

ALAMEDA COUNTY  
**HEALTH CARE SERVICES  
AGENCY**

ALEX BRISCOE, Agency Director



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

October 3, 2011

Ms. Sue Rosenberg  
Wilbett Company  
109 Hartford Rd.  
Danville, CA 94687

Theodore C. Willems  
Wilbett Company  
371 White Sands Drive  
Vacaville, CA 94526

Subject: Subject: Fuel Leak Case, RO0002983, Wilbett Company, 925 Stanford Avenue, Oakland, CA 94608

Dear Ms. Rosenberg and Mr. Willems:

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 diesel and TPH as motor oil at concentrations of up to 340 ppm and 460 ppm, respectively.
- Maximum concentrations of up to 16,000 ppb TPH as diesel and 7,600 ppb TPH as motor oil remain in groundwater beneath the site.

If you have any questions, please call Barbara Jakub at (510) 639-1287. Thank you.

Sincerely,

Donna L. Drogos, P.E.  
Division Chief

Enclosures:

1. Remedial Action Completion Certificate
2. Case Closure Summary

cc:Leroy Griffin (w/enc via electronic mail: [lgriffin@oaklandnet.com](mailto:lgriffin@oaklandnet.com)), Oakland Fire Department  
Barbara Jakub (w/ enc via e-mail), D. Drogos (w/ enc via e-mail), T. LeKhan (via e-mail and w/orig enc)  
Geotracker

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Wilbett Company  
371 White Sands Drive  
Vacaville, CA 94526

**REMEDIAL ACTION COMPLETION CERTIFICATE**

Subject: Fuel Leak Case, RO0002983, Wilbett Company, 925 Stanford Avenue, Oakland, CA 94608

Dear Ms. Rosenberg and Mr. Willems:

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

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

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,

A handwritten signature in blue ink, appearing to read 'Ariu Levi', is written over the word 'Sincerely,'.

Ariu Levi  
Director  
Alameda County Environmental Health

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

**I. AGENCY INFORMATION**

Date: August 19, 2011

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 639-1287
Responsible Staff Person: Barbara Jakub	Title: Hazardous Materials Specialist

**II. CASE INFORMATION**

Site Facility Name: Wilbett Company		
Site Facility Address: 925 Stanford Ave., Oakland, CA 94608		
RB Case No.: ---	STID No.: ---	LOP Case No.: RO0002983
URF Filing Date: 11/04/2008 12/28/2010	Geotracker ID: T10000000420	APN: 15-1294-14

Responsible Parties	Addresses	Phone Numbers
Theodore C. Willems Wilbett Company	371 White Sands Drive Vacaville, CA 95687	650-863-0317
Sue Rosenberg Wilbett Company	109 Hartford Rd. Danville CA 94526	925-788-4061

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
UST-A	1,300	Heating oil	Removed	April 12, 2008
UST-B	425	Heating oil	Removed	April 12, 2008
AST 1	650	Heating oil	Removed	March 6, 2008
Piping			Assumed removed with tanks	April 12, 2008 March 6, 2008

### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. USTs appeared intact upon removal.		
Site characterization complete? Yes	Date Approved By Oversight Agency: ----	
Monitoring wells installed? No	Number: 0	Proper screened interval? NA
Highest GW Depth Below Ground Surface: 2.8 ft bgs	Lowest Depth: 13.5 ft bgs	Flow Direction: Southwest*
Most Sensitive Current Use: Potential drinking water source.		

\* Groundwater MWs not installed, gradient from adjacent site RO#2869

Summary of Production Wells in Vicinity:	
Only one industrial well is located within 1/4-mile radius of the site. It is located at 5702B Adeline St. approximately 800 ft southeast of the site in the cross-gradient direction. This well does not appear to be a receptor due to its cross-gradient location from the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: Derby Creek Tributary approx. 1100 ft WNW
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	650-gallon heating oil (H.O.) AST 1,300 gallon H.O. UST 425-gallon H.O. UST	Circosta Metal, Inc. San Francisco, CA	3/4/2008 5/7/08 5/7/08
Piping	Unspecified	Assumed disposed with USTs/AST	----
Free Product	None identified	----	----
Soil	56.6 tons	Forward Landfill, Manteca, CA	5/9/2008
Groundwater	400 gallons 750 gallons 1,300 gallons	Clearwater Environmental, Inc., Silver Springs, Nevada	3/4/08 4/23/08 5/6/08

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

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	120	120	11,000	2,500
TPH (Diesel)	4,800	340	430,000	16,000
TPH (Motor Oil)	15,000	460	140,000	7,600
Oil and Grease	----	----	----	----
Benzene	<0.005	<0.005	<0.5	<0.5
Toluene	<0.005	<0.005	<0.5	<0.5
Ethylbenzene	0.012	<0.005	<0.5	<0.5
Xylenes	0.055	<0.005	<0.5	<0.5
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	290 <sup>^</sup>	290 <sup>^</sup>	Not Analyzed	Not Analyzed
MTBE	<0.005*	<0.005*	<5.0**	<5.0**
Other (8240/8270)	---	---	---	---

<sup>^</sup> 2.2 ppm Cd; 60 ppm Cr; 120 ppm Pb; 56 ppm Ni; 290 ppm Zn

\* <0.0005 ppm MTBE; <0.1 ppm TBA; <0.005 ppm TAME; <0.005 ppm ETBE; <0.005 ppm DIPE; <0.005 ppm EDB; and <0.005 ppm EDC. EtOH not analyzed.

\*\* <5.0 ppb MTBE; <100 ppb TBA; <5.0 ppb TAME; <5.0 ppb ETBE; <5.0 ppb DIPE; <5.0 ppb EDB; and <5.0 ppb EDC. EtOH not analyzed.

Site History and Description of Corrective Actions:

The site is occupied by S.T. Johnson, an industrial and commercial burner manufacturing company. The site is located near the Emeryville border in an industrial commercial area and is immediately surrounded by streets on three sides with a small industrial facility to the east.

Two underground storage tanks and one above-ground storage tank were removed from the site in March and April 2008. The tanks were cleaned and recycled. Soil samples collected from beneath UST-A (The 1,300 gallon UST) were below all the respective detection limits for all constituents. Initial water samples contained 430,000 µg/L TPHd, 140,000 µg/L TPHmo and 11,000 µg/L TPHg. After dewatering, the water sample contained 16,000 µg/L TPHd, 7,600 µg/L TPHmo, and 160 µg/L TPHg. Samples collected from soil beneath UST-B (425-gallon UST) at 10 feet bgs contained 120 ppm TPHd, 32 ppm TPHmo and 49 ppm TPHg. The soil sample collected at 11 feet bgs contained 15 ppm TPHmo and 26 ppm TPHd. No benzene was detected in any sample collected during the removals. Water samples contained 370 ppb TPHmo, 310 ppb TPHd and 5 ppb TPHg.

Ninyo and Moore performed a preferential pathway survey to identify potential conduits such as utilities and wells. One industrial well was identified within a ¼-mile radius.

On March 12 and 13, 2010, Ninyo and Moore performed a site investigation which included advancing 8 borings. Maximum concentrations of 4,800 ppm TPHd and 15,000 ppm TPHmo were detected in soil samples from the surface near the above-ground storage tank. The consultant stated that these concentrations were likely due to asphalt contained in the sample. No BTEX oxygenates or lead scavengers were detected in soil. Samples collected from groundwater contained maximum concentrations of 2,500 ppb TPHd and TPHg and 560 ppb TPHmo near the location of the 425 gallon UST. No BTEX was detected in groundwater.

