



October 26, 1999  
Project: FA03

Mr. Don Hwang  
Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Re: *Soil and Groundwater Investigation Report*  
265 30<sup>TH</sup> Street  
Oakland, California

Ro438  
Nemo 3/16/02  
Di (AS)

99OCT 27 PM 4: 22  
ENVIRONMENTAL  
PROTECTION

Dear Mr. Hwang:

This letter report, prepared by RRM, Inc. (RRM) on behalf of Hagstrom Properties, documents the results of soil and groundwater investigation conducted at the site referenced above (Figures 1 and 2). The investigation was requested by the Alameda County Health Care Services (ACHCS) in a letter dated April 4, 1996. To respond to the aforementioned letter, Compliance & Closure, Inc. (CCI), prepared a work plan to perform a soil and groundwater investigation, dated May 2, 1996. The ACHCS approved the May 2, 1996 work plan in a letter dated August 3, 1999. In general, the scope of work conducted during the investigation included the drilling of two soil borings for the purpose collecting soil samples and grab groundwater samples for laboratory analyses.

This letter report includes a discussion of the site background, scope of work, findings, and conclusions and recommendations. Information presented as attachments include field and laboratory procedures, and boring logs (Attachment A), and certified analytical report and chain-of-custody documentation (Attachment B).

## SITE BACKGROUND

### Site Description

The site is located in a mixed commercial and residential area at 265 30<sup>th</sup> Street in Oakland, California. The nearest cross street to the site is Broadway to the north. The site topography slopes moderately to the southeast towards Echo Creek. Echo Creek is located approximately 500 feet to the southeast of the site (Figure 1). The site elevation is approximately 40 feet

above mean sea level. Based on nearby surface drainages and local topography, shallow groundwater is expected to flow toward the south-southeast toward Echo Creek (Oakland West and East, 7.5 Minute Quadrangles, 1993 and 1997, respectively).

Two 8,000-gallon underground storage tanks (USTs) were removed by TAC Environmental Services in December 1995. It was reported that both of the tanks appeared to be in good condition upon removal. Petroleum hydrocarbons were detected in selected soil samples collected from the UST excavation area.

## **SCOPE OF WORK**

The proposed scope of work is designed to address the technical comments made by the ACHCS. To further delineate the vertical extent petroleum hydrocarbons in soil and determine if hydrocarbons have impacted groundwater beneath the former USTs, RRM drilled one soil boring, designated Boring B-1, adjacent to the former USTs. Boring B-2 was drilled to evaluate groundwater conditions in the inferred downgradient direction from the USTs.

The specific scope of work for the investigation is described below. Field and laboratory procedures are provided in Attachment A.

### **Task 1. Permitting and Prefield**

Soil boring permits were not required by the ACHCS for this project.

Prior to field activities all proposed bore locations were marked and Underground Surface Alert was notified for underground utility clearance. A site specific health and safety plan was also prepared and a health and safety meeting was conducted prior to starting work.

### **Task 2. Soil Borings**

On September 17, 1999, soil borings B-1 and B-2 were drilled using Geoprobe® drilling equipment (Figure 2). Boring B-1 was drilled to a total depth of approximately 20 feet bgs (approximately 14 feet below first encountered groundwater). The purpose of Boring B-1 was to define the vertical extent of petroleum hydrocarbons in soil and investigate groundwater conditions adjacent to the former USTs. Boring B-2 was drilled to approximately 15 feet bgs (approximately 8 feet below first encountered groundwater) to evaluate groundwater conditions in the inferred downgradient direction from the USTs. Following soil and groundwater sample collection, each boring was grouted from the bottom of the bore to the ground surface using Portland cement.

### **Task 3. Soil Sampling**

Soil samples were collected from each bore at 5-foot depth intervals and/or at changes in lithology, and were preserved for possible chemical analyses. Four soil samples were submitted

for laboratory analyses from Boring B-1 and three soil samples from Boring B-2. Soil samples were logged by an RRM geologist in accordance with the unified soil classification system under the supervision of a California-state Registered Geologist.

#### **Task 4. Groundwater Sampling**

On September 17, 1999, RRM collected grab groundwater samples from each bore using a new Teflon® bailer. Grab groundwater sampling procedures are provided in Attachment A.

#### **Task 5. Laboratory Analyses**

Selected soil and groundwater samples collected from the soil borings were submitted for chemical analyses and analyzed for the presence of gasoline range total petroleum hydrocarbons (TPHg); benzene, toluene, ethylbenzene, and xylenes (collectively BTEX); and methyl tertiary butyl ether MTBE.

