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

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

May 13, 2008

Mr. Leo Puig
Amcal Housing, Inc.
4545 North West Avenue, Suite 118
Fresno, CA 93705

Subject: SLIC Case RO0002958 and Geotracker Global ID SLT19701216, Amcal Multi-Housing Development, 555 98th Avenue, Oakland, CA 94603

Dear Mr. Puig:

This letter confirms the completion of site investigation and remedial actions for the soil and groundwater investigation at the above referenced site. We are also transmitting the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported releases at the subject site with the provision that the information provided to this agency was accurate and representative of existing conditions. The subject Spills, Leaks, Investigation, and Cleanup (SLIC) case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (http://geotracker.swrcb.ca.gov) and the Alameda County Environmental Health website (http://www.acgov.org/aceh/index.htm).

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- Total petroleum hydrocarbons as gasoline remain in shallow soil at concentrations up to 39 ppm.
- Total petroleum hydrocarbons as gasoline remain in shallow groundwater at concentrations up to 1,200 ppb.

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

Sincerely,

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

Enclosures:

1. Case Closure Summary

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

Leroy Griffin (w/enc)
Oakland Fire Department
250 Frank H. Ogawa Plaza, Ste. 3341
Oakland, CA 94612-2032

City of Oakland Building Services (w/enc)
250 Frank H. Ogawa Plaza, Suite 2114
Oakland, CA 94612

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

CASE CLOSURE SUMMARY
SPILLS, LEAKS, INVESTIGATION, AND CLEANUP PROGRAM

I. AGENCY INFORMATION

Date: April 29, 2008

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Jerry Wickham	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: AMCAL Multi-Housing Development		
Site Facility Address: 555 98th Avenue, Oakland, CA 94603		
RB Case No.: ---	Local Case No.: ---	LOP Case No.: RO0002958
URF Filing Date: 01/05/1994	Geotracker ID.: SLT19701216	APN: 045-5302-010-05

Responsible Parties	Addresses	Phone Numbers
Leo Puig, Amcal Multi-Housing Development	4545 Northwest Avenue, #118, Fresno, CA 93705	559-351-3424

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	4,000	Gasoline	Removed	12/07/1993
2	6,000	Gasoline	Removed	12/07/1993
3	550	Waste Oil	Removed	12/07/1993
Piping			Removed	12/07/1993

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. The fuel USTs were pitted and corroded but no holes were observed. The waste oil tank had a ½-inch hole on top of the fill end.	
Site characterization complete? Yes	Date Approved By Oversight Agency: -----

Monitoring wells installed? Yes	Number: 11	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 7.2 feet	Lowest Depth: 10.2 feet	Flow Direction: West northwest to North
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: The nearest water supply well appears to be an irrigation well located at Edes Avenue Senior Housing approximately 1,200 feet west northwest (downgradient) of the site. Based on the distance of the well from the site and the limited extent of groundwater contamination, the well is not expected to be a receptor for the site. An industrial water supply well is located approximately 1,250 feet northeast of the site. Based on the cross gradient location and distance of the well from the site, the well is not expected to be a receptor for the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: San Leandro Creek is approximately 5,000 feet southwest of the site
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and City of Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	One 4,000-gallon fuel One 6,000-gallon fuel One 550-gallon waste oil	Removed and disposed off-site at Erickson, Inc. in Richmond, CA	12/07/1993
Piping	Not reported	Not reported	Not reported
Free Product	---	---	---
Soil	Not reported	Soil was sampled and reused as tank pit backfill	January 1996
Groundwater	---	---	---

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
(Please see Attachments 1 through 7 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	12,000	39	13,000	1,200
TPH (Diesel)	<1	<1	410	NA
Oil and Grease	<50	<50	NA	NA
Benzene	11	<0.005	8.3	<1
Toluene	270	<0.005	11	<1
Ethylbenzene	77	<0.005	150	<1
Xylenes	610	<0.005	250	2
Heavy Metals	74(1)	9(1)	<100	<100
MTBE	0.03	<0.005	3.9	<1
Other (8240/8270)	0.045(2)	0.045(2)	8(3)	8(3)

(1) Nickel = 74 ppm; lead = 9 ppm; chromium = 57 ppm; and zinc = 65 ppm in soil.
(2) Napthalene = 0.045 ppm; isopropylbenzene = 0.18 ppm; n-propylbenzene = 0.062 ppm; tert-butylbenzene = 0.064 ppm; sec-butylbenzene = 0.31 ppm; n-butylbenzene = 0.55 ppm:; no other VOCs or SVOCs detected in soil.
(3) Naphthalene = 8 ppb; isopropylbenzene = 5.9 ppb; 1,2,4-trimethylbenzene = 160 ppb; 1,3,5-trimethylbenzene = 44 ppb; no other VOCs or SVOCs detected in groundwater.

Site History and Description of Corrective Actions:

A gasoline service station operated at the site from 1953 until 1993. Prior to the 1950s, the property was reported as either vacant or used for agricultural purposes. An operating service station is adjacent to the site at the corner of Edes and 98th Avenues. Surrounding land use to the west and south is residential. Future construction of residential housing is planned for the site.

Two fuel USTs and one waste oil tank were removed from the site on December 7, 1993. The fuel USTs were pitted and corroded but no holes were observed. The waste oil tank had a ½-inch hole on top of the fill end. A soil sample collected at a depth of 12 feet bgs from the fuel tank pit contained 12,000 ppm of TPHg and 11 ppm of benzene. Petroleum hydrocarbons were not detected in soil samples collected beneath the waste oil tank or product lines. Three monitoring wells (STMW-1 through STMW-3) were installed and three exploratory soil borings were advanced on March 6 and 7, 1995. A product sheen was observed on the groundwater in well STMW-1 during monitoring on April 10, 1995 and petroleum hydrocarbons were detected in groundwater collected from well STMW-1 through STMW-3.

The former gasoline tank pit was overexcavated in January 1996. Water was present in the UST tank pit at approximately 7 feet bgs. Confirmation soil samples collected from the pit walls did not contain petroleum hydrocarbons. Samples from the soil stockpile did not contain petroleum hydrocarbons and the stockpile was reused to backfill the tank pit.

Groundwater monitoring of the three monitoring wells continued from April 1995 until December 1996. The three wells were decommissioned on May 20, 1997. The case was closed by Alameda County Environmental Health on August 25, 1997.

Subsequent to case closure, eight monitoring wells (MW-1 through MW-8) and five soil borings were advanced to the site between September 17 and 19, 1997. Hydrocarbon-impacted groundwater was detected in two wells near the source area and two wells downgradient from the former service station. The maximum concentrations detected in groundwater were 330 ppb of TPHg, 410 ppb of TPHd, 8.3 ppb of benzene, and 3.0 ppm of MTBE. The eight wells were removed from the site sometime between October 1997 and 2006.

Due to the presence of residual fuel hydrocarbons, the site was closed on August 25, 1997 with a site management requirement that the corrective action must be reviewed if land use changes from a commercial land use. Based on plans to change land use from commercial to residential, case RO0002958 was opened in 2007 in order to evaluate the site for unrestricted land use. A site investigation consisting of a geophysical survey, soil vapor sampling, and surface soil sampling was conducted in May 2006. Twelve soil vapor samples were collected throughout the site and analyzed for VOCs. Toluene was detected in one of 10 soil vapor samples at a concentration of 0.1 ppb; no other VOCs were detected. Organochlorine pesticides, silver, and thallium were not detected in the surface soil samples. Cadmium, chromium, copper, mercury, and zinc were not detected in surface soil samples at concentrations exceeding Environmental Screening Levels (San Francisco Bay Regional Water Quality Control Board November 2007) for residential land use. Arsenic was detected in the 10 surface soil samples at concentrations ranging from 6.5 to 14 ppm, which is within the background range for soils in this area.

Additional soil vapor sampling was conducted on April 11, 2008 to evaluate conditions within the former tank pit areas. Tetrachloroethene (PCE) was the only VOC detected in four of the five soil vapor samples at concentrations ranging from 0.13 to 0.21 ppb. The concentrations of PCE in soil vapor do not exceed the ESL for residential land use. One soil boring was advanced in the approximate center of the former tank pit on April 11, 2008. Soil samples collected at depths of 4, 7, and 8.45 feet bgs did not contain detectable concentrations of fuel hydrocarbons. TPHg and naphthalene were detected in a soil sample collected at a depth of 11 feet bgs at concentrations of 0.045 and 39 ppm, respectively. A grab groundwater sample collected from the boring in the former tank pit contained TPHg and naphthalene at concentrations of 1,200 and 8 ppb, respectively.

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: None		
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: 11	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

No documentation regarding the removal of hydraulic lifts and an oil water separator from the former service station has been located. Two hydraulic hoists and on oil water separator were described in the concrete pad of the former service station on August 28, 1997. The concrete pad, hydraulic lifts, and oil water separator appear to have been removed sometime between 1997 and 2006. A geophysical survey conducted at the site in May 2006 did not indicate the presence of the hydraulic hoists or oil/water separator. Soil vapor samples collected within the footprint of the former concrete pad did not detect VOCs. Soil samples collected adjacent to the former hydraulic lifts and oil/water separator did not contain detectable concentrations of TPHg, TPHd, BTEX, MTBE, oil and grease, VOCs, and SVOCs.

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 upon the information available in our files to date. No further investigation or cleanup is necessary. ACEH staff recommend case closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist
Signature: Jerry Wickham	Date: 05/06/08
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature:	Date: 05/06/08

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

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature: Cherie McCaulou	Date: 5/13/08