On May 1, 2010, Ninyo and Moore advanced boring B-9 adjacent to boring B-8 to confirm the consultant's hypothesis that the TPHmo detected in the previous investigation was asphalt and not representative of soil concentrations. TPHd was detected at 110 ppm and TPHmo was detected at 460 ppm. Soil samples collected from step-out borings B-10 to B-12 were not analyzed since B-9 analytical results were low.

**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.		
<p>Site Management Requirements:</p> <p>Case closure for this fuel leak site is granted for the current commercial land use only. If a change in land use to any residential or other conservative land use scenario occurs at this site, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. ACEH will re-evaluate the case upon receipt of approved development/construction plans.</p> <p>Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.</p> <p>This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.</p>		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? No		Date Recorded: ---
Monitoring Wells Decommissioned: NA	Number Decommissioned: 0	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

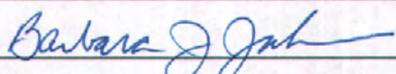
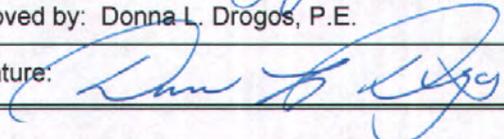
**V. ADDITIONAL COMMENTS, DATA, ETC.**

Considerations and/or Variances: None

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 under the current commercial land use based upon the information available in our files to date. No further investigation or cleanup for the fuel leak case is necessary unless a change in land use to any residential or other conservative land use scenario occurs or construction or excavation activities take place at the site. ACEH staff recommend closure for this site.

**VI. LOCAL AGENCY REPRESENTATIVE DATA**

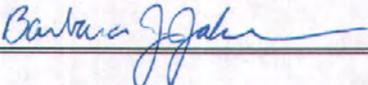
Prepared by: Barbara Jakub, P.G.	Title: Hazardous Materials Specialist
Signature: 	Date: 8/19/2011
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: 	Date: 08/25/11

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

**VII. REGIONAL BOARD NOTIFICATION**

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: 8/25/11	

**VIII. MONITORING WELL DECOMMISSIONING**

Date Requested by ACEH: NA	Date of Well Decommissioning Report: NA	
All Monitoring Wells Decommissioned: NA	Number Decommissioned: 0	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: NA		
ACEH Concurrence - Signature: 	Date: 10/3/11	

**Attachments:**

1. Site Vicinity Map (2 pp)
2. Site Plans (7 pp)
3. Soil Analytical Data (2 pp)
4. Groundwater Analytical Data (1 pp)
5. Boring Logs (10 pp)

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

## Jakub, Barbara, Env. Health

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**From:** Cherie McCaulou [CMccaulou@waterboards.ca.gov]  
**Sent:** Thursday, August 25, 2011 5:03 PM  
**To:** Jakub, Barbara, Env. Health  
**Subject:** Re: RO2983 Case Closure

Barbara - Thank you for the notification that ACEH is closing this case. The Regional Board staff has no objection to the case closure for 925 Stanford Avenue, Oakland, Alameda County.

Sincerely,

Cherie McCaulou  
Engineering Geologist  
San Francisco Bay Regional Water Quality Control Board  
[cmccaulou@waterboards.ca.gov](mailto:cmccaulou@waterboards.ca.gov)  
510-622-2342

>>> "Jakub, Barbara, Env. Health" <[barbara.jakub@acgov.org](mailto:barbara.jakub@acgov.org)> 8/25/2011 4:25 PM >>>

Hello Cherie,

Attached is a closure summary for RO00002983: Wilbett Company, located at 925 Stanford Avenue, Oakland, CA to comply with the RWQCB's 30-day review period. If no comments from the RWQCB are received within the 30-day review period, ACEH will proceed with case closure.

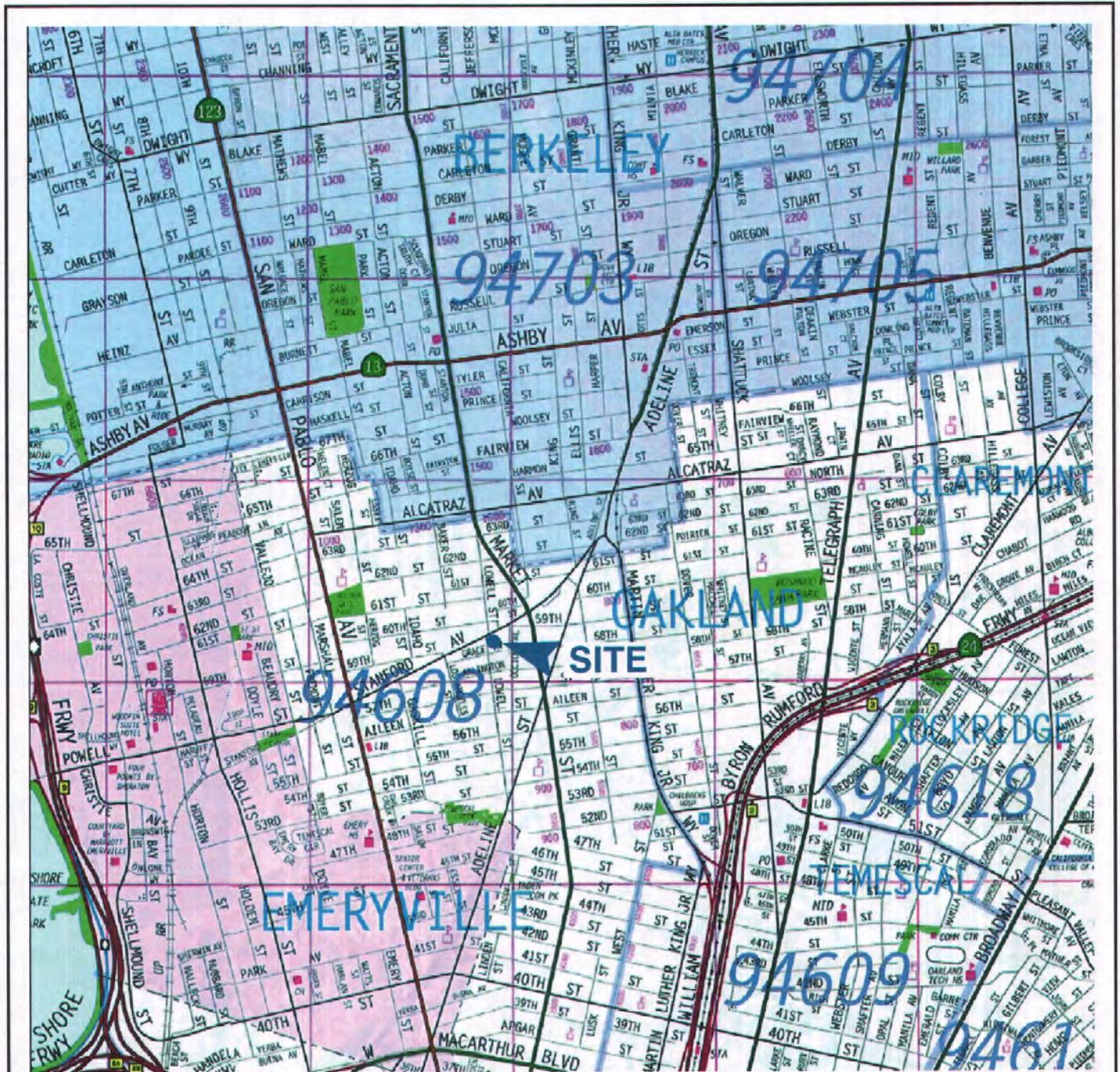
Please contact me should you have any comments or questions regarding the subject site.

Sincerely,

Barbara Jakub, P.G.  
Hazardous Materials Specialist  
Alameda County Environmental Health  
1131 Harbor Bay Pky.  
Alameda, CA 94502  
Direct: 510-639-1287  
Fax: 510-337-9335

PDF copies of case files can be downloaded at:

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



REFERENCE: METRO AREAS OF ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO, AND SANTA CLARA COUNTIES, THOMAS GUIDE, 2008.