### **FINDINGS**

#### **Subsurface Conditions**

In general, soils encountered during drilling consisted of moderate plasticity clay from beneath the asphalt pavement to the total depth explored of approximately 20 feet bgs. Groundwater was first encountered and stabilized at depths of approximately 6.2 and 6.8 feet bgs in borings B-1 and B-2, respectively.

#### **Soil Analytical Data**

A total of seven soil samples were submitted to the laboratory for analyses. TPHg, BTEX and MTBE were not detected in any soil sample analyzed. Soil analytical data is summarized in Table 1.

#### **Groundwater Analytical Data**

Results of grab groundwater sample collection from borings B-1 and B-2 indicate that TPHg was detected at concentrations of 2,900 parts per billion (ppb) and 110 ppb, respectively. Benzene was detected at a concentration of 1.1 ppb in grab samples collected from Boring B-1. Benzene was not detected in grab samples collected from the downgradient bore, Boring B-2. MTBE, by EPA Method 8020, was detected in grab samples collected from Boring B-1 at a concentration of 5.2 ppb and in Boring B-2 at a concentration of 7.1 ppb. Groundwater analytical data is summarized in Table 2.

## CONCLUSIONS AND RECOMMENDATIONS

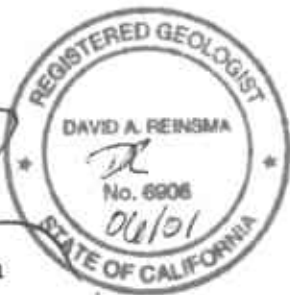
Based on the results of this investigation, petroleum hydrocarbons were detected in 7 of 7 soil samples collected and analyzed, and low levels of petroleum hydrocarbons were detected in grab groundwater samples collected from borings B-1 and B-2. The low levels of petroleum hydrocarbons detected in groundwater do not exceed California-state or Federal drinking water standards except for benzene which was detected at a concentration of 1.1 ppb in Boring B-1. The California-state primary maximum contaminant level (MCL) for benzene is 1.0 ppb and the Federal primary MCL is 5.0 ppb.

It is RRM's recommendation that the ACHCS require no further work at this site and grant site case closure.

Should you have any questions regarding the contents of this letter, please call RRM at (831) 475-8141.

Sincerely,

RRM, Inc.



*David A. Reinsma*  
Dave A. Reinsma  
Senior Geologist  
RG 6906

Attachments: Table 1 – Soil Analytical Data  
Table 2 – Groundwater Analytical Data  
Figure 1 - Site Location Map  
Figure 2 - Soil Boring Location Map  
Attachment A - Field and Analytical Procedures, and Boring Logs  
Attachment B – Certified Analytical Results and Chain-Of-Custody Documentation

cc: Mr. Warren Hagstrom, Hagstrom Properties, 360 Village Square, Orinda, California 94563

**Table 1**  
**Soil Analytical Data**  
(Petroleum Hydrocarbons and MTBE)

265 30th Street  
Oakland, California

Boring Number	Depth (feet)	Date Sampled	TPHg (ppm)	MTBE		Ethyl- Xylenes		Xylenes (Total) (ppm)
				8020 (ppm)	Benzene (ppm)	Toluene (ppm)	Benzene (ppm)	
B-1	5	09/17/99	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
	10	09/17/99	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
	15	09/17/99	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
	20	09/17/99	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
B-2	5	09/17/99	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
	10	09/17/99	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
	15	09/17/99	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005

Notes:

