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

August 5, 2009

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

Mortimer Howard Trustee
Mortimer Howard Trust
2901 Jackson Street
Alameda, CA 94501

Peter Armstrong
EAH Housing Inc.
2169 East Francisco Boulevard, Suite B
San Rafael, CA 94901

Subject: Fuel Leak Case No. RO0002994 and GeoTracker Global ID T10000000818, Park Village Senior Apartments, 3761 Park Boulevard Way, Oakland, CA 94610

Dear Mr. Howard & Mr. Armstrong:

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 pollution remaining in soil beneath the site includes TPH as gasoline and motor oil at concentrations of 380 mg/kg and 590 mg/kg respectively.
- Maximum concentrations of TPH-diesel and motor oil at concentrations up to 290 µg/L and 970 µg/L, respectively, remain in groundwater beneath the site.

If you have any questions, please call Paresh Khatri at (510) 777-2478. Thank you.

Sincerely,

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

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

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

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

Paresh Khatri (w/orig enc), D. Drogos (w/enc), R. Garcia (w/enc)

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2169 East Francisco Boulevard, Suite B
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REMEDIAL ACTION COMPLETION CERTIFICATE

Subject: Fuel Leak Case No. RO0002994 and GeoTracker Global ID T10000000818, Park Village Senior Apartments, 3761 Park Boulevard Way, Oakland, CA 94610

Dear Mr. Howard & Mr. Armstrong:

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

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

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

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

Sincerely,

Ariu Levi
Director
Alameda County Environmental Health

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

I. AGENCY INFORMATION

Date: July 30, 2009

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 777-2478
Responsible Staff Person: Paresh Khatri	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Park Village Senior Apartments		
Site Facility Address: 3761 Park Boulevard Way, Oakland, California, 94610		
RB Case No.: NA	Local Case No.: RO0002994	LOP Case No.: RO0002994
URF Filing Date: 12/12/2008	Global ID No.: T10000000818	APN: 24-532-43-1

Responsible Parties	Addresses	Phone Numbers
Mortimer Howard Trustee Mortimer Howard Trust	2901 Jackson Street Alameda, CA 94501	(510) 390-4953
Mr. Peter Armstrong EAH Housing Inc.	2169 East Francisco Boulevard, Suite B San Rafael, California 94901	(415) 295-8825

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	Unknown	Gasoline / Diesel	Removed	~1970
Piping			Removed	~1970

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown		
Site characterization complete? Yes	Date Approved By Oversight Agency: --	
Monitoring wells installed? No	Number: 0	Proper screened interval? N/A
Highest GW Depth Below Ground Surface: 50 ft bgs	Lowest Depth: 50 ft bgs	Flow Direction: Assumed West to Northwesterly based on topography
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: A well survey was conducted at this site. There is one well located within a mile of the subject property. The approximate location of this well is illustrated on the Vicinity Map, Figure 1. No water supply wells were identified in the presumed down gradient (north) location of the site. No municipal water supply wells. were identified by EDR within 2,000 feet of the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain Groundwater Basin
Is surface water affected? No	Nearest SW Name: Central Reservoir is located approximately 1,250 feet southeast of the site, Sausal Creel is located approximately 2,000 feet east southeast of the site, and Lake Merritt is approximately 1 mile west of the site.
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
Tank	One unknown size	Disposal to Unknown Location	~1970
Piping	Unknown	Disposal to Unknown location	~1970
Free Product	NA	---	---
Soil	---	---	---
Groundwater	---	---	---

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

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	380 (SB-1 (6.5-7), 12/02/2008)	380 (SB-1 (6.5-7), 12/02/2008)	<50	<50
TPH (Diesel)	110 (SB-6-(4-5), 12/22/2008)	110 (SB-6-(4-5), 12/22/2008)	290 (SB-15, 5/15/2009)	290 (SB-15, 5/15/2009)
TPH (Motor Oil)	590 (SB-4-(4-5 &10-12), 12/02/2008)	590 (SB-4-(4-5 &10-12), 12/02/2008)	970 (SB-15, 5/15/2009)	970 (SB-15, 5/15/2009)
TOG	NA	NA	NA	NA
Benzene	<2.2 (SB-1 (6.5-7), 12/02/2008)	<2.2 (SB-1 (6.5-7), 12/02/2008)	<0.5	<0.5
Toluene	<0.98 (SB-1 (6.5-7), 12/02/2008)	<0.98 (SB-1 (6.5-7), 12/02/2008)	<0.5	<0.5
Ethylbenzene	6.7 (SB-1 (6.5-7), 12/02/2008)	6.7 (SB-1 (6.5-7), 12/02/2008)	<0.5	<0.5
Xylenes	8.5 (SB-1 (6.5-7), 12/02/2008)	8.5 (SB-1 (6.5-7), 12/02/2008)	<1.0	<1.0
MTBE	<0.98[5] (SB-1 (6.5-7), 12/02/2008)	<0.98[4] (SB-1 (6.5-7), 12/02/2008)	<0.5[3]	<0.5[2]
Lead	936[1] (SB-15 (28-30), 5/15/09)	936[1] (SB-15 (28-30), 5/15/09)	<0.0055	<0.0055
Naphthalene	NA	NA	<1.0	<1.0

NA Not Analyzed
[1] All other Pb concentrations on-site ranged from 3.8 to 34 mg/kg.
[2]Other VOCs (groundwater µg/L after cleanup): <1.0 µg/L MtBE, NA µg/L TBA, NA µg/L DIPE, NA µg/L ETBE, NA µg/L TAME, <0.5 µg/L EDB, <0.5 µg/L 1.2-DCA, NA µg/L EtOH
[3]Other VOCs (groundwater ppb before cleanup):): <1.0 µg/L MtBE, NA µg/L TBA, NA µg/L DIPE, NA µg/L ETBE, NA µg/L TAME, <0.5 µg/L EDB, <0.5 µg/L 1.2-DCA, NA µg/L EtOH
[4]Other VOCs (Soil mg/kg after cleanup): <0.98 mg/kg MtBE NA mg/kg TBA, NA mg/kg DIPE, NA mg/kg ETBE, NA mg/kg TAME, NA mg/kg EtOH
[5]Other VOCs (Soil mg/kg before cleanup): <0.98 mg/kg MtBE, NA mg/kg TBA, NA mg/kg TAME, NA mg/kg DIPE, NA mg/kg EtOH

Site History and Description of Corrective Actions:

The Site is located at 3761 Park Boulevard Way in Oakland, California (**Figure 1**). The Site is comprised of an approximately 0.6-acre parcel located on the northeast side of Park Boulevard Way. The subject property is developed with a five story, u-shaped building comprising 70,000-square feet of multi-tenant apartments. The building consists of 84 one-bedroom apartments and several common areas. The building has a ground level parking garage located below the southeastern portion of the building. Land use in the immediate site vicinity is predominantly residential with some commercial properties to the south of the subject property along Park Boulevard. Topography in the site vicinity is sloping to the north-northeast. Groundwater was found at an average of 50 to 60 feet below grade (fbg).

The subject property is known to be a historical gas station. The historical resources utilized in the Phase I ESA (EDR City Directories and the historical Sanborn maps) indicated that the subject property was occupied by a former gas station (Ritchey's Union Service Station and Earl's Union 76) from approximately 1950-1970. **Figure 2** illustrates the approximate locations of the former station buildings with respect to the existing structures. According to ACC Environmental, no information pertaining to the former gas station on the subject property was obtained from the City of Oakland Fire Department, the California EPA-Regional Water Quality Control Board, the California EPA-Department of Toxic Substance Control, Region 2 or Alameda County Environmental Health. Since the presence of a former gas station on the subject property is interpreted to be a recognized environmental condition, further investigation was deemed warranted.

On November 17, 2008, ACC conducted a ground penetrating radar survey of the site to determine if USTs were present at the Site. The GPR survey did not identify or locate any USTs in the area of the subject property likely to contain the former UST.

On December 22, 2008, seven (7) exploratory soil borings were advanced at select locations. Each soil boring was continuously cored to maximum depths of 20 to 25 feet bgs to facilitate logging and screening encountered soils and to obtain soil sample intervals for potential laboratory analysis. Due to the physical limiting conditions (height restrictions which precluded the use of a truck mounted drilling rig in the garage area, limited access to the courtyard and dense clay soils) continuous coring below 25 feet bgs was not feasible. One grab water sample was collected from SB-5 (completed outside of the existing structure). Select soil samples from each boring and the grab water sample were submitted for laboratory analysis of TPH-g, benzene, toluene, ethylbenzene, xylenes (BTEX) and MTBE by EPA Method 8260B and TPH-d and motor oil by EPA Method 8015M. TPH-g, TPH-d, TPH-mo and benzene were detected at maximum concentrations of 380 mg/kg, 110 mg/kg, 550 mg/kg, and <2.2 mg/kg, respectively in soil samples collected at the site. "Grab" groundwater sample analytical results detected TPH-d and TPH-mo at concentrations of 220 µg/L and <500 µg/L, respectively. Analytical results are presented in **Table 1** and sampling locations are illustrated on **Figure 2**, attached. Based on the analytical results from this sampling event, additional site characterization was warranted.

