June 24, 1993

SEACOR Science & Engineering Analysis Corporation

Mr. Thomas Peacock Hazardous Materials Division Alameda County Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94621

QUARTERLY GROUNDWATER MONITORING REPORT, 4070 SAN PABLO AVENUE, EMERYVILLE, CALIFORNIA

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Dear Mr. Peacock:

On behalf of San Francisco French Bread Company (SFFBC), Science & Engineering Analysis Corporation (*SEACOR*) has prepared this quarterly groundwater monitoring report for 4070 San Pablo Avenue in Emeryville, California ("the site", see Figure 1). The site is improved with two warehouse-type buildings. The southern building is currently occupied by Anderson Carpeting and the northern building by Tire Center Inc. A site plan showing the existing site configuration, including the location of the former underground storage tanks (USTs) is attached as Figure 2.

SITE BACKGROUND

In September 1992, SEACOR installed monitoring well MW-1 slightly west, and down-gradient of the former UST locations. This well was completed to a depth of 25 feet below ground surface with the screened interval extending from 25 to 15 feet below ground surface. The groundwater sample collected from this well in September 1992 was reported to contain total petroleum hydrocarbons as gasoline (TPHg) and TPH as diesel (TPHd) at concentrations of 1.4 and 0.2 milligrams per liter (mg/ ℓ), respectively. The laboratory reported that the positive result for TPHd appears to have been due to the presence of a lighter fuel (e.g. gasoline) rather than diesel. Benzene, toluene, ethylbenzene, and xylenes (BTEX) were also detected in the water sample at concentrations of 0.47, 0.043, 0.045, and 0.10 mg/ ℓ , respectively. Based on the findings of our initial investigation, SFFBC initiated a quarterly groundwater monitoring program at the site. This quarterly monitoring event represents the fourth quarter of groundwater sampling.

DEPTH TO GROUNDWATER

Prior to purging and sampling monitoring well MW-1, the depth to groundwater and well depth were measured by *SEACOR* on June 4, 1993 using an electronic water-level indicator. Groundwater was measured at a depth of 5.15 feet below the top of the PVC casing. This represents a 2.67 foot increase in water level since the March 4, 1993 monitoring event. Historic depth to groundwater measurements are included on Table 1.

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MONITORING WELL PURGING AND SAMPLING

Monitoring well purging and sampling was performed by *SEACOR* on June 4, 1993. Well purging was accomplished by bailing with a clean PVC bailer. During purging the pH, temperature, and electrical conductivity of the discharge water was measured and the color and turbidity were visually inspected. Stabilization of these parameters was used as an indicator that fresh formation water was entering the well casing. Approximately three casing volumes of water (10 gallons) were removed from the well. A copy of the Water Sample Data Sheet is included as an Attachment. Water removed from the well during purging activities was placed in a DOT-approved 55-gallon drum and stored onsite.

Following completion of well purging, a water sample was collected by lowering a clean stainless-steel bailer into the well casing. The water sample was transferred directly from the bailer into laboratory supplied sample containers and labeled. Sample containers were stored in a cooler containing ice for shipment to the analytical laboratory. The groundwater sample was submitted to NET Pacific Analytical Laboratory for analysis of TPHg and BTEX according to EPA Methods 5030, and 8020, respectively.

CHEMICAL TESTING RESULTS

The groundwater sample analyzed from monitoring well MW-1 was reported to contain TPHg at a concentration of 2.9 mg/ ℓ and BTEX at concentrations of 340, 58, 50 and 140 micrograms per liter $(\mu g/\ell)$, respectively. When compared to water quality data from March 1993, all analyte concentrations show significant increases. Table 1 summarizes the chemical analytical results for this quarterly groundwater monitoring event as well as the previous sampling events. Laboratory analytical data sheets and chain-of-custody documentation are included as an Attachment.

RECOMMENDATIONS

SEACOR, on behalf of SFFBC, plans to conduct additional investigative activities at the Site to further define the extent of petroleum hydrocarbons in the soil and groundwater. A Work Plan defining the scope of the investigative activities will be submitted to the Alameda County Department of Environmental Health within 60 days.

