

December 13, 1991

Alameda County  
Environmental Health Dept.  
Hazardous Materials Division  
80 Swan Way  
Room 200  
Oakland, CA 94612

Attn: Mr. Brian O'Leva

RE: 635 Pacific Avenue  
Alameda, CA

Gentlemen:

Enclosed please find the following documentation regarding the initial tank removal and confirmatory sampling at:

FIRE STATION NO. 2  
635 PACIFIC AVENUE  
ALAMEDA, CA

One copy of this report has been mailed to the Water Quality Control Board, San Francisco Region and the City of Alameda Engineering Department (Property Owners).

If you have any further questions, please feel free to contact my office at (415)363-2181.

Sincerely,  
ZACCOR CORP.



Gary Zaecor  
Project Manager

GZ/lis

Enclosure

51 DEC 16 PM 3:20

November 20, 1991

City Hall of Alameda  
Engineering Department  
2263 Santa Clara at Oak Street  
Room 207  
Alameda, CA 94621  
ATTN: Hank Wong

The following documentation concerns the initial tank removal and subsequent confirmatory sample collection, at:

**ALAMEDA FIRE STATION #2  
635 PACIFIC AVENUE  
ALAMEDA, CALIFORNIA**

On November 15, 1991, one 285 gallon underground storage tank was removed from the above referenced site. The tank recently contained diesel but had stored gasoline in past years.

Field Sampling was performed in accordance with state and local agency approved methodology, in the presence of Mr. Brian P. Oliva, Hazardous Materials Specialist for the Alameda County Department of Environmental Health.

See accompanying site diagram for the tank location, field sampling designations, and sampling depths.

**UNDERGROUND STORAGE TANK INSPECTION**

The tank condition was inspected upon removal. Rust and some pitting were noted. No holes were apparent. A slight hydrocarbon odor was present within the tank cavity backfill and native soil.

**TANK PIT SAMPLING**

A soil sample was collected from beneath the tank center. This was accomplished by the clearing of fill material and slough from the designated sample area. A backhoe bucket then obtained a sample from 12" to 18" into the native soil. The surface three inches of soil was removed from the backhoe bucket and a clean brass sleeve driven into the remaining soil.

#### TANK PIT SAMPLING--continued

The soil was packed into the brass sleeve to eliminate head space. Each sleeve end was immediately covered with a teflon sheet, fitted with plastic caps, sealed with duct tape, labeled, and placed under chain of custody, on blue ice for transport to a Certified Hazardous Waste Analytical Laboratory by laboratory personnel.

#### STOCKPILE SAMPLE COLLECTION

Approximately six cubic yards of soil was excavated from the tank pit cavity at the time of the tank removal. The excavated soil was stockpiled on asphalt and covered with Visqueen.

A composite soil sample was collected by dividing the stockpile into three sections. A brass sleeve was filled within each section by removing the surface two feet (2') of soil. A clean brass sleeve was driven into the remaining soil. The three soil samples were composited at a certified laboratory to be analyzed as one sample.

#### SAMPLE DATA

<u>Matrix</u>	<u>Sample #</u>	<u>Location</u>	<u>Depth</u>
Soil	TP-1	Beneath Tank Center	9'
Soil	SP1A-C	Stockpile	2'

#### SOIL SAMPLE ANALYSIS

#TP-1 and #SP1A-1C were analyzed for Total Petroleum Hydrocarbons as diesel (TPH-D, using EPA Method 3550), benzene, toluene, ethylbenzene and total xylenes (BTEX, using EPA Method 8020).

## SOIL ANALYTICAL RESULTS

<u>Sample#</u>	<u>TPH-D</u> (ppm)	<u>B</u> (ppb)	<u>T</u> (ppb)	<u>E</u> (ppb)	<u>X</u> (ppb)
TP #1	ND	ND	6.5	ND	44
SP1A-C	220	ND	ND	ND	52

Not Detected at the lower detection limit.