On May 14 and 15, 2009, ACC oversaw the installation of six (6) additional soil borings in an effort further characterize the extent of soil impact and to determine if groundwater at the site is impacted. Four soil borings (SB-12, SB-13, SB-14, and SB-15) were completed to approximately 60-77 feet below ground surface (bgs) using a Portable Sampling Rig equipped with 3-inch hollow stem augers. According to ACC, select depth intervals were collected from the soil cuttings and logged using the Unified Soil Classification System, field screened with a PID meter, and prepared for analysis. Soil intervals saved for analysis were immediately placed in stainless steel sampling tubes, covered each end with polyethylene sheeting and tight-fitting plastic caps, labeled, placed in resealable plastic bags, and placed in a pre-chilled insulated container and prepared for transport and analysis using standard chain of custody protocol. Soil samples collected for analysis were sealed and cooled as soon as feasible to minimize potential volatilization. All samples were stored in a locked vehicle or in direct observation at all times.

Two (2) soil borings (SB-2A and SB-6A) were installed to a maximum depth of 15 feet bgs using a truck-mounted Geoprobe® rig. These soil borings were continuously cored using a pneumatic Geoprobe® sampling tool. The soil were collected in Geoprobe® stainless steel macro cores equipped with Geoprobe®-supplied, 2.0 inch by 48.0 inch long disposable clear acetate liners. According to ACC, select depth intervals were collected from the 4-foot-long acetate liners and the soils were logged using the Unified Soil Classification System, field screened using a PID meter or prepared for analysis. Soil intervals saved for analysis were immediately placed in stainless steel sampling tubes, with polyethylene sheeting and tight-fitting plastic caps, labeled, placed in resealable plastic bags, and placed in a pre-chilled insulated container and prepared for transport and analysis using standard chain of custody protocol. Soil samples collected for analysis were sealed and cooled as soon as feasible to minimize potential volatilization. All samples were in a locked vehicle or in direct observation at all times. The sampling probe and rods were pre-cleaned prior to use and between sample drives by washing them with a trisodium phosphate and potable water solution and two potable water rinses. Each of the soil samples was analyze for lead scavengers (ethylene dichloride (EDC) and ethylene dibromide (EDB)) by EPA Method 8260B, organic lead, and LUFT 5 Metals by EPA Method 6010B. Following drilling and sample collection, each soil boring location was abandoned with neat cement to the surface (2 to 3 inches). The surface of each boring location was completed with concrete to grade.

"Grab" groundwater samples were collected with the use of a PVC schedule 40, 1-inch or 2-inch, temporary monitoring wells. Each soil boring will be conducted to the respective depth of interest (50 feet bgs or five feet below the first depth in which groundwater was encountered) and the temporary monitoring points were set with a 5-foot long screen that was exposed to the formation. "Grab" water samples were collected using low-flow, low-turbidity techniques. Samples collected for metal analysis were field filtered using 0.45 micron filters. "Grab" groundwater samples were collected into laboratory-supplied 40-milliliter sample vials without headspace, and1 liter amber bottles, labeled and immediately sealed and cooled to minimize potential volatilization. According to ACC, all samples collected were stored in a pre-chilled, insulated container pending ACC transport to TestAmerica, a state-certified analytical laboratory.

As mentioned above, benzene detection limit in soil was above the ESL. In order to evaluate the potential for contaminant volatilization to indoor air exposure pathway, four soil vapor samples were collected at the site. At each of the four soil vapor sampling points a 1- to 1.25-inch hole was drilled to 3 to 4 inches into the sub slab material beneath the building foundation and or the poured concrete slab (a.k.a. rat proofing material) in the crawl space areas using an electric hand drill, and 0.25-inch vapor points consisting of polyethylene tubing with a permeable probe tip were installed in the cored holes. A Teflon™ disk was used to seal the joint between the tubing and the probe tip. The probe tip as covered with sand and hydrated bentonite chips will be used to seal the annular air space between the probe tip and the bottom of the building foundation.

Prior to sampling, each soil vapor point was allowed to equilibrate for a minimum of 30 minutes. During sample collection at each sampling point, ACC purged vapor from the tubing, probe tip, and sand pack within the soil gas probe. Each sample point will be purged for 30 seconds prior to sampling. At the completion of purging, ACC collected the soil vapor

samples by opening the vapor-tight valve on the Summa canister and allowing the canister to fill with extracted soil vapor. ACC recorded the vacuum at the time the valve is opened and monitor and recorded the vacuum during sample collection. ACC utilized 100% tetrafluoroethane at each sample location as the leak detector tracer gas. ACC ended sample collection when the vacuum within the sample canister is approximately 5 inches of Hg. All soil vapor sample containers were labeled and stored at ambient temperature in laboratory-supplied containers. All Soil Vapor Samples were submitted to Torrent Laboratories for volatile organic compound analysis (VOCs) via EPA method TO-15 Analysis.

Upon completion of the sampling program, ACC grouted all borings and sealed them with concrete to match its original condition. Sub-slab sampling was conducted following guidance criteria: for the *Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (Interim Final), published by the Department of Toxic Substance Control of the California Environmental Protection Agency (December 15, 2004, revised February 7, 2005) (DTSC 2005) and *Advisory-Active Soil Gas Investigations*, jointly issued by the Department of Toxic Substances Control of the California Environmental Protection Agency and the California Regional Water Quality Control Board, Los Angeles Region (CRWQCB-LA, 2003).

Summary of Analytical Results

Soil sample analytical results detected TPH-g, TPH-d, TPH-mo and benzene at maximum concentrations of 380 mg/kg, 110 mg/kg, 550 mg/kg, and <2.2 mg/kg. Lead scavengers (ethylene dichloride (EDC) and ethylene dibromide (EDB)) and Cadmium were not detected above the laboratory detection limit in all soil samples collected. All soil samples collected had minor detections of Chromium, Nickel, Lead and Zinc. However, all of the detection of these metals were below their respective environmental screening level (ESLs) for deep soils and residential land use.

In the groundwater samples (SB-12, SB-13, SB-14 and SB-15) TPH-d was detected at 240 µg/L, 260 µg/L, 65 ug/L, and 290 µg/L respectively. All of the groundwater samples, with the exception of SB-14, exceed the ESLs for TPH-d for drinking water sources and non-drinking water sources. Naphthalene was not detected in the groundwater samples SB-12, SB-13, or SB-14. According to ACC, naphthalene was unable to be analyzed in groundwater sample SB-15 due to the fact that not enough sample media remained for anaylsis. In the groundwater samples TEPH as Motor Oil was detected in borings SB-12, SB-13, SB-14 and SB-15 at 820 µg/L, 790 µg/L, <300 µg/L, and 970 µg/L respectively. All of the groundwater samples exceed the ESLs for TEPH as Motor Oil for drinking water sources and non-drinking water sources. Although the groundwater has been impacted with residual petroleum hydrocarbons, it is expected that water quality objectives will be achieved within a reasonable time.

All soil vapor samples collected (SV-1, SV-2, SV-3, and SV-4) were non-detect for all VOCs.

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 significant risk to human health based upon current land use and conditions.		
Site Management Requirements: City of Oakland Building Department has been notified that should excavation or development of the property be proposed that may encounter impacted soil or groundwater, Alameda County Environmental Health must be notified as required by Government Code Section 65850.2.2.		
Should corrective action be reviewed if land use changes? No		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: N/A	Number Decommissioned: 0	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

Currently, residual soil contamination of TPH-g, TPH-d, TPH-mo and benzene at maximum concentrations of 380 mg/kg, 110 mg/kg, 550 mg/kg, and <2.2 mg/kg were left in place in the vicinity of the former UST. The residual contamination does not appear to pose a significant risk to the current commercial use of the site or to groundwater resources in the area. Additionally, petroleum hydrocarbons were not detected above the laboratory detection limit in soil vapor samples collected at the site.

Residual concentrations of TPH-d and TEPH-mo were was detected in a grab groundwater samples concentrations of up to 280 µg/L and 970 µg/L, respectively, which exceeds the ESLs where groundwater is a potential drinking water source. The concentrations of TPH-d and TEPH-mo are expected to decrease over time as a result of biodegradation and natural attenuation processes. Please note that EDB and EDC were not detected above the laboratory detection limit in soil and groundwater.