APPROXIMATE SCALE IN FEET

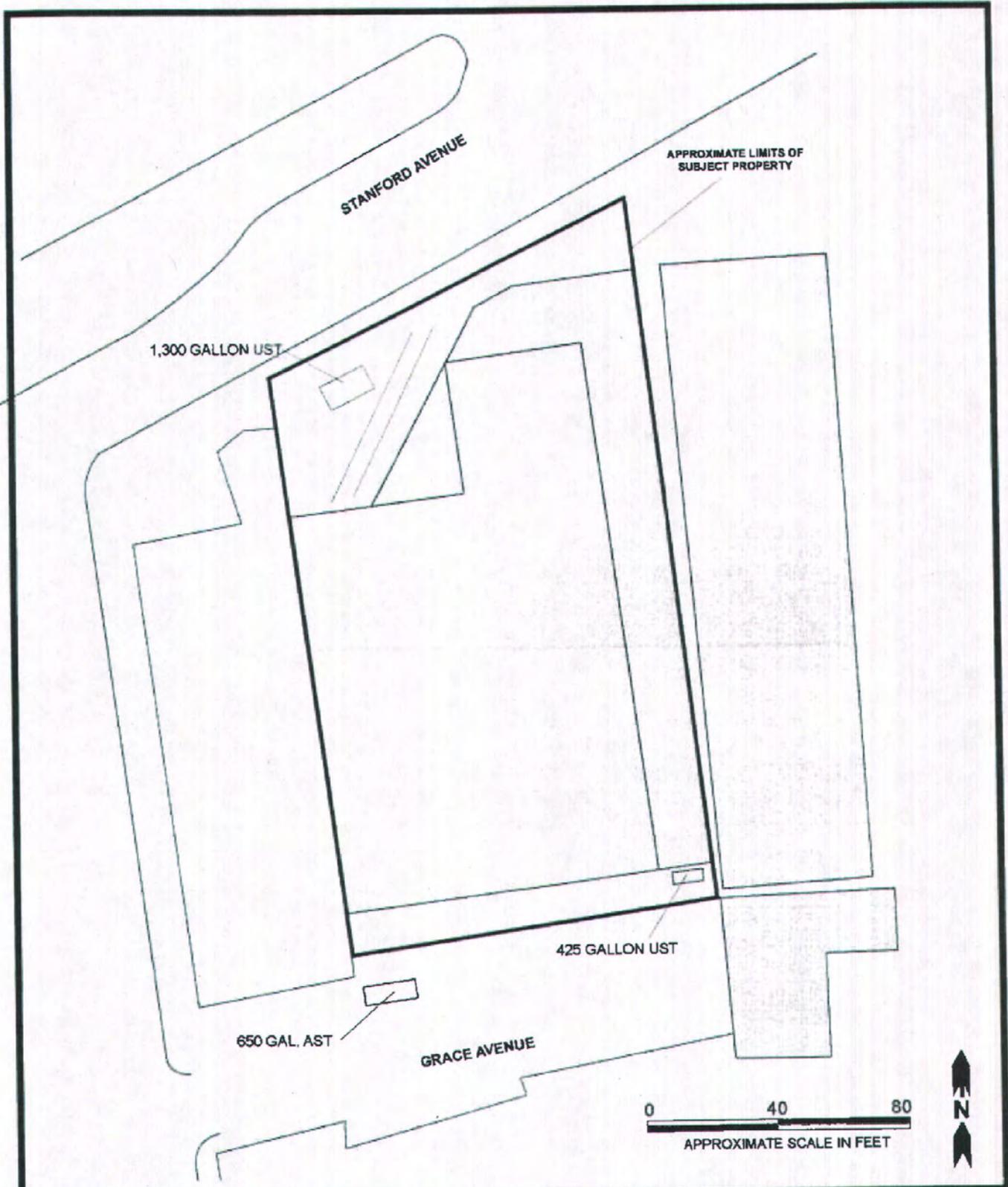


NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

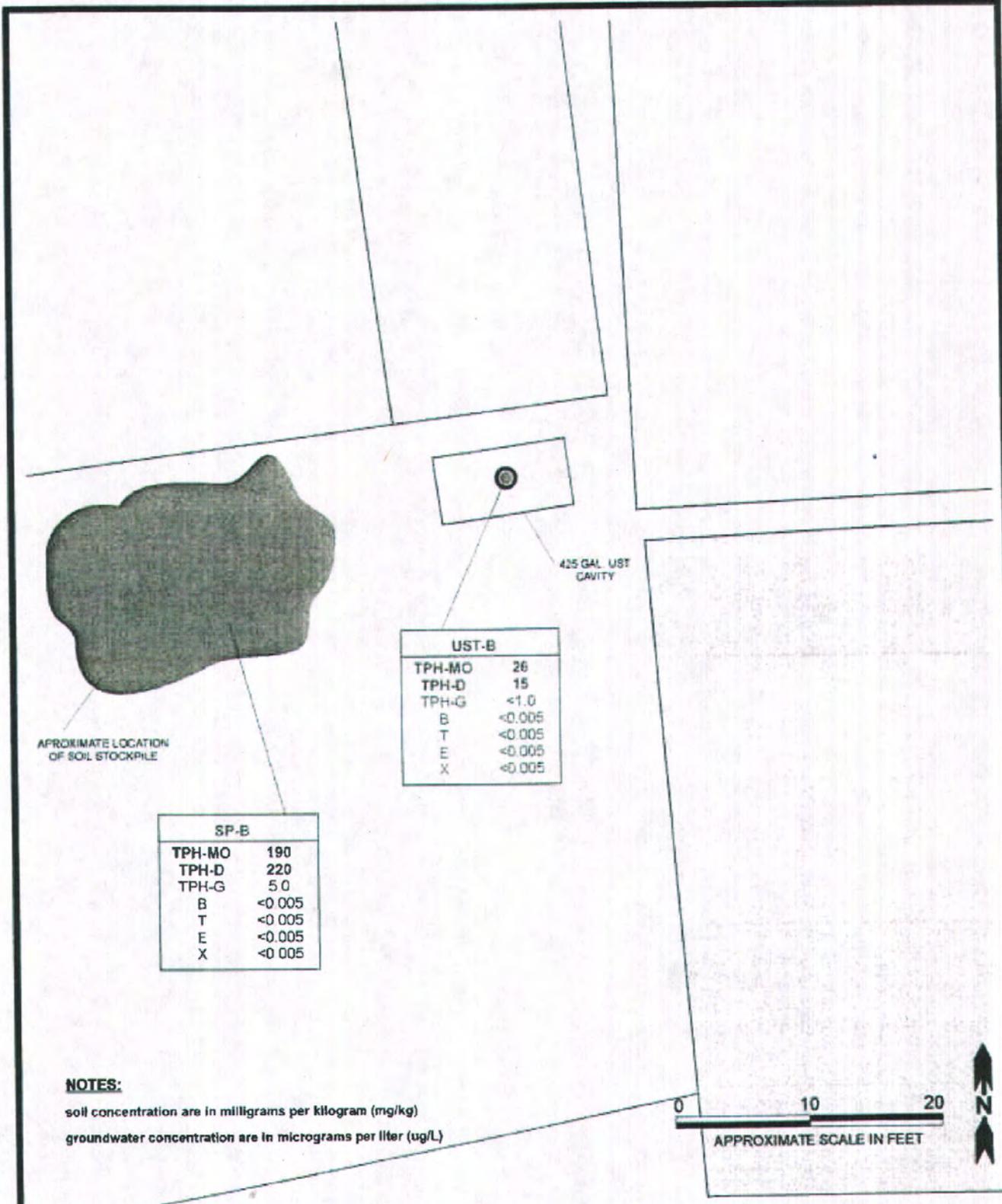
<b>Ninyo &amp; Moore</b>		<b>SITE LOCATION MAP</b>	FIGURE
PROJECT NUMBER	DATE	SOIL AND GROUNDWATER INVESTIGATION REPORT 925 STANFORD AVENUE OAKLAND, CALIFORNIA	<b>1</b>
401559002	6/10		