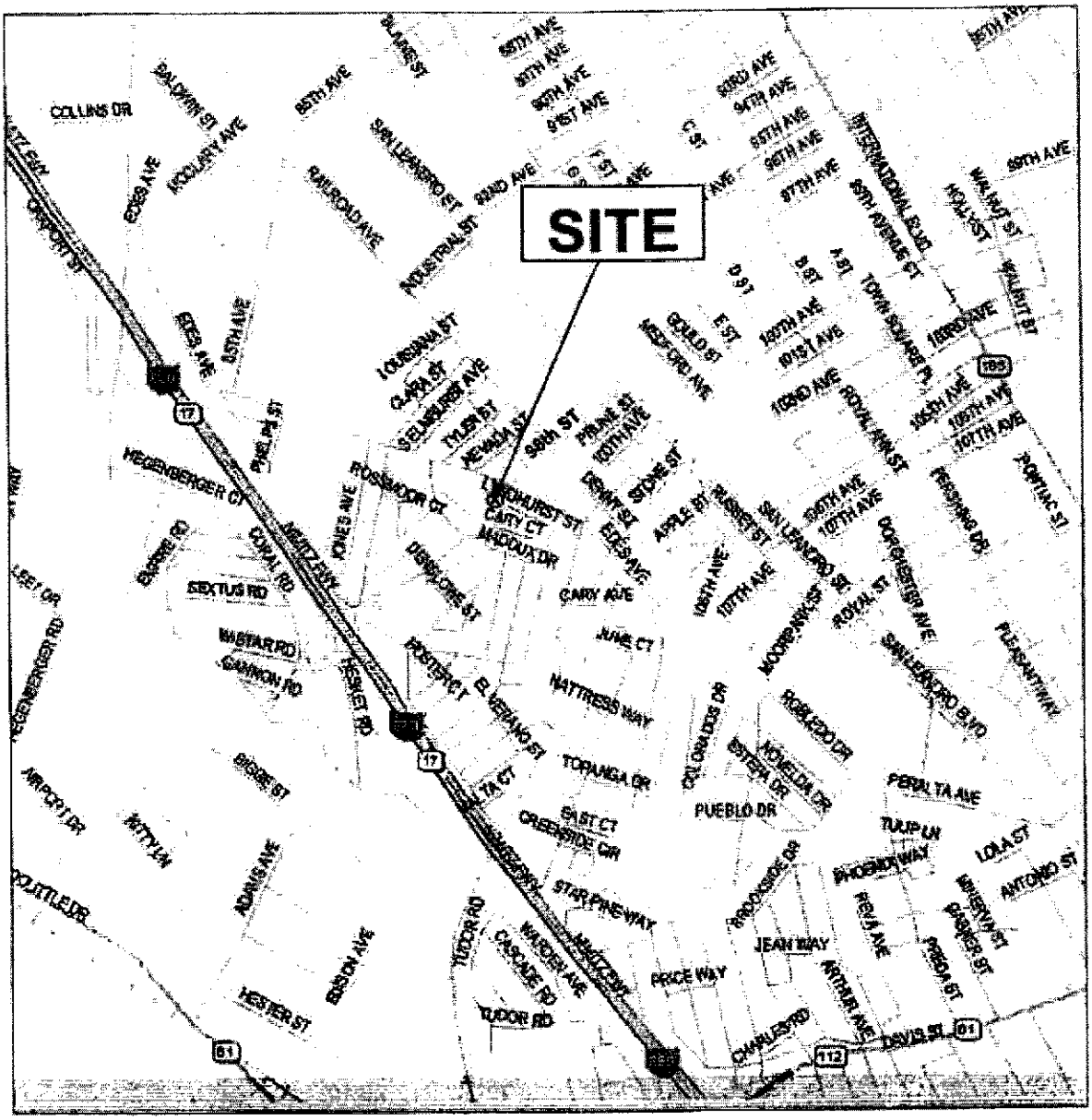
VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: NA	Date of Well Decommissioning Report: NA	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 11	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: Jerry Wickham		Date: 05/13/08

Attachments:

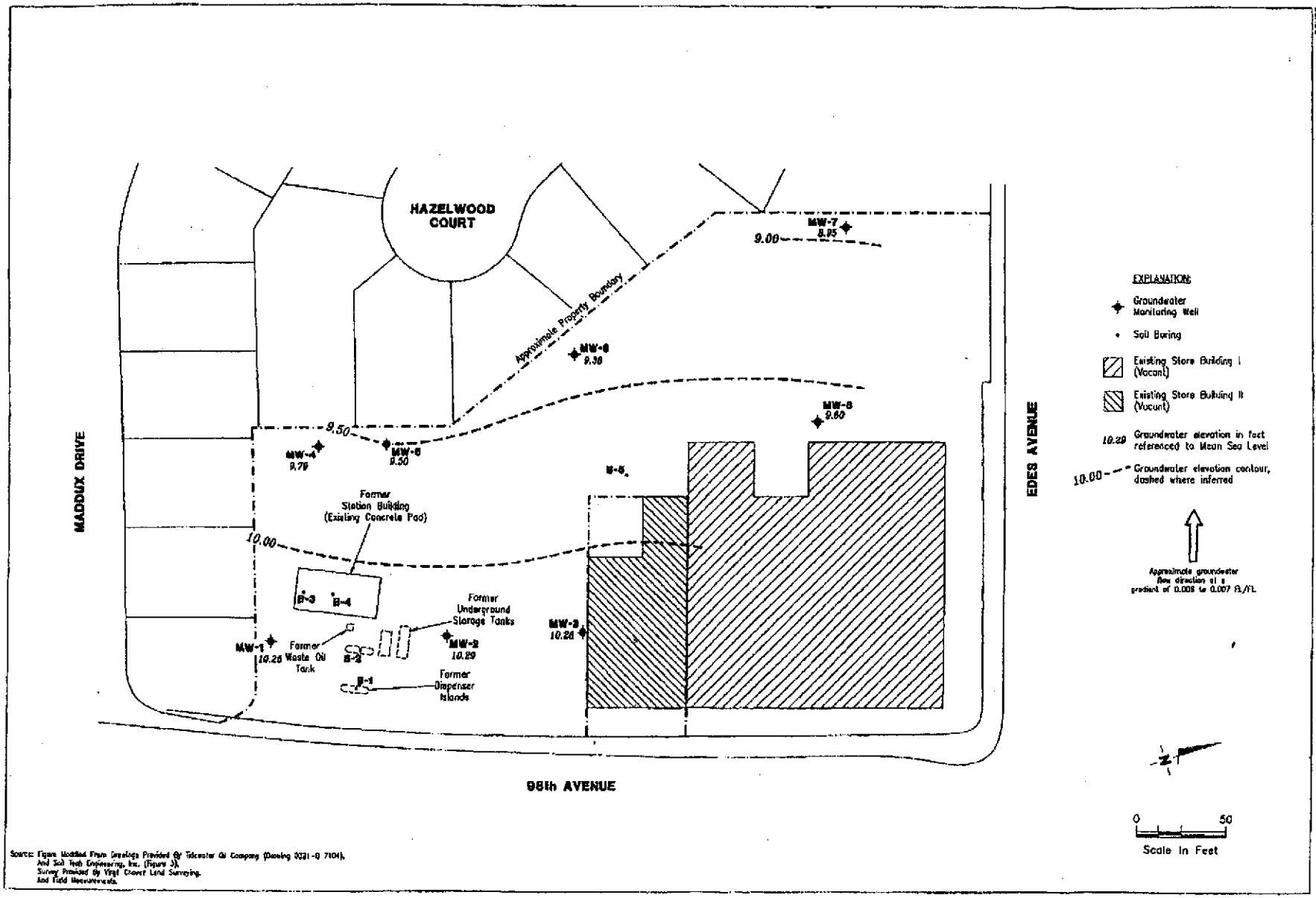
1. Site Vicinity Map (1 page)
2. Potentiometric Map – October 6, 1997, Soil Concentration Map, Groundwater Concentration Map, Excavation Map, Soil Vapor and Soil Sample Location Map, and Sample Location Map (6 pages)
3. Soil, Soil Vapor, and Groundwater Analytical Results – April 11, 2008 (3 pages)
4. Soil Analytical Data (9 pages)
5. Groundwater Analytical Data (3 pages)
6. Boring Logs (13 pages)

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.



Source of Base Map: DELORME 2006®

SCS ENGINEERS ENVIRONMENTAL CONSULTANTS 3645 WESTWIND BOULEVARD SANTA ROSA, CA 95403 PH. (707) 546—9461 FAX (707) 544—5769	SITE LOCATION MAP	APPROX. SCALE (MILES) 0 2.5 5
PROJECT NO: 01205501.10	555 98th AVENUE OAKLAND, CALIFORNIA	FIGURE: 1
DATE: 10/25/06	CREATED BY: JJM	APP. BY: LMB



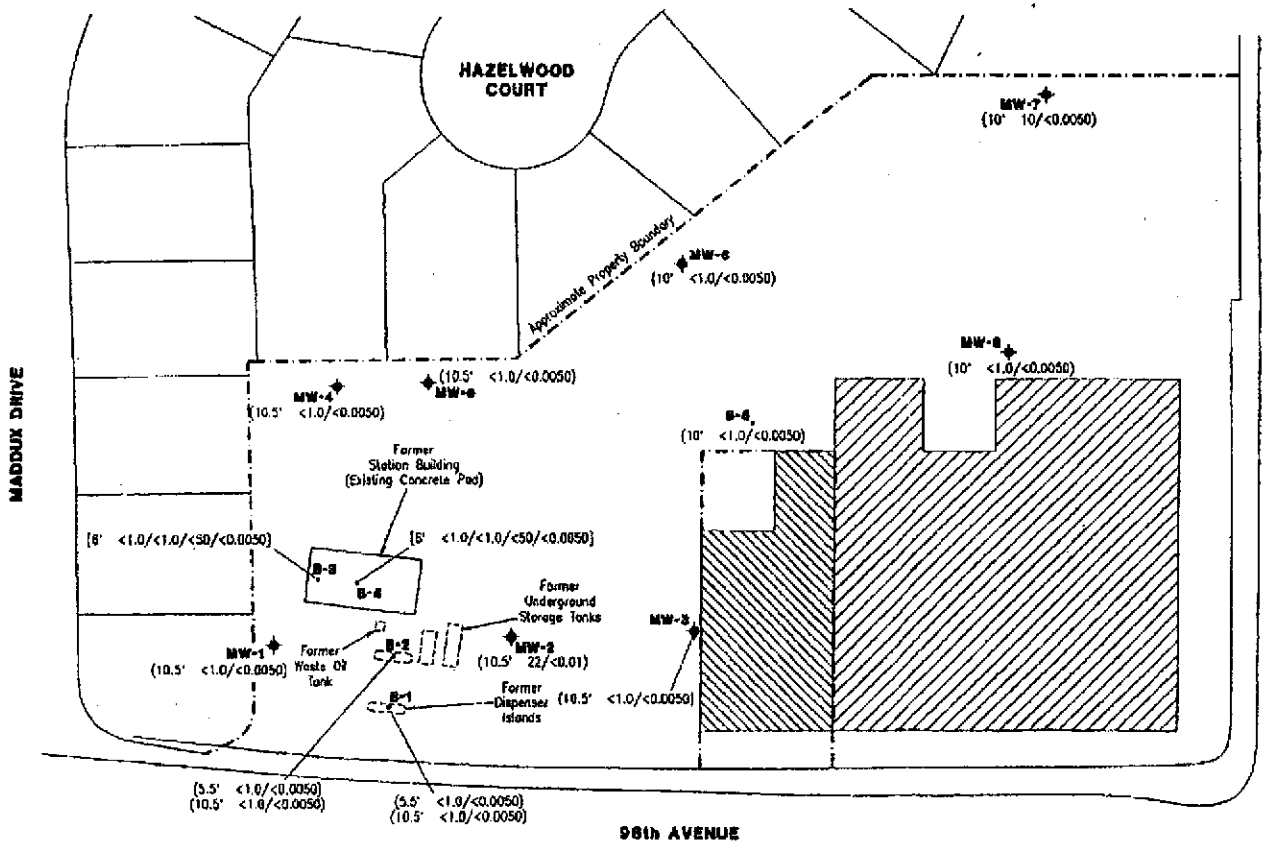
Source: Figure Modified From Drawings Provided By Tidewater Oil Company (Drawing 9231-9 7104), And Soil Test Engineering, Inc. (Figure 3). Survey Provided By Virgil Chavez Land Surveying. And Field Measurements.

FIGURE 2

POTENTIOMETRIC MAP
Freedom Fund Inc.
9755 Edes Avenue/593 98
Oakland, California

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

JOB NUMBER 5409
REVIEWED BY
DATE October 6, 1997



Source: Figure Modified From Drawings Provided By Tidewater Oil Company (Drawing 0321-0 71041 And Soil Tech Engineering, Inc. (Figure 3). Survey Provided By Virgil Chavez Land Surveying And Field Measurements.