Conclusion:

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

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Paresh Khatri	Title: Hazardous Materials Specialist
Signature: Paresh Khatri	Date: July 30, 2009
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: Donna L. Drogos	Date: 08/04/09

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

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB: 8/5/09
Signature: Cherie McCaulou	Date: 8/5/09

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: --	Date of Well Decommissioning Report: --	
All Monitoring Wells Decommissioned: --	Number Decommissioned: --	Number Retained: --
Reason Wells Retained: No monitoring wells installed or retained.		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature:		Date:

Attachments:
1. Tables 1 & 2
2. Figures 1 through 4.
3. UST and Monitoring Well Location Map.
4. Boring Logs

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

TABLE 1
Soil and Groundwater Analytical Summary Table
3781 Park Boulevard Way
ACC Project Number: 6783-013.01

Boring ID & Depth (feet, bgs)	Sampling Date	Matrix	Constituents & Concentrations															
			TPHg	TPH-d	TEPHdss	MTBE	Benzene	Toluene	Ethylbenzene	Xylene	Naphthalene	1,2-Dichloroethane	Ethylene Dibromide (1,2-Dibromoethane)	Cadmium	Chromium	Nickel	Lead	Zinc
SB-1 - (6.5-7.0) & (17-18)	2-Dec-08	Soil (mg/kg)	260	34	55	< 0.98	< 0.98	< 0.98	4.7	6.5		0.98	0.98	NA	NA	NA	NA	NA
SB-1- (6.5-7.0)	2-Dec-08	Soil (mg/kg)	380	NA	NA	NA	<2.2	NA	6.7	NA		<2.2	<2.2	NA	NA	NA	NA	NA
SB-1- (17-18)	2-Dec-08	Soil (mg/kg)	1.4	NA	NA	NA	<0.0049	NA	<0.0049	NA		<0.0049	<0.0049	NA	NA	NA	NA	NA
SB-2 - (5-6) & (9.5-10.5)	2-Dec-08	Soil (mg/kg)	280	90	340	< 0.98	< 0.98	< 0.98	< 0.98	< 2.0		0.98	0.98	NA	NA	NA	NA	NA
SB-2 - (5-6)	2-Dec-08	Soil (mg/kg)	290	NA	NA	NA	< 0.94	NA	NA	NA		0.94	0.94	NA	NA	NA	NA	NA
SB-2 - (9.5-10.5)	2-Dec-08	Soil (mg/kg)	5.7	NA	NA	NA	<0.024	NA	NA	NA		0.24	0.24	NA	NA	NA	NA	NA
SB-2A (3.0-3.5)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0044	<0.0044	<0.49	26	24	5.2	27
SB-2A (14-15)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0045	<0.0045	<0.52	26	30	9.6	38
SB-4 - (4-5) & (10-12)	2-Dec-08	Soil (mg/kg)	0.33	73	550	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA	0.005	0.005	NA	NA	NA	NA	NA
SB-4 - (4-5)	2-Dec-08	Soil (mg/kg)	NA	NA	NA	NA	< 0.0048	< 0.0048	< 0.0048	<0.0095	NA	0.0048	0.0048	NA	NA	NA	NA	NA
SB-4 - (10-12)	2-Dec-08	Soil (mg/kg)	NA	NA	NA	NA	< 0.0046	< 0.0046	< 0.0046	<0.0093	NA	0.0046	0.0046	NA	NA	NA	NA	NA
SB-5 (15-16)	22-Dec-08	Soil (mg/kg)	< 0.24	< 0.98	< 49	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0094	NA	0.0047	0.0047	NA	NA	NA	NA	NA
SB-5 (19-20)	22-Dec-08	Soil (mg/kg)	< 0.25	1.4	< 50	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	NA	0.0050	0.0050	NA	NA	NA	NA	NA
SB-6 (4-5)	22-Dec-08	Soil (mg/kg)	8.1	110	340	< 0.025	< 0.025	< 0.025	< 0.025	< 0.049	NA	0.0250	0.0250	NA	NA	NA	NA	NA
SB-6 (19-20)	22-Dec-08	Soil (mg/kg)	< 0.24	< 0.98	< 49	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0098	NA	0.0049	0.0049	NA	NA	NA	NA	NA
SB-6A (3-4)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0049	<0.0049	<0.48	31	24	34	49
SB-6A (14-15)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0046	<0.0046	<0.49	39	28	3.8	28
SB-7 (9-10)	22-Dec-08	Soil (mg/kg)	< 0.25	3.2	< 49	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	NA	0.0050	0.0050	NA	NA	NA	NA	NA
SB-7 (23-24)	22-Dec-08	Soil (mg/kg)	< 0.23	< 1.0	< 50	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0093	NA	0.0050	0.0050	NA	NA	NA	NA	NA
SB-8 (5-6)	22-Dec-08	Soil (mg/kg)	< 0.24	< 0.99	< 50	<0.0048	< 0.0048	< 0.0048	< 0.0048	<0.0095	NA	0.0047	0.0047	NA	NA	NA	NA	NA
SB-8 (24-25)	22-Dec-08	Soil (mg/kg)	0.25	< 0.98	< 49	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0094	NA	0.0048	0.0048	NA	NA	NA	NA	NA
SB-9 (3-4)	22-Dec-08	Soil (mg/kg)	< 0.24	< 1.0	< 50	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0094	NA	0.0047	0.0047	NA	NA	NA	NA	NA
SB-9 (15-16)	22-Dec-08	Soil (mg/kg)	< 0.24	< 0.99	< 50	<0.0048	< 0.0048	< 0.0048	< 0.0048	<0.0095	NA	0.0048	0.0048	NA	NA	NA	NA	NA
SB-10 (7-8)	22-Dec-08	Soil (mg/kg)	< 0.25	< 0.99	< 50	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0099	NA	0.0049	0.0049	NA	NA	NA	NA	NA
SB-10 (15-16)	22-Dec-08	Soil (mg/kg)	0.69	5.9	52	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0094	NA	0.0047	0.0047	NA	NA	NA	NA	NA
SB-11 (7-8)	22-Dec-08	Soil (mg/kg)	< 0.24	48	53	<0.0048	< 0.0048	< 0.0048	< 0.0048	<0.0097	NA	0.0048	0.0048	NA	NA	NA	NA	NA
SB-11 (15-16)	22-Dec-08	Soil (mg/kg)	< 0.24	< 0.99	< 50	<0.0048	< 0.0048	< 0.0048	< 0.0048	<0.0097	NA	0.0048	0.0048	NA	NA	NA	NA	NA
SB-12 (11-12)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0042	<0.0042	<0.51	26	35	4.7	24
SB-12 (26-28)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0042	<0.0042	<0.53	30	31	12	57
SB-13 (8-9)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0044	<0.0044	<0.52	27	34	9.7	30
SB-13 (30-31)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0047	<0.0047	<0.48	37	37	8.4	33
SB-13 (38-39)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0045	<0.0045	<0.50	50	48	4.6	32
SB-14 (8-9)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0049	<0.0049	<0.51	29	33	6.2	27
SB-14 (29-30)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0046	<0.0046	<0.51	31	42	5.4	30
SB-14 (50-51)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0046	<0.0046	<0.49	32	41	5.1	31
SB-15 (9-10)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0049	<0.0049	<0.49	33	41	16	37
SB-15 (28-30)	15-May-09	Soil (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0048	<0.0048	<0.48	38	5	936	37
SB-5 (Water)	22-Dec-08	Water (ug/L)	< 50	220	< 500	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	NA	0.5000	0.5000	NA	NA	NA	NA	NA
SB-12 (Water)	15-May-09	Water (ug/L)	<50	240	820	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.0031	0.015	0.057	<0.0055	<0.047
SB-13 (Water)	15-May-09	Water (ug/L)	<50	260	790	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.0031	<0.0085	0.012	<0.0055	<0.047
SB-14 (Water)	15-May-09	Water (ug/L)	<50	65	<300	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	<0.0031	<0.0085	0.019	<0.0055	<0.047
SB-15 (Water)	15-May-09	Water (ug/L)	<50	290	970	<0.50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<0.50	<0.0031	<0.0085	<0.0075	<0.0055	<0.047
ESLs - Residential (unrestricted land usage)	Shallow Soil (< 3 m)	Soil (mg/kg)	100	100	370	9.4	0.12	9.3	2.3	11	1.3	0.0045	0.0033	1.7	[illegible]	150	200	600
	Deep Soil (≥ 3 m)	Soil (mg/kg)	100	100	5000	9.4	2	9.3	4.7	11	9.4	0.45	0.0033	39.0	[illegible]	260	750	2500
ESLs - Commercial land use	Shallow Soil (< 3 m)	Soil (mg/kg)	100	100	2500	9.4	0.270	9.3	4.7	11	2.8	0.0045	0.0033	7.4	[illegible]	150	750	600
	Deep Soil (≥ 3 m)	Soil (mg/kg)	100	100	5000	9.4	2.9	9.3	4.7	11	9.4	0.45	0.0033	39.0	[illegible]	260	750	5000
ESLs - Non-Drinking Water Source		Water (ug/L)	210	210	210	1800	46	130	43	100	24	2.00	0.0500	9.3	100	8.2	2.5	81
ESLs - Drinking Water Source		Water (ug/L)	100	100	100	5	1	40	30	20	17	0.50	0.0500	0.3	50	8.2	2.5	81