TPHg = Gasoline range total purgeable petroleum hydrocarbons MTBE = Methyl tertiary butyl ether by EPA Method 8020 ppm = Parts per million < = Not detected at or above specified detection limit
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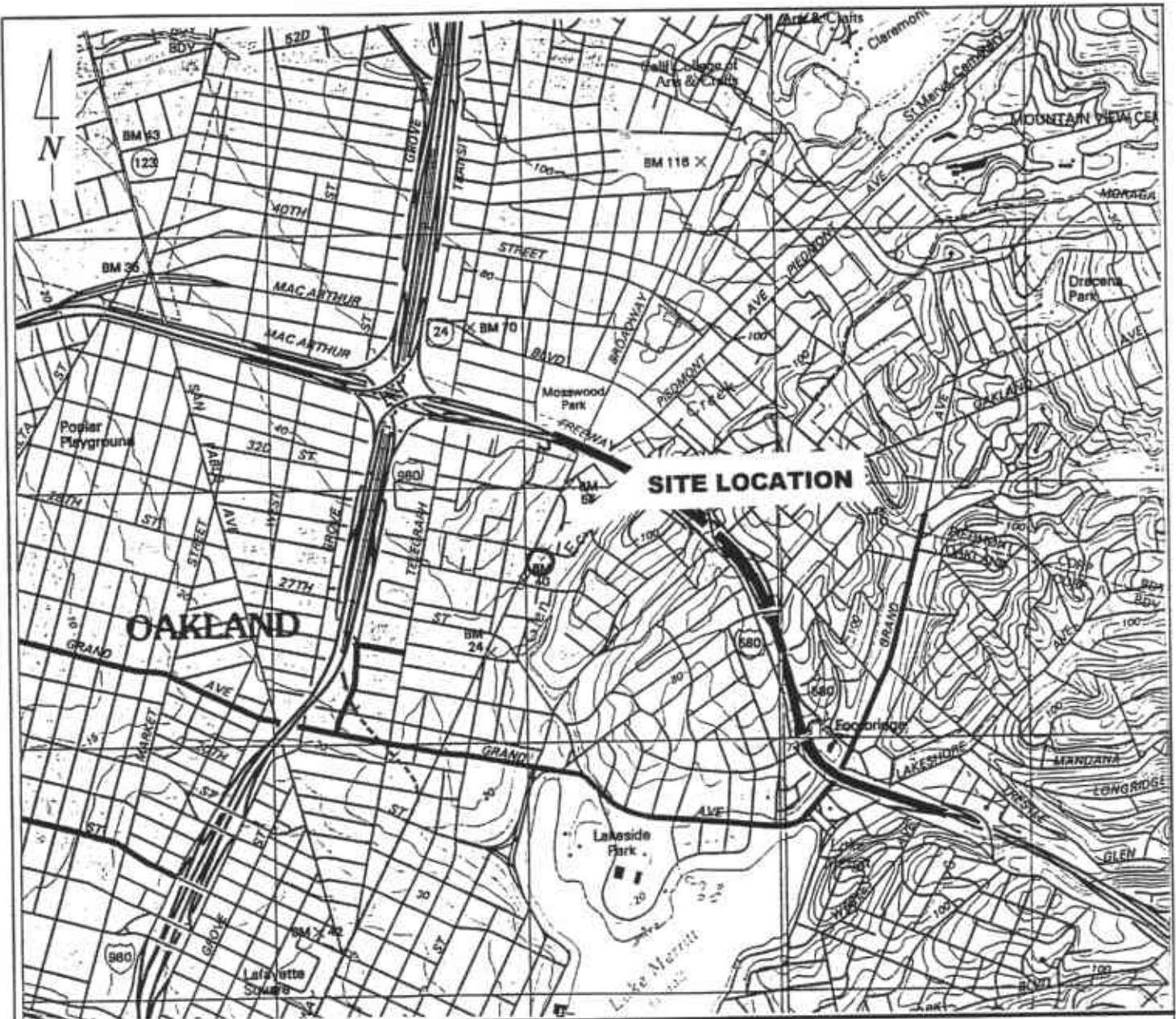
**Table 2**  
**Groundwater Analytical Data**  
(Petroleum Hydrocarbons and MTBE)

285 30th Street  
Oakland, California

Boring Number	Date Sampled	TPHg (ppb)	MTBE 8020 (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (Total) (ppb)
B-1	09/17/99	2,900	5.2	1.1	1.2	3.7	7.0
B-2	09/17/99	110	7.1	<0.50	<0.50	<0.50	<0.50

**Notes:**

TPHg = Gasoline range total purgeable petroleum hydrocarbons MTBE = Methyl tertiary butyl ether by EPA Method 8020 ppb = Parts per billion < = Not detected at or above specified detection limit
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QUADRANGLE  
LOCATION

References:  
USGS 7.5 MIN. TOPOGRAPHIC MAP  
TITLED: OAKLAND EAST AND WEST, CALIFORNIA  
REVISED: 1993 AND 1997

SCALE (ft)



PREPARED BY

**RRM**

engineering contracting firm

**SITE LOCATION MAP**

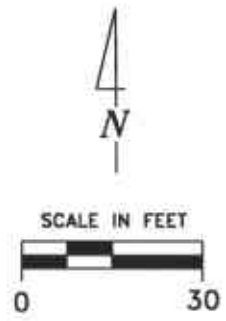
265 30th Street  
Oakland, California

FIGURE:

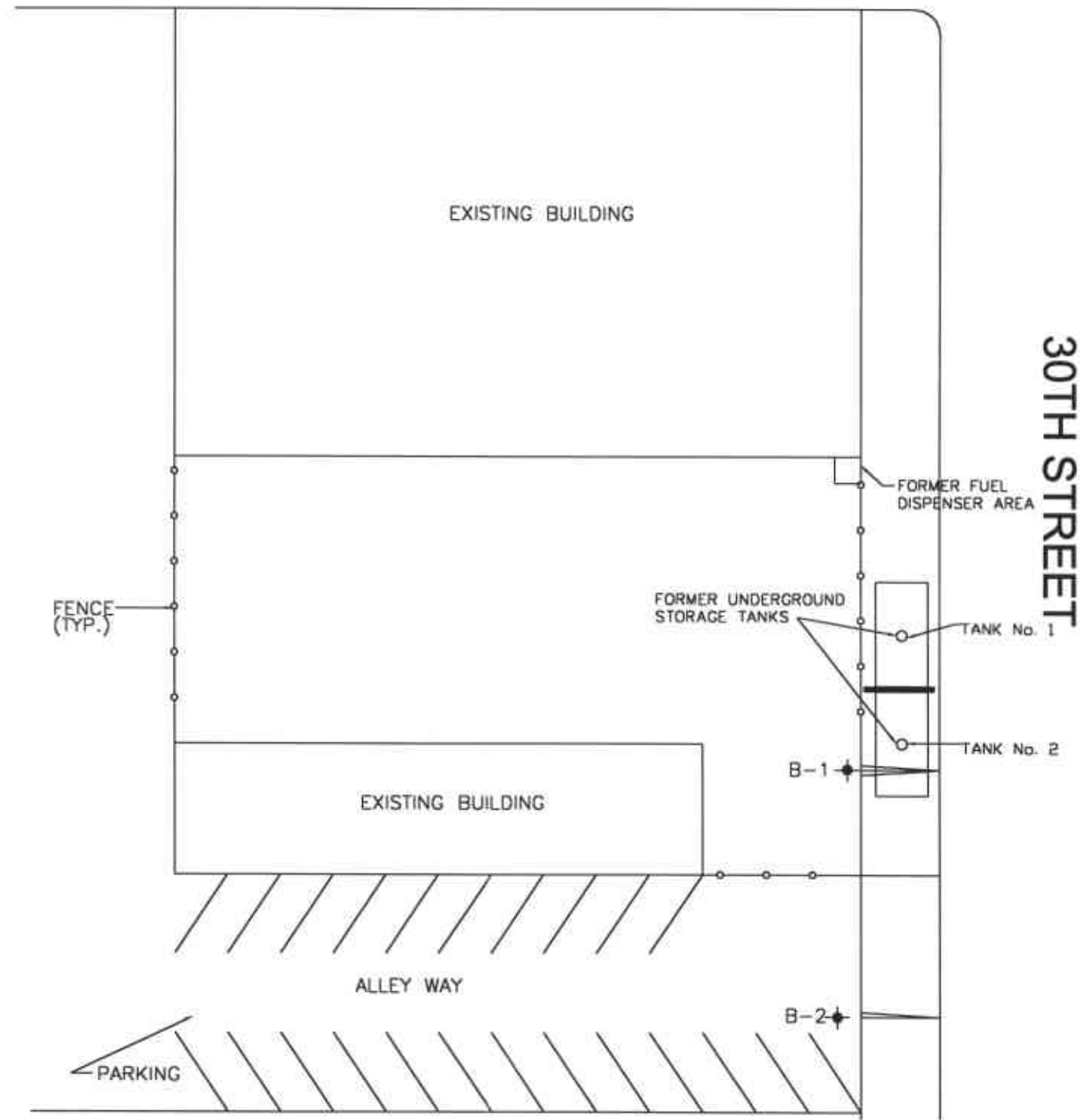
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PROJECT:

FA03



BROADWAY



EXPLANATION:  
 ◆ SOIL BORING LOCATION,  
 RRM 9/17/99

Ref. LOCMAF.dwg  
 SOURCE: CDI, Inc. 1996

PREPARED BY  
**RRM**  
 engineering contracting firm

SOIL BORING LOCATION MAP  
 265 30th Street  
 Oakland, California

FIGURE:  
**2**  
 PROJECT:  
 FA03



**ATTACHMENT A**

**FIELD AND ANALYTICAL PROCEDURES, AND  
BORING LOGS**

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## ATTACHMENT A

### FIELD AND ANALYTICAL PROCEDURES

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#### **Drilling Procedures**

The soil borings were installed in accordance with state and local guidelines using a subcontracted California state-licensed driller. The borings were drilled using 2-inch diameter Geoprobe® drilling equipment to depths of approximately 15 to 20 feet below ground surface. An RRM, Inc. (RRM) geologist logged the borings from soil sample. Under the direction of a State of California Registered Geologist, descriptive information was denoted on the boring logs pertaining to subsurface soil and groundwater conditions. Drilling and sampling equipment was steam-cleaned or cleaned with a tri-sodium phosphate solution prior to use and between each boring.