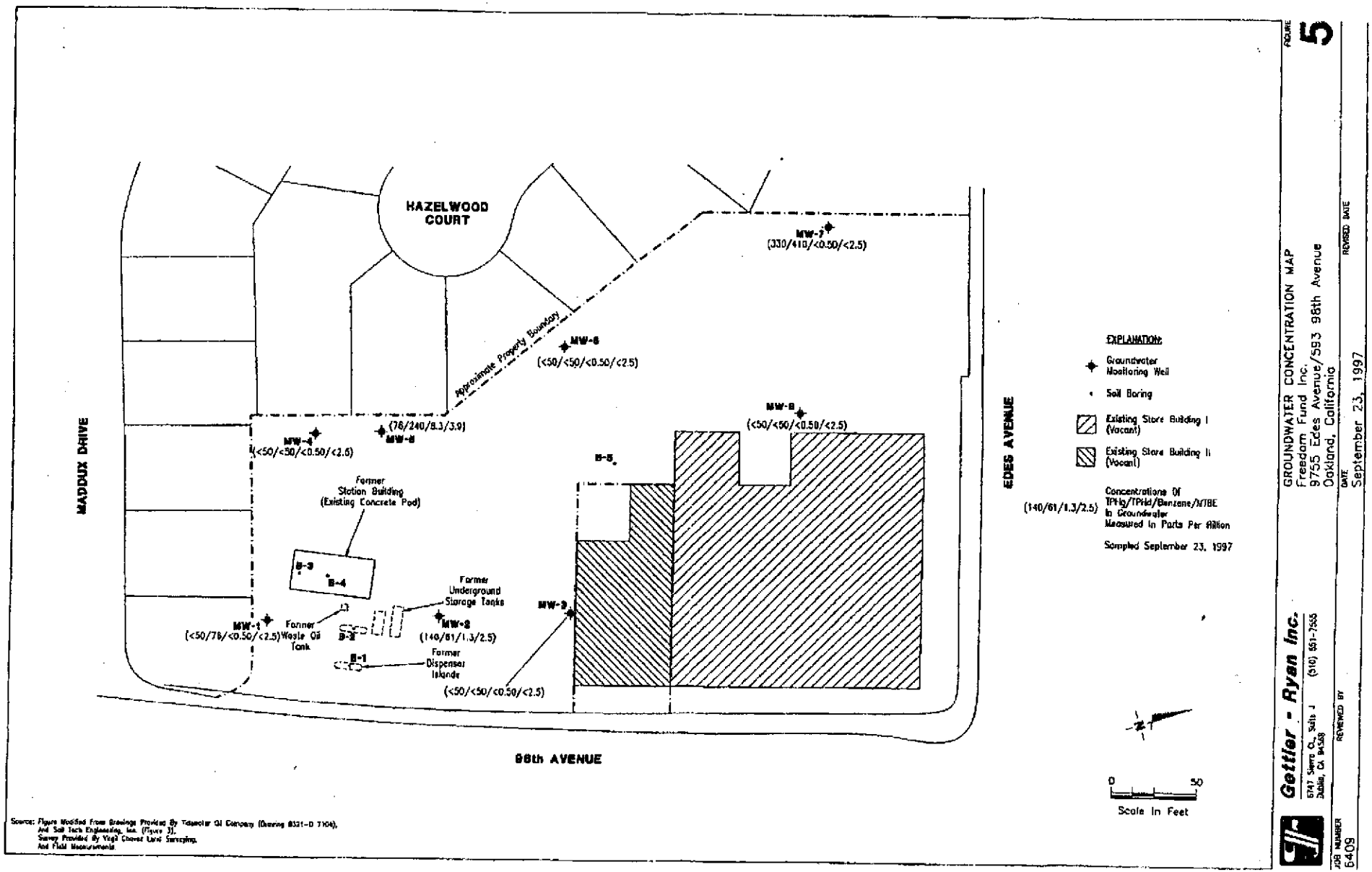
FIGURE 4

SOIL CONCENTRATION MAP
Freedom Fund Inc.
9755 Edes Avenue/593 98th Avenue
Oakland, California

DATE: September 17-19, 1997
REVISED DATE:

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(510) 551-7555

JOB NUMBER: 6409
REVIEWED BY:



Source: Figure Modified From Drawings Provided By Tosco Oil Company (Drawing 8521-D 7104), And Soil Tech Engineering, Inc. (Figure 3). Survey Provided By Virgil Chavez Land Surveying, And Field Measurements

FIGURE 5

GROUNDWATER CONCENTRATION MAP
Freedom Fund Inc.
9755 Edes Avenue/583 98th Avenue
Oakland, California

DATE: September 23, 1997
REVISED DATE:

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(510) 551-7555

JOB NUMBER: 6409
REVIEWED BY:

File No. 10-93-570-ST

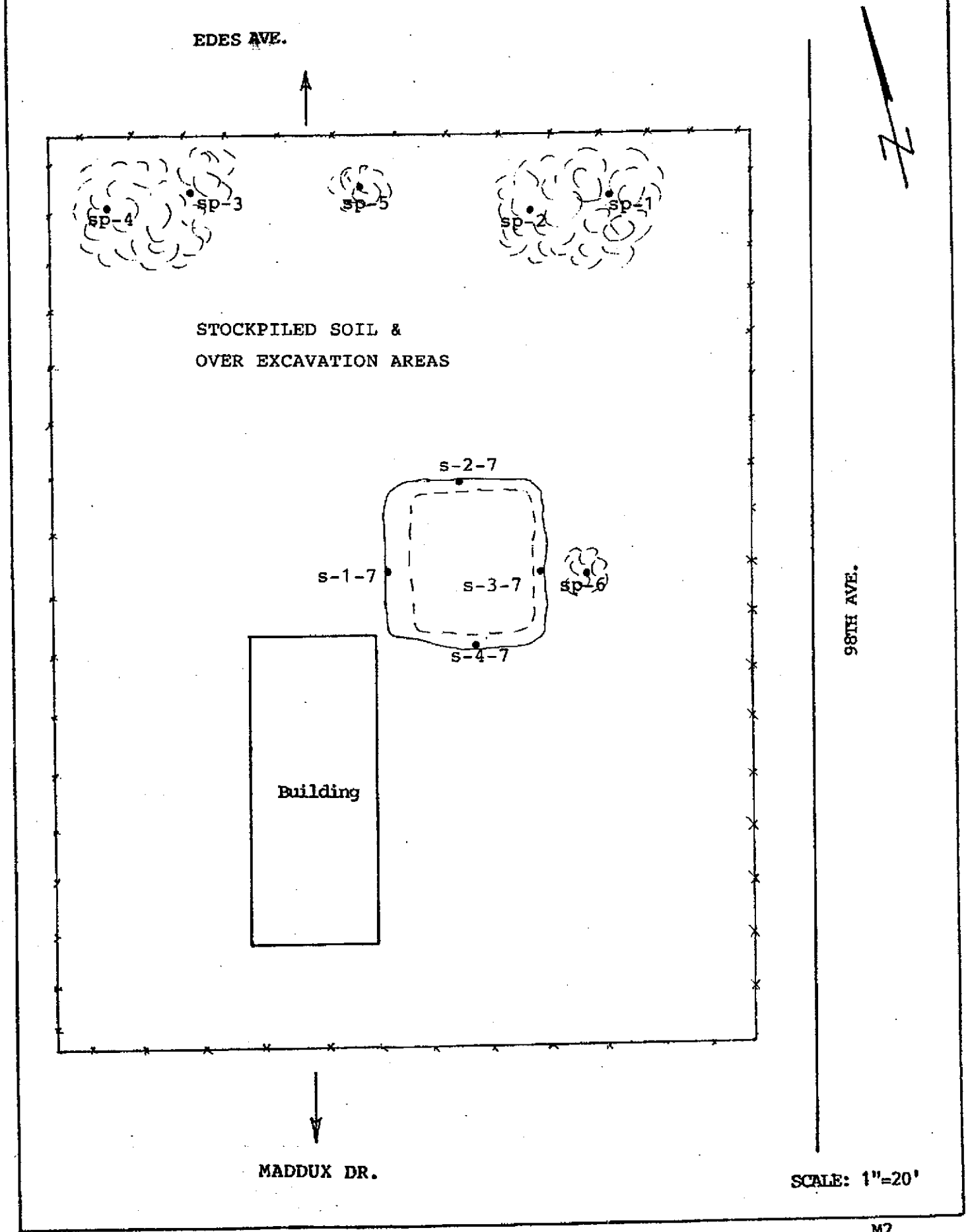
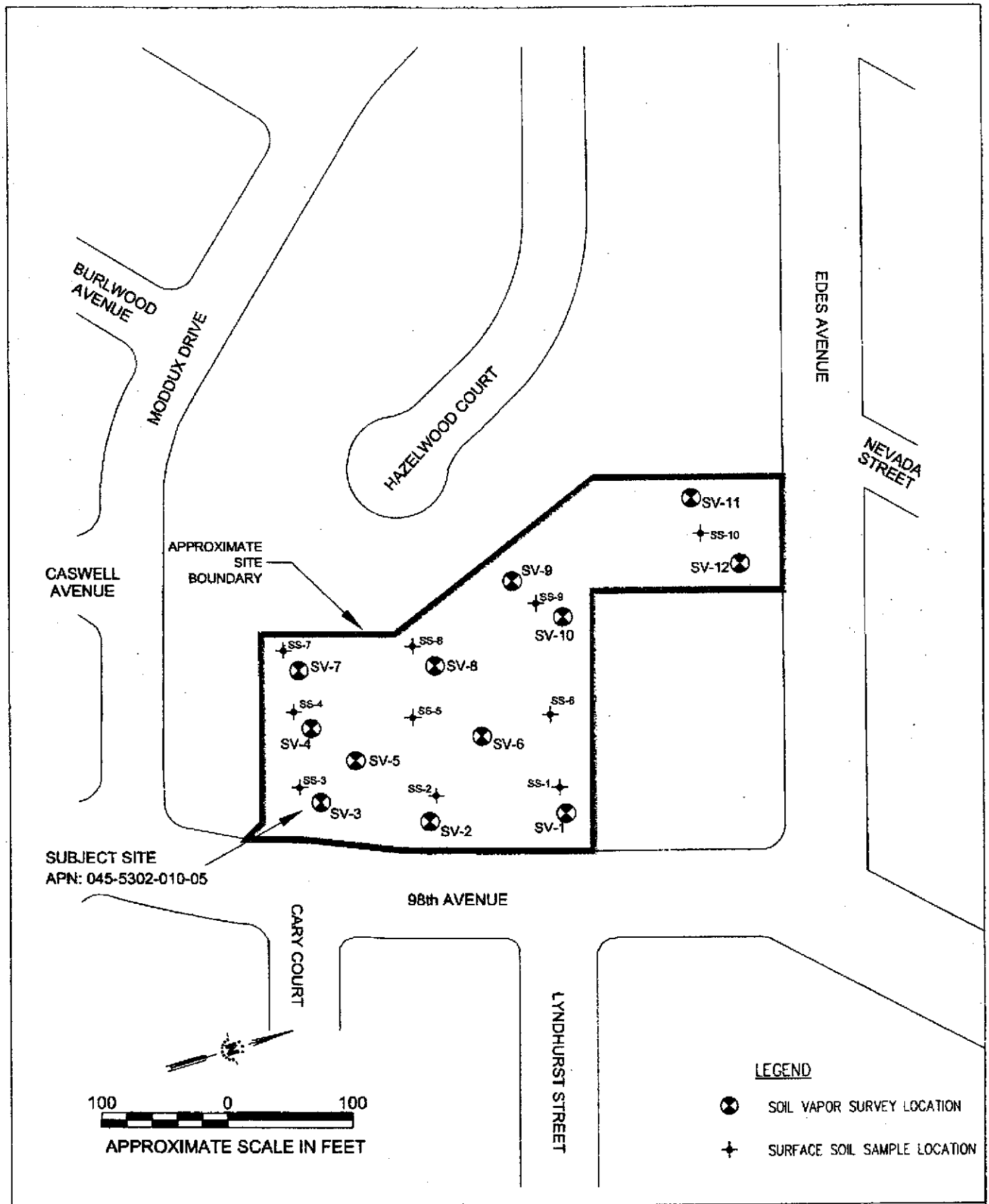


