L. Melanson</u>			
Sampling Method: <u>rand. core</u>					Monitoring Device: <u>P10</u>			
Start Date/Time: <u>1-20-06 / 950</u>					Finish Date/Time: <u>1-20-06 / 1030</u>			
First Water (BGS): <u>NA</u>					Stabilized Water Level (BGS): <u>—</u>			

Sample Interval/ Recovery, Inches	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol	Surface Elevation:	Casing Top Elevation:	Boring Abandonment/ Well-Construction Details
					LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)		
700	A	0	0		concrete building floor slab		+ 910 ft
			1		Gravelly Sand - Fill		
			2				
			3				
NR		0	4		Silty (loam) (CL); V. DK. grayish B. (10YR 3/2)		
			5		Firm; med. mod. plast.; (0, 0, 70, 70)		
			6				
			7				
205		0	8		AA - red f. c. along root holes		
			9				
			10		AA		
			11				
10		0	12		AA no root		
			13		Sandy Silty Sand with clay (sm); dk. grayish		
			14		gray (5Y 4/1); Sand is fine grain and med.		
			15		dense, moist; possible faint odor and staining		
20		0	16		(15, 50, 25, 10)		
			17		Clay with Silty (CL); Lt. gray. B. (2.5Y 6/1)		
			18		Firm; moist; mod. plast.; (0, 0, 10, 90)		
			19				
30		0	20		Geoprobe refusal w. ec.		

SEACOR

Reviewed by: _____ Date: _____

Project: <u>Kaiser - Oakland</u>					Log of Boring: _____ Page <u>01</u>	
Boring Location: <u>3741 Broadway, Oakland</u>					Project No.: <u>050T, 50278, 00</u>	
Subcontractor and Equipment: <u>Cross Drilling / Geoprobe</u>					Logged By: <u>C. McPherson</u>	
Sampling Method: <u>Cont. Core</u>					Monitoring Device: <u>PID</u>	
Start Date/Time: <u>1-20-06 / 1215</u>					Finish Date/Time: <u>1-20-06 / 1245</u>	
First Water (BGS): <u>NA</u>					Stabilized Water Level (BGS): <u>NA</u>	
Sample Interval/ Recovery, Inches	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol	Surface Elevation: _____ Casing Top Elevation: _____	
					LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)	
			0	xxx	Concrete slab floor	
			1	000	Bedrock	
		0	2		Clayey Silt (ML); dk. yel. brn (10YR-4/4)	
			3		Hard; Dry; mod. plastic; (0, 0, 80, 20)	
		0	4	xxx		
			5			
			6			
			7			
			8		Silty Clay (CL); Black (5Y-2.5/1); Hard; Dry; mod. plastic; (0, 0, 30, 70)	
		0	9	xxx	Gravelly Silty Sand with clay (SM); dk. yel. brn (10YR-4/4); Sand is m. grained; Dense; moist; (15, 50, 25, 10)	
			10	xxx		
			11		Clay with Silt (CL); dk. yel. brn (2.5Y-6/3); Firm; moist; mod. plastic; (0, 0, 10, 90)	
			12			
			13			
		0	14	xxx	Gravelly Silty Sand w/ clay (SM); Olive (5Y-5/3); Sand is F. m. grained; Dense; moist; (20, 50, 25, 5)	
		0	15	xxx		
			16	xxx	Clay with Silt (CL) - AA	
			17			
			18			
			19			
		20				

SEACOR

Reviewed by: _____

Date: _____

Project: <u>Kaiser-Oakland</u>				Log of Boring: _____		Page <u>1</u> of <u>1</u>	
Boring Location: <u>3741 Broadway, Oakland</u>				Project No.: _____			
Subcontractor and Equipment: <u>Craig Drilling/Geoprobe</u>				Logged By: _____			
Sampling Method: <u>Core</u>				Monitoring Device: _____		Comments: _____	
Start Date/Time: <u>1-20-06/1130</u>				Finish Date/Time: <u>1-20-06/1200</u>			
First Water (BGS): <u>NA</u>				Stabilized Water Level (BGS): <u>NA</u>			

Sample Interval/ Recovery, Inches	Blows/foot	PID (ppm)	Depth (feet)	USCS Symbol	Surface Elevation: _____	Casing Top Elevation: _____	Boring Abandonment/ Well Construction Details
					LITHOLOGIC DESCRIPTION (color, grain size, consistency, moisture, other)		
NA			0	XY	Concrete slab floor		9 foot
			1	GC	Pierced gravel		
			2				
		0	3		Sandy silt with clay and gravel (ML);		
			4		L. yellow. Brn (2.5Y-6/4); Sand is		
			5		F. greenish; Firm; moist. mod.		
		0	6		Plastic; (0, 30, 60, 10)		
			7		Silty clay (CL); Block (5Y-2.5/1);		
			8		Firm; Dry; mod. plastic; (10, 0, 30, 70)		
			9				
200		0	10				
			11				
			12				
			13				
			14				
			15				
			16				
			17				
			18				
			19				
			20				

