

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 4599 - 934 34th Street, Oakland, CA

February 16, 1995

Mr. Andrew Clark-Clough
City of Oakland
1333 Broadway, Suite 1001
Oakland, CA 94612

Dear Mr. Clark-Clough:

This letter confirms the completion of site investigation and remedial action for the former underground storage tank (1-285 gallon gasoline/diesel tank) removed from the above site on July 13, 1993. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations. Please contact Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,

Jun Makishima, Interim Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Mike Harper, SWRCB (with attachment)
files (fire#5.4)

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: February 1, 1996

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Eva Chu Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Firehouse #5
Site facility address: 934 34th Street, Oakland 94609
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4599
URF filing date: 7/23/93 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
City of Oakland Andrew Clark-Clough	1333 Broadway, Suite 1001 Oakland, CA 94612	510/238-6329

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	285	Diesel/Gasoline	Removed	7/13/93

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown
Site characterization complete? YES
Date approved by oversight agency: 1/10/96
Monitoring Wells installed? No Number: NA
Proper screened interval? NA
Highest GW depth below ground surface: Lowest depth:
Flow direction: NA
Most sensitive current use: Fire station
Are drinking water wells affected? No Aquifer name: Unknown
Is surface water affected? No Nearest affected SW name: NA
Off-site beneficial use impacts (addresses/locations): None
Report(s) on file? YES Where is report(s) filed? Alameda County
1131 Harbor Bay Pkwy
Alameda, CA 94502

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> <u>(include units)</u>	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tank Piping	1 UST	Disposed by H & H, San Francisco	7/13/93
Free Product	65 gallon	Unknown, but probably used to fuel vehicles	
Soil	54 cy	Redwood L.F. in Novato	7/21, 10/5, & 11/19/93

<u>Contaminant</u>	<u>Maximum Documented Contaminant Concentrations - - Before and After Cleanup</u>			
	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before</u>	<u>After</u>	<u>Before</u>	<u>After¹</u>
TPH (Gas)	NA	NA	NA	
TPH (Diesel)	780	91	NA	ND
Benzene	ND	0.032	NA	ND
Toluene	1.2	0.0074	NA	ND
Ethylbenzene	12	0.270	NA	ND
Xylenes	55	1.3	NA	ND
Heavy metals	Total Lead			30
Other				

NOTE: 1 "Grab groundwater collected at 35' bgs from boring OF-WS

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **Undetermined**
 Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **Undetermined**
 Does corrective action protect public health for current land use? **YES**
 Site management requirements: **None**

Should corrective action be reviewed if land use changes? **YES**
 Monitoring wells Decommissioned: **NA**
 Number Decommissioned: **NA** Number Retained:
 List enforcement actions taken: **None**

List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature: *Eva Chu* Date: 2/1/96

Reviewed by

Name: Amy Leech Title: Haz Mat Specialist

Signature: *Amy Leech* Date: 02/01/96

Name: Dale Klettke Title: Haz Mat Specialist

Signature: *Dale Klettke* Date: 2/1/96

VI. RWQCB NOTIFICATION

Date Submitted to RB: 2/3/96 RB Response: *Approved*

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature: *Kevin Graves* Date: 2/7/96