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If you have any questions or comments regarding this report, please do not hesitate to call us at (415) 882-1548.

Sincerely yours,

Science & Engineering Analysis Corporation

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Donald W. Moore Project Geologist

Huve E. Genbrogh

Bruce E. Scarbrough, R.G. Principal Geologist

DWM/lk

cc: Mr. Peter Sher, San Francisco French Bread Company

Attachments:

Figure 1 - Site Location Map Figure 2 - Site Plan Table 1 - Groundwater Measurements and Chemical Analytical Results Groundwater Sample Data Sheet, Laboratory Analytical Reports and Chain-of-Custody Records

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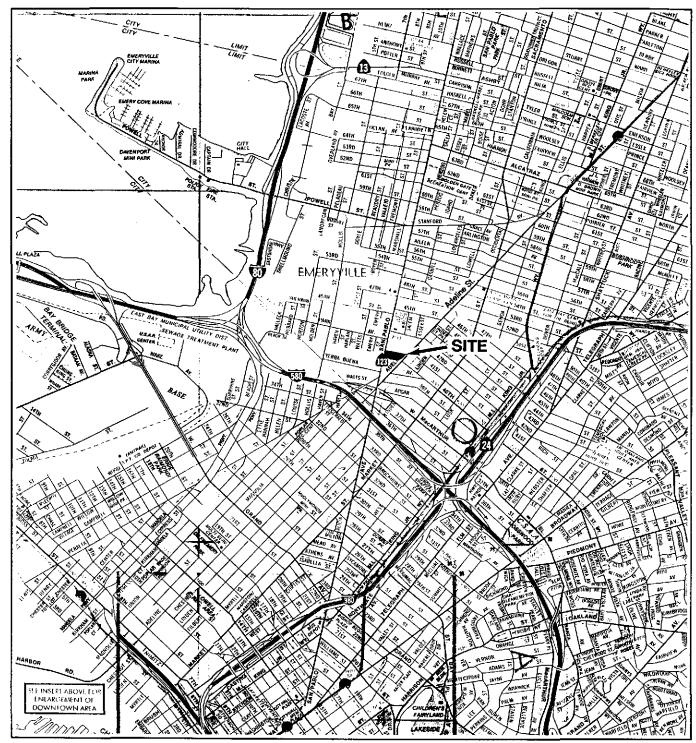
TABLE 1 GROUNDWATER MEASUREMENTS AND CHEMICAL ANALYTICAL RESULTS 4070 San Pablo Avenue Emeryville, California

WELL	DATE	DEPTH TO GROUNDWATER ⁽¹⁾	TPHg ⁽²⁾ (mg/l) ⁽³⁾	BENZENE (µg/l) ⁽⁴⁾	TOLUENE (µg/l)	ETHYLBENZENE (µg/l)	XYLENES (µg/l)
MW-1	9/11/92	9.10	1.4	470	45	43	100
	12/3/92	9.55	ND<0.05	ND<0.5	ND < 0.5	1.6	ND<0.5
	3/4/93	7.82	0.70	1.1	ND < 0.5	ND<0.5	1.1
	6/4/93	5.15	2.9	340	58	50	140

NOTES:

- Feet below top of PVC casing. (1)
- Total petroleum hydrocarbons as gasoline. Milligrams per liter. (2)
- (3)
- Micrograms per liter. (4)

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SOURCE:

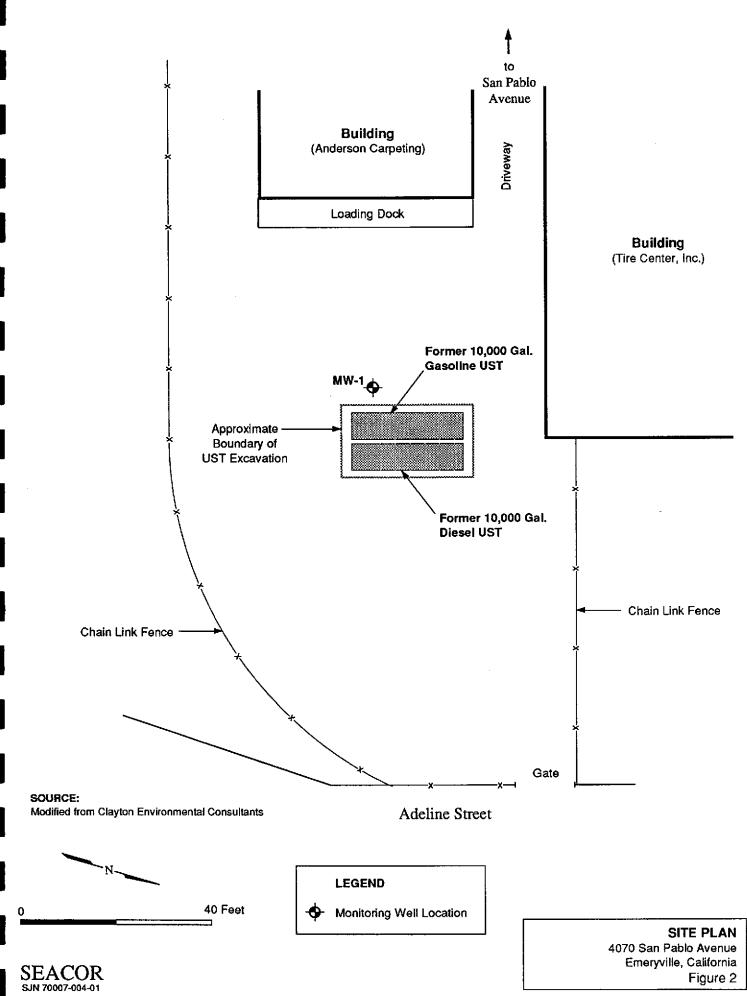
California State Automobile Association Oakland, Berkeley, Alameda, 2/91

0_____4000 Feet

SEACOR SJN 70007-004-01

SITE LOCATION MAP 4070 San Pablo Avenue Emeryville, California

Figure 1



SEACOR WATER SAMPLE FIELD DATA SHEET

RGED BY: AMPLED BY: Kurt Heiss	WELL ID: MW-1 SAMPLE ID: MW-1-29 CLIENT NAME: S.R. French Brend LOCATION: Smary Ville, CA
PE: Groundwater Surface Water	Treatment Effluent Other
ASING DLAMETER (inches): 2 3	4 4.5 6Other
CASING ELEVATION: (feet/MSL):DEPTH TO WATER (feet):StateEPTH OF WELL (feet):25.35	VOLUME IN CASING (gal) $\overline{3.23}$ CALCULATED PURGE (gal) $\overline{9.69}$ ACTUAL PURGE VOL (gal) 10.00
ATE PURGED: <u>6/4/93</u> Start (2400 H TE SAMPLED: <u>6/4/93</u> Start (2400 H	Ir) Ir) Ir) Ir) Ir) Ir) Ir) End (2400 Hr.) Ir) Ir)
ELD QC SAMPLES COLLECTED AT THIS WELL (i.e. F	B-1, X-DUP-1): <u>Vrne</u>
FIELD MEAS	UREMENTS
IMEVOLUMEpHE.C.00 Hr)(gal)(units)(umhos/cm@25°C)	TEMPERATURE COLOR TURBIDITY ('F) (visul) (VISUL)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
D.O. (ppm): COLOR, COBALT (0-100)	Brown Clear
ODOR: 1Va	Stoudy Yellow
PURGING EQUIPMENT	SAMPLING EQUIPMENT
2" Bladder Pump Centrifugal Pump Submersible Pump Well Wizard TM Dedicated	2° Bladder Pump Bailer(Teflon@) DDL Sampler Bailer (PVC/disposable) Submersible Pump Bailer (Stainless Steel) Well Wizard TM Dedicated
C	Other
TLINTEGRITY: Good EMARKS: <u>Alose</u> , <u>Semi</u> slow groundwate	LOCK #: <u>Magter - 0909</u> r recovery
GNATURE: Mus MOD	Page of 1



NATIONAL ENVIRONMENTAL TESTING, INC.

NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401 Tel: (707) 526-7200 Fax: (707) 526-9623

Donald Moore Seacor 90 New Montgomery Suite 620 San Francisco, CA 94105 Date: 06/16/1993 NET Client Acct. No: 74000 NET Pacific Job No: 93.02368 Received: 06/05/1993

Client Reference Information

Project No: 70007-004-01

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skamarack Laboratory Manager

Enclosure(s)



Client Acct: 74000 © Client Name: Seacor NET Log No: 93.02368

Date: 06/16/1993 · Page: 2

Ref: Project No: 70007-004-01

SAMPLE DESCRIPTION: MW-1-24 Date Taken: 06/04/1993 Time Taken: 13:20 LAB Job No: (-159248)

		Reporting	J	
Parameter	Results	Limit	Units	Method
TPH (Gas/BTXE,Liquid)				
METHOD 5030 (GC, FID)				
DATE ANALYZED	06-08-93			
DILUTION FACTOR*	1			
as Gasoline	2.9	0.05	mg/L	5030
METHOD 8020 (GC, Liquid)				
DATE ANALYZED	06-08-93			
DILUTION FACTOR*	10			
a a a a a a a a a a a a a a a a a a a	340	0.5	uq/L	8020
Ethylbenzene	50	0.5	ug/L	8020
Toluene	58	0.5	ug/L	8020
Xylenes (Total)	140	0.5	ug/L	8020
SURROGATE RESULTS			-	
Bromofluorobenzene	90		۶ Rec.	5030



Client Acct: 74000 ® Client Name: Seacor NET Log No: 93.02368

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Date: 06/16/1993 Page: 3

Ref: Project No: 70007-004-01

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Gasoline	0.05	mg/L	114.0	ND	108.0	112.0	3.6
Benzene	0.5	ug/L	103.8	ND	98.5	95.5	3.1
Toluene	0.5	ug/L	104.0	ND	95.3	96.0	0.7

COMMENT: Blank Results were ND on other analytes tested.

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-			SE/	AC	OR	Cł	ıair	1-0	f -C	usto	ody	Re	cor	rd	396	59				
55 90 New N Ban Fran	nontoso	meny , Ca	<u>5</u> 4, # 9.445	-C 2.C 5 5	2														*	
Project # 70007-004	4-21 7	Fask # 🗜	=B	Analysis Request													. <i></i> .			
Project Manager Dougled Moore Laboratory <u>NGT</u> Racific Turn-around time: <u>Standard</u> Sampler's Name: <u>Kurtheis</u>					TPHd 8015 (modified)	TPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCB's 608/8080	Lead	Priority Pollutant Metals (13)	Metals					Comments/ Instructions	Number of Containers
Sampler's Signature:	Date	Time	Matrix	SOIS (TPH ₆ 8015 (HdT	Arom 602/8	Volati 624/8	Halog 601/8	Semi- 625/8	Pestic 608/8	Total Lead 7421	Priori Metal	TCLP						Ŋn Ŋ
MW-1-24e * Travel Blank	6/4/93	(320	wrter	$\overline{\nabla}$															vor W	ج 2 2
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Special Instructions/Comments: * Mease The lude analytical vosults with Job # data package				Relinquished by: Sign $\frac{1}{10000000000000000000000000000000000$							Received by: Sign $Array Markey$ Print $Array Markey$ Company NET Time $6/6$ Date $6/4/2$ Received by: Sign $4lops$ Print $Aooy lop e$ Company NET Time 12^{100} Date $c/5/45$							Sample Re Total no. of ca Chain of custo Rec'd good condition Conforms to Client: Client Contact:	ontainers 4- dy seals: 4 on/cold: 4	