## RECOMMENDATIONS & CONCLUSIONS

The State Water Resources Control Board Document, Leaking Underground Fuel Tank Field Manual (LUFT), supported by the San Francisco Regional Water Quality Control Board (SFRWQCB), defines acceptable limits and appropriate actions for addressing UST contamination.

Stockpile composite sample, SP1A-C, contained a detectable amount of Total Petroleum Hydrocarbons as diesel at 220 ppm and total xylenes at 52 ppb.

Sample #TP-1 contained a detectable amount of toluene at 6.5 ppb and total xylenes at 44 ppb.

## REPORT

Copies of the sampling report, chain of custody, and certified analytical report should be submitted to both the SFRWQCB and the Alameda County Department of Environmental Health.

The following addresses have been listed for your convenience:

Water Quality Control Board  
San Francisco Bay Region  
2101 Webster St. Rm. 500  
Oakland Ca. 94612  
ATTN: Fuel Leaks Division

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

It has been a pleasure working with you. If I can be of further service please call me at (415) 363-2181.

Sincerely,  
ZACCOR CORPORATION

Gary Zaccor

11/15/91

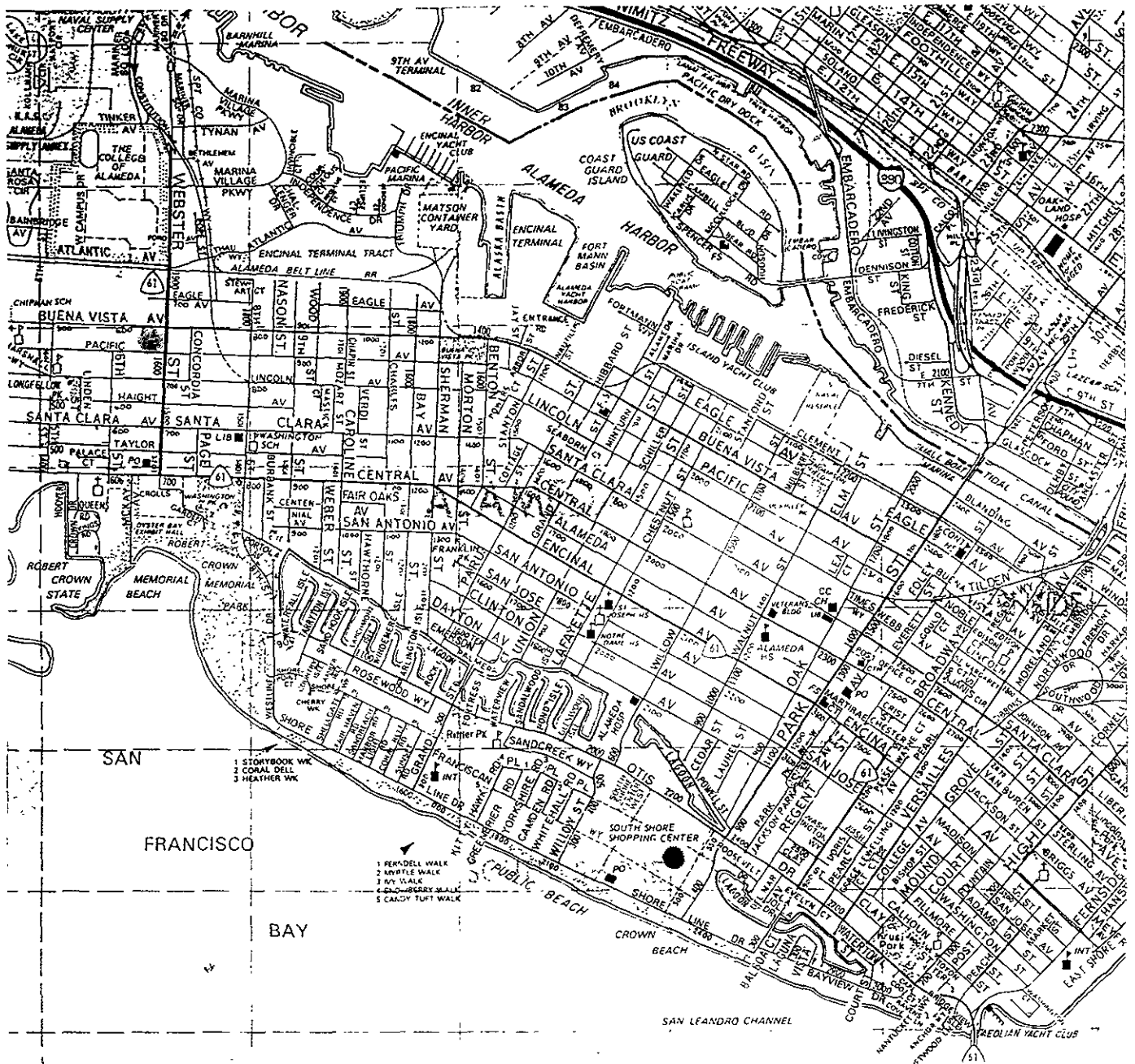
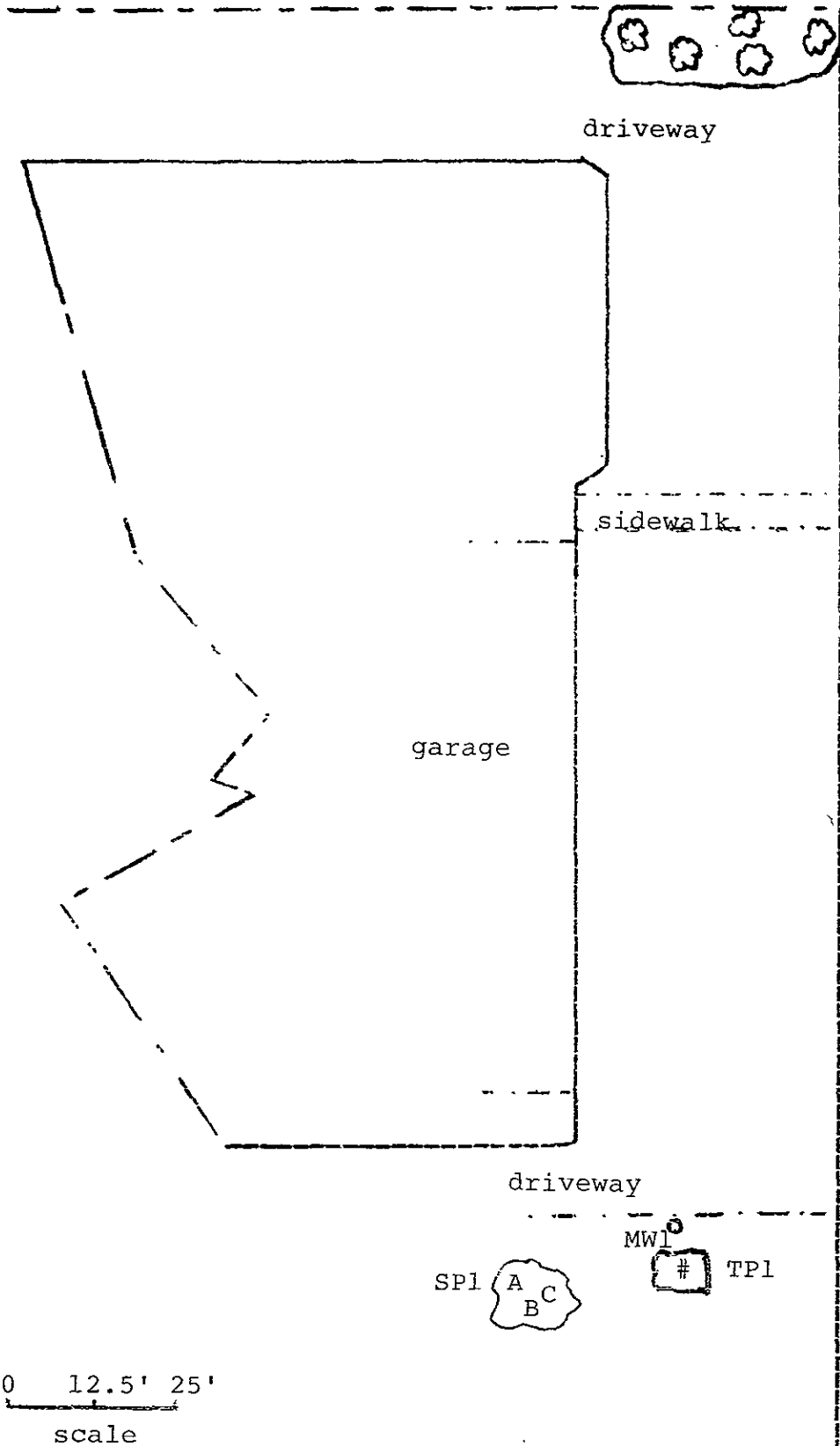