SEACOR

Reviewed by: _____ Date: _____

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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DRILLING: STARTED **9/15/06** COMPLETED: **9/15/06**
 INSTALLATION: STARTED **9/15/06** COMPLETED: **9/15/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft):
 LATITUDE:
 GROUND ELEV (ft):
 INITIAL DTW (ft): **12 9/15/06**
 STATIC DTW (ft): **NE**
 WELL CASING DIAMETER (in): ---
 LOGGED BY: **J. Dowd**
 EASTING (ft):
 LONGITUDE:
 TOC ELEV (ft):
 BOREHOLE DEPTH (ft): **24.0**
 WELL DEPTH (ft): ---
 BOREHOLE DIAMETER (in): **2**
 CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Hand augered to 5 feet bgs						
5		SP	SAND; SP; loose; dry		1108 SB-51-5	5			5
		CL	SANDY CLAY; CL; 5Y-5/1; soft; dry		-	1		0.2	
10		SP	SAND; SP; 5Y-5/1; loose; dry		1109 SB-51-9.5	2			10
		CL	CLAY SOME SILT; CL; 5Y-5/1; stiff; moist; slight petroleum odor						
		SP	SAND SOME GRAVEL; SP; 2.5Y-4/1; loose; wet		1235 SB-51-12-W				
		CL	SILTY CLAY; CL; 10YR-6/6; hard; dry			3.5			
15					-			164	15
		SP	SAND WITH SILT AND CLAY; SP; 10YR-4/1; loose; moist		1112 SB-51-16				
		CL	SILTY CLAY; CL; 5G-5/1; hard; dry; slight petroleum odor			4			
		ML	SILT; ML; 5G-5/1; stiff; moist; moderate petroleum odor		-			86	
20									20
		CL	CLAY; CL; 10YR-3/3; soft; moist; moderate petroleum odor			3			
		SP	SAND SOME CLAY; SP; 10YR-4/1; medium dense; moist; moderate petroleum odor						
25			Hole terminated at 24 feet.						25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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DRILLING: STARTED **9/15/06** COMPLETED: **9/15/06**
 INSTALLATION: STARTED **9/15/06** COMPLETED: **9/15/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft):
 LATITUDE:
 GROUND ELEV (ft):
 INITIAL DTW (ft): **22 9/15/06**
 STATIC DTW (ft): **NE**
 WELL CASING DIAMETER (in): ---
 LOGGED BY: **J. Dowd**
 EASTING (ft):
 LONGITUDE:
 TOC ELEV (ft):
 BOREHOLE DEPTH (ft): **24.0**
 WELL DEPTH (ft): ---
 BOREHOLE DIAMETER (in): **2**
 CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Hand augered to 5 feet bgs			5			
5			No recovery 5' - 8'			0			5
	ML		SILT LITTLE SAND; ML; 10YR-5/1; stiff; dry		1153 SB-52-8	3.5		0.0	10
	ML		SILT; ML; 10YR-5/1; stiff; dry		1200 SB-52-12	1		0.0	15
	SP		SAND; SP; 10YR-4/2; medium dense; dry		1204 SB-52-16	2		67	20
	CL		CLAY WITH SILT; CL; 10YR-5/6; hard; dry						20
	ML		SILT; ML; 10YR-5/1; stiff; dry						20
	SC		CLAYEY SAND; SC; 10YR-3/1; loose; moist; moderate petroleum odor			4		211	20
	SP		SAND LITTLE CLAY; SP; 10YR-3/1; loose; wet		1253 SB-52-22-W				20
	CL		SILTY CLAY; CL; 10YR-4/1; stiff; moist						20
			Hole terminated at 24 feet.						25
25									25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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DRILLING: STARTED **9/15/06** COMPLETED: **9/15/06**
 INSTALLATION: STARTED **9/15/06** COMPLETED: **9/15/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft):
 LATITUDE:
 GROUND ELEV (ft):
 INITIAL DTW (ft): **23 9/15/06**
 STATIC DTW (ft): **NE**
 WELL CASING DIAMETER (in): ---
 LOGGED BY: **N. Doran**
 EASTING (ft):
 LONGITUDE:
 TOC ELEV (ft):
 BOREHOLE DEPTH (ft): **32.0**
 WELL DEPTH (ft): ---
 BOREHOLE DIAMETER (in): **2**
 CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		CL	Concrete / Baserock						
		CL	SILTY CLAY; CL; 10YR-3/3 dark brown; stiff; dry			5			
5								0.1	5
		ML	SANDY SILT SOME CLAY; ML; 10YR-4/6 dark yellowish brown; fine-grained; soft; dry			3		0.0	
		CL	CLAY WITH SILT; CL; 5Y-5/1 gray; stiff; dry			4		0.9	10
10		CL	GRAVELLY CLAY; CL; 5Y-5/1 gray; fine-grained; stiff; dry						
		CL	CLAY; CL; 10YR-5/6 yellowish brown; very stiff; dry			4		2.3	15
15		CL	CLAY WITH SILT; CL; olive; stiff; moist; moderate petroleum odor			4			
20					0925 SB-53-20				20
		SP	SAND; SP; olive; fine-grained; saturated		0930 SB-53-22-W	4			
25		CL	CLAY; CL; 7.5YR-6/6 reddish yellow; very stiff; dry			0			25
		ML	SANDY SILT; ML; fine-grained; soft; dry			2			
30		SM	SILTY SAND; SM; fine-grained; soft; moist			2			30
		CL	SILTY CLAY; CL; very stiff; dry			2			
			Hole terminated at 32 feet.						
35									35

PROJECT: Kaiser Permanente LOCATION: 3735 - 3799 Broadway PROJECT NUMBER: 05OT.50238.00		WELL / PROBEHOLE / BOREHOLE NO: SB-54 PAGE 1 OF 1	
DRILLING: STARTED 9/12/06 COMPLETED: 9/12/06 INSTALLATION: STARTED 9/12/06 COMPLETED: 9/12/06 DRILLING COMPANY: Gregg Drilling DRILLING EQUIPMENT: Geoprobe DRILLING METHOD: Direct Push SAMPLING EQUIPMENT: Sample Barrel		NORTHING (ft): LATITUDE: GROUND ELEV (ft): INITIAL DTW (ft): NE STATIC DTW (ft): NE WELL CASING DIAMETER (in): --- LOGGED BY: N. Doran	
		EASTING (ft): LONGITUDE: TOC ELEV (ft): BOREHOLE DEPTH (ft): 20.0 WELL DEPTH (ft): --- BOREHOLE DIAMETER (in): 2 CHECKED BY: N. Doran	