Soil samples were collected from each bore hole at 5-foot depth intervals. A sample was retrieved by advancing a 2 inch diameter direct push drilling rod equipped with an acetate liner approximately 1.5 feet into undisturbed soil. Soil in the bottom 6 inches of the liner was saved for possible chemical analyses; the remaining 12 inches of soil lodged in the acetate liner was retained for lithologic logging by an RRM geologist using the Unified Soil Classification System and standard geologic techniques. Each acetate liner retained for possible chemical analyses was capped with Teflon and plastic end caps. Soil samples selected for analyses were placed on ice for transport to a California state-certified laboratory, accompanied by chain-of-custody documentation.

#### **Field Hydrocarbon Screening Procedures**

Field hydrocarbon screening procedures consisted of measuring organic vapor concentrations using a photo-ionization detector (PID). The procedure consisted of obtaining approximately 30 grams of soil and placing this soil into a clean container. The container was then warmed by ambient air for approximately 20 minutes and the headspace within the jar was tested for organic vapor, measured in parts per million by volume (ppmv). The instrument was be pre-calibrated prior to use in the field.

#### **Grab Groundwater Sampling Procedures**

Grab groundwater sampling procedures consisted of initially measuring and documenting the water level in each boring and then checking for the presence of separate-phase hydrocarbons

(SPH) using an oil/water interface probe or a clear Teflon® bailer. The bores were sampled using new disposable Teflon® bailers or small diameter stainless steel bailers. Grab groundwater samples were placed into the appropriate EPA-approved containers. Sampling equipment was cleaned with a tri-sodium phosphate solution between uses. The samples were labeled, logged onto chain-of-custody documents, and transported on ice to the laboratory using appropriate chain-of-custody documentation.

### **Laboratory Analytical Program**

Selected soil samples and groundwater samples were analyzed in the laboratory for the presence of the following: gasoline range total petroleum hydrocarbons (TPHg) according to EPA Method 8015 (modified); benzene, toluene, ethylbenzene, and xylenes according to EPA Method 8020; and methyl tertiary butyl ether according to EPA Method 8020. Analyses were performed by a California State-certified laboratory.



engineering contracting firm

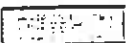


# UNIFIED SOIL CLASSIFICATION SYSTEM ASTM D2487

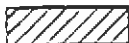

COARSE GRAINED SOILS	<b>GRAVELS</b> More than 50% of coarse fraction larger than #4 sieve	Clean gravels with less than 5% fines	GW		Well graded gravel, grave-sand mixtures
		Gravels with over 12% fines	GP		Poorly graded gravels, gravel-sand mixtures
		Gravels with over 12% fines	GM		Silty gravels, poorly graded gravel-sand mixtures
			GC		Clayey gravels, poorly graded gravel-sand mixtures
	<b>SANDS</b> More than 50% of coarse fraction smaller than #4 sieve	Clean sands with less than 5% fines	SW		Well graded sands, gravelly sands
		Sands with over 12% fines	SP		Poorly graded sands, gravelly sands
		Sands with over 12% fines	SM		Silty sands, poorly graded sand-silt mixtures
			SC		Clayey sands, poorly graded sand-clay mixtures
FINE GRAINED SOILS	<b>SILTS AND CLAYS</b> Liquid limit less than 50%	ML		Inorganic silts and very fine sands, silty or clayey fine sands	
		CL		Inorganic clays of low to medium plasticity, gravelly, sandy or silty clays, lean clays	
		OL		Organic clays and organic silty clays of low plasticity	
	<b>SILTS AND CLAYS</b> Liquid limit greater than 50%	MH		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	
		CH		Inorganic clays of high plasticity, fat clays	
		OH		Organic clays of medium to high plasticity, organic silts	
	<b>HIGHLY ORGANIC SOILS</b>	Pt		Peat and other highly organic soils	

U.S. STANDARD SERIES SIEVE				CLEAR SQUARE SIEVE OPENINGS			
	200	40	10	4	3/4"	3"	12"
SILTS and CLAYS	Sand			Gravel		Cobbles	Boulders
	fine	medium	coarse	fine	coarse		

# WELL / BORING LOG KEY TO ABBREVIATIONS

## WELL/BORING COMPLETION



-  Annular seal; cement grout
-  Slotted well screen section
-  Solid well section

-  Bentonite seal
-  Annular sand pack

## MOISTURE CONTENT

- D - Dry
- DP - Damp
- M - Moist
- S - Saturated (Silt and Clays)
- W - Wet (Sands and Gravels)