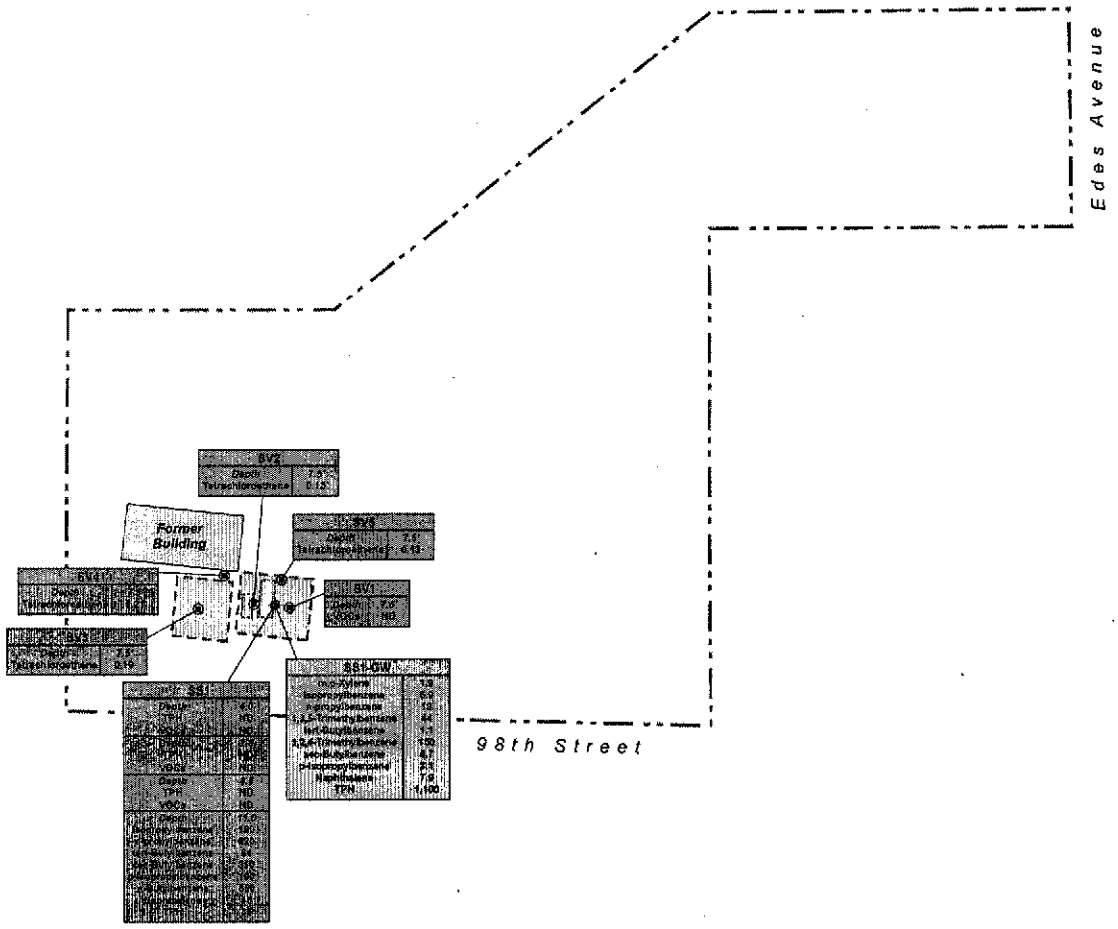
Figure 2

SOIL TECH ENGINEERING, INC.

M2



SCS ENGINEERS ENVIRONMENTAL CONSULTANTS 2601 KOLL CENTER PARKWAY, SUITE 140 PLEASANTON, CALIFORNIA 94566 PHONE: (925) 426-0080 FAX: (925) 426-0707	SITE PLAN 555 98th STREET OAKLAND, CALIFORNIA	FIGURE 2	PROJECT NO. 01207042.00 DATE: 6-15-07



EXPLANATION

- Approximate Site boundary
- Interpreted location of former underground storage tanks (UST)
- Soil vapor sample locations
- Soil and groundwater boring location
- Interpreted "correct" location of UST excavation (Soil Tech Engineering, 1996)
- Interpreted "misplotted" location of UST excavation (Soil Tech Engineering, 1994)

Soil vapor samples with depth in feet below current grade, analyzed for volatile organic compounds (VOCs) in general accordance with EPA Method 8260B (compounds not listed were not detected). Results reported in micrograms per liter of vapor (µg/Lv). ND indicates not detected above the laboratory detection limit.

Soil samples with depth in feet below current grade, analyzed for total petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs) in general accordance with EPA Method 8260B. VOC concentrations are reported in micrograms per kilogram (µg/kg) and TPH concentrations are reported in milligrams per kilogram (mg/kg). ND indicates not detected above the laboratory detection limit.

Groundwater sample analyzed for total petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs) in general accordance with EPA Method 8260B (compounds not listed were not detected). Results reported in micrograms per liter (µg/L).

0 25 50 75
Approximate Graphic Scale in Feet

North

Disclaimer: This figure is based on available data. Actual conditions may differ. All locations and dimensions are approximate.

SCS ENGINEERS
Environmental Consultants
8799 Balboa Avenue, Suite 290
San Diego, California 92123

SAMPLE LOCATION MAP
AMCAL Multi-Housing, Inc.
555 98th Avenue
Oakland, California

Project No.: 01205501.17
Figure 1
Date Drafted: 4/23/08

TEG Project #80411D

SCS Engineers Project # 01207042.00
555 98th Avenue, Oakland, California

EPA Method 8260B Analyses of SOIL VAPOR in ug/L of Vapor

SAMPLE NUMBER:		Probe Blank	SV-1	SV-1	SV-1	SV-2	SV-3	SV-3 dup	SV-4	SV-5
SAMPLE DEPTH (feet):			7.5	7.5	7.5	7.5	7.5	7.5	8.5	7.5
PURGE VOLUME:			1	3	7	3	3	3	3	3
COLLECTION DATE:		4/11/08	4/11/08	4/11/08	4/11/08	4/11/08	4/11/08	4/11/08	4/11/08	4/11/08
COLLECTION TIME:		09:21	09:44	10:08	10:30	11:00	11:20	12:35	11:38	12:04
DILUTION FACTOR:		1	1	1	1	1	1	1	1	1
	RL									
Dichlorodifluoromethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Chloromethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Bromomethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Chloroethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MtBE)	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Benzene	0.080	nd	nd	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Toluene	0.20	nd	nd	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.10	nd	nd	nd	nd	0.13	0.19	0.18	0.21	0.13
Dibromochloromethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
m,p-Xylene	0.20	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-Xylene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Styrene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Bromoform	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
n-propylbenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
n-Butylbenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Naphthalene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	0.10	nd	nd	nd	nd	nd	nd	nd	nd	nd
TPH (gasoline range)	10	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1 Difluoroethane (leak check)	10	nd	nd	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		105%	106%	108%	107%	105%	104%	104%	105%	107%
Surrogate Recovery (1,2-DCA-d4)		113%	115%	123%	123%	114%	111%	114%	114%	115%
Surrogate Recovery (Toluene-d8)		100%	102%	103%	104%	101%	102%	101%	102%	102%
Surrogate Recovery (1,4-BFB)		100%	99%	103%	103%	100%	100%	98%	99%	100%