RO0002983 Wilbett Company and Site Vicinity Map



DESIGNED BY:	CHECKED BY:	<b>SITE PLAN</b> WILBETT COMPANY UST SITE 925 STANFORD AVENUE OAKLAND, CALIFORNIA	DATE: 05/18/2008	FIGURE: 2
DRAWN BY: MAR	SCALE:			
PROJECT NO: 354-01-01				



APPROXIMATE LOCATION OF SOIL STOCKPILE

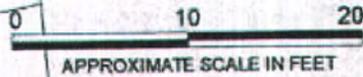
425 GAL UST CAVITY

UST-B	
TPH-MO	26
TPH-D	15
TPH-G	<1.0
B	<0.005
T	<0.005
E	<0.005
X	<0.005

SP-B	
TPH-MO	190
TPH-D	220
TPH-G	5.0
B	<0.005
T	<0.005
E	<0.005
X	<0.005

**NOTES:**

soil concentration are in milligrams per kilogram (mg/kg)  
 groundwater concentration are in micrograms per liter (ug/L)

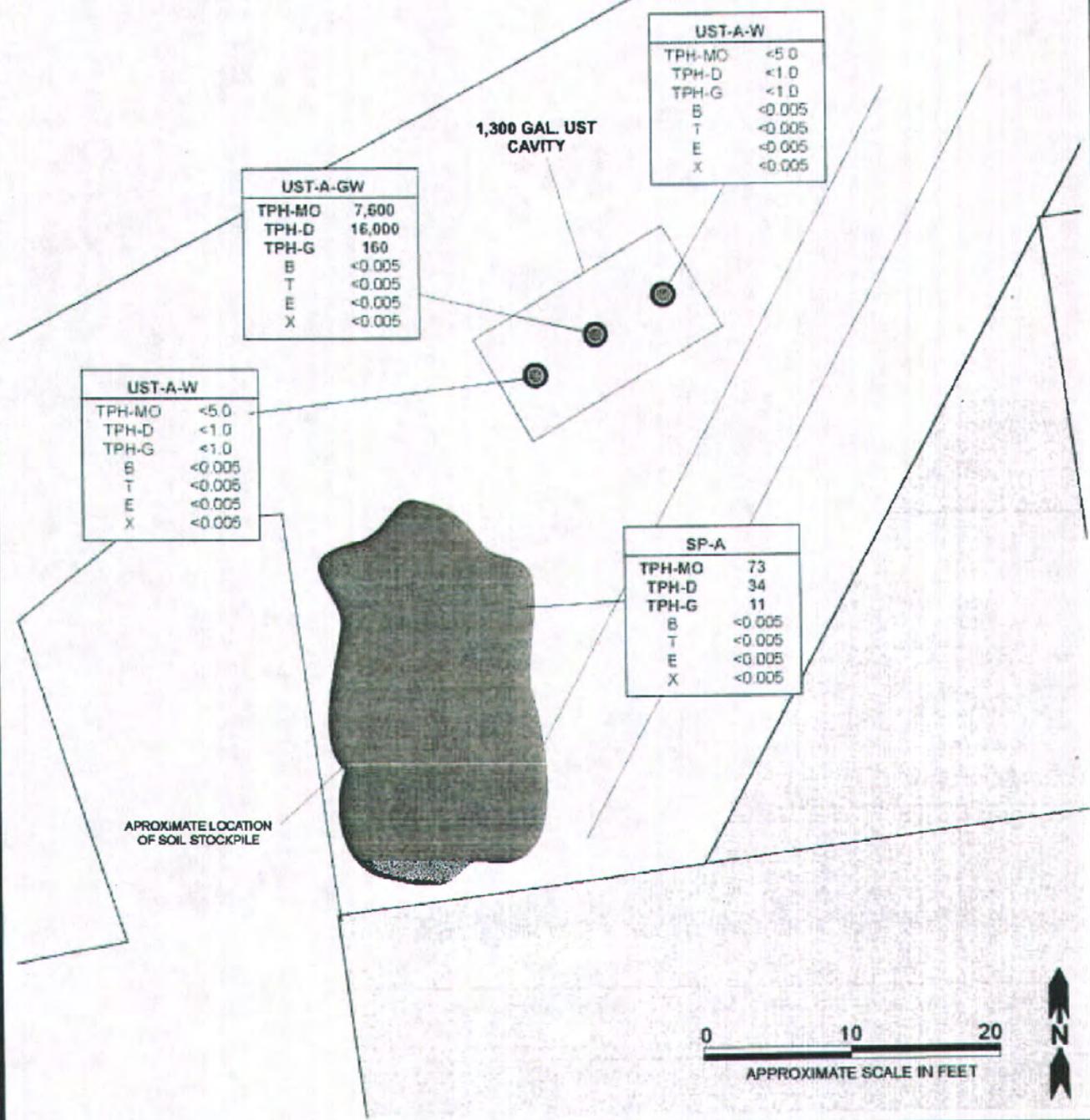


DESIGNED BY:	CHECKED BY:	<b>CONFIRMATION AND STOCKPILE SAMPLING RESULTS - 425 GALLON UST</b>  WILBETT COMPANY UST SITE 925 STANFORD AVENUE OAKLAND, CALIFORNIA	DATE: 05/16/2008	FIGURE: 4
DRAWN BY: MAR	SCALE:			
PROJECT NO: 354-01-01				