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
	Asphalt / Baserock								
	ML	ML	SANDY SILT WITH CLAY, ML; 10YR-5/6 yellowish brown; fine to medium-grained; soft; dry			5			
5	CL	CL	SILTY CLAY TRACE SAND, CL; 5YR-5/6 yellowish red; fine-grained; soft; dry		1450 SB-54-6	3			5
	ML	ML	SANDY SILT WITH CLAY, ML; 10YR-4/4 brown; fine-grained; stiff; dry						
10					1500 SB-54-11	4			10
	SM	SM	SILTY SAND; SM; 10YR-4/4 dark yellowish brown; fine to coarse-grained; loose; dry			4			
15					1505 SB-54-16				15
	ML	ML	SANDY SILT; ML; 10YR-4/4 dark yellowish brown; fine to coarse-grained; soft; dry						
	CL	CL	CLAY; CL; 10YR-5/3 brown; very stiff; dry			4			
20			Hole terminated at 20 feet.						20
25									25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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DRILLING: STARTED **9/14/06** COMPLETED: **9/15/06**
 INSTALLATION: STARTED **9/14/06** COMPLETED: **9/15/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft):
 LATITUDE:
 GROUND ELEV (ft):
 INITIAL DTW (ft): **NE**
 STATIC DTW (ft): **24 9/15/06**
 WELL CASING DIAMETER (in): ---
 LOGGED BY: **J. Dowd**
 EASTING (ft):
 LONGITUDE:
 TOC ELEV (ft):
 BOREHOLE DEPTH (ft): **38.0**
 WELL DEPTH (ft): ---
 BOREHOLE DIAMETER (in): **2**
 CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		CL	Asphalt / Baserock						
		CL	SILTY CLAY; CL; 10YR-3/3 dark brown; soft; moist			5			5
5						2			
10					1416 SB-55-9.5	2			10
		CL	CLAY SOME SILT; CL; 10YR-4/2 dark grayish brown; stiff; dry					0.0	
15					1418 SB-55-13	2			15
		ML	GRAVELLY SILT; ML; 10YR-3/3 dark brown; stiff; dry						
		ML	SILT; ML; 10YR-6/3; stiff; dry						
20					1420 SB-55-18.5	3			20
		ML	SANDY SILT; ML; 10YR-6/3; stiff; moist						
			No recovery 21' - 28'; static groundwater measured at 24' bgs on 9/15/06			1			
25					SB-55-24-W	0			25
		ML	SILT SOME SAND; ML; 10YR-6/4; soft; moist						
30		CL	SILTY CLAY; CL; 10YR-6/4; hard; dry			2			30
		ML	SILT SOME SAND; ML; 10YR-5/2; hard; dry			1			
35						1			35
			Hole terminated at 38 feet.						

PROJECT: Kaiser Permanente LOCATION: 3735 - 3799 Broadway PROJECT NUMBER: 05OT.50238.00		WELL / PROBEHOLE / BOREHOLE NO: SB-56 PAGE 1 OF 1		 SECOR
DRILLING: STARTED 9/12/06 COMPLETED: 9/12/06 INSTALLATION: STARTED 9/12/06 COMPLETED: 9/12/06 DRILLING COMPANY: Gregg Drilling DRILLING EQUIPMENT: Geoprobe DRILLING METHOD: Direct Push SAMPLING EQUIPMENT: Sample Barrel	NORTHING (ft): LATITUDE: GROUND ELEV (ft): INITIAL DTW (ft): NE STATIC DTW (ft): NE WELL CASING DIAMETER (in): --- LOGGED BY: N. Doran		EASTING (ft): LONGITUDE: TOC ELEV (ft): BOREHOLE DEPTH (ft): 20.0 WELL DEPTH (ft): --- BOREHOLE DIAMETER (in): 2 CHECKED BY: N. Doran	

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		ML	Asphalt / Baserock						
			SANDY SILT; ML; 10YR-6/6 yellowish brown; fine to coarse-grained; loose; dry			5			
5		CL	CLAY WITH SILT; CL; 10YR-5/4 yellowish brown; soft; moist		1555 SB-56-6	1.5			5
		CL	SANDY CLAY; CL; 10YR-5/6 yellowish brown; fine-grained; soft; dry						
10		ML	SANDY SILT; ML; 10YR-2/1 very dark brown; fine to coarse-grained; soft; dry		1600 SB-56-11	4			10
		SM	SILTY SAND WITH CLAY; SM; 10YR-2/1 very dark brown; fine to coarse-grained; soft; dry			4			
15		CL	CLAY; CL; 10YR-5/4 yellowish brown; stiff; dry						15
		ML	CLAYEY SILT; ML; 10YR-6/4 light yellowish brown; medium stiff; dry			4			
		ML	SILT WITH CLAY TRACE SAND ML; 10YR-6/4 light yellowish brown; fine-grained; soft; moist						
20			Hole terminated at 20 feet.						20
25									25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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SECOR