'RL' Indicates reporting limit at a dilution factor of 1

'nd' Indicates not detected at listed reporting limits

Analyses performed by: Mr. Jon Edmondson

11350 Monier Park Place, Rancho Cordova, CA 95742 Phone: (916) 853-8010 Fax: (916) 853-8020

TEG Project #80411D

SCS Engineers Project # 01207042.00
555 98th Avenue, Oakland, California

EPA Method 8260B Analyses of WATER in ug/L

SAMPLE NUMBER:		Blank	SS-1GW	SS-1GW dup
COLLECTION DATE:			04/11/08	04/11/08
ANALYSIS DATE:		04/11/08	04/11/08	04/11/08
DILUTION FACTOR:			1	1
	RL			
Dichlorodifluoromethane	1.0	nd	nd	nd
Chloromethane	1.0	nd	nd	nd
Vinyl Chloride	1.0	nd	nd	nd
Bromomethane	1.0	nd	nd	nd
Chloroethane	1.0	nd	nd	nd
Trichlorofluoromethane	1.0	nd	nd	nd
1,1-Dichloroethene	1.0	nd	nd	nd
Methylene Chloride	1.0	nd	nd	nd
Methyl-t-butyl ether (MTBE)	1.0	nd	nd	nd
trans-1,2-Dichloroethene	1.0	nd	nd	nd
1,1-Dichloroethane	1.0	nd	nd	nd
2,2-Dichloropropane	1.0	nd	nd	nd
cis-1,2-Dichloroethene	1.0	nd	nd	nd
Chloroform	1.0	nd	nd	nd
Bromochloromethane	1.0	nd	nd	nd
1,1,1-Trichloroethane	1.0	nd	nd	nd
1,1-Dichloropropene	1.0	nd	nd	nd
Carbon Tetrachloride	1.0	nd	nd	nd
1,2-Dichloroethane	1.0	nd	nd	nd
Benzene	1.0	nd	nd	nd
Trichloroethene	1.0	nd	nd	nd
1,2-Dichloropropane	1.0	nd	nd	nd
Bromodichloromethane	1.0	nd	nd	nd
Dibromomethane	1.0	nd	nd	nd
cis-1,3-Dichloropropene	1.0	nd	nd	nd
Toluene	1.0	nd	nd	nd
trans-1,3-Dichloropropene	1.0	nd	nd	nd
1,1,2-Trichloroethane	1.0	nd	nd	nd
1,2-Dibromoethane	1.0	nd	nd	nd
1,3-Dichloropropane	1.0	nd	nd	nd
Tetrachloroethene	1.0	nd	nd	nd
Dibromochloromethane	1.0	nd	nd	nd
Chlorobenzene	1.0	nd	nd	nd
Ethylbenzene	1.0	nd	nd	nd
1,1,1,2-Tetrachloroethane	1.0	nd	nd	nd
m,p-Xylene	1.0	nd	2.0	1.9
o-Xylene	1.0	nd	nd	nd
Styrene	1.0	nd	nd	nd
Bromoform	1.0	nd	nd	nd
Isopropylbenzene	1.0	nd	5.9	5.9
1,1,2,2-Tetrachloroethane	1.0	nd	nd	nd
1,2,3-Trichloropropane	1.0	nd	nd	nd
n-propylbenzene	1.0	nd	20	19
Bromobenzene	1.0	nd	nd	nd
1,3,5-Trimethylbenzene	1.0	nd	44	44
2-Chlorotoluene	1.0	nd	nd	nd
4-Chlorotoluene	1.0	nd	nd	nd
tert-Butylbenzene	1.0	nd	1.1	1.1
1,2,4-Trimethylbenzene	1.0	nd	160	150
sec-Butylbenzene	1.0	nd	5.0	4.7
p-Isopropyltoluene	1.0	nd	3.3	3.1
1,3-Dichlorobenzene	1.0	nd	nd	nd
1,4-Dichlorobenzene	1.0	nd	nd	nd
n-Butylbenzene	1.0	nd	nd	nd
1,2-Dichlorobenzene	1.0	nd	nd	nd
1,2-Dibromo-3-chloropropane	1.0	nd	nd	nd
1,2,4-Trichlorobenzene	1.0	nd	nd	nd
Hexachlorobutadiene	1.0	nd	nd	nd
Naphthalene	1.0	nd	8.0	7.9
1,2,3-Trichlorobenzene	1.0	nd	nd	nd
TPH-gasoline range (C5-C11)	50	nd	1200	1100
Surrogate Recovery (DBFM)		104%	103%	103%
Surrogate Recovery (1,2-DCA-d4)		110%	111%	116%
Surrogate Recovery (Toluene-d8)		101%	103%	102%
Surrogate Recovery (1,4-BFB)		100%	102%	101%

'RL' Indicates reporting limit at a dilution factor of 1

'nd' Indicates not detected at listed reporting limits

Analyses performed by: Mr. Jon Edmondson

11350 Monier Park Place, Rancho Cordova, CA 95742 Phone: (916) 853-8010 Fax: (916) 853-8020

TEG Project #80411D

SCS Engineers Project # 01207042.00
555 98th Avenue, Oakland, California

EPA Method 8260B Analyses of SOIL in ug/Kg (mg/kg for TPH-Gasoline)

SAMPLE NUMBER:		Blank	SS-1,4	SS-1,4 dup	SS-1,7	SS-1,8.5	SS-1,11.5
COLLECTION DATE:			04/11/08	04/11/08	04/11/08	04/11/08	04/11/08
ANALYSIS DATE:		04/14/08	04/14/08	04/14/08	04/14/08	04/14/08	04/14/08
DILUTION FACTOR:		1	1	1	1	1	5
	RL						
Dichlorodifluoromethane	5.0	nd	nd	nd	nd	nd	nd
Chloromethane	5.0	nd	nd	nd	nd	nd	nd
Vinyl Chloride	5.0	nd	nd	nd	nd	nd	nd
Bromomethane	5.0	nd	nd	nd	nd	nd	nd
Chloroethane	5.0	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	5.0	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	5.0	nd	nd	nd	nd	nd	nd
Methylene Chloride	5.0	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	5.0	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	5.0	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	5.0	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	5.0	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	5.0	nd	nd	nd	nd	nd	nd
Chloroform	5.0	nd	nd	nd	nd	nd	nd
Bromochloromethane	5.0	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	5.0	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	5.0	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	5.0	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	5.0	nd	nd	nd	nd	nd	nd
Benzene	5.0	nd	nd	nd	nd	nd	nd
Trichloroethene	5.0	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	5.0	nd	nd	nd	nd	nd	nd
Bromodichloromethane	5.0	nd	nd	nd	nd	nd	nd
Dibromomethane	5.0	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	5.0	nd	nd	nd	nd	nd	nd
Toluene	5.0	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	5.0	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	5.0	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	5.0	nd	nd	nd	nd	nd	nd
1,3-Dichloropropene	5.0	nd	nd	nd	nd	nd	nd
Tetrachloroethene	5.0	nd	nd	nd	nd	nd	nd
Dibromochloromethane	5.0	nd	nd	nd	nd	nd	nd
Chlorobenzene	5.0	nd	nd	nd	nd	nd	nd
Ethylbenzene	5.0	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	5.0	nd	nd	nd	nd	nd	nd
m,p-Xylene	5.0	nd	nd	nd	nd	nd	nd
o-Xylene	5.0	nd	nd	nd	nd	nd	nd
Styrene	5.0	nd	nd	nd	nd	nd	nd
Bromoform	5.0	nd	nd	nd	nd	nd	nd
Isopropylbenzene	5.0	nd	nd	nd	nd	nd	180
1,1,2,2-Tetrachloroethane	5.0	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	5.0	nd	nd	nd	nd	nd	nd
n-propylbenzene	5.0	nd	nd	nd	nd	nd	620
Bromobenzene	5.0	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	5.0	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	5.0	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	5.0	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	5.0	nd	nd	nd	nd	nd	64
1,2,4-Trimethylbenzene	5.0	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	5.0	nd	nd	nd	nd	nd	310
p-isopropyltoluene	5.0	nd	nd	nd	nd	nd	100
1,3-Dichlorobenzene	5.0	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	5.0	nd	nd	nd	nd	nd	nd
n-Butylbenzene	5.0	nd	nd	nd	nd	nd	550
1,2-Dichlorobenzene	5.0	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	5.0	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	5.0	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	5.0	nd	nd	nd	nd	nd	nd
Naphthalene	5.0	nd	nd	nd	nd	nd	45
1,2,3-Trichlorobenzene	5.0	nd	nd	nd	nd	nd	nd
TPH-gasoline range (C5-C11)	1.0	nd	nd	nd	nd	nd	39
Surrogate Recovery (DBFM)		91%	136%	157%	116%	104%	98%
Surrogate Recovery (1,2-DCA-d4)		85%	134%	144%	108%	96%	92%
Surrogate Recovery (Toluene-d8)		97%	144%	157%	117%	109%	114%
Surrogate Recovery (1,4-BFB)		95%	147%	170%	107%	109%	96%

'RL' Indicates reporting limit at a dilution factor of 1

'nd' Indicates not detected at listed reporting limits

Analyses performed by: Mr. Jon Edmondson

11350 Monier Park Place, Rancho Cordova, CA 95742 Phone: (916) 853-8010 Fax: (916) 853-8020

Table 2. Soil Analytical Data

Freedom Fund Inc.
9755 Edes Avenue/593 98th Avenue
Oakland, California

Sample ID	Sample Date	Depth (feet)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)	TPHd (ppm)	O&G (ppm)	HVOs (ppm)	SVOs (ppm)	Lead (ppm)
Well Borings													
MW1-10.5	9/17/97	10.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	na	na	na	na	na
MW2-10.5	9/17/97	10.5	22[1]	<0.01	0.012	0.032	0.031	<0.050	na	na	na	na	<10
MW3-10.5	9/18/97	10.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	na	na	na	na	<10
MW4-10.5	9/17/97	10.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	na	na	na	na	<10
MW5-10.5	9/17/97	10.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	na	na	na	na	<10
MW-6-10	9/18/97	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	na	na	na	na	8.3
MW-7-10	9/18/97	10	10[2]	<0.0050	<0.0050	0.0099	0.078	<0.025	na	na	na	na	<5.0
MW-8-10	9/18/97	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	na	na	na	na	<10
Exploratory Soil Borings													
B-1-5.5	9/19/97	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.030	na	na	na	na	6.6
B-1-10.5	9/19/97	10.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	na	na	na	na	na
B-2-5.5	9/19/97	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	na	na	na	na	5.2
B-2-10.5	9/19/97	10.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	na	na	na	na	na
B-3-6	9/19/97	6	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<1.0	<50	ND	ND	<5[3]
B-4-6	9/19/97	6	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<1.0	<50	ND	ND	<5[4]
B-5-10	9/19/97	10	≤1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	na	na	na	na	na
Drill Cuttings Stockpile													
S-1(A-D)Comp	9/19/97	—	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	na	na	na	na	na

For Explanation refer to page 2.

[redacted]

Table 2. Soil Analytical Data
Freedom Fund Inc.
9755 Edes Avenue/593 98th Avenue
Oakland, California

Sample ID	Sample Date	Depth (feet)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)	TPHd (ppm)	O&G (ppm)	HVOs (ppm)	SVOs (ppm)	Lead (ppm)

Explanation:
TPHg = Total Petroleum Hydrocarbons as gasoline
TPHd = Total Petroleum Hydrocarbons as diesel
O&G = Oil and Grease
MTBE = Methyl t-butyl ether
BTEX = Benzene, toluene, ethylbenzene, and total xylenes
HVOs = Halogenated volatile organics
SVOs = Semi-volatile organic compounds
na = not analyzed for this constituent
ND = None detected
ppm = parts per million
--- = not applicable

Analytic Laboratory
Sequoia Analytical (ELAP #1210 and #1624)

Analytic Methods
TPHg/BTEX/MTBE = EPA Methods 8015/8020
TPHd = EPA Method 8015
O&G = Standard Method 5520E&F
HVOs = EPA Method 8260
SVOs = EPA Method 8270
metals = EPA Method 6010

[1] Chromatogram pattern indicated weathered gas C6 - C12.
[1] Chromatogram pattern indicated weathered gas C8 - C12.
[3] Sample also analyzed for cadmium (<0.50 ppm), chromium (37 ppm), nickel (42 ppm) and zinc (40 ppm).
[4] Sample also analyzed for cadmium (<0.50 ppm), chromium (39 ppm), nickel (46 ppm) and zinc (45 ppm).