Fig.1 Site Location Map.

ENVIRONMENTAL  
TECHNICAL  
SERVICES

at: ALAMEDA FIRE STN. #2.

11/15/91



0 12.5' 25'  
scale

# CHROMALAB, INC.

5 DAYS TURNAROUND

Analytical Laboratory (E694)

November 15, 1991

ChromaLab File No.: 1191152

ZACCOR CORPORATION

Attn: Gary Zaccor

RE: Two rush soil sample for BTEX and Diesel analysis

Project Name: ALAMEDA FIRE DEPT.

Project Number: ALM.FIRE

Date Sampled: Nov. 15, 1991

Date Submitted: Nov. 15, 1991

Date Extracted: Nov. 15, 1991

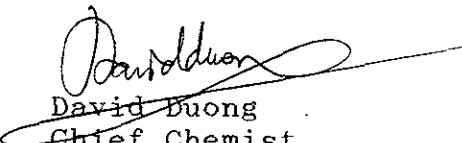
Date Analyzed: Nov. 15, 1991


## RESULTS:

Sample I.D.	Diesel (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl Benzene (ug/kg)	Total Xylenes (ug/kg)
TP-1	N.D.	N.D.	6.5	N.D.	44
SP1A-1C	220	N.D.	N.D.	N.D.	52

LANK	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	89.2%	85.7%	93.9%	100.8%	106.6%
DETECTION LIMIT	1.0	5.0	5.0	5.0	5.0
METHOD OF ANALYSIS	3550/ 8015	8020	8020	8020	8020

ChromaLab, Inc.

  
David Duong  
Chief Chemist

  
Eric Tam  
Laboratory Director



ZACCOR COMPANIES, INCORPORATED *Sampling by Environmental*  
 CLIENT CHAIN-OF-CUSTODY RECORD *Regiminal Services*

PROJECT NUMBER		PROJECT NAME				Type of Analysis	Number of Containers	Type of Containers	Initial
ALM. FIRE		Alameda Fire Dept 635 Pacific Alameda							
Send Report Attention of: Mento Park Ca GARY ZACCOR 791 Hamilton Ave		Report Due		Verbal Due					
Sample Number	Date	Time	Comp	Grab	Station Location			Samples	
TP-1	11/15/91	9:05 AM		<input checked="" type="checkbox"/>	Beneath gr Tank Center	1	BRASS SLEEVE	<input checked="" type="checkbox"/>	
SP1A-1C	11/15/91	9:10 AM	<input checked="" type="checkbox"/>		Stock pile 2'	3	BRASS SLEEVES	<input checked="" type="checkbox"/>	
Relinquished by: (Signature) <i>Gary Zaccor</i>		Date/Time 11-15-91	Received by: (Signature)		Date/Time	Remarks: SAME DAY ANALYSIS		SAMPLE DISPOSAL: Return to Client <input type="checkbox"/> Soil Disposal by Anametrix (\$5.00 per container) <input type="checkbox"/>	
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	COMPANY: ZACCOR CORP ADDRESS: 791 Hamilton Ave Mento Park, Ca			
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	PHONE : 363-2181		FAX :	