DRILLING: STARTED **9/13/06** COMPLETED: **9/13/06**
 INSTALLATION: STARTED **9/13/06** COMPLETED: **9/13/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft):
 LATITUDE:
 GROUND ELEV (ft):
 INITIAL DTW (ft): **21 9/13/06**
 STATIC DTW (ft): **NE**
 WELL CASING DIAMETER (in): ---
 LOGGED BY: **J. Dowd**
 EASTING (ft):
 LONGITUDE:
 TOC ELEV (ft):
 BOREHOLE DEPTH (ft): **34.0**
 WELL DEPTH (ft): ---
 BOREHOLE DIAMETER (in): **2**
 CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace P/D (units)	Depth (feet)
		CL	Asphalt / Baserock						
		CL	CLAY SOME SILT; CL; yellowish brown; stiff; moist			5			
5					1240 SB-57-5	3			5
10		CL	CLAY SOME GRAVEL; CL; light yellowish brown; stiff; dry		1242 SB-57-10	3			10
		ML	CLAYEY SILT; ML; brown; stiff; dry						
15		CL	GRAVELLY CLAY; CL; brown; hard; dry		1245 SB-57-14	3			15
		ML	SANDY SILT; ML; pale brown; hard; dry			4			
20					1320 SB-57-21-W	2			20
		SP	SAND; SP; brownish yellow; fine to coarse-grained; loose; wet						
25			No recovery 24' - 26'			0			25
		CL	CLAY; CL; yellowish brown; stiff; moist			2			
		ML	CLAYEY SILT; ML; pale brown; stiff; moist			2			
30		CL	SILTY CLAY; CL; brownish yellow; stiff; dry			2			30
		ML	SANDY SILT; ML; brownish yellow; stiff; dry						
		ML	SILT SOME SAND; ML; brownish yellow; stiff; dry			1			
35			Hole terminated at 34 feet.						35

PROJECT: Kaiser Permanente LOCATION: 3735 - 3799 Broadway PROJECT NUMBER: 05OT.50238.00		WELL / PROBEHOLE / BOREHOLE NO: SB-58 PAGE 1 OF 1		 SECOR
DRILLING: STARTED 9/11/06 COMPLETED: 9/11/06 INSTALLATION: STARTED 9/11/06 COMPLETED: 9/11/06 DRILLING COMPANY: Gregg Drilling DRILLING EQUIPMENT: Geoprobe DRILLING METHOD: Direct Push SAMPLING EQUIPMENT: Sample Barrel	NORTHING (ft): LATITUDE: GROUND ELEV (ft): INITIAL DTW (ft): NE STATIC DTW (ft): NE WELL CASING DIAMETER (in): --- LOGGED BY: N. Doran		EASTING (ft): LONGITUDE: TOC ELEV (ft): BOREHOLE DEPTH (ft): 20.0 WELL DEPTH (ft): --- BOREHOLE DIAMETER (in): 2 CHECKED BY: N. Doran	

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Concrete / Baserock						
5		ML	SANDY SILT; ML; 10YR-3/2 grayish brown; soft; dry			5			5
		ML	CLAYEY SILT; ML; 10YR-5/6 yellowish brown; fine to coarse-grained; soft; dry		1330 SB-58-6	3			
10		CL	SILTY CLAY; CL; 10YR-5/6 yellowish brown; very stiff; dry			4			10
			No recovery 12' - 16'		1335 SB-58-12	0			
15		ML	CLAYEY SILT; ML; 10YR-6/4 light yellowish brown; medium stiff; dry						15
		SM	SILTY SAND; SM; 10YR-5/6 yellowish brown; fine-grained; loose; moist		1340 SB-58-17	4			
20			Hole terminated at 20 feet.						20
25									25
30									30
35									35

PROJECT: Kaiser Permanente LOCATION: 3735 - 3799 Broadway PROJECT NUMBER: 05OT.50238.00		WELL / PROBEHOLE / BOREHOLE NO: SB-59 PAGE 1 OF 1		 SECOR
DRILLING: STARTED 9/11/06 COMPLETED: 9/11/06 INSTALLATION: STARTED 9/11/06 COMPLETED: 9/11/06 DRILLING COMPANY: Gregg Drilling DRILLING EQUIPMENT: Geoprobe DRILLING METHOD: Direct Push SAMPLING EQUIPMENT: Sample Barrel	NORTHING (ft): LATITUDE: GROUND ELEV (ft): INITIAL DTW (ft): NE STATIC DTW (ft): NE WELL CASING DIAMETER (in): --- LOGGED BY: N. Doran		EASTING (ft): LONGITUDE: TOC ELEV (ft): BOREHOLE DEPTH (ft): 20.0 WELL DEPTH (ft): --- BOREHOLE DIAMETER (in): 2 CHECKED BY: N. Doran	

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Concrete / Baserock						
		ML	SANDY SILT; ML; 10YR-3/2 very dark grayish brown; fine-grained; soft; dry			5			
5		ML	SANDY SILT; ML; 5Y-4/1 dark gray; fine-grained; soft; dry; moderate petroleum odor; Petroleum hydrocarbon odor decreases with depth to 9.5'		1415 SB-59-6	1.5		0.0	5
10		CL	SILTY CLAY WITH SAND; CL; 10YR-5/8 yellowish brown; fine-grained; stiff; dry		1420 SB-59-10	3			10
15					1425 SB-59-15	3			15
		ML	SANDY SILT; ML; 10YR-5/8 yellowish brown; fine-grained; stiff; dry						
		SM	SILTY SAND; SM; fine-grained; stiff; dry		1435 SB-59-19	3		0.3	
20			Hole terminated at 20 feet.						20
25									25
30									30
35									35