Notes

***ESLs = Bay Area Regional Water Quality Control Board Environmental Screening Levels (Interim Final May 2008), where groundwater is NOT a source of Drinking Water*

NA= Not Analyzed

Bolded and Highlighted Values Exceed Their Respective ESLs

Bolded Values Exceed Their Respective Laboratory Reporting Limits

DRAFT

TABLE 2
Summary of Soil Vapor Sampling Event (May 15, 2009)
3761 Park Boulevard Way,
Oakland, CA
May 2009
ACC Project Number: 6783.013.03

Boring ID & Depth (feet bgs)	Sampling Date	Matrix	Constituents & Concentrations (Soil Vapor Sample Concentrations in ug/m3)														
			1,1- Dichloroethene	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (Ethylene Dibromide)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Butadiene
SV-1	5/15/09	Soil Gas ug/m3	<2.0	<3.4	<2.7	<3.4	<2.7	<2.0	<27	<3.6	<2.5	<3.8	<3.0	<2.0	<2.3	<2.5	<4.4
SV-2	5/15/09	Soil Gas ug/m3	<2.0	<3.4	<2.7	<3.4	<2.7	<2.0	<27	<3.6	<2.5	<3.8	<3.0	<2.0	<2.3	<2.5	<4.4
SV-3	5/15/09	Soil Gas ug/m3	<2.0	<3.4	<2.7	<3.4	<2.7	<2.0	<27	<3.6	<2.5	<3.8	<3.0	<2.0	<2.3	<2.5	<4.4
SV-4	5/15/09	Soil Gas ug/m3	<2.0	<3.4	<2.7	<3.4	<2.7	<2.0	<27	<3.6	<2.5	<3.8	<3.0	<2.0	<2.3	<2.5	<4.4
**ESLs - Soil Gas Residential Land Use	Residential Land Use	Soil (mg/kg3)	94	320	460000	42	150	1500	NO ESL	830	NO ESL	4.10	42000	94	240	NO ESL	NO ESL
	Commercial Land Use	Soil (mg/kg3)	310	1100	1300000	140	510	5100	NO ESL	2300	NO ESL	14	120000	310	820	NO ESL	NO ESL

Notes

***ESLs = Bay Area Regional Water Quality Control Board Environmental Screening Levels (Interim Final May 2008)*

MEK = Methyl ethyl keton

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TABLE 2
Summary of Soil Vapor Sampling Event (May 15, 2009)
3761 Park Boulevard Way,
Oakland, CA
May 2009
ACC Project Number: 6783.013.03

Boring ID & Depth (feet bgs)	Sampling Date	Matrix	Constituents & Concentrations (Soil Vapor Sample Concentrations in ug/m3)														
			1,3, Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane	2-Butanone (MEK)	2-Hexanone	4-Ethyl Toluene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene
SV-1	5/15/09	Soil Gas ug/m3	<3.0	<3.0	<1.8	<1.5	<2.0	<2.5	<2.0	<9.5	<1.6	<3.4	<5.2	<1.9	<1.6	<3.2	<2.3
SV-2	5/15/09	Soil Gas ug/m3	<3.0	<3.0	<1.8	<1.5	<2.0	<2.5	<2.0	<9.5	<1.6	<3.4	<5.2	<1.9	<1.6	<3.2	<2.3
SV-3	5/15/09	Soil Gas ug/m3	<3.0	<3.0	<1.8	<1.5	<2.0	<2.5	<2.0	<9.5	<1.6	<3.4	<5.2	<1.9	<1.6	<3.2	<2.3
SV-4	5/15/09	Soil Gas ug/m3	<3.0	<3.0	<1.8	<1.5	<2.0	<2.5	<2.0	<9.5	<1.6	<3.4	<5.2	<1.9	<1.6	<3.2	<2.3
**ESLs - Soil Gas Residential Land Use	Residential Land Use	Soil (mg/kg3)	22000	220	No ESL	No ESL	No ESL	No ESL	No ESL	660000	84	140	No ESL	1000	No ESL	19	210000.00
	Commercial Land Use	Soil (mg/kg3)	61000	740	No ESL	No ESL	No ESL	No ESL	No ESL	1800000	280	460	No ESL	2900	No ESL	63	580000.00

Notes

***ESLs = Bay Area Regional Water Quality Control Board Environmental Screening Levels (Interim Final May 2008)*

MEK = Methyl ethyl keton

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TABLE 2
Summary of Soil Vapor Sampling Event (May 15, 2009)
3761 Park Boulevard Way,
Oakland, CA
May 2009
ACC Project Number: 6783.013.03

Boring ID & Depth (feet bgs)	Sampling Date	Matrix	Constituents & Concentrations (Soil Vapor Sample Concentrations in ug/m3)															
			Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromochloromethane	Dichlorodifluoromethane	Diisopropyl ether (DIPE)	Ethyl Acetate	Ethyl Benzene	Ethyl tert-butyl ether (ETBE)	Freon 113	Hexachlorobutadiene	Hexane	Isopropanol
SV-1	5/15/09	Soil Gas ug/m3	<1.3	<2.4	<1.0	<2.0	<2.3	<4.3	<2.5	<2.1	<1.8	<2.2	<2.1	<3.8	<5.3	<14	<16
SV-2	5/15/09	Soil Gas ug/m3	<1.3	<2.4	<1.0	<2.0	<2.3	<4.3	<2.5	<2.1	<1.8	<2.2	<2.1	<3.8	<5.3	<14	<16
SV-3	5/15/09	Soil Gas ug/m3	<1.3	<2.4	<1.0	<2.0	<2.3	<4.3	<2.5	<2.1	<1.8	<2.2	<2.1	<3.8	<5.3	<14	<16
SV-4	5/15/09	Soil Gas ug/m3	<1.3	<2.4	<1.0	<2.0	<2.3	<4.3	<2.5	<2.1	<1.8	<2.2	<2.1	<3.8	<5.3	<14	<16
**ESLs - Soil Gas Residential Land Use	Residential Land Use	Soil (mg/kg3)	21000	460	19000	7300	No ESL	No ESL	No ESL	No ESL	No ESL	980	No ESL	No ESL	No ESL	No ESL	No ESL
	Commercial Land Use	Soil (mg/kg3)	58000	1500	53000	20000	No ESL	No ESL	No ESL	No ESL	No ESL	3300	No ESL	No ESL	No ESL	No ESL	No ESL

Notes

***ESLs = Bay Area Regional Water Quality Control Board Environmental Screening Levels (Interim Final May 2008)*

MEK = Methyl ethyl keton

DRAFT

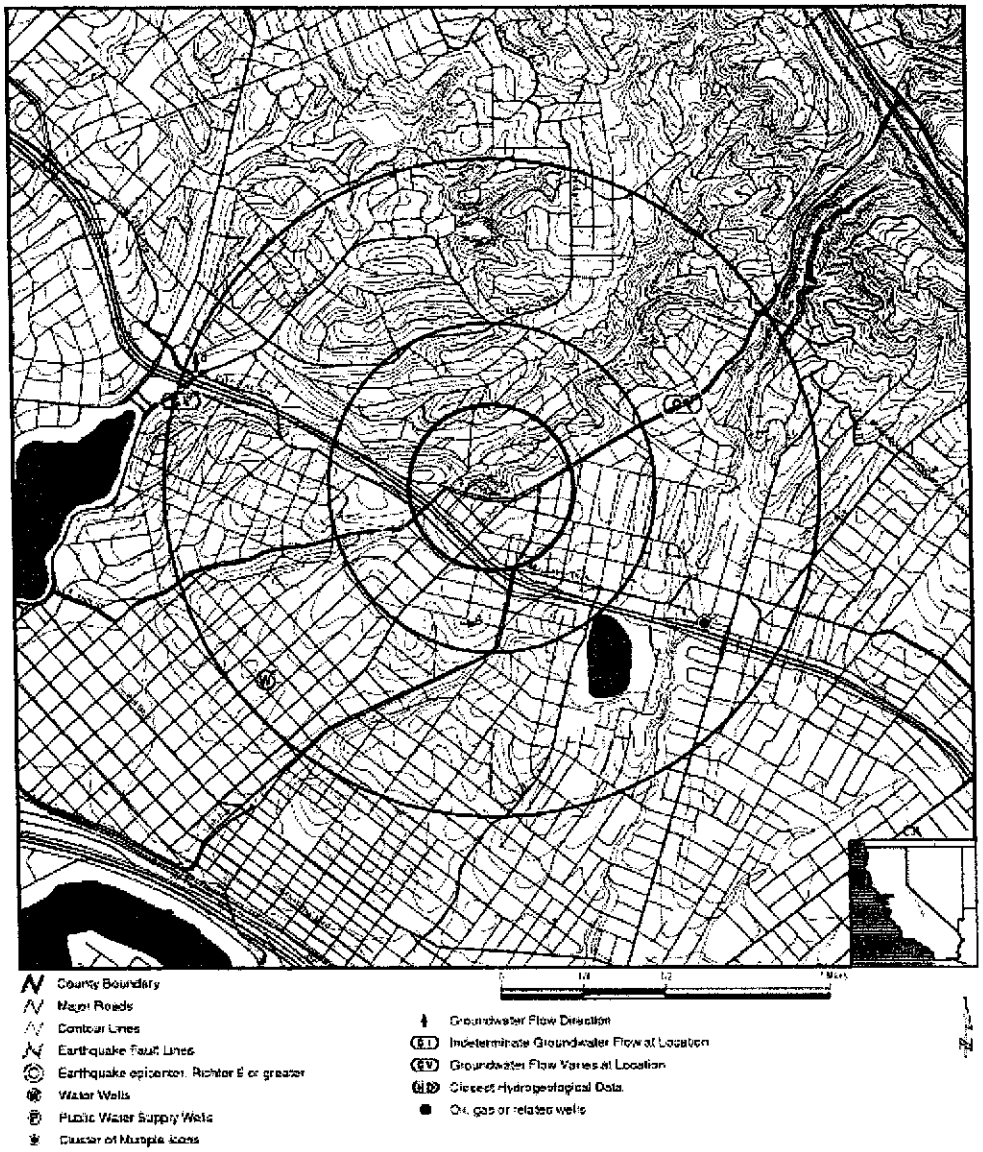
TABLE 2
Summary of Soil Vapor Sampling Event (May 15, 2009)
3761 Park Boulevard Way,
Oakland, CA
May 2009
ACC Project Number: 6783.013.03