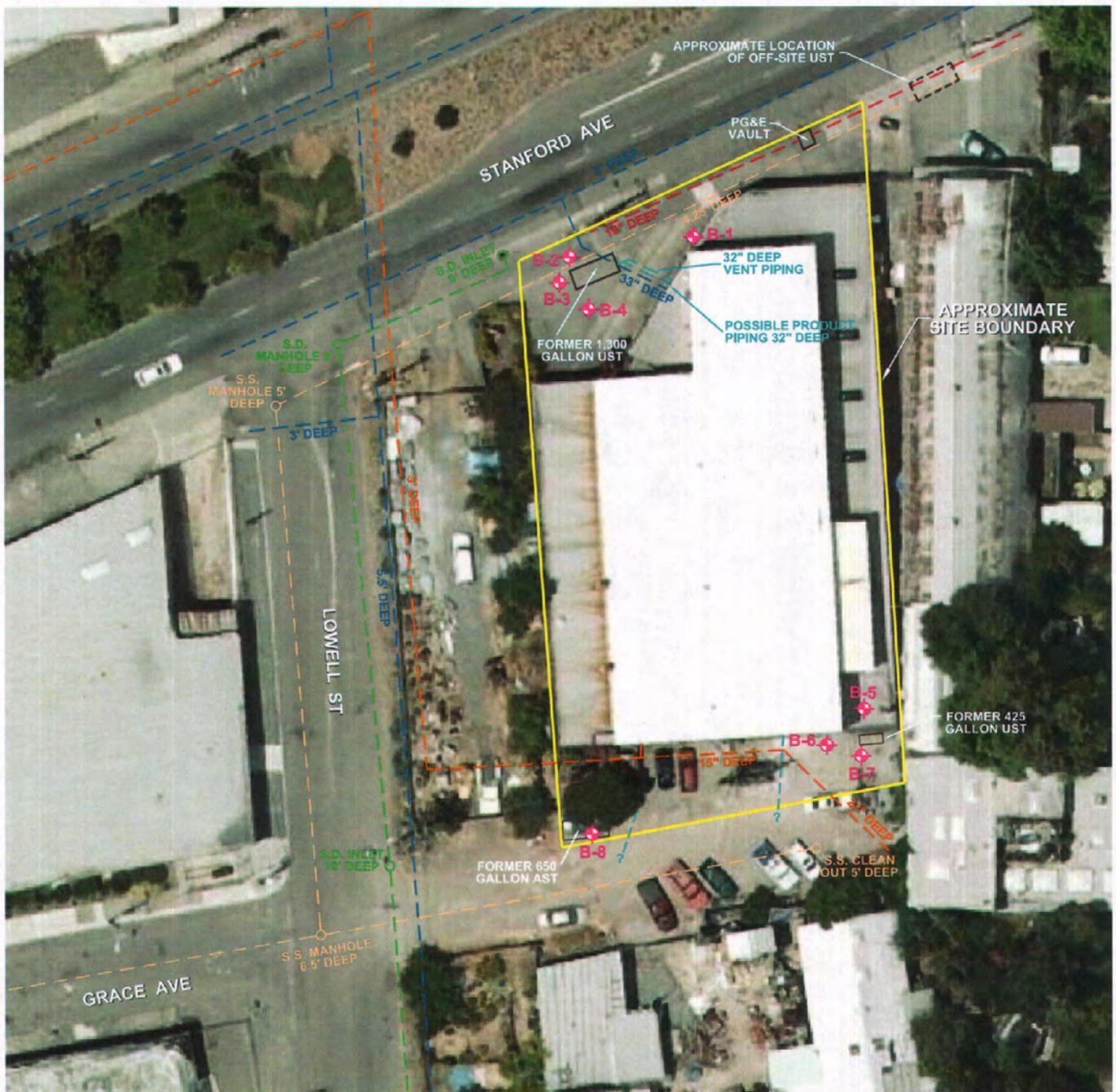
**NOTES:**

soil concentration are in milligrams per kilogram (mg/kg)

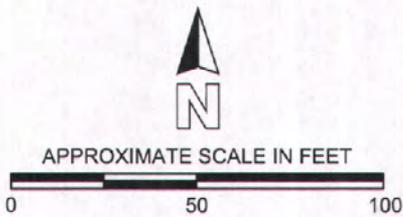
groundwater concentration are in micrograms per liter (ug/L)



DESIGNED BY:	CHECKED BY:	<b>CONFIRMATION AND STOCKPILE SAMPLING RESULTS - 1,300 GALLON UST</b>  WILBETT COMPANY UST SITE 925 STANFORD AVENUE OAKLAND, CALIFORNIA	DATE: 05/18/2008	FIGURE: 3
DRAWN BY: MAR	SCALE:			
PROJECT NO: 354-01-01				



REFERENCE: GOOGLE EARTH, 2010.



NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND			
<span style="color: red;">---</span>	ELECTRIC LINE	<span style="color: green;">---</span>	STORM DRAIN
<span style="color: orange;">---</span>	GAS LINE	<span style="color: cyan;">---</span>	OTHER PIPELINES
<span style="color: blue;">---</span>	WATER LINE	<span style="color: red;">◆</span>	APPROXIMATE LOCATION OF BORING
<span style="color: yellow;">---</span>	SANITARY SEWER		

**Ninyo & Moore**

**BORING LOCATION MAP**

FIGURE

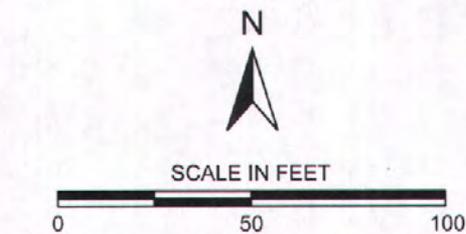
PROJECT NUMBER	DATE
401559002	6/10

SOIL AND GROUNDWATER INVESTIGATION REPORT  
925 STANFORD AVENUE  
OAKLAND, CALIFORNIA

**2**



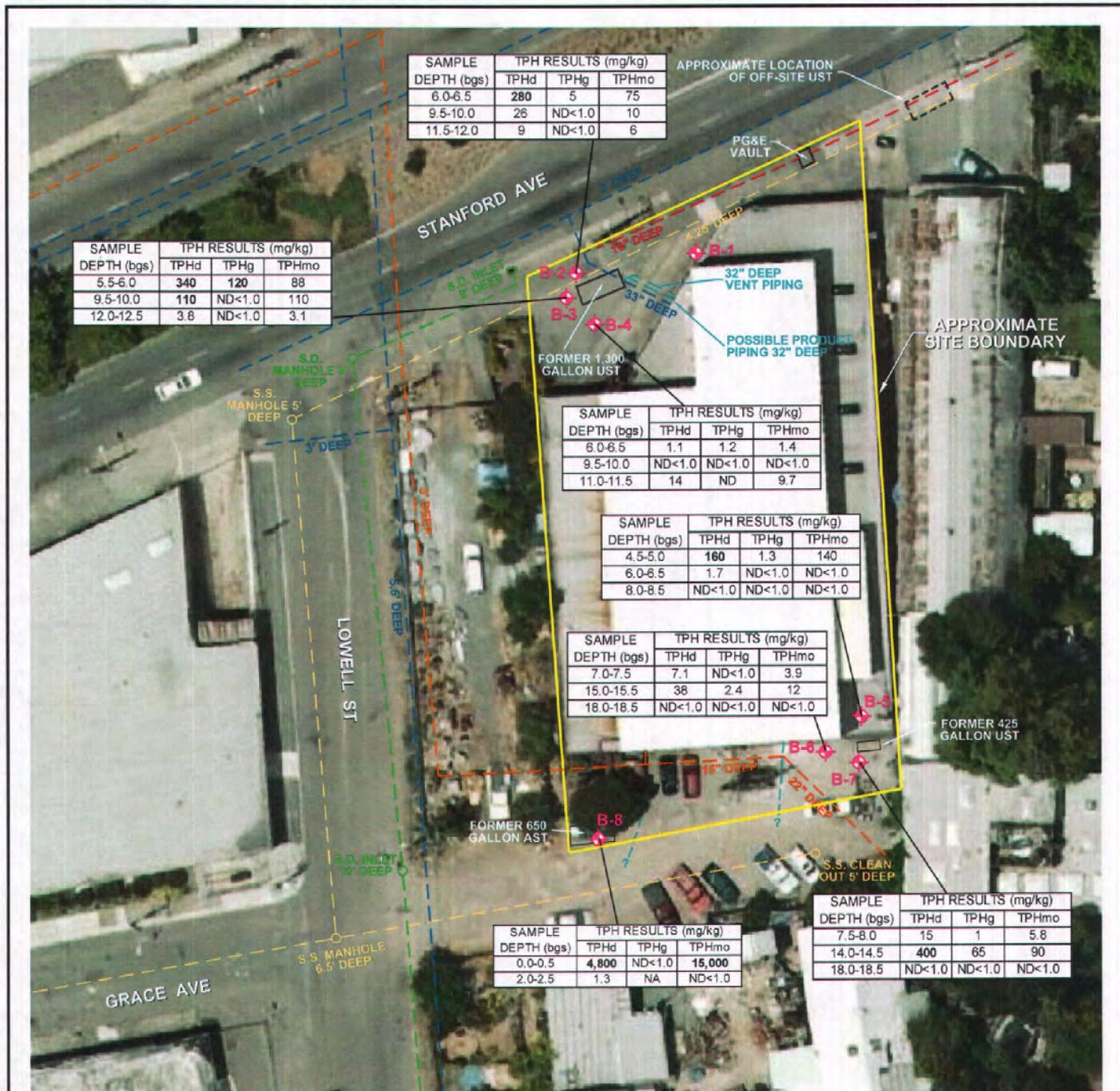
REFERENCE: GOOGLE EARTH, 2010.



NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND	
	ELECTRIC LINE
	GAS LINE
	WATER LINE
	SANITARY SEWER
	STORM DRAIN
	OTHER PIPELINES
	B-8  APPROXIMATE LOCATION OF 2010 BORING
	B-12  APPROXIMATE LOCATION OF 2011 BORING

		<b>BORING LOCATIONS</b> ADDITIONAL SITE ASSESSMENT REPORT 925 STANFORD AVENUE OAKLAND, CALIFORNIA	FIGURE
			<b>2</b>
PROJECT NUMBER	DATE		
401559003	5/11		



REFERENCE: GOOGLE EARTH, 2010.

LEGEND			
---	ELECTRIC LINE	B-8	APPROXIMATE LOCATION OF BORING
---	GAS LINE	bgs	FEET BELOW GROUND SURFACE
---	WATER LINE	ND<	INDICATES CONCENTRATION BELOW LABORATORY DETECTION LIMITS
---	SANITARY SEWER	NA	NOT ANALYZED
---	STORM DRAIN	mg/kg	MILLIGRAMS PER KILOGRAM
---	OTHER PIPELINES	ESLs =	83 mg/kg FOR TPHd & TPHg AND 2,500 mg/kg FOR TPHmo
<b>BOLD</b>			INDICATES CONCENTRATION EXCEEDING ESL
TPHd			TOTAL PETROLEUM HYDROCARBONS AS DIESEL
TPHg			TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPHmo			TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL



APPROXIMATE SCALE IN FEET



NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

		<b>SOIL SAMPLE ANALYTICAL RESULT FOR TPHg, TPHd, AND TPHmo</b>		FIGURE  <b>3</b>
		SOIL AND GROUNDWATER INVESTIGATION REPORT 925 STANFORD AVENUE OAKLAND, CALIFORNIA		
PROJECT NUMBER	DATE			
401559002	6/10			



REFERENCE: GOOGLE EARTH, 2010.

LEGEND			
	ELECTRIC LINE		B-8 APPROXIMATE LOCATION OF BORING
	GAS LINE	ND<	INDICATES CONCENTRATION BELOW LABORATORY DETECTION LIMITS
	WATER LINE	<b>BOLD</b>	INDICATES CONCENTRATION EXCEEDING ESL
	SANITARY SEWER	mg/L	MILLIGRAMS PER LITER
	STORM DRAIN		
	OTHER PIPELINES		
		TPHd	TOTAL PETROLEUM HYDROCARBONS AS DIESEL
		TPHg	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
		TPHmo	TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
		ESLs = 0.1 mg/L for TPHd, TPHg & TPHmo	



APPROXIMATE SCALE IN FEET



NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

<b>Ninyo &amp; Moore</b>		<b>GROUNDWATER SAMPLE ANALYTICAL RESULTS FOR TPHg, TPHd, AND TPHmo</b>	FIGURE
PROJECT NUMBER	DATE	SOIL AND GROUNDWATER INVESTIGATION REPORT 925 STANFORD AVENUE OAKLAND, CALIFORNIA	<b>4</b>
401559002	6/10		

**Table 1**  
**SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS**  
 925 Stanford Avenue  
 Oakland, California

Sample ID	Sample Matrix	Sample Depth	Concentration - Soil: milligrams per kilogram (mg/kg), Water: micrograms per liter (ug/L)						
			TPH-MO	TPH-D	TPH-G	B	T	E	X
<b>PRELIMINARY SAMPLING RESULTS</b>									
UST-A-W	Soil	10.0 feet	<1.0	<5.0	<1.0	<0.005	<0.005	<0.005	<0.005
UST-A-E	Soil	10.0 feet	<1.0	<5.0	<1.0	<0.005	<0.005	<0.005	<0.005
UST-A	Water	--	140,000	430,000	11,000	<0.5	<0.5	<0.5	<0.5
UST-B-8.0'	Soil	8.0 feet	370	390	43	<0.005	<0.005	0.012	0.055
UST-B-10.0'	Soil	10.0 feet	32	120	49	<0.05	<0.05	<0.05	<0.05
UST-B	Water	--	370	310	<50	<0.5	<0.5	<0.5	<0.5
SP-A	Soil	--	73	34	11	<0.005	<0.005	<0.005	<0.005
SP-B	Soil	--	190	220	5.0	<0.005	<0.005	<0.005	<0.005
<b>CONFIRMATION SAMPLING RESULTS</b>									
UST-A-E	Soil	11.0 feet	<5.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005
UST-A-W	Soil	11.0 feet	<5.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005
UST-A-GW	Water	--	7,600	16,000	160	<0.5	<0.5	<0.5	<0.5
UST-B	Soil	11.0 feet	15	26	<1.0	<0.005	<0.005	<0.005	<0.005
ESL-soil, non-drinking water, Res			410	100	100	0.12	29	33	31
ESL-soil, non-drinking water, C&I			2,500	150	450	0.26	29	33	100
ESL-GW, non-drinking water			2,500	2,500	5,000	540	400	300	5,300

**Table Notes:**

TPH-MO = total petroleum hydrocarbons as motor oil  
 TPH-D = total petroleum hydrocarbons as diesel  
 TPH-G = total petroleum hydrocarbons as gasoline  
 B = benzene  
 T = toluene  
 E = ethylbenzene  
 X = xylenes

<0.050 = Not detected above the expressed value.  
 ESL = Environmental Screening Level, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, November 2007.  
 Res = Residential land use  
 CI = Commercial/Industrial land use

TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS FOR TPH AND VOCs

Sample ID	Date Sample Collected	Sample Depth (feet bgs)	TPH Analytical Results (mg/kg)			VOCs Analytical Results (µg/kg)											
			TPH diesel	TPH gasoline	TPH motor oil	1,2-Dibromoethane	1,2-Dichloroethane	Benzene	Diisopropyl ether	Ethyl tert-butyl ether	Ethyl-benzene	mp-xylenes	Methyl tert-butyl ether	o-Xylenes	Tert-amyl methyl ether	Tert-Butanol	Toluene
B-2-6.0-6.5	5/12/2010	6.0-6.5	280	5	75	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-2-9.5-10.0	5/12/2010	9.5-10.0	26	ND<1.0	10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-2-11.5-12.0	5/12/2010	11.5-12.0	9	ND<1.0	6	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-3-3.5-6.0	5/12/2010	5.5-6.0	340	120	88	ND<250	ND<250	ND<230	ND<250	ND<250	ND<250	ND<250	ND<250	ND<250	ND<250	ND<250	ND<250
B-3-9.5-10.0	5/12/2010	9.5-10.0	110	ND<1.0	110	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-3-12.0-12.5	5/12/2010	12.0-12.5	3.8	ND<1.0	3.1	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-4-6.0-6.5	5/12/2010	6.0-6.5	1.1	1.2	1.4	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-4-9.5-10.0	5/12/2010	9.5-10.0	ND<1.0	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-4-11.0-11.5	5/12/2010	11.0-11.5	14	ND	9.7	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-5-4.5-5.0	5/12/2010	4.5-5.0	160	1.3	140	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-5-6.0-6.5	5/12/2010	6.0-6.5	1.7	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-5-8.0-8.5	5/12/2010	8.0-8.5	ND<1.0	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-6-7.0-7.5	5/12/2010	7.0-7.5	7.1	ND<1.0	3.9	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-6-15.0-15.5	5/12/2010	15.0-15.5	38	2.4	12	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-6-18.0-18.5	5/12/2010	18.0-18.5	ND<1.0	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-7-7.5-8.0	5/12/2010	7.5-8.0	15	1.0	5.8	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-7-14.0-14.5	5/12/2010	14.0-14.5	400	65	90	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-7-19.0-19.5	5/12/2010	19.0-19.5	ND<1.0	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-8-0.0-0.5	5/12/2010	0.0-0.5	4,800	ND<1.0	15,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-8-2.0-2.5	5/12/2010	2.0-2.5	1.3	NA	ND<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B-9-0.0-0.5	5/12/2010	2.0-2.5	110	NA	460	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Commercial/Industrial	ESLs		83	83	2,500	0.33	4.5	44	NA	NE	2,300*	23	2,300*	75	NA	NA	NA
Direct Exposure	ESLs		450	450	3,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
 TPH - Total Petroleum Hydrocarbons analyzed by EPA Method 8015B  
 VOCs = volatile organic compounds analyzed by EPA Method 8260B  
 CIL ESLs - Shallow Soil Environmental Screening Levels for commercial land use where groundwater is a potential drinking water resource (ESLs Table A-2).  
 Direct Exposure ESLs - Direct Exposure Soil Screening Levels for commercial/industrial worker exposure scenario (ESLs Table K-2)  
**Bold** indicates concentration in excess of ESL  
 mg/kg - milligrams per kilogram  
 µg/kg - micrograms per kilogram  
 \* - indicates the ESL for total xylenes was used as there are no specific ESLs for o-xylenes or m-p-xylenes  
 NE - indicates that an ESL does not exist  
 bgs - below ground surface  
 NA - not analyzed or not applicable  
 ND< - indicates concentration below laboratory detection limits