PROJECT: Kaiser Permanente LOCATION: 3735 - 3799 Broadway PROJECT NUMBER: 05OT.50238.00		WELL / PROBEHOLE / BOREHOLE NO: SB-60 PAGE 1 OF 1		 SECOR
DRILLING: STARTED 9/11/06 COMPLETED: 9/11/06 INSTALLATION: STARTED 9/11/06 COMPLETED: 9/11/06 DRILLING COMPANY: Gregg Drilling DRILLING EQUIPMENT: Geoprobe DRILLING METHOD: Direct Push SAMPLING EQUIPMENT: Sample Barrel	NORTHING (ft): LATITUDE: GROUND ELEV (ft): INITIAL DTW (ft): NE STATIC DTW (ft): NE WELL CASING DIAMETER (in): --- LOGGED BY: N. Doran		EASTING (ft): LONGITUDE: TOC ELEV (ft): BOREHOLE DEPTH (ft): 20.0 WELL DEPTH (ft): --- BOREHOLE DIAMETER (in): 2 CHECKED BY: N. Doran	

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Concrete / Baserock						
5		ML	SANDY SILT; ML; 10YR-3/2 very dark brown; soft; moist; moderate petroleum odor			5			
					1450 SB-60-6	3		2.8	5
10					1500 SB-60-10	4			10
		CL	SILTY CLAY WITH SAND; CL; 10YR-3/2 very dark brown; fine-grained; stiff; dry; moderate petroleum odor						
15		GP	SANDY GRAVEL WITH SILT; GP; fine to coarse-grained; loose; dry			4			15
					1505 SB-60-16			1.5	
		SM	SILTY SAND; SM; 5Y-5/2 gray; fine-grained; loose; dry			4			
20			Hole terminated at 20 feet.						20
25									25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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SECOR

DRILLING: STARTED **9/12/06** COMPLETED: **9/12/06**
 INSTALLATION: STARTED **9/12/06** COMPLETED: **9/12/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **20.0**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2**
 LOGGED BY: **N. Doran** CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Concrete / Baserock						
5		CL	SILTY CLAY ; CL; 10YR-2/2 very dark brown; soft; dry			5			
		SM	SILTY SAND ; SM; 10YR-5/2 dark grayish brown; fine-grained; soft; moist; slight petroleum odor		0830 SB-61-6	3		10.6	5
10		ML	SANDY SILT ; ML; 5Y-5/2 gray; fine-grained; soft; moist; moderate petroleum odor		0835 SB-61-11	4		20.0	10
15		ML	CLAYEY SILT WITH SAND TRACE GRAVEL ; ML; 10YR-3/2 very dark brown; fine to coarse-grained; stiff; dry; slight petroleum odor			4			15
20		ML	SANDY SILT WITH GRAVEL ; ML; 10YR-3/2 very dark brown; fine to coarse-grained; soft; dry; moderate petroleum odor		0840 SB-61-20	4			20
			Hole terminated at 20 feet.						
25									25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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SECOR

DRILLING: STARTED **9/12/06** COMPLETED: **9/12/06**
 INSTALLATION: STARTED **9/12/06** COMPLETED: **9/12/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft):
 LATITUDE:
 GROUND ELEV (ft):
 INITIAL DTW (ft): **NE**
 STATIC DTW (ft): **NE**
 WELL CASING DIAMETER (in): ---
 LOGGED BY: **N. Doran**
 EASTING (ft):
 LONGITUDE:
 TOC ELEV (ft):
 BOREHOLE DEPTH (ft): **20.0**
 WELL DEPTH (ft): ---
 BOREHOLE DIAMETER (in): **2**
 CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Concrete / Baserock						
		GM	SANDY GRAVEL WITH SILT, GM; suspected fill materials			5			
5		ML	CLAYEY SILT; ML; 10YR-2/2 very dark brown; soft; dry		0900 SB-62-6	3			5
10		ML	SANDY SILT WITH CLAY, ML; 10YR-5/4 yellowish brown; fine-grained; soft; dry		0905 SB-62-10	4			10
15		ML	CLAYEY SILT WITH SAND, ML; 10YR-5/1 dark gray; fine-grained; soft; dry		0910 SB-62-16	4			15
20		SM	SILTY SAND; SM; 10YR-5/1 dark gray; fine-grained; loose; dry			4			20
			Hole terminated at 20 feet.						
25									25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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DRILLING: STARTED **9/11/06** COMPLETED: **9/11/06**
 INSTALLATION: STARTED **9/11/06** COMPLETED: **9/11/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **19 9/11/06** BOREHOLE DEPTH (ft): **36.0**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2**
 LOGGED BY: **N. Doran** CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		CL	Asphalt / Baserock						
			SILTY CLAY WITH SAND ; CL; 10YR-2/1 black; fine-grained; soft; dry			5			
5		ML	SANDY SILT WITH CLAY ; ML; 10YR-3/4 dark yellowish brown; fine-grained; soft; dry		1025 SB-64-6	3			5
		ML	CLAYEY SILT WITH SAND ; ML; 10YR-2/2 very dark brown; fine to coarse-grained; soft; dry; Sand grades to coarse, with fine grained gravel at bottom of unit		-	4		0.0	10
10					1040 SB-64-12				
		ML	SANDY SILT ; ML; 10YR-5/3 brown; fine-grained; soft; moist		-	4		0.0	15
15					1140 SB-64-17			0.0	
		SM	SILTY SAND ; SM; 10YR-4/6 dark yellowish brown; fine to medium-grained; loose; saturated			4			
20					1220 SB-64-20-W				20
		ML	SILT ; ML; 10YR-5/3 brown; soft; dry			4			
		CL	CLAY ; CL; 10YR-5/3 brown; soft; dry			4			25
25									
		ML	SILT WITH SAND ; ML; 10YR-6/4 light yellowish brown; fine-grained; very stiff; dry			2			30
30									
						2			35
35			No recovery 35' - 36'						
			Hole terminated at 36 feet.						