Boring ID & Depth (feet bgs)	Sampling Date	Matrix	Constituents & Concentrations (Soil Vapor Sample Concentrations in ug/m3)														
			m,p-Xylene	Methylene Chloride	MTBE	Naphthalene	o-xylene	Styrene	t-Butyl alcohol (t-Butanol)	tert-Amyl methyl ether (TAME)	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride
SV-1	5/15/09	Soil Gas ug/m3	<2.0	<3.6	<1.8	<2.6	<2.2	<2.1	<6.1	<2.1	<3.4	<1.9	<2.0	<2.7	<2.5	<1.8	<1.3
SV-2	5/15/09	Soil Gas ug/m3	<2.0	<3.6	<1.8	<2.6	<2.2	<2.1	<6.1	<2.1	<3.4	<1.9	<2.0	<2.7	<2.5	<1.8	<1.3
SV-3	5/15/09	Soil Gas ug/m3	<2.0	<3.6	<1.8	<2.6	<2.2	<2.1	<6.1	<2.1	<3.4	<1.9	<2.0	<2.7	<2.5	<1.8	<1.3
SV-4	5/15/09	Soil Gas ug/m3	<2.0	<3.6	<1.8	<2.6	<2.2	<2.1	<6.1	<2.1	<3.4	<1.9	<2.0	<2.7	<2.5	<1.8	<1.3
**ESLs - Soil Gas Residential Land Use	Residential Land Use	Soil (mg/kg3)	21000	5200	9400	72	21000	190000	No ESL	No ESL	410	66000	15000	1200	No ESL	No ESL	31
	Commercial Land Use	Soil (mg/kg3)	58000	17000	31000	240	58000	530000	No ESL	No ESL	1400	180000	41000	4100	No ESL	No ESL	100

Notes

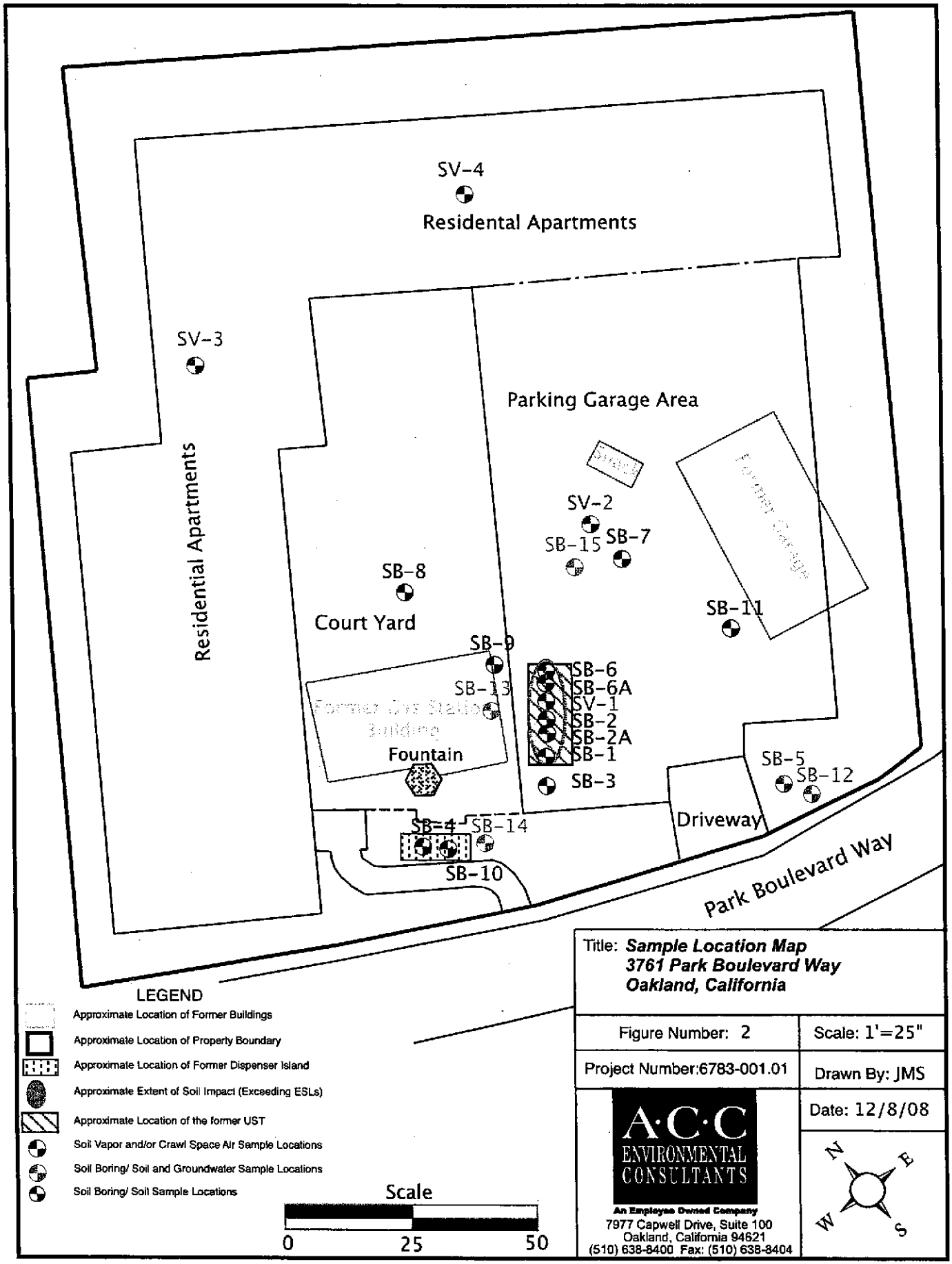
***ESLs = Bay Area Regional Water Quality Control Board Environmental Screening Levels (Interim Final May 2008)*

MEK = Methyl ethyl keton



Source: Environmental Data Resources

Title ***FIGURE 1- Location Map 3761 Park Boulevard Way Oakland, California***	
Figure Number: 1	Scale: None
Project Number: 6783-013.02	Drawn By: JMS
A·C·C ENVIRONMENTAL CONSULTANTS An Employee Owned Company	Date: 5/29/09
	N W E S



Title: ***Sample Location Map***
3761 Park Boulevard Way
Oakland, California

Figure Number: 2	Scale: 1'=25"
Project Number:6783-001.01	Drawn By: JMS
	Date: 12/8/08