TABLE 2 - GROUNDWATER SAMPLE ANALYTICAL RESULTS FOR TPH AND VOCs

Sample ID	Sample Date	VOCs Analytical Results (µg/L)														
		TPH Analytical Results (mg/L)			1,2-Dibromoethane	1,2-Dichloroethane	Benzene	Di-isopropyl ether	Ethyl tert-butyl ether	Ethyl-benzene	mp-xylenes	Methyl tert-butyl ether	o-Xylenes	Tert-amyl methyl ether	Tert-Butanol	Toluene
		TPH-d	TPH-g	TPH-mo												
B-1-GW	5/12/2010	ND<0.053	ND<0.050	ND<0.053	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B-2-GW	5/12/2010	0.072	ND<0.050	ND<0.053	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B-3-GW	5/12/2010	0.21	ND<0.050	0.087	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B-4-GW	5/12/2010	0.53	ND<0.050	0.43	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B-5-GW	5/12/2010	0.57	0.061	0.35	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B-6-GW	5/13/2010	2.3	0.61	0.54	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<20	ND<1.0
B-7-GW	5/13/2010	2.5	2.5	0.56	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<100	ND<5.0
ESLs		0.1	0.1	0.1	0.05	0.5	1	NE	NE	30	20*	5	20*	NE	12	40

Notes:  
 TPH = total petroleum hydrocarbons analyzed by EPA Method 8015B  
 VOCs = volatile organic compounds analyzed by EPA Method 8260B  
 mg/L = milligrams per liter  
 µg/L = micrograms per liter  
 \* - indicates the ESL for total xylenes was used as there are no specific ESLs for o-xylenes or mp-xylenes  
 ESLs - Groundwater Environmental Screening Levels (groundwater is a potential drinking water source)  
 NE - indicates that an ESL does not exist  
**ND** indicates concentration in excess of ESL  
**ND<** indicates concentration below laboratory detection limits

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
	Bulk	Driven							5/12/2010	B-1	
									GROUND ELEVATION	SHEET	OF
									60' ± MSL	1	1
									METHOD OF DRILLING		
									HAND AUGER/DIRECT PUSH		
									DRIVE WEIGHT	DROP	
									SAMPLED BY	LOGGED BY	REVIEWED BY
									CRA	CRA	KML
									DESCRIPTION/INTERPRETATION		
0									CONCRETE: Approximately 6 inches thick.		
						0		CL	FILL: Dark brown, moist, silty sandy CLAY with gravel.		
						0					
						0		CL	ALLUVIUM: Brown, moist, stiff, sandy CLAY.		
						0			Brown, moist, sandy gravelly CLAY.		
5						0			Brown, moist, stiff, sandy CLAY.		
						0					
						0					
						0					
						0					
						0					
						0					
						0					
						0					
						0					
						0					
						0		SC	Brown, wet, clayey SAND.		
						0		CL	Brown, wet, sandy CLAY.		
15						0					
									Final depth = 17 feet bgs.		
									Groundwater encounter at 12.75 feet bgs.		
									Boring tremie grouted on 5/12/2010.		
20											

**Ninyo & Moore**

**BORING LOG**

PREFERENTIAL PATHWAY SURVEY & SITE ASSESSMENT WORK PLAN  
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401559002

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6/10

FIGURE

DEPTH (feet)	BULK SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>5/12/2010</u> BORING NO. <u>B-2</u>	
								GROUND ELEVATION <u>60' ± MSL</u> SHEET <u>1</u> OF <u>1</u>	
METHOD OF DRILLING <u>HAND AUGER/DIRECT PUSH</u>								DRIVE WEIGHT _____ DROP _____	
SAMPLED BY <u>CRA</u> LOGGED BY <u>CRA</u> REVIEWED BY <u>KML</u>								DESCRIPTION/INTERPRETATION	
0					0		SC	<u>ASPHALT</u> : Approximately 3 inches thick. <u>FILL</u> : Brown, moist, gravelly clayey SAND.	
					0		CL	<u>CONCRETE</u> : Approximately 3 inches thick. <u>FILL</u> : Dark brown, moist, silty sandy CLAY with gravel. Brown, moist, stiff, sandy CLAY with gravel.	
					0				
					0				
					0				
5					6.6			Gray staining.	
					30.7				
					1.6		CL	<u>ALLUVIUM</u> : Gray, moist, stiff, silty sandy CLAY.	
					1.8				
					8.9			Brown.	
10					0.5				
					0			Wet.	
					0				
					0				
15					0		SC	Brown, wet, clayey SAND.	
					0				
					0		CL	Brown, wet, clayey SAND with gravel. Brown, moist, very stiff, sandy CLAY.	
					0				
								Final depth = 18 feet bgs. Groundwater encountered at 6.81 feet bgs. Boring tremie grouted on 5/12/2010.	
20									



**BORING LOG**

PREFERENTIAL PATHWAY SURVEY & SITE ASSESSMENT WORK PLAN  
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FIGURE

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>5/12/2010</u> BORING NO. <u>B-3</u>	
	Bulk	Driven							GROUND ELEVATION <u>60' ± MSL</u>	SHEET <u>1</u> OF <u>1</u>
									METHOD OF DRILLING <u>HAND AUGER/DIRECT PUSH</u>	
									DRIVE WEIGHT _____ DROP _____	
									SAMPLED BY <u>CRA</u> LOGGED BY <u>CRA</u> REVIEWED BY <u>KML</u>	
DESCRIPTION/INTERPRETATION										
0						0		SC	ASPHALT: Approximately 3 inches thick.	
						0		CL	FILL: Brown, moist, gravelly clayey SAND. Gray/black, moist, silty sandy CLAY with gravel.	
						0			Gray.	
						0				
						36.2		SC	Gray stained, moist, gravelly clayey SAND.	
5						46.5				
						112		CL	Gray stained, moist, sandy gravelly CLAY.	
						100				
						23				
						13.5		SC	ALLUVIUM: Brown, moist, clayey SAND with some gravel.	
10						1.7			Wet.	
						0.7				
						0.6		CL	Brown, wet, sandy CLAY.	
						0.6				
						0.4				
15									Final depth = 15 feet bgs.	
									Groundwater encountered at 10.2 feet bgs.	
									Boring tremie grouted on 5/12/2010.	
20										