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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DRILLING: STARTED **9/12/06** COMPLETED: **9/12/06**
 INSTALLATION: STARTED **9/12/06** COMPLETED: **9/12/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **19 9/12/06** BOREHOLE DEPTH (ft): **35.0**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2**
 LOGGED BY: **N. Doran** CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Asphalt / Baserock						
5		CL	SANDY CLAY WITH SILT; CL; 10YR-4/2 dark grayish brown; fine-grained; stiff; dry		1100 SB-65-6	5			5
		CL	SILTY CLAY; CL; 10YR-2/2 very dark brown; soft; dry			3			
10		ML	SANDY SILT; ML; 10YR-2/2 very dark brown; fine-grained; soft; dry		1105 SB-65-11	4			10
		ML	SANDY SILT WITH GRAVEL; ML; 10YR-2/2 very dark brown; fine to coarse-grained; soft; dry						
15		ML	CLAYEY SILT; ML; 10YR-4/2 dark grayish brown; soft; moist		1110 SB-65-16	4			15
		SM	SILTY SAND; SM; gray; fine to coarse-grained; loose; wet			4			
20		ML	SANDY SILT WITH CLAY; ML; 10YR-2/2 very dark brown; fine-grained; soft; dry		1130 SB-65-19-W				20
		CL	SILTY CLAY; CL; 10YR-5/6 dark brown; stiff; moist			4			
25			No recovery 24' - 28'			0			25
		ML	SILT WITH SAND; ML; 10YR-5/6 yellowish brown; fine-grained; soft; moist			2			
30		SM	SILTY SAND; SM; 10YR-5/6 yellowish brown; fine-grained; loose; moist			1.5			30
						2			
35			Hole terminated at 35 feet.			1			35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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SECOR

DRILLING: STARTED **9/12/06** COMPLETED: **9/12/06**
 INSTALLATION: STARTED **9/12/06** COMPLETED: **9/12/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **21.0**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2**
 LOGGED BY: **N. Doran** CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		CL	Asphalt / Baserock						
		CL	CLAY WITH SAND; CL; 5Y-4/1 dark gray; fine-grained; soft; dry to moist			5			5
5		CL	SILTY CLAY; CL; 10YR-5/6 yellowish brown; hard; dry		1015 SB-66-8	3			
		ML	SANDY SILT WITH CLAY; ML; 10YR-5/6 yellowish brown; fine-grained; stiff; dry		1020 SB-66-11	4			10
10								0.0	
		CL	SANDY CLAY WITH SILT; CL; 10YR-4/4 dark yellowish brown; fine-grained; stiff; dry			4			15
15			No recovery 16' - 20'						
						0			
20		ML	CLAYEY SILT; ML; 5Y-4/1 dark gray; stiff; dry			1			20
			Hole terminated at 21 feet.						
25									25
30									30
35									35

PROJECT: Kaiser Permanente LOCATION: 3735 - 3799 Broadway PROJECT NUMBER: 05OT.50238.00		WELL / PROBEHOLE / BOREHOLE NO: SB-67 PAGE 1 OF 1		 SECOR
DRILLING: STARTED 9/12/06	COMPLETED: 9/12/06	NORTHING (ft):	EASTING (ft):	
INSTALLATION: STARTED 9/12/06	COMPLETED: 9/12/06	LATITUDE:	LONGITUDE:	
DRILLING COMPANY: Gregg Drilling		GROUND ELEV (ft):	TOC ELEV (ft):	
DRILLING EQUIPMENT: Geoprobe		INITIAL DTW (ft): NE	BOREHOLE DEPTH (ft): 20.0	
DRILLING METHOD: Direct Push		STATIC DTW (ft): NE	WELL DEPTH (ft): ---	
SAMPLING EQUIPMENT: Sample Barrel		WELL CASING DIAMETER (in): ---	BOREHOLE DIAMETER (in): 2	
		LOGGED BY: N. Doran	CHECKED BY: N. Doran	

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		CL	Asphalt / Baserock						
			SILTY CLAY; CL; 10YR-5/6 yellowish brown; hard; dry			5			
5					0930 SB-67-6	3			5
		ML	SANDY SILT WITH CLAY; ML; 10YR-5/6 yellowish brown; fine-grained; stiff; dry		0935 SB-67-10	4			10
10		CL	SILTY CLAY; CL; 10YR-5/6 yellowish brown; very stiff; dry						
15					0940 SB-67-15	4			15
			No recovery 16' - 20'			0			
20			Hole terminated at 20 feet.						20
25									25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