## GROUNDWATER

-  First encountered groundwater
-  Stabilized groundwater level

## DENSITY (blows/foot - Cas. Mod. Sampler)

<u>-Sands and Gravels-</u>		<u>-Silt and Clays-</u>	
0-5	-Very loose	0-2	-Very soft
5-13	-Loose	2-4	-Soft
13-38	-Medium dense	4-9	-Firm
38-63	-Dense	9-17	-Stiff
OVER 63	-Very dense	17-37	-Very stiff
		37-72	-Hard
		OVER 72	-Very hard

## FIELD TEST

- PID - Photo-ionization detector
- FID - Flame-ionization detector

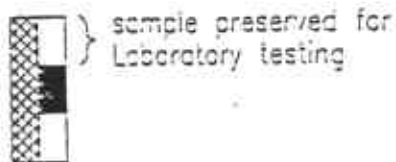
## SOIL SAMPLE NUMBER

- B-1-5      B-Sample#-Depth in feet (for borings)
- MW-1-5    MW-Sample#-Depth in feet (for wells)

## RECOVERY / SAMPLE INTERVAL

- SAMPLE INTERVAL - Attempted sample interval
- RECOVERY - Sample retained within sample interval
- NO RECOVERY - Sample not retained within sample interval

## GRAPHIC



## EXPLANATION AND ABBREVIATIONS

- USCS SYMCL = Unified Soil Classification System
- MSL = mean sea level
- 2.5YR 6/2 = Munsell Color Chart Designation

WELL/BORING LOCATION MAP

REMEDIATION RISK MANAGEMENT, INC.

WELL/BORING: B-2



DATE: 9/17/99  
 PROJECT: FA03  
 CLIENT: Hagstrom Realty  
 LOCATION: 265 30th St  
 CITY: Oakland  
 CO./STATE: CA.  
 DRILLER: ECA

DRILLING METHOD: Geo probe  
 SAMPLING METHOD:  
 BORING DIAMETER: 1 3/4"  
 BORING DEPTH: 15'  
 WELL CASING: NA  
 WELL SCREEN: NA  
 SAND PACK: NA

WELL/BORING COMPLETION	FIRST STABILIZED MOISTURE	DENSITY BLOWS/FOOT	FIELD TEST	SAMPLE NUMBER	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	USCS SYMBOL	DESCRIPTION / LOGGED BY: JQ
					1				Asphalt and Pavedrock
					2				
					3				
					4				
	DP				5				Clay, dark greenish gray (5G/4/1), 90% MPF, 10% fine sand, MPO
			20		6				
					7				
	DP				8				
			30		9				Clay, light yellowish brown (2.5Y/6/3) 95% MPF, 5% fine sand, NPO
					10				
					11				
					12				
					13				
	wet		10		14				Clay, very dark brown, 100% MPF, NPO
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				

B.O.B @ 15'

WELL/BORING LOCATION MAP		REMEDIATION RISK MANAGEMENT, INC.		WELL/BORING: B-1
DATE: 9/17/99		DRILLING METHOD: Geoprobe		
PROJECT: FA03		SAMPLING METHOD:		
CLIENT: Hagstrom Realty		BORING DIAMETER: 1 3/4"		
LOCATION: 265 30th St.		BORING DEPTH: 20'		
CITY: Oakland		WELL CASING: NA		
CO./STATE: CA.		WELL SCREEN: NA		
DRILLER: ECA		SAND PACK: NA		

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	DENSITY	BLOWS/FOOT	FIELD TEST	SAMPLE NUMBER	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	GRAPHIC	USCS SYMBOL	DESCRIPTION/LOGGED BY: Jeff Q.
								1					ASPHALT and BASE ROCK
								2					
								3					
								4					
			DP			0		5				CI	Clay, light yellowish brown (2.5Y, 6/3), 90% MPF, 10% fine sand, NPO.
								6					
								7					
			Wet			10		8				CI	Sandy clay, dark greenish gray, 55% MPF, 45% fine to med sand, NPO, loose.
								9					
								10					
								11					
								12					
								13					
			DP			10		14				CI	Clay, light yellowish brown (2.5Y, 6/3), 95% MPF, 5% fine sand, NPO, dense
								15					
								16					
			DP			NA		18				CI	Clay, greenish gray, 95% MPF, 5% fine sand, very dense, NPO
								19					
								20					
								21					
								22					
								23					
								24					
								25					
								26					
								27					
								28					
								29					
								30					

B.O.B @ 7.0'