A·C·C ENVIRONMENTAL CONSULTANTS
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7977 Capwell Drive, Suite 100
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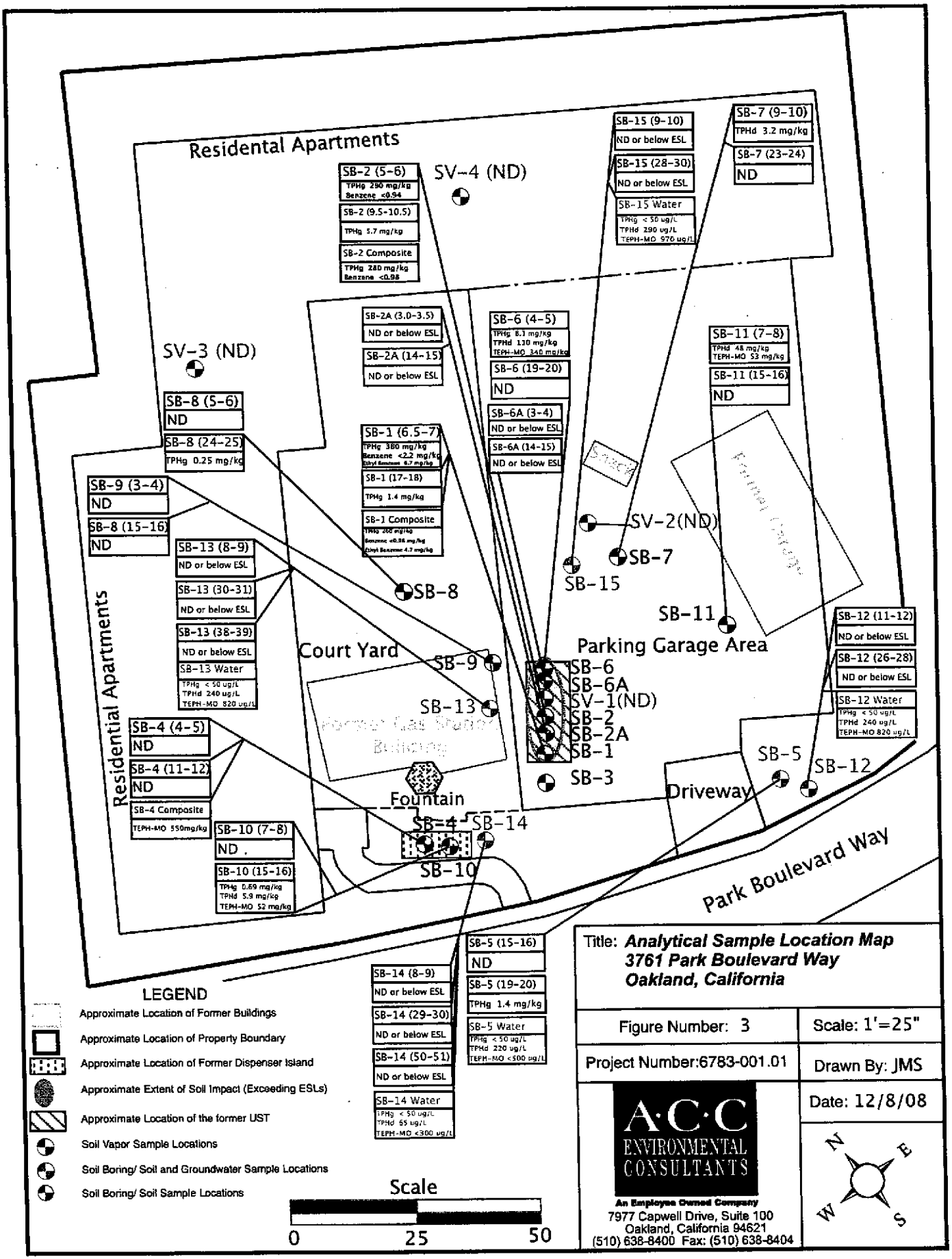
(510) 638-8400 Fax: (510) 638-8404

N E W S



Title: ***Analytical Sample Location Map***
3761 Park Boulevard Way
Oakland, California

Figure Number: 3	Scale: 1"=25"
Project Number:6783-001.01	Drawn By: JMS
	Date: 12/8/08

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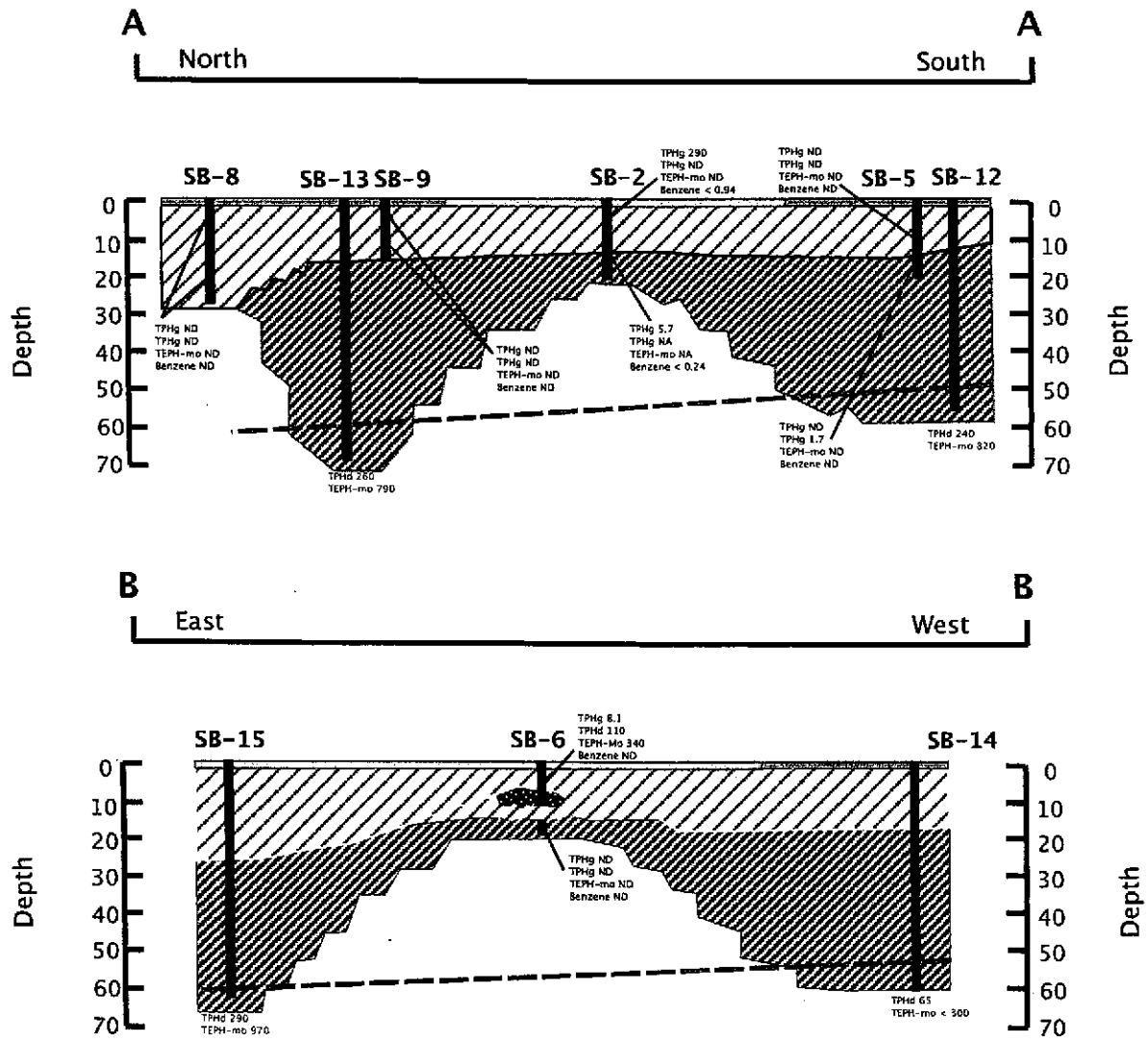

LEGEND

- Low Permeability Soils/ Clay with Sand (CL)
- Low Permeability Soils/ Clay (CH)
- Moderate to High Permeability Soils/Sand (SW)
- Depth of Groundwater
- Unpaved Surface
- Concrete Paved Garage Area
- TPHd 290 TEPH-mo 970 — Goundwater Analytical Results ug/L
- TPHd 280 Benzene < 0.94 — Soil Analytical Results mg/kg
- SB-6 — Soil Boring Identification
- Soil Boring Identification and Location

Scale

0 20 40

Title: ***Cross Sections A-A' and B-B'***
3761 Park Boulevard Way
Oakland, California

Figure Number: 4	Scale: 1"=20"
Project Number:6783-001.01	Drawn By: JMS
	Date: 12/8/08

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N E W S

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Julia Siudyla
LOCATION: 3761 Park Boulevard Way, Oakland, CA
WORK DATE: 12/2/08
BORING: SB-1

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
				0	Asphalt pavement
	0				Sandy Clay (CL), Olive Grey, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted (interpreted as fill)
	18.8			2	
	127			4	Sandy Clay (CL),Dark Brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, gasoline odor and dark grey to black discoloration
Strong Gasoline Odor	499	SB-1 (6.5 - 7.0)		6	
	6469			8	
	78			10	
	86			12	
				14	
	100	SB-1 (17-18)		16	Clay (CH),Greenish Grey, mod. to highly plastic, medium stiff, slight gasoline odor, no discoloration noted
	180			18	
				20	
				22	
				24	**TOTAL DEPTH OF BORING: 24.0 feet bgs**
				26	
				28	