SB-69

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DRILLING: STARTED **9/14/06** COMPLETED: **9/14/06**
 INSTALLATION: STARTED **9/14/06** COMPLETED: **9/14/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **20.0**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2**
 LOGGED BY: **N. Doran** CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Concrete / Baserock						
5		ML	SANDY SILT WITH CLAY ; ML; 10YR-5/6 yellowish brown; fine-grained; soft; dry			5			5
		ML	CLAYEY SILT ; ML; 10YR-2/1 black; soft; dry		1040 SB-69-8	3			
10		CL	CLAY ; CL; 10YR-4/6 dark yellowish brown; medium stiff; dry			4			10
		ML	SANDY SILT ; ML; 10YR-4/6 dark yellowish brown; fine-grained; stiff; dry		1050 SB-69-13	4			
15		SM	SILTY SAND ; SM; fine-grained; loose; dry			4			15
		SM	SILTY SAND WITH GRAVEL ; SM; fine to coarse-grained; loose; dry						
20		CL	SILTY CLAY WITH SAND ; CL; 10YR-6/3 pale brown; fine-grained; very stiff; dry		1055 SB-69-20	4			20
			Hole terminated at 20 feet.						
25									25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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DRILLING: STARTED **9/14/06** COMPLETED: **9/14/06**
 INSTALLATION: STARTED **9/14/06** COMPLETED: **9/14/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft):
 LATITUDE:
 GROUND ELEV (ft):
 INITIAL DTW (ft): **NE**
 STATIC DTW (ft): **NE**
 WELL CASING DIAMETER (in): ---
 LOGGED BY: **N. Doran**
 EASTING (ft):
 LONGITUDE:
 TOC ELEV (ft):
 BOREHOLE DEPTH (ft): **20.0**
 WELL DEPTH (ft): ---
 BOREHOLE DIAMETER (in): **2**
 CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Concrete / Baserock						
5		ML	SANDY SILT WITH CLAY ; ML; 10YR-5/6 yellowish brown; fine-grained; soft; dry		1105 SB-70-6	5			5
		ML	CLAYEY SILT ; ML; 10YR-2/1 black; soft; dry			3			
10		CL	CLAY ; CL; 10YR-4/6 dark yellowish brown; medium stiff; dry			4			10
		ML	SANDY SILT ; ML; 10YR-4/6 dark yellowish brown; fine-grained; stiff; dry		1115 SB-70-12				
		SM	SILTY SAND ; SM; fine-grained; loose; dry			4			
15		SM	SILTY SAND WITH GRAVEL ; SM; fine to coarse-grained; loose; dry						15
		CL	SILTY CLAY WITH SAND ; CL; 10YR-6/3 pale brown; fine-grained; very stiff; dry		1125 SB-70-18	4			
20			Hole terminated at 20 feet.						20
25									25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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SECOR

DRILLING: STARTED **9/13/06** COMPLETED: **9/13/06**
 INSTALLATION: STARTED **9/13/06** COMPLETED: **9/13/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft):
 LATITUDE:
 GROUND ELEV (ft):
 INITIAL DTW (ft): **NE**
 STATIC DTW (ft): **NE**
 WELL CASING DIAMETER (in): ---
 LOGGED BY: **N. Doran**
 EASTING (ft):
 LONGITUDE:
 TOC ELEV (ft):
 BOREHOLE DEPTH (ft): **20.0**
 WELL DEPTH (ft): ---
 BOREHOLE DIAMETER (in): **2**
 CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Concrete / Baserock						
		SW	SAND ; SW; well-sorted clean sand, suspected fill materials			5			
5		ML	SANDY SILT ; ML; 10YR-5/4 yellowish brown; fine-grained; soft; dry			3			5
		CL	CLAY WITH SILT SOME SAND CL; gray; fine-grained; soft; moist; slight petroleum odor		0805 SB-71-8	4			10
10		ML	SILT ; ML; 10YR-2/1 black; soft; dry		0810 SB-71-12	4			15
15		CL	SANDY CLAY WITH SILT ; CL; 10YR-5/2 grayish brown; fine to coarse-grained; soft; dry; increasing coarse-grained sand and rock fragments 17' - 20'		0815 SB-71-16	4			20
20			Hole terminated at 20 feet.						
25									25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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DRILLING: STARTED **9/13/06** COMPLETED: **9/13/06**
 INSTALLATION: STARTED **9/13/06** COMPLETED: **9/13/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **20.0**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2**
 LOGGED BY: **N. Doran** CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Concrete / Baserock						
		SW	SAND ; SW; well-sorted clean sand, suspected fill materials			5			
5		ML	SANDY SILT ; ML; 10YR-5/4 yellowish brown; fine-grained; soft; dry		0840 SB-72-6	3			5
10		CL	CLAY WITH SILT SOME SAND CL; gray; fine-grained; soft; moist; slight petroleum odor		0845 SB-72-11	4			10
		ML	SILT ; ML; 10YR-2/1 black; soft; dry						
15		CL	SANDY CLAY WITH SILT ; CL; 10YR-5/2 grayish brown; fine to coarse-grained; soft; dry; Increasing coarse-grained sand and rock fragments 17' - 20'		0850 SB-72-18	4			15
20			Hole terminated at 20 feet.						20
25									25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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SECOR

DRILLING: STARTED **9/13/06** COMPLETED: **9/13/06**
 INSTALLATION: STARTED **9/13/06** COMPLETED: **9/13/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft):
 LATITUDE:
 GROUND ELEV (ft):
 INITIAL DTW (ft): **22 9/13/06**
 STATIC DTW (ft): **NE**
 WELL CASING DIAMETER (in): ---
 LOGGED BY: **N. Doran**
 EASTING (ft):
 LONGITUDE:
 TOC ELEV (ft):
 BOREHOLE DEPTH (ft): **35.0**
 WELL DEPTH (ft): ---
 BOREHOLE DIAMETER (in): **2**
 CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		CL	Asphalt / Baserock CLAY; CL; black; soft; dry			5			
5		ML	SANDY SILT WITH CLAY; ML; 10YR-4/4 dark yellowish brown; fine to coarse-grained; soft; dry		1120 SB-74-8	3			5
10					1125 SB-74-12	4			10
15		CL	SANDY CLAY; CL; 10YR-4/6 dark yellowish brown; fine-grained; stiff; dry			4			15
		ML	SANDY SILT; ML; 10YR-4/6 dark yellowish brown; fine to coarse-grained; stiff; dry			4			
20					1140 SB-74-20				20
		SC	CLAYEY SAND; SC; 10YR-4/6 dark yellowish brown; fine-grained; soft; moist		1230 SB-74-22-W	4			
25			No recovery 24' - 26'			0			25
		CL	CLAY; CL; 10YR-5/8 yellowish brown; soft to stiff; dry			2			
30						2			30
		CL	SANDY CLAY; CL; 7.5YR-5/4 brown; fine-grained; very stiff; dry			2			
35			Hole terminated at 35 feet.			1			35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