**ATTACHMENT B**

**CERTIFIED ANALYTICAL RESULTS AND  
CHAIN-OF-CUSTODY DOCUMENTATION**

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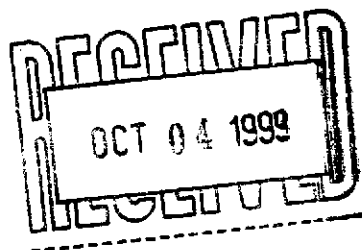


# Entech Analytical Labs, Inc.

CA ELAP# I-2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Remediation Risk Management  
3912 Portola Drive, Suite 8  
Santa Cruz, CA 95062  
Attn: Dave Reinsma



Date: 9/24/99  
Date Received: 9/17/99  
Project: 265 30th Street  
PO #: FA03  
Sampled By: Client

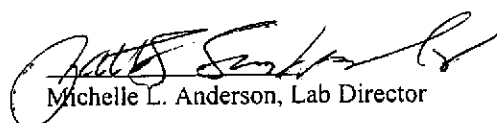
## Certified Analytical Report

### Water Sample Analysis:

Sample ID	B-1			B-2						
Sample Date	9/17/99			9/17/99						
Sample Time	8:47			7:40						
Lab #	16402-001			16402-002						
	Result	DF	DLR	Result	DF	DLR			PQL	Method
Results in µg/Liter:										
Analysis Date	9/23/99			9/23/99						
TPH-Gas	2,900	1.0	50	110 <sup>x</sup>	1.0	50			50	8015M
MTBE	5.2	1.0	5.0	7.1	1.0	5.0			5.0	8020
Benzene	1.1	1.0	0.50	ND	1.0	0.50			0.50	8020
Toluene	1.2	1.0	0.50	ND	1.0	0.50			0.50	8020
Ethyl Benzene	3.7	1.0	0.50	ND	1.0	0.50			0.50	8020
Xylenes (total)	7.0	1.0	0.50	ND	1.0	0.50			0.50	8020

DF=Dilution Factor    ND=None Detected above DLR    PQL=Practical Quantitation Limit    DLR=Detection Reporting Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #I-2346)

  
Michelle L. Anderson, Lab Director

# Entech Analytical Labs, Inc.

CA ELAP# I-2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Remediation Risk Management  
3912 Portola Drive, Suite 8  
Santa Cruz, CA 95062  
Attn: Dave Reinsma

Date: 9/24/99  
Date Received: 9/17/99  
Project: 265 30th Street  
PO #: FA03  
Sampled By: Client

## Certified Analytical Report

### Soil Sample Analysis: (All results in mg/kg)

Sample ID	B-1-5'			B-1-10'			B-1-15'				
Sample Date	9/17/99			9/17/99			9/17/99				
Sample Time	8:32			8:37			8:45				
Lab #	16402-004			16402-005			16402-006				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Analysis Date	9/20/99			9/20/99			9/20/99				
TPH-Gas	ND	1.0	1.0	ND	1.0	1.0	ND	1.0	1.0	1.0	8015M
MTBE	ND	1.0	0.05	ND	1.0	0.05	ND	1.0	0.05	0.05	8020
Benzene	ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Toluene	ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Ethyl Benzene	ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Xylenes (total)	ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020

DF=Dilution Factor      ND=None Detected above DLR      PQL=Practical Quantitation Limit      DLR=Detection Reporting Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #I-2346)

  
Michelle L. Anderson, Lab Director

Environmental Analysis Since 1983

# Entech Analytical Labs, Inc.

CA ELAP# I-2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Remediation Risk Management  
3912 Portola Drive, Suite 8  
Santa Cruz, CA 95062  
Attn: Dave Reinsma

Date: 9/24/99  
Date Received: 9/17/99  
Project: 265 30th Street  
PO #: FA03  
Sampled By: Client

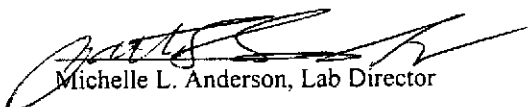
## Certified Analytical Report

### Soil Sample Analysis: (All results in mg/kg)

Sample ID	B-1-20'			B-2-5'			B-2-10'				
Sample Date	9/17/99			9/17/99			9/17/99				
Sample Time	9:14			7:17			7:24				
Lab #	16402-007			16402-008			16402-009				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Analysis Date	9/20/99			9/20/99			9/20/99				
TPH-Gas	ND	1.0	1.0	ND	1.0	1.0	ND	1.0	1.0	1.0	8015M
MTBE	ND	1.0	0.05	ND	1.0	0.05	ND	1.0	0.05	0.05	8020
Benzene	ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Toluene	ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Ethyl Benzene	ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Xylenes (total)	ND	1.0	0.005	ND	1.0	0.005	ND	1.0	0.005	0.005	8020