ACC Environmental Consultants, Inc.
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Oakland, California 94621
(510)638-8400 FAX: (510)638-8404

Project Number **6783-001.01**

Date: 12/2/08

Title **LOG OF BORING SB-1**

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Julia Siudyla
LOCATION: 3761 Park Boulevard Way, Oakland, CA
WORK DATE: 12/2/08
BORING: SB-2

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
				0	Asphalt pavement
	16.4			2	Sandy Clay (CL), Brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted (interpreted as fill)
	80				
	180	SB-2 (5 -6)		4	Sandy Clay (CL),Greenish Grey to Dark Grey, slightly to mod.plastic, medium stiff to soft, with fine to med grained sand, damp, gasoline odor and slight discoloration
	196			6	
Gasoline Odor	126				
	135			8	
		SB-2 (9.5 - 10.0)			
	93			10	Clay (CH),Dark Grey, mod. to highly plastic, medium stiff, gasoline odor, no discoloration noted
	25			12	
				14	
	0			16	**TOTAL DEPTH OF BORING: 16 feet bgs**
				18	
				20	
				22	
				24	
				26	
				28	

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Project Number 6783-001.01

Date: 12/2/08

Title **LOG OF BORING SB-2**

Soil Color Color Code Munsell Soil Color Chart	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Geoprobe Hydraulic Sampling Device OPERATED BY: Environmental Control Associates LOGGED BY: Julia Siudyla LOCATION: 3761 Park Boulevard Way, Oakland, CA WORK DATE: 5/14/09 BORING: SB-2A
				0	Asphalt pavement
7.5YR 5/6	80	SB-2A (3 - 3.5)		2	Sandy Clay (CL), Brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted (interpreted as fill)
	86			4	Sandy Clay (CL), Greenish Grey to Dark Grey, slightly to mod.plastic, medium stiff to soft, with fine to med grained sand, damp, gasoline odor and slight discoloration
7.5YR 5/2				6	
	126				
	16			8	
	75			10	Sandy Clay (CL), Dark Grey, mod. to highly plastic, medium stiff, gasoline odor, no discoloration noted
.GLEY 1 10Y	25			12	
	0	SB-2A (14 - 15)		14	
				16	TOTAL DEPTH OF BORING: 15 feet bgs
				18	
				20	
				22	
				24	
				26	
				28	

ACC Environmental Consultants, Inc.
7977 Capwell Drive, Suite 100
Oakland, California 94621
(510)638-8400 FAX: (510)638-8404

Project Number 6783-001.01

Date: 5/14/09

Title **LOG OF BORING SB-2A**

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Julia Siudyla
LOCATION: 3761 Park Boulevard Way, Oakland, CA
WORK DATE: 12/2/08
BORING: SB-3

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
	0	No Sample Collected		0	Asphalt pavement
				2	Sandy Clay (CL), Oive Grey, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted (interpreted as fill)
				4	**Refusal Encountered at 2.5 feet bgs**
				6	**TOTAL DEPTH OF BORING: 2.5 feet bgs**
				8	
				10	
				12	
				14	
				16	
				18	
				20	
				22	
				24	
				26	
				28	

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Project Number **6783-001.01**

Date: 12/2/08

Title **LOG OF BORING SB-3**

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Julia Siudyla
LOCATION: 3761 Park Boulevard Way, Oakland, CA
WORK DATE: 12/2/08
BORING: SB-4

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
	0			0	Sandy Clay (CL), Brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted (interpreted as fill)
	0			2	
	0	SB-4 (4-5)		4	Sandy Clay (CL), Light Brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, slight odor or discoloration
	0			6	
	0			8	
	1210	SB-4 (10-12)		10	Clay (CH),Dark Grey, mod. to highly plastic, medium stiff, gasoline odor, no discoloration noted
	1614			12	
	1100			14	
				16	**TOTAL DEPTH OF BORING: 16 feet bgs**
				18	
				20	
				22	
				24	
				26	
				28	

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Project Number **6783-001.01**

Date: 12/2/08

Title **LOG OF BORING SB-4**

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Julia Siudyla
LOCATION: 3761 Park Boulevard Way, Oakland, CA
WORK DATE: 12/22/08
BORING: SB-5

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)
No staining, odors or discoloration noted in this soil boring.	0			0
	0			2
	0	SB-5 (4-5)		4
	0			6
	0			8
	0			10
	0			12
	0			14
	0	SB-5 (15-16)		16
	0			18
	0	SB-5 (19-20)		20
				22
				24
				26
				28

Sandy Clay (CL), brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted.

Sandy Clay (CL), dark brown to Dark Grey, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, no odor or discoloration.

Slity Clay (CL), Tan, slightly to mod. plastic, medium stiff to soft, with slit, no odor or discoloration.

TOTAL DEPTH OF BORING: 50 feet bgs
(soils were not logged below 20 feet bgs)
Groundwater was encounted at 50 feet bgs

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Project Number
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Date: 12/22/08

Title **LOG OF BORING SB-5**

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Julia Siudyla
LOCATION: 3761 Park Boulevard Way, Oakland, CA
WORK DATE: 12/22/08
BORING: SB-6

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
				0	Concrete
	1643			2	Sandy Clay (CL), dark brown to dark grey, slightly to mod.plastic, medium stiff to soft, with fine to med grained sand, damp, no discoloration, slight gasoline odor observed.
	3291	SB-6 (4-5)		4	
				6	Sand (SW), grey, fine to med grained, damp, grey discoloration, gasoline odor observed.
	19.7	SB-6 (8-9)		8	
				10	Slity Clay (CL), greenish grey, slightly to mod. plastic, medium stiff to soft, with slit, no odor or discoloration.
	5.7			12	
				14	
	6.8			16	
				18	Clay (CH), black, slightly to mod. plastic, medium stiff to soft, with slit, no odor or discoloration.
	0	SB-6 (19-20)		20	
				22	**TOTAL DEPTH OF BORING: 30 feet bgs (soils were not logged below 20 feet bgs) Groundwater was not encountered**
				24	
				26	
				28	

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Project Number 6783-001.01

Date: 12/22/08

Title **LOG OF BORING SB-6**

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Julia Siudyla
LOCATION: 3761 Park Boulevard Way, Oakland, CA
WORK DATE: 5/14/09
BORING: SB-6A

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
				0	Concrete
7.5YR 5/6	50	SB-6A (3-4)		2	Sandy Clay (CL), dark brown to dark grey, slightly to mod.plastic, medium stiff to soft, with fine to med grained sand, damp, no discoloration, slight gasoline odor observed.
	13			4	
710 YR 5/1				6	Sand (SW), grey, fine to med grained, damp, grey discoloration, gasoline odor observed.
	19.7			8	
				10	Sandy Clay (CL), greenish grey, slightly to mod. plastic, medium stiff to soft, with slit, no odor or discoloration.
	22			12	
10 YR 4/1				14	
	24	SB-6A (14-15)		16	**TOTAL DEPTH OF BORING: 15 feet bgs**
				18	
				20	
				22	
				24	
				26	
				28	

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Project Number **6783-001.01**

Date: 5/14/09

Title **LOG OF BORING SB-6A**

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Julia Siudyla
LOCATION: 3761 Park Boulevard Way, Oakland, CA
WORK DATE: 12/22/08
BORING: SB-7

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
				0	Concrete
	0			2	Sandy Clay (CL), light brown to brown, slightly to mod.plastic, medium stiff to soft, with fine to med grained sand and gravel, damp, no discoloration or odor observed.
	0	SB-7 (4-5)		4	
				6	
	87	SB-7 (9-10)		8	Slity Clay (CL), dark brown to dark grey, slightly to mod. plastic, medium stiff to soft, with slit, no odor or discoloration.
	197			10	
	0			12	
	0			14	
				16	
	0			18	Slity Clay (CL),tan, slightly to mod. plastic, medium stiff to soft, with slit, no odor or discoloration.
				20	
	0	SB-7 (23-24)		22	
				24	**TOTAL DEPTH OF BORING: 36 feet bgs (soils were not logged below 24 feet bgs) Groundwater was not encountered**
				26	
				28	

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Title **LOG OF BORING SB-7**

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Julia Siudyla
LOCATION: 3761 Park Boulevard Way, Oakland, CA
WORK DATE: 12/22/08
BORING: SB-8

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
				0	Sandy Clay (CL), tan to brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand and oragnics,damp, no discoloration or odor observed.
	0			2	
				4	Sandy Clay (CL), greenish grey to dark grey, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand , no odor or discoloration.
	0	SB-8 (5-6)		6	
	0			8	
				10	
	0			12	
				14	
	0			16	
				18	
	0	SB-8 (18-19)		20	
				22	
	0			24	
		SB-8 (24-25)		26	**TOTAL DEPTH OF BORING: 36 feet bgs (soils were not logged below 25eet bgs) Groundwater was not encountered**
	0			28	