File No. 10-93-570-ST

TABLE 1
SUMMARY OF SOIL SAMPLES RESULTS
IN
MILLIGRAMS PER KILOGRAM (mg/Kg)

Date	Sample No.	TPHg	B	T	E	X
1/22/96	SP-1	ND	ND	ND	ND	ND
	SP-2	ND	ND	ND	ND	ND
	SP-3	ND	ND	ND	ND	ND
	SP-4	ND	ND	ND	ND	ND
	SP-5	ND	ND	ND	ND	ND
1/29/96	SP-6	ND	ND	ND	ND	ND
	S-1-7	ND	ND	ND	ND	ND
	S-2-7	ND	ND	ND	ND	ND
	S-3-7	ND	ND	ND	ND	ND
	S-4-7	ND	ND	ND	ND	ND

TPHg - Total Petroleum Hydrocarbons as gasoline
BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes
ND - Not Detected (Below Laboratory Detection Limit)

File No. 10-93-570-ST

TABLE 1
SUMMARY OF SOIL ANALYSIS RESULTS
IN
PARTS PER MILLION (ppm)

1. TPHD, TPHG AND BTEX RESULTS

Date	Sample Number	Depth feet	TPHd	TPHg	B	T	E	X
12/07/93	WO-1-8	8	ND	ND	ND	ND	ND	ND
	P-1-3	3	ND	ND	ND	ND	ND	ND
	P-2-2	2	ND	ND	ND	ND	ND	ND
	B-1-12	12	ND	840	1.6	4.0	7.9	42
	B-2-12	12	ND	230	0.8	0.25	1.0	4.8
	B-3-12	12	ND	750	1.1	0.62	2.9	31
	B-4-12	12	ND	12,000	11	270	77	610

TPHd - Total Petroleum Hydrocarbons as diesel
TPHg - Total Petroleum Hydrocarbons as gasoline
BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes
ND - Not Detected (Below Laboratory Detection Limit)

File No. 10-93-570-ST

TABLE 1 CONT'D
SUMMARY OF SOIL ANALYSIS RESULTS
IN
PARTS PER MILLION (ppm)

2. TOG, TOTAL LEAD, VOC's AND SEMI-VOC's RESULTS

Date	Sample No.	Depth feet	TOG	Total Lead	VOC's	Semi-VOC's
12/07/93	WO-1-8	8	ND	NA	ND	ND
	P-1-3	3	NA	ND	NA	NA
	P-2-2	2	NA	ND	NA	NA
	B-1-12	12	NA	3.1	NA	NA
	B-2-12	12	NA	3.3	NA	NA
	B-3-12	12	NA	1.6	NA	NA
	B-4-12	12	NA	ND	NA	NA

Semi-VOC's - Semi-Volatile Organic Compounds (EPA Method 8270)
VOC's - Volatile Organic Compounds (EPA Method 8010)
TOG - Total Oil & Grease

File No. 10-93-570-ST

TABLE 2
SOIL SAMPLES ANALYTICAL RESULTS
IN
MILLIGRAMS PER KILOGRAM (mg/Kg)

Date	Sample No.	Depth feet	TPHg	B	T	E	X
3/06/95	STMW-1-6	6	ND	ND	ND	ND	ND
	STMW-1-11	11	46	0.034	0.036	0.09	0.21
	STMW-2-6	6	ND	ND	ND	ND	ND
	STMW-2-11	11	ND	ND	ND	ND	ND
	STMW-3-6	6	ND	ND	ND	ND	ND
	STMW-3-11	11	ND	ND	ND	ND	ND
3/07/95	SB-4-6	6	ND	ND	ND	ND	ND
	SB-4-11	11	34	0.044	0.039	0.036	0.097
	SB-5-6	6	1.3	ND	ND	0.0064	0.017
	SB-5-11	11	25	0.03	0.027	0.011	0.044
	SB-6-6	6	ND	ND	ND	ND	ND
	SB-6-11	11	ND	ND	ND	ND	ND

TPHg - Total Petroleum Hydrocarbons
BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes
ND - Not Detected (Below Laboratory Detection Limit)

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 31, 1996

PEL # 9601070

SOIL TECH ENGINEERING

Attn: Noori Ameli

Re: Five soil samples for Gasoline/BTEX analysis.

Project name: 525 98th Ave., - Oakland
Project number: 10-93-570-ST

Date sampled: Jan 29, 1996
Date extracted: Jan 30-31, 1996

Date submitted: Jan 30, 1996
Date analyzed: Jan 30-31, 1996

RESULTS:

SAMPLE I.D.	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylene (ug/Kg)
S-1-7	N.D.	N.D.	N.D.	N.D.	N.D.
S-2-7	N.D.	N.D.	N.D.	N.D.	N.D.
S-3-7	N.D.	N.D.	N.D.	N.D.	N.D.
S-4-7	N.D.	N.D.	N.D.	N.D.	N.D.
SP-6 1	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	104.1%	80.6%	101.9%	109.8%	98.7%
Detection limit	1.0	5.0	5.0	5.0	5.0
Method of Analysis	5030 / 8015	8020	8020	8020	8020

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

Argon Mobile Labs

3008 McKittrick Ct., Suite N • Ceres, CA 95307 • (209) 537-7836

SOIL TECH ENGINEERING, INC.
298 Brokaw Rd.
Santa Clara, CA 95050

Date Sampled: 12/07/93
Date Received: 12/08/93
Date Reported: 12/16/93

METALS, CAM 5
EPA Method 6010

Project ID: 10-93-570-ST
Matrix: Soil

Sample ID: WO-1-8
Lab No: T312041

Name	Amount	Detection Limit	Units (ppm)
Cadmium (Cd)	ND	0.25	mg/Kg
Chromium (Cr)	57	0.25	mg/Kg
Lead (Pb)	4.9	0.25	mg/Kg
Nickel (Ni)	74	2.5	mg/Kg
Zinc (Zn)	65	0.25	mg/Kg

QA/QC: 82% Matrix Spike Recovery (Cr)
84% Duplicate Spike Recovery

ARGON MOBILE LABS

Hiram Cueto
Lab Director

TH

AMCAL

Sample ID	Sample Date	Methylene Chloride	Toluene
		µg/L-vapor	
SV-1	5/31/2007	ND	ND
SV-2	5/31/2007	• 0.10	ND
SV-3	5/31/2007	ND	ND
SV-4	5/31/2007	ND	ND
SV-5	5/31/2007	ND	ND
SV-6	5/31/2007	ND	ND
SV-7	5/31/2007	ND	• 0.12
SV-8	5/31/2007	ND	ND
SV-9	5/31/2007	ND	ND
SV-10	5/31/2007	ND	ND
SV-11	5/31/2007	ND	ND
SV-12	5/31/2007	ND	ND
Residential ESL		2.4	63

Notes:

VOCs = Volatile Organic Compounds; analyzed using EPA Method 8260B (compounds not listed were not detected)

µg/L = micrograms per liter

ND = Not Detected

ESL = Environmental Screening Level for shallow soil gas - San Francisco Bay Regional Water Quality Control Board, Interim Final - February 2005.

Table 1. Groundwater Monitoring and Analytical Data

Freedom Fund Inc.
9755 Edes Avenue/593 98th Avenue
Oakland, California

Well ID/ Casing Elevation[1]	Sample Date	Depth to Water (feet)	Groundwater Elevation (feet)	Product Thickness (feet)	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	TPHd (ppb)
MW-1/	9/22/97	10.18	10.29	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	76[2]
20.47	10/6/97	10.22	10.25	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<50
MW-2/	9/22/97	9.33	10.96	0.00	140	1.3	1.2	<0.50	1.0	<2.5	61[2]
20.29	10/6/97	10.00	10.29	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<50
MW-3/	9/22/97	10.21	10.30	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<50
20.51	10/6/97	10.25	10.26	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<50
MW-4/	9/22/97	9.92	10.12	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<50
20.04	10/6/97	10.25	9.79	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<50
MW-5/	9/22/97	9.62	10.13	0.00	76	8.3	11	0.91	8.8	3.9	240[2]
19.75	10/6/97	10.25	9.50	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	92[5]/<50[6]
MW-6/	9/22/97	9.62	10.01	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<50
19.63	10/6/97	10.25	9.38	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<50
MW-7/	9/22/97	9.28	9.92	0.00	330[3]	<0.50	<0.50	2.0	<0.50	<2.5	410[2]
19.20	10/6/97	10.25	8.95	0.00	170[4]	<0.50	<0.50	<0.50	<0.50	<2.5	120[7]/110[6,7]
MW-8/	9/22/97	9.86	10.05	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<50
19.91	10/6/97	10.25	9.66	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<50
Trip Blank	----	----	----	----	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA
	----	----	----	----	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA

For Explanation refer to page 2.

Table 1. Groundwater Monitoring and Analytical Data

Freedom Fund Inc.

9755 Edes Avenue/593 98th Avenue

Oakland, California

Explanation:

TPHg = Total Petroleum Hydrocarbons as gasoline
TPHd = Total Petroleum Hydrocarbons as diesel
MTBE = Methyl t-butyl ether
BTEX = Benzene, toluene, ethylbenzene, and total xylenes
ppb = parts per billion
NA = not analyzed for this constituent
---- = not applicable

Analytic Laboratory

Sequoia Analytical (ELAP #1210, 1271)

Analytic Methods

TPHg/BTEX/MTBE = EPA Methods 8015/8020
TPHd = EPA Method 8015

[1] Elevations surveyed by Virgil Chavez Land Surveying (P.L.S. 6323) on September 23, 1997.
[2] Chromatogram pattern indicated unidentified hydrocarbons C9 - C24.
[3] Chromatogram pattern indicated unidentified hydrocarbons C6 - C12.
[4] Chromatogram pattern indicated unidentified hydrocarbons > C8.
[5] Chromatogram pattern indicated unidentified hydrocarbons > C16.
[6] Results of TPHd analysis after silica gel cleanup.
[7] Chromatogram pattern indicated unidentified hydrocarbons < C18.

File No. 10-93-570-ST

TABLE 3
GROUNDWATER SAMPLES ANALYTICAL RESULTS
IN
MILLIGRAMS PER LITER (mg/l)

A. TPHd, TPHg, BTEX and TOG Results

Date	Well No.	TPHd	TPHg	B	T	E	X	TOG
4/10/95	STMW-1	0.067	13	0.0059	0.0069	0.15	0.25	NA
	STMW-2	0.054	ND	ND	ND	ND	ND	NA
	STMW-3	ND	ND	ND	ND	ND	ND	15

B. Cadmium, Chromium, Lead, Nickel and Zinc Results

Date	Well No.	Cd	Cr	Pb	Ni	Zn
4/10/95	STMW-1	NA	NA	NA	NA	NA
	STMW-2	NA	NA	NA	NA	NA
	STMW-3	ND	ND	ND	ND	ND

TPHd - Total Petroleum Hydrocarbons as diesel
TPHg - Total Petroleum Hydrocarbons as gasoline
BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes
ND - Not Detected (Below Laboratory Detection Limit)
NA - Not Analyzed

SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

BORING NUMBER: SS-1

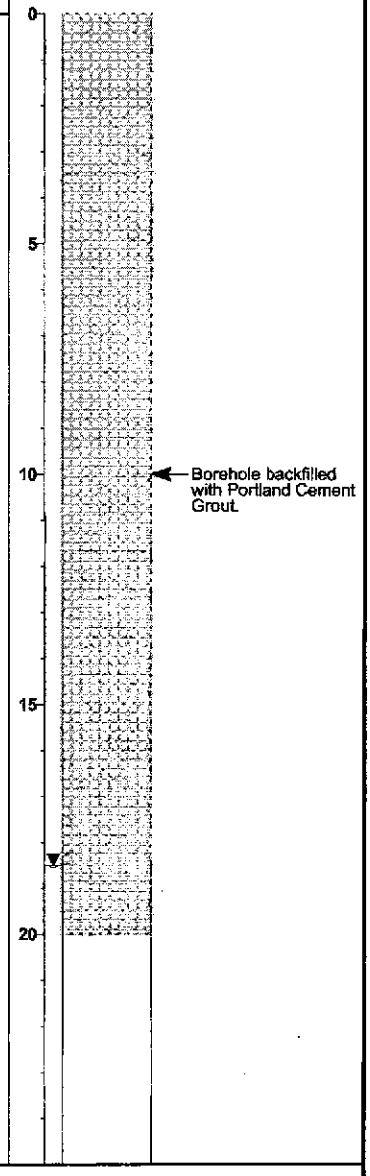
Amcal Site
555 98th Street
Oakland, CA

JOB NUMBER: 01205501.17 Task 3

REMARKS:
Ground surface at SS-1 covered with grassy weeds and appears approximately 2.5 feet higher than original grade when compared to surrounding grade.