SB-75 PAGE 1 OF 1



SECOR

DRILLING: STARTED **9/13/06** COMPLETED: **9/13/06**
 INSTALLATION: STARTED **9/13/06** COMPLETED: **9/13/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft):
 LATITUDE:
 GROUND ELEV (ft):
 INITIAL DTW (ft): **NE**
 STATIC DTW (ft): **NE**
 WELL CASING DIAMETER (in): ---
 LOGGED BY: **N. Doran**
 EASTING (ft):
 LONGITUDE:
 TOC ELEV (ft):
 BOREHOLE DEPTH (ft): **20.0**
 WELL DEPTH (ft): ---
 BOREHOLE DIAMETER (in): **2**
 CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		SW	Asphalt / Baserock						
		SW	SW; well-graded sand, suspected fill material			5			
5		CL	SANDY CLAY WITH SILT; CL; 10YR-2/2 very dark brown; fine to coarse-grained; soft; dry			3			5
		ML	SANDY SILT; ML; 10YR-2/2 very dark brown; fine-grained; soft; dry		1020 SB-75-8				
10		CL	SANDY CLAY WITH GRAVEL; CL; 10YR-4/4 dark yellowish brown; fine to coarse-grained; stiff; dry			4			10
		CL	SANDY CLAY WITH GRAVEL; CL; 10YR-4/4 dark yellowish brown; fine to coarse-grained; stiff; dry		1030 SB-75-13				
15		CL	CLAY TRACE GRAVEL; CL; 10YR-3/4 yellowish brown; fine-grained; very stiff; dry			4			15
		CL	CLAY TRACE GRAVEL; CL; 10YR-3/4 yellowish brown; fine-grained; very stiff; dry			4			
20			Hole terminated at 20 feet.		1035 SB-75-20				20
25									25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

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DRILLING: STARTED **9/13/06** COMPLETED: **9/13/06**
 INSTALLATION: STARTED **9/13/06** COMPLETED: **9/13/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **20.0**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2**
 LOGGED BY: **N. Doran** CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		SW	Asphalt / Baserock						
		SW	SW; well-graded sand, suspected fill material			5			
5		CL	SILTY CLAY SOME SAND; CL; 10YR-4/3 brown; fine to coarse-grained; stiff to very stiff; dry		1050 SB-76-6	3			5
10						4			10
		SM	SILTY SAND; SM; 10YR-4/6 dark yellowish brown; fine to medium-grained; loose; moist to wet		1055 SB-76-12	3			15
15		ML	SANDY SILT; ML; 10YR-4/6 dark yellowish brown; fine-grained; soft; dry						
		CL	CLAY WITH SILT AND SAND CL; 10YR-4/6 dark yellowish brown; fine-grained; hard; dry		1100 SB-76-18	4			20
20			Hole terminated at 20 feet.						20
25									25
30									30
35									35

PROJECT: **Kaiser Permanente**
 LOCATION: **3735 - 3799 Broadway**
 PROJECT NUMBER: **05OT.50238.00**

WELL / PROBEHOLE / BOREHOLE NO:

SB-77 PAGE 1 OF 1



DRILLING: STARTED **9/13/06** COMPLETED: **9/13/06**
 INSTALLATION: STARTED **9/13/06** COMPLETED: **9/13/06**
 DRILLING COMPANY: **Gregg Drilling**
 DRILLING EQUIPMENT: **Geoprobe**
 DRILLING METHOD: **Direct Push**
 SAMPLING EQUIPMENT: **Sample Barrel**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **23 9/13/06** BOREHOLE DEPTH (ft): **24.0**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2**
 LOGGED BY: **N. Doran** CHECKED BY: **N. Doran**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		CL	Asphalt / Baserock						
		CL	SILTY CLAY ; CL; 10YR-4/4 dark yellowish brown; soft; dry; fine to medium grained sand and fine-grained gravel (rock fragments) at 7'			5			
5					1420 SB-77-6	2			5
		ML	SANDY SILT ; ML; 10YR-2/2 very dark brown; fine-grained; soft; dry						
10		CL	SILTY CLAY WITH SAND AND GRAVEL ; CL; 10YR-2/2 very dark brown; fine-grained; soft; dry		1425 SB-77-12	4			10
		SM	SILTY SAND WITH GRAVEL ; SM; 10YR-6/4 light yellowish brown; fine-grained; loose; moist			4			
15									15
		ML	SANDY SILT WITH GRAVEL ; ML; 10YR-6/4 light yellowish brown; fine-grained; hard; dry			4			
20		SM	SILTY SAND WITH GRAVEL ; SM; 10YR-6/4 light yellowish brown; fine-grained; loose; moist		1435 SB-77-20				20
		CL	SILTY CLAY ; CL; 10YR-5/4 yellowish brown; medium stiff; moist			4			
		SM	SILTY SAND ; SM; 10YR-4/6 dark yellowish brown; fine-grained; loose; moist to wet		1445 SB-77-23-W				
25			Hole terminated at 24 feet.						25
30									30
35									35