DF=Dilution Factor      ND= None Detected above DLR      PQL=Practical Quantitation Limit      DLR=Detection Reporting Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #I-2346)

  
Michelle L. Anderson, Lab Director

Environmental Analysis Since 1983

# Entech Analytical Labs, Inc.

CA ELAP# I-2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Remediation Risk Management  
3912 Portola Drive, Suite 8  
Santa Cruz, CA 95062  
Attn: Dave Reinsma


Date: 9/24/99  
Date Received: 9/17/99  
Project: 265 30th Street  
PO #: FA03  
Sampled By: Client

## Certified Analytical Report

### Soil Sample Analysis: (All results in mg/kg)

Sample ID	B-2-15'								
Sample Date	9/17/99								
Sample Time	7:39								
Lab #	16402-010								
	Result	DF	DLR					PQL	Method
Analysis Date	9/20/99								
TPH-Gas	ND	1.0	1.0					1.0	8015M
MTBE	ND	1.0	0.05					0.05	8020
Benzene	ND	1.0	0.005					0.005	8020
Toluene	ND	1.0	0.005					0.005	8020
Ethyl Benzene	ND	1.0	0.005					0.005	8020
Xylenes (total)	ND	1.0	0.005					0.005	8020

DF=Dilution Factor      ND= None Detected above DLR      PQL=Practical Quantitation Limit      DLR=Detection Reporting Limit  
Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #I-2346)

  
Michelle L. Anderson, Lab Director

# Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • Telephone: (408) 735-1550 (800) 287-1799 • Fax: (408) 735-1554

## Chain of Custody/Analysis Work Order

Client: RRM  
 Address: 3912 Portola Dr #8  
Santa Cruz, CA. 95062  
 Contact: Dave Reussma  
 Telephone #: 831.475.8141  
 Date Received: 9/17/99  
 Turn Around: Standard

Project ID: 2657h 30th St  
Oakland  
 Purchase Order #: FA03

Sampler/Company: <u>JA RRM</u>	Telephone #: <u>- SAME -</u>
Special Instructions/Comments	

**LAB USE ONLY**

Samples arrived chilled and intact:

Yes                      No

Notes: \_\_\_\_\_

\_\_\_\_\_

Sample Information								Requested Analysis							
Lab #	Sample ID	<u>Grab</u> Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container	TPH gas	BTEX	MTBE					
16402	-008	B-2-56'	Soil	9/17/99	0717	NO	acetate	X	X	X					
	-009	B-2-10'			0724										
	-010	B-2-15'			0739										
	<del>B-2-20'</del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>					
Relinquish By: <u>Jeff</u>								Received By: <u>[Signature]</u>				Date: <u>9/17/99</u>		Time: <u>1120</u>	
Relinquish By: <u>[Signature]</u>								Received By: <u>[Signature]</u>				Date: <u>9/17/99</u>		Time: <u>1120</u>	
Relinquish By:								Received By:				Date:		Time:	

# Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • Telephone: (408) 735-1550 (800) 287-1799 • Fax: (408) 735-1554

## Chain of Custody/Analysis Work Order

265 30th St, Oakland

Client: RRM  
 Address: 3912 Portola Dr. #8  
Santa Cruz, CA. 95062  
 Contact: Dave Redmsa  
 Telephone #: 831.475.8141  
 Date Received: 9/17/99  
 Turn Around: Standard

Project ID: FA03  
 Purchase Order #: FA03

Sampler/Company: <u>RRM</u>	Telephone #: <u>- Same -</u>
Special Instructions/Comments	

LAB USE ONLY

Samples arrived chilled and intact:

Yes                      No

Notes: \_\_\_\_\_

\_\_\_\_\_

Sample Information								Requested Analysis							
Lab #	Sample ID	Grab/Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container	TPH S/S	BTEX	MTBE	HOLD				
16402	-001	B-1	liquid	9/17/99	0847	HCL	4xVOA	X	X	X					
	-003	B-1	liquid		0900	NO	1x1L				X				
002		B-2	liquid		0740	HCL	4xVOA	X	X	X					
	-004	B-1-5'	Soil		0832	NO	Acetate								
	-005	B-1-10'			0837										
	-006	B-1-15'			0845										
	-007	B-1-20'			0914										
Relinq. By: <u>Jeff Quinn</u>								Received By: <u>[Signature]</u>				Date: <u>9/17/99</u>		Time: <u>1120</u>	
Relinq. By: <u>[Signature]</u>								Received By: <u>[Signature]</u>				Date: <u>9/17/99</u>		Time: <u>1120</u>	
Relinq. By:								Received By:				Date:		Time:	