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PREFERENTIAL PATHWAY SURVEY & SITE ASSESSMENT WORK PLAN  
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FIGURE

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	GENERAL INFORMATION		
	Bulk	Driven							DATE DRILLED	BORING NO.	DESCRIPTION/INTERPRETATION
									5/12/2010	B-4	
									60' ± MSL	SHEET 1	OF 1
									METHOD OF DRILLING DIRECT PUSH		
										DROP	
									CRA	CRA	KML
0									DESCRIPTION/INTERPRETATION		
									ASPHALT: Approximately 3 inches thick.		
								SC	CONCRETE: Approximately 3 inches thick.		
								CL	FILL: Brown, moist, gravelly clayey SAND. Dark brown, moist, silty sandy CLAY with gravel.		
5								ML	ALLUVIUM: Black, moist, wet, clayey sandy SILT.		
10								CL	Gray, moist, silty sandy CLAY.  Brown, moist, stiff, sandy CLAY.		
15									Final depth = 17 feet bgs.		
									Groundwater encountered at 5.8 feet bgs.		
									Boring tremie grouted on 5/12/2010.		
20											



**BORING LOG**

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FIGURE

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.
	Bulk	Driven							5/12/2010	B-5
									GROUND ELEVATION	SHEET
									60' ± MSL	1 OF 1
									METHOD OF DRILLING	
									HAND AUGER/DIRECT PUSH	
									DRIVE WEIGHT	DROP
									SAMPLED BY	LOGGED BY
									CRA	CRA
									REVIEWED BY	KML
									DESCRIPTION/INTERPRETATION	
0									CONCRETE: Approximately 6 inches thick.	
						0		CL	FILL: Brown, moist, silty sandy CLAY with gravel.	
						0		CL	ALLUVIUM: Gray, moist, stiff, silty sandy CLAY.	
						0				
						3.6				
						18.6		ML	Gray, moist, stiff, clayey sandy SILT.	
5						0.3		CL	Brown, moist, very stiff, sandy CLAY.	
						0				
						0		SC	Brown, wet, clayey gravelly SAND.	
						0		CL	Brown, wet, sandy CLAY.	
10									Final depth = 10 feet bgs.	
									Groundwater encountered at 2.8 feet bgs.	
									Boring tremie grouted on 5/12/2010.	
15										
20										

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**BORING LOG**

PREFERENTIAL PATHWAY SURVEY & SITE ASSESSMENT WORK PLAN  
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FIGURE

DEPTH (feet)	Bulk Driven SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
								5/12/2010	B-6	
								GROUND ELEVATION	SHEET	OF
								60' ± MSL	1	2
								METHOD OF DRILLING		
								DIRECT PUSH		
								DRIVE WEIGHT	DROP	
								SAMPLED BY		
								CRA		
								LOGGED BY	REVIEWED BY	
								CRA		
								KML		
								DESCRIPTION/INTERPRETATION		
0								CONCRETE: Approximately 11 inches thick.		
					0		ML	FILL: Black, sandy clayey SILT with gravel.		
					0		CL	ALLUVIUM: Gray, moist, stiff, silty sandy CLAY.		
					0		ML	Gray, moist, stiff, clayey sandy SILT.		
					0		CL	Brown, moist, very stiff, sandy CLAY.		
5					0			Wet.		
					0					
					0					
					0					
					0					
					0.1					
					1.5					
15					5.6		SC	Gray staining. Brown with gray staining, moist, clayey gravelly SAND.		
					2.5			Brown.		
					1.8			Gray staining.		
					0		CL	Brown. Brown, moist, stiff, sandy CLAY.		
20					0					

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**BORING LOG**

PREFERENTIAL PATHWAY SURVEY & SITE ASSESSMENT WORK PLAN  
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FIGURE

DEPTH (feet)	Bulk	SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>5/12/2010</u>	BORING NO. <u>B-6</u>
	Driven								GROUND ELEVATION <u>60' ± MSL</u>	SHEET <u>2</u> OF <u>2</u>
									METHOD OF DRILLING <u>DIRECT PUSH</u>	
									DRIVE WEIGHT _____ DROP _____	
									SAMPLED BY <u>CRA</u> LOGGED BY <u>CRA</u> REVIEWED BY <u>KML</u>	
									DESCRIPTION/INTERPRETATION	
20									Final depth = 20 feet bgs.	
									Groundwater encountered at 13.5 feet bgs.	
									Boring tremie grouted on 5/13/2010.	
25										
30										
35										
40										



**BORING LOG**

PREFERENTIAL PATHWAY SURVEY & SITE ASSESSMENT WORK PLAN  
925 STANFORD AVENUE - OAKLAND, CALIFORNIA

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FIGURE

DEPTH (feet)	Bulk Driven	SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>5/12/2010</u> BORING NO. <u>B-7</u>		
									GROUND ELEVATION <u>60' ± MSL</u> SHEET <u>1</u> OF <u>2</u>		
									METHOD OF DRILLING <u>DIRECT PUSH</u>		
									DRIVE WEIGHT _____ DROP _____		
									SAMPLED BY <u>CRA</u> LOGGED BY <u>CRA</u> REVIEWED BY <u>KML</u>		
									DESCRIPTION/INTERPRETATION		
0									<u>CONCRETE</u> : Approximately 6 inches thick.		
						0		CL	<u>FILL</u> : Black, moist, silty sandy CLAY with gravel.		
						0		CL	<u>ALLUVIUM</u> : Gray, moist, stiff, silty sandy CLAY.		
						0					
5						0			Brown.		
						0					
						67.8			Gray staining.		
						37.3					
10						45					
						87.3					
						56					
						61					
						437		SC	Gray stained, moist, clayey gravelly SAND.		
15						225			Brown/gray.		
						50.5					
						8.9					
						3.6			Brown.		
						1.8					
20						0.8					



**BORING LOG**

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FIGURE

DEPTH (feet)	Bulk Driven	SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
									5/12/2010	B-7	
									GROUND ELEVATION	SHEET	OF
									60' ± MSL	2	2
									METHOD OF DRILLING		
									DIRECT PUSH		
									DRIVE WEIGHT	DROP	
									SAMPLED BY	LOGGED BY	REVIEWED BY
									CRA	CRA	KML
									DESCRIPTION/INTERPRETATION		
20						0.8			<u>ALLUVIUM</u> : (continued) Brown, moist, clayey gravelly SAND.		
									Final depth = 21.5 feet bgs.  Groundwater encounter at 3.2 feet bgs.  Boring tremie grouted on 5/13/2010.		
25											
30											
35											
40											



**BORING LOG**

PREFERENTIAL PATHWAY SURVEY & SITE ASSESSMENT WORK PLAN  
 925 STANFORD AVENUE - OAKLAND, CALIFORNIA

PROJECT NO.  
401559002

DATE  
6/10

FIGURE

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION	
	Bulk	Driven							DATE DRILLED	BORING NO.
									5/12/2010	B-8
									60' ± MSL	SHEET 1 OF 1
									METHOD OF DRILLING DIRECT PUSH	
										DROP
									CRA	CRA
									CRA	KML
0	X					0		SC	FILL: Brown, moist, gravelly clayey SAND.	
						0		CL	ALLUVIUM: Brown, moist, stiff, sandy CLAY.	
						0				
						0				
						0				
5									Final depth = 5 feet bgs.  Groundwater not encounter.  Boring grouted on 5/12/2010.	
10										
15										
20										



**BORING LOG**

PREFERENTIAL PATHWAY SURVEY & SITE ASSESSMENT WORK PLAN  
925 STANFORD AVENUE - OAKLAND, CALIFORNIA

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FIGURE