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							No Recovery: Appears to be artificial fill.
1	5		SS-1 4		ND	CL		Poor Recovery: Silty clay, few fine to coarse sands, brown to very dark brown, dry, no odor.
2			SS-1 7		ND			Poor Recovery: Quarry fines, very little clay, brown/gray, slightly moist, no odor.
			SS-1 8.5		ND	CL		Clay, little silt, low plasticity, brown, moist, no odor.
3	10		SS-1 11.5		53	CL		Clay, little silt, color changes from brown to gray @ 11' and has a moderate hydrocarbon odor.
4								Clay, little silt, color changes from gray to brown @ 14' with no hydrocarbon odor.
	15							
5								
6	20					SW		Well graded sand, very little clay, few sub-rounded fine gravels, wet, no odor.
7								
	25							

Completion Detail



Drilling Company: **TEG**
Drilling Method: **Direct Push**
Logged By: **T. Sison**
Sampling Method: **Continuous Core/ Acetate Sleeve**

Date Started: **4/11/08**
Date Ended: **4/11/08**
Boring Diameter: **2.5 inch**

Depth to Water: **18.5 ft**
Total Depth: **20.0 ft**

STANDARD_LOG AMCAL OAKLAND.GPJ STD_LOG.GDT 4/21/08

[redacted]

File No. 10-93-570-ST

Logged By: Robert Baker	Exploratory Boring Log	Boring No STMW-1
Date Drilled. 3/06/95	Approx. Elevation	Boring Diameter 8-inch
Drilling Method: Mobile drill rig B-40L		Sampling Method

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				CH	2-inch asphalt on 4-inch baserock. Very dark grey fat clay with sand, damp, stiff, 15% subangular medium to coarse grained sand. Munsell Soil Color: 5YR 3/1
2					
3					
4					
5				GC	Dark brown clayey gravel with sand, damp, medium dense, 25% lean clay fines, 30% fine to coarse grained sand, 45% gravel clasts to 2-inch diameter.
6	STMW-1-6		325 psi		Munsell Soil Color: 10YR 3/3
7					
8					
9					▼ Static groundwater encountered at 9½ feet.
10				CH	Grey with yellowish-brown mottles fat clay, damp, very stiff, moderate gasoline odor, rainbow sheen on water.
11	STMW-1-11		325 psi		Munsell Soil Color: 10YR 5/1 with 5/6
12					▽ First groundwater encountered at 12 feet.
13					
14					
15					
16					

Remarks

File No. 10-93-570-ST

Logged By: Robert Baker	Exploratory Boring Log	Boring No. STMW-1
Date Drilled 3/06/95	Approx. Elevation	Boring Diameter 8-inch
Drilling Method: Mobile drill rig B-40L	Sampling Method	

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
17				CH	Grey with yellowish-brown mottles fat clay, damp, very stiff, moderate gasoline odor, rainbow sheen on water. Munsell Soil Color: 10YR 5/1 with 5/6
18					Caved to 18'4".
19					
20					Boring terminated at 20 feet.
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

Remarks

File No. 10-93-570-ST

Logged By: Robert Baker	Exploratory Boring Log	Boring No. STMW-2
Date Drilled. 3/06/95	Approx. Elevation	Boring Diameter 8-inch
Drilling Method: Mobile drill rig B-40L		Sampling Method

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				CH	2-inch asphalt on 4-inch baserock. Very dark grey fat clay with sand, damp, stiff, 15% medium grained sand. Munsell Soil Color: 5YR 3/1
2					
3					
4					
5				GC	Brown clayey gravel with sand, damp to moist, medium dense, 25% clayey fines, 30% fine to coarse grained sand, 45% subangular gravel clasts to 1½-inch diameter. Munsell Soil Color: 10YR 4/3
6	STMW-2-6		350 psi		
7					
8					
9					▼ Static groundwater encountered at 9½ feet.
10				CH	Greenish-grey fat clay, damp, stiff. Munsell Soil Color: 5GY 5/1
11	STMW-2-11		350 psi		
12					▽ First groundwater encountered at 12 feet.
13					
14					
15					
16					

Remarks

File No. 10-93-570-ST

Logged By: Robert Baker	Exploratory Boring Log	Boring No STMW-2
Date Drilled 3/06/95	Approx. Elevation	Boring Diameter 8-inch

Drilling Method: Mobile drill rig B-40L

Sampling Method:

Depth, Ft.	Sample No	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
17				CH	Greenish-grey fat clay, damp, stiff. Munsell Soil Color: 5GY 5/1
18				CH	Light olive-brown sandy fat clay with gravel, moist, stiff, 20% medium grained sand, 10% gravel clasts to 2-inch diameter. Munsell Soil Color: 5YR 3/3
19					
20					Caved to 20 feet.
21					
22					Boring terminated at 22 feet.
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

Remarks

File No. 10-93-570-ST

Logged By: Robert Baker	Exploratory Boring Log	Boring No. STMW-3
Date Drilled. 3/06/95	Approx. Elevation	Boring Diameter 8-inch
Drilling Method: Mobile drill rig B-40L	Sampling Method	

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				CH	2-inch asphalt on 4-inch baserock. Very dark greyish-brown sandy fat clay, damp, stiff, 25% medium grained sand. Munsell Soil Color: 10YR 3/2
2					
3					Becomes dark greyish-brown sandy fat clay, damp, stiff, 25% medium grained sand. Munsell Soil Color: 10YR 4/3
4					
5					Becomes gravelly.
6	STMW-3-6		375 psi		
7					
8				CH	Greenish-grey fat clay, moist, stiff. Munsell Soil Color: 5GY 6/1
9					
10					
11	STMW-3-11		350 psi		
12					▽ First groundwater encountered at 12 feet.
13					
14					
15				CH	Brown sandy fat clay with gravel, moist, stiff, 20% medium grained sand, 20% gravel clasts to 1-inch diameter. Munsell Soil Color: 10YR 5/3
16					

Remarks

File No. 10-93-570-ST

Logged By: Robert Baker	Exploratory Boring Log	Boring No. STMW-3
Date Drilled 3/06/95	Approx. Elevation	Boring Diameter 8-inch
Drilling Method: Mobile drill rig B-40L		Sampling Method

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/Ft.	Unified Soil Classification	DESCRIPTION
17				CH	Brown sandy fat clay with gravel, moist, stiff, 20% medium grained sand, 20% gravel clasts to 1-inch diameter. Munsell Soil Color: 10YR 5/3
18					
19					
20					
21					Caved to 21 feet.
22					
23					
24					Boring terminated at 24 feet.
25					
26					
27					
28					
29					
30					
31					
32					

Remarks

File No. 10-93-570-ST

Logged By: Robert Baker	Exploratory Boring Log	Boring No. SB-4
Date Drilled: 3/07/95	Approx. Elevation	Boring Diameter: 8-inch
Drilling Method: Mobile drill rig B-40L	Sampling Method	

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				CH	2-inch asphalt on 4-inch baserock. Black fat clay with sand, damp, stiff, 15% fine to medium grained sand. Munsell Soil Color: 10YR 2/1
2					
3				GC	Dark brown clayey gravel with sand, damp, medium dense, 40% clayey fines, 25% fine to coarse grained sand, 35% subangular gravel clasts to 1-inch diameter. Munsell Soil Color: 10YR 3/3
4					
5				SP-SC	Dark brown poorly graded sand with clay, damp to moist, medium dense, 90% fine to medium grained sand, 10% clayey fines. Munsell Soil Color: 10YR 3/3
6	SB-4-6		350 psi		
7					
8				CH	Dark yellowish-brown with grey mottles fat clay, damp, stiff, moderate to strong gasoline odor at 10 feet sample. Munsell Soil Color: 10YR 4/4 with 5/1
9					▼ Static groundwater encountered at 9½ feet.
10					
11	SB-4-11		350 psi		Boring terminated at 11½ feet.
12					
13					
14					
15					
16					

Remarks

File No. 10-93-570-ST

Logged By: Robert Baker	Exploratory Boring Log	Boring No. SB-5
Date Drilled. 3/07/95	Approx. Elevation	Boring Diameter 8-inch
Drilling Method: Mobile drill rig B-40L		Sampling Method

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				CH	2-inch asphalt on 4-inch baserock. Black fat clay with sand, damp, stiff, 15% fine to medium grained sand. Munsell Soil Color: 10YR 2/1
2					
3				GC	Very dark greyish-brown clayey gravel with sand, damp, medium dense, 30% clayey fines, 40% gravel clasts to 1-inch diameter, 30% fine to coarse grained sand. Munsell Soil Color: 10YR 3/2
4					
5					
6	SB-5-6		350 psi	CH	Very dark greyish-brown fat clay, damp, very stiff. Munsell Soil Color: 10YR 3/2
7					
8				CH	Greenish-grey fat clay, moist, stiff. Munsell Soil Color: 5GY 5/1
9					▼ Static groundwater encountered at 9½ feet.
10					
11	SB-5-11		350 psi		Slight gasoline odor in sample. Boring terminated at 11½ feet.
12					
13					
14					
15					
16					