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Date: 12/22/08

Title **LOG OF BORING SB-8**

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Geoprobe Hydraulic Sampling Device OPERATED BY: Environmental Control Associates LOGGED BY: Julia Siudyla LOCATION: 3761 Park Boulevard Way, Oakland, CA WORK DATE: 12/22/08 BORING: SB-9
				0	Sandy Clay (CL), brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand and oragnics,damp, no discoloration or odor observed.
	0	SB-9 (3-4)		2	
				4	Silty Clay (CL), dark grey, slightly to mod. plastic, medium stiff to soft, with silts, no odor or discoloration observed.
	0			6	
	0			8	
				10	
	0			12	
				14	
	0	SB-9 (15-16)		16	TOTAL DEPTH OF BORING: 16 feet bgs Groundwater was not encountered
				18	
				20	
				22	
				24	
				26	
				28	

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Title **LOG OF BORING SB-9**

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Geoprobe Hydraulic Sampling Device OPERATED BY: Environmental Control Associates LOGGED BY: Julia Siudyla LOCATION: 3761 Park Boulevard Way, Oakland, CA WORK DATE: 12/22/08 BORING: SB-10
	0			0	Sandy Clay (CL), brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted.
	0			2	
	0	SB-10 (7-8)		4	Sandy Clay (CL), light brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, no odor or discoloration observed.
	0			6	
	0			8	
				10	Clay (CH), dark grey, mod. to highly plastic, medium stiff, gasoline odor, slight discoloration noted.
	1600			12	
	2026	SB-10 (15-16)		14	
	840			16	TOTAL DEPTH OF BORING: 16 feet bgs
				18	
				20	
				22	
				24	
				26	
				28	

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Title **LOG OF BORING SB-10**

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Julia Siudyla
LOCATION: 3761 Park Boulevard Way, Oakland, CA
WORK DATE: 12/22/08
BORING: SB-11

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
				0	Concrete
	0			2	Sandy Clay (CL), brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted.
	0			4	
	0			6	
	117	SB-11 (7-8)		8	Sandy Clay (CL), dark grey, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, slight odor or discoloration.
	121			10	
	0			12	
	0			14	
	0	SB-11 (15-16)		16	**TOTAL DEPTH OF BORING: 16 feet bgs**
				18	
				20	
				22	
				24	
				26	
				28	

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Title **LOG OF BORING SB-11**

Soil Color Color Code Munsell Soil Color Chart	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Geoprobe Hydraulic Sampling Device OPERATED BY: Environmental Control Associates LOGGED BY: Julia Siudyla LOCATION: 3761 Park Boulevard Way, Oakland, CA WORK DATE: 15/15/09 BORING: SB-12
				0	Concrete
7.5YR 5/6	0			5	Sandy Clay (CL), brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted.
	0	SB-12 (11-12)		10	Clay (CH), dark brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, no odor or discoloration.
	0			15	
				20	
2.5YR 3/3	0	SB-12 (28-29)		25	
	0			30	
				35	
	0			40	
				45	
	0			50	
	0			55	TOTAL DEPTH OF BORING: 56 feet bgs
				60	
				65	
				70	

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Title **LOG OF BORING SB-12**

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Julia Siudyla
LOCATION: 3761 Park Boulevard Way, Oakland, CA
WORK DATE: 15/15/09
BORING: SB-13

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
				0	
5YR 3/2	0			5	Sandy Clay (CL), greyish-brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted.
	0	SB-13 (8-9)		10	
	0			15	
				20	
	0			25	
Gley 4/10y	0	SB-13 (31-31)		30	Clay (CH), dark brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, no odor or discoloration.
	0	SB-13 (38-39)		35	
2.5YR 5/2	0			40	Clay (CH), tan, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, no odor or discoloration.
	0			45	
				50	
				55	
				60	▼
				65	**TOTAL DEPTH OF BORING: 66 feet bgs**
				70	

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Title **LOG OF BORING SB-13**

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Julia Siudyla
LOCATION: 3761 Park Boulevard Way, Oakland, CA
WORK DATE: 15/15/09
BORING: SB-14

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	
				0	
10YR 3/1	0			5	Sandy Clay (CL), greyish-black, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, gasoline odor , no discoloration noted.
	0	SB-14 (9-10)		10	
10YR 4/2				15	Sandy Clay (CL), greyish-black, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted.
	0			20	
2.5YR 4/2	0			25	Clay (CH), dark brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, no odor or discoloration.
	0	SB-14 (29-30)		30	
				35	
	0			40	
				45	
	0			50	
	0	SB-14 (50-51)		55	▼
				60	**TOTAL DEPTH OF BORING: 60 feet bgs**
				65	
				70	

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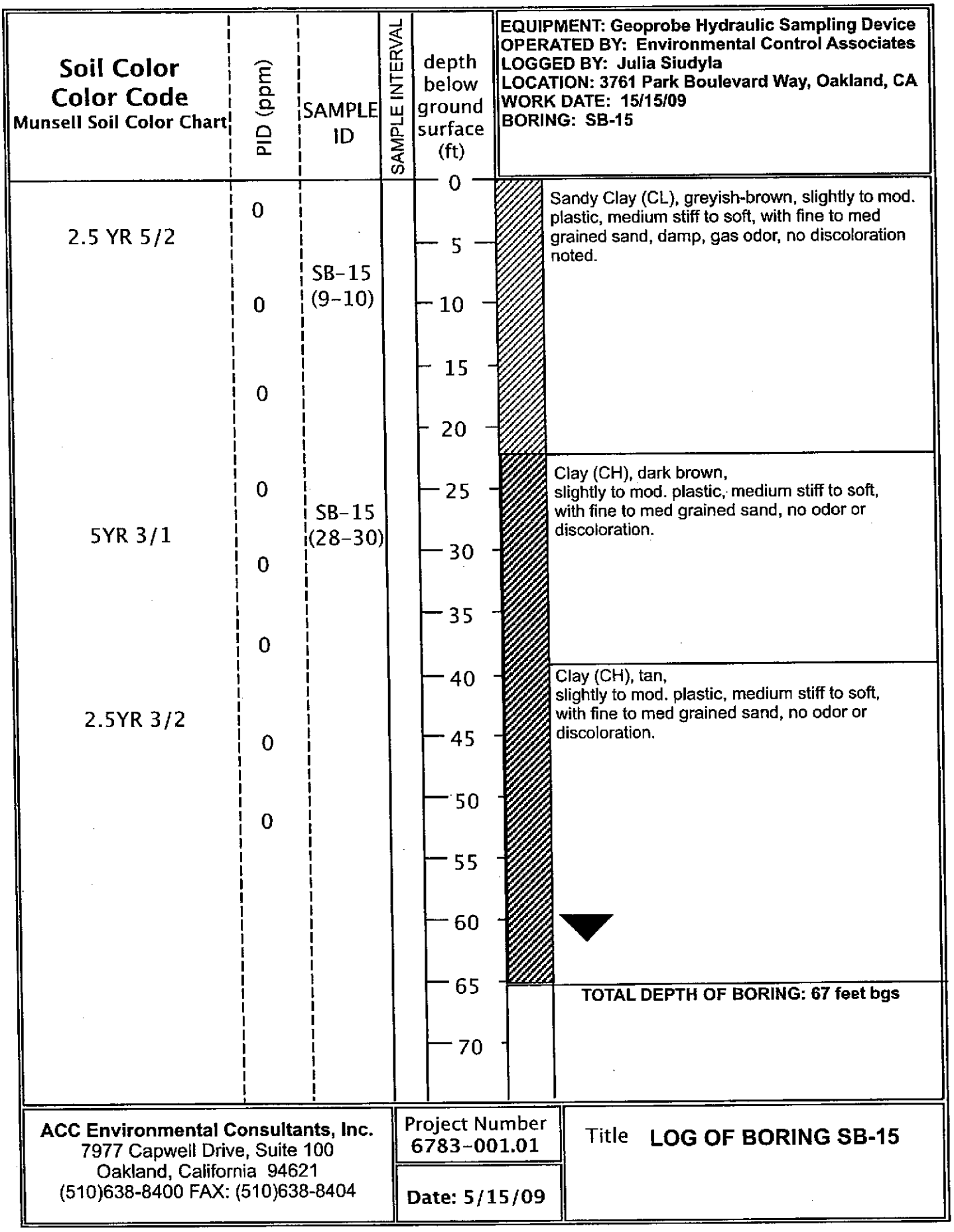
Title **LOG OF BORING SB-14**



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Date: 5/15/09

Title **LOG OF BORING SB-15**