Remarks

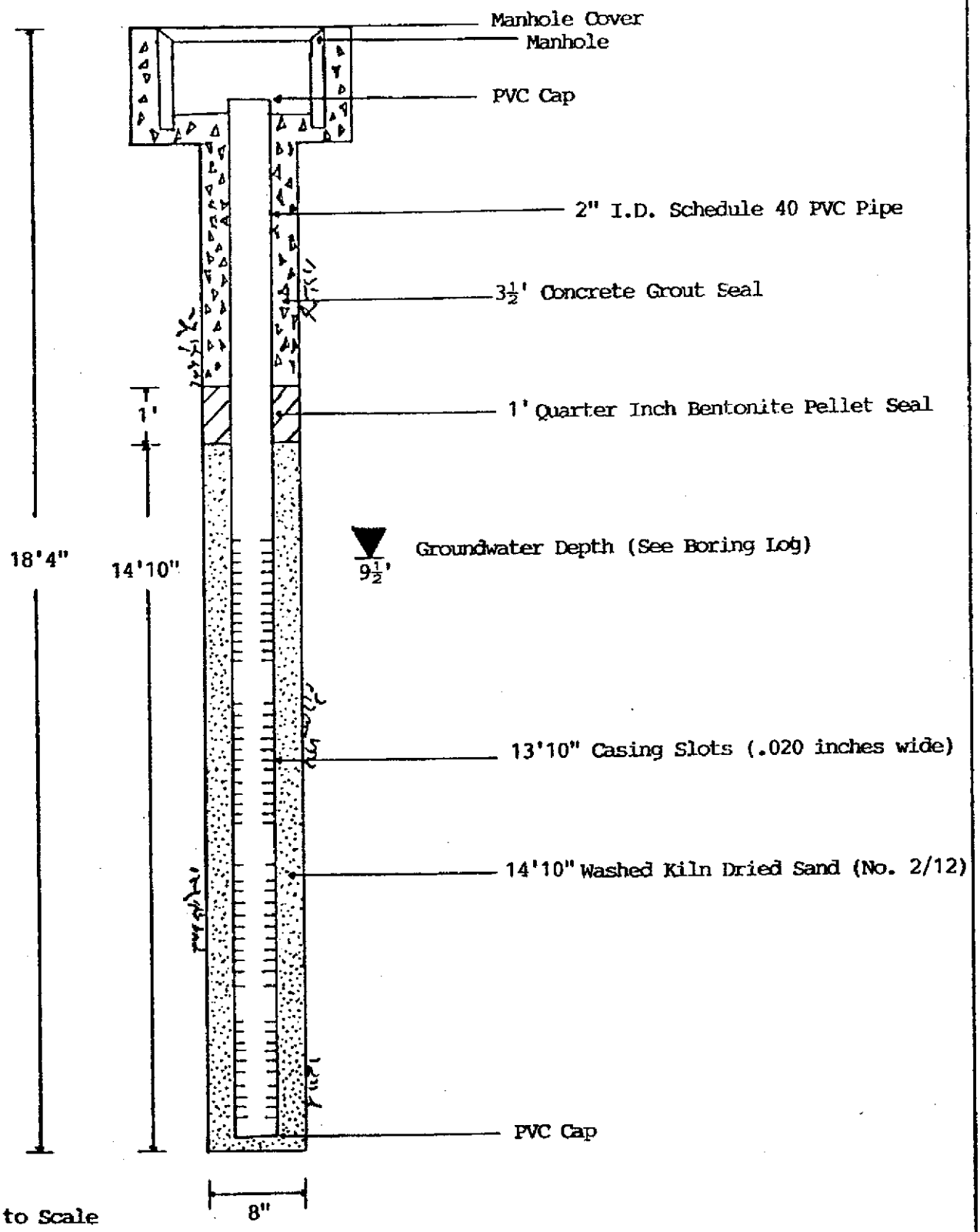
File No. 10-93-570-ST

Logged By: Robert Baker	Exploratory Boring Log	Boring No. SB-6
Date Drilled: 3/07/95	Approx. Elevation	Boring Diameter 8-inch
Drilling Method: Mobile drill rig B-40L		Sampling Method

Depth, Ft.	Sample No.	Field Test for Total Ionization	Penetration Resistance Blows/6"	Unified Soil Classification	DESCRIPTION
1				CH	2-inch asphalt on 4-inch baserock. Black fat clay, damp, stiff, with 10% subangular coarse grained sand. Munsell Soil Color: 10YR 2/1
2					
3				CH	Dark greyish-brown sandy fat clay, moist, stiff, 40% fine to coarse grained angular sand. Munsell Soil Color: 10YR 4/2
4					
5					
6	SB-6-6		350 psi		
7					
8				CH	Greenish-grey fat clay, moist, stiff. Munsell Soil Color: 5GY 5/1
9					▼ Static groundwater encountered at 9.8 feet.
10					
11	SB-6-11		350 psi		Boring terminated at 11½ feet.
12					
13					
14					
15					
16					

Remarks

File No. 10-93-570-ST



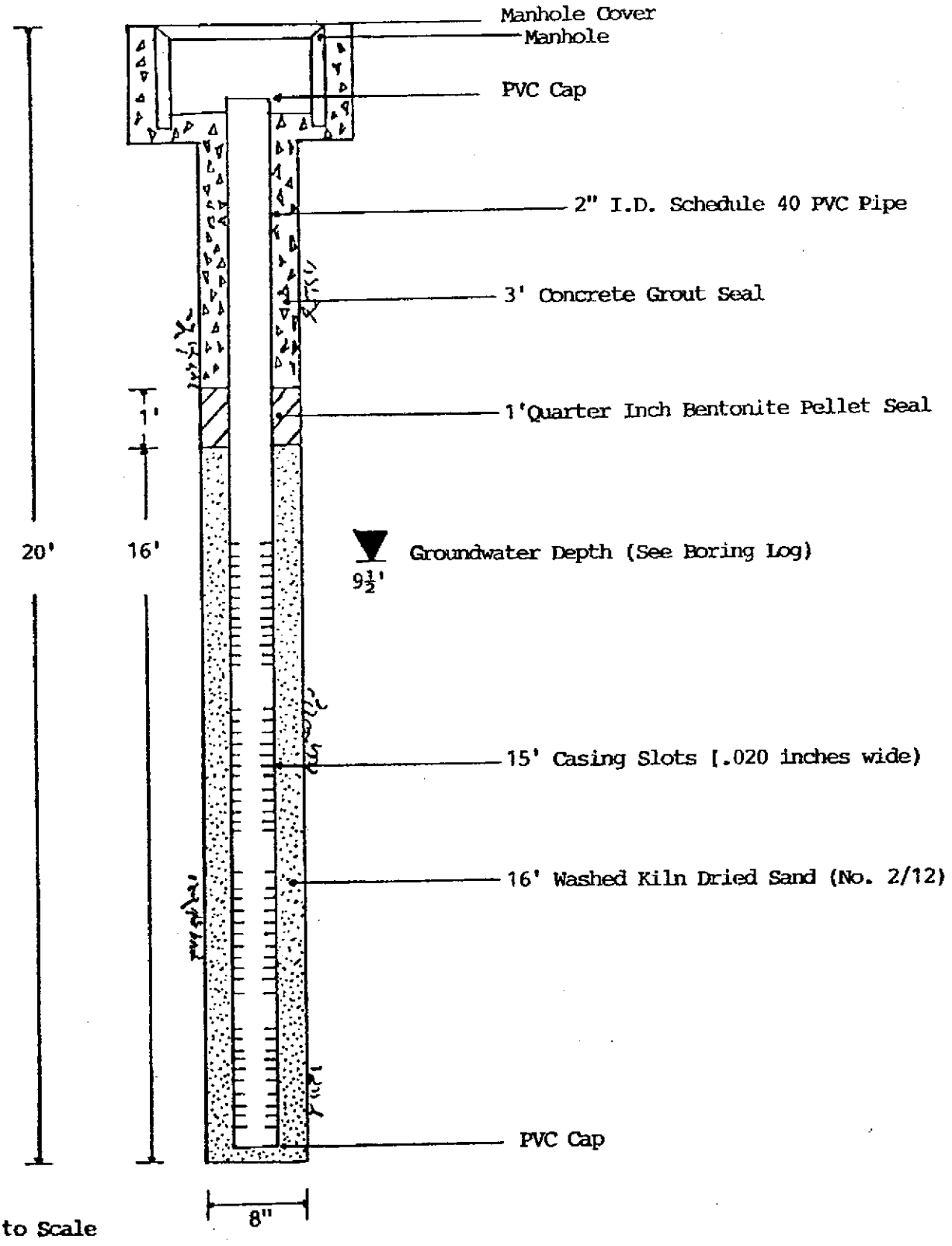
STMW-1

Piezometer Schematic

PS1

SOIL TECH ENGINEERING, INC.

File No. 10-93-570-ST



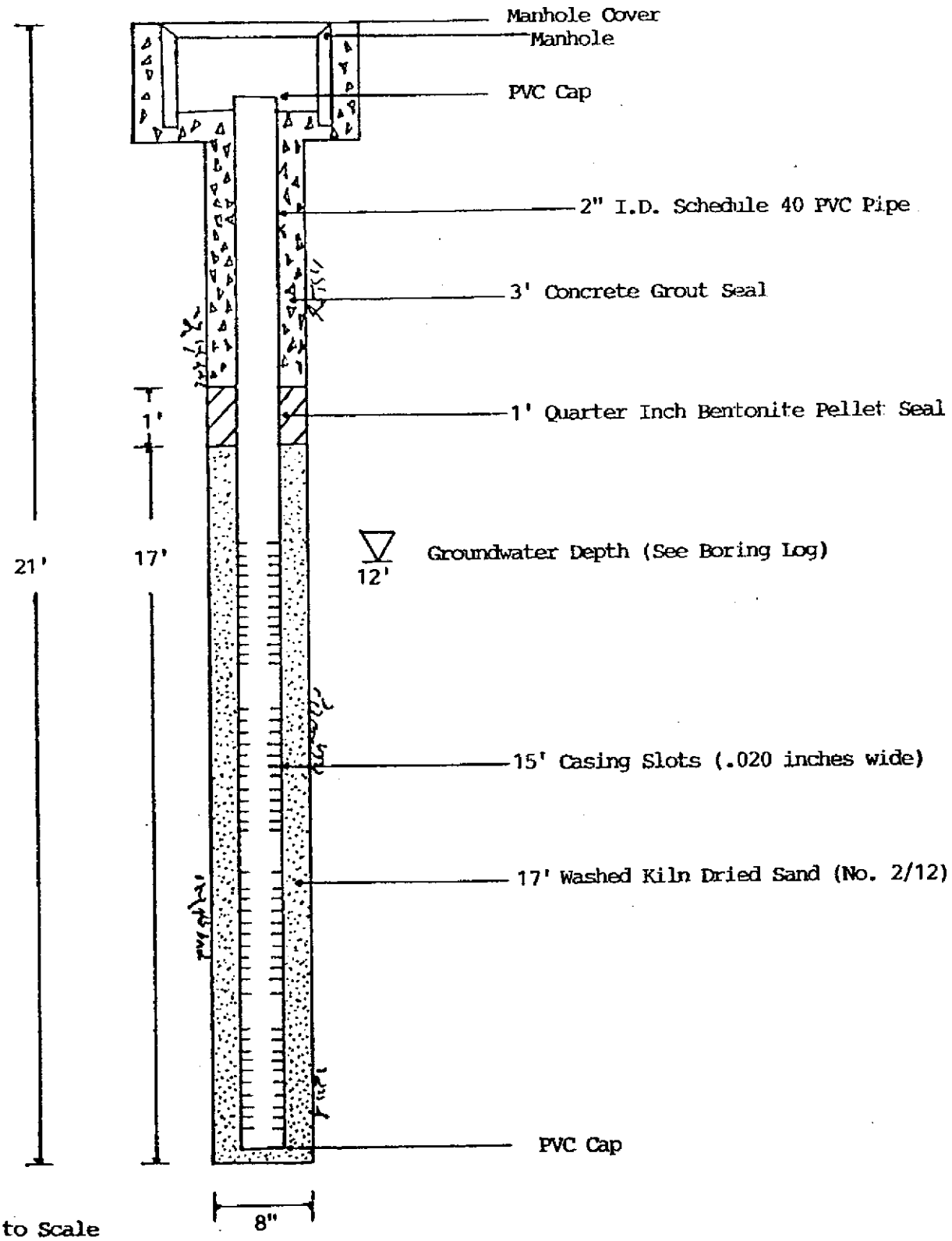
STMW-2

PS2

Piezometer Schematic

SOIL TECH ENGINEERING, INC.

File No. 10-93-570-ST



STMW-3

PS3

Piezometer Schematic

SOIL TECH ENGINEERING, INC.