VII. ADDITIONAL COMMENTS, DATA, ETC.

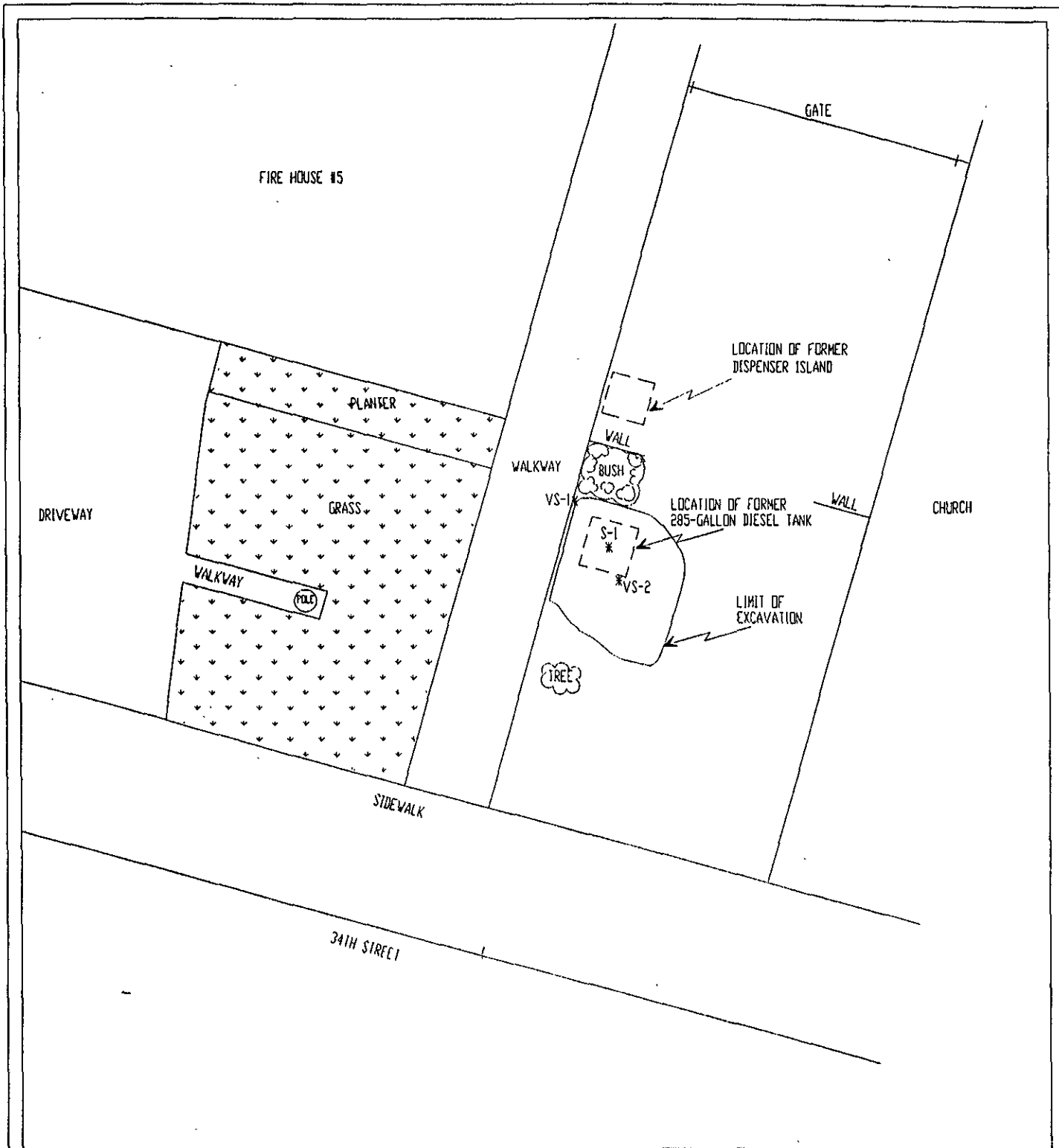
A 285 gallon diesel/gasoline UST was removed on July 13, 1993. The tank was in good condition, with no apparent through-holes. A soil sample, S-1, collected from the bottom of the pit, at 7.5' depth, exhibited up to 780 ppm TPH-D, and ND, 1.2, 12, and 55 ppm BTEX, respectively. Hydrocarbon-impacted soil was further removed. Confirmatory sample VS-1 from the north sidewall at 12' depth and VS-2 from the pit bottom at 13' depth exhibited up to 91 ppm TPH-D, and low levels of BTEX. (See Fig 1, Table 1)

The pit was resampled in August 1993. Soil samples were collected from 3' into the sidewalls at depths ranging from 6 to 12.5'. A bottom sample at 14' depth from the north wall and a bottom sample from the center of the pit were also collected. Analytical results did not reveal remarkable levels of TRPH (Method 418.1) or BTEX. Hydrocarbon-impacted soil appears to be limited to the north and east walls of the pit. (See Fig 2)

An exploratory boring OF-WS was also advanced south of the pit to a depth of 35' where a "grab" groundwater sample was collected (groundwater first encountered at 30' bgs). The water sample did not reveal TRPH, BTEX, or HVOCs (Method 8240). It did exhibit 30 ppb total lead, but this is below CA MCLs for drinking water. (See Fig 2)

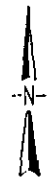
In October 1993 residual hydrocarbon-impacted soil was excavated from the northeast wall and floor of the excavation. Confirmatory soil samples did not detect TPH-D or BTEX. It appears the majority of the impacted soil was removed. (See Fig 3, Table 1)

Regional groundwater flows to the south, southwest. The "grab" groundwater sample collected from south of the pit, at 30' depth, did not exhibit petroleum hydrocarbons. It appears groundwater has not been impacted by the fuel release at the site. Also, sediments below the site consists of low permeability clays and silts, and are not likely to allow rapid migration of infiltrating water to leach any residual contaminants to impact groundwater, which is approximately 20' below the bottom of the former UST. Permanent groundwater monitoring wells are not required.



LEGEND

S-1 * NAME AND LOCATION OF SOIL SAMPLE



0 10
APPROXIMATE SCALE IN FEET

TANK PROTECT ENGINEERING

SITE PLAN
TANK REMOVAL (7/13/93)

FIRE HOUSE #5
934 34TH STREET
OAKLAND, CA 94609

DATE	7/22/93
FIGURE	1
FILE #	235-05
DRAWN BY	
CHECKED BY	LT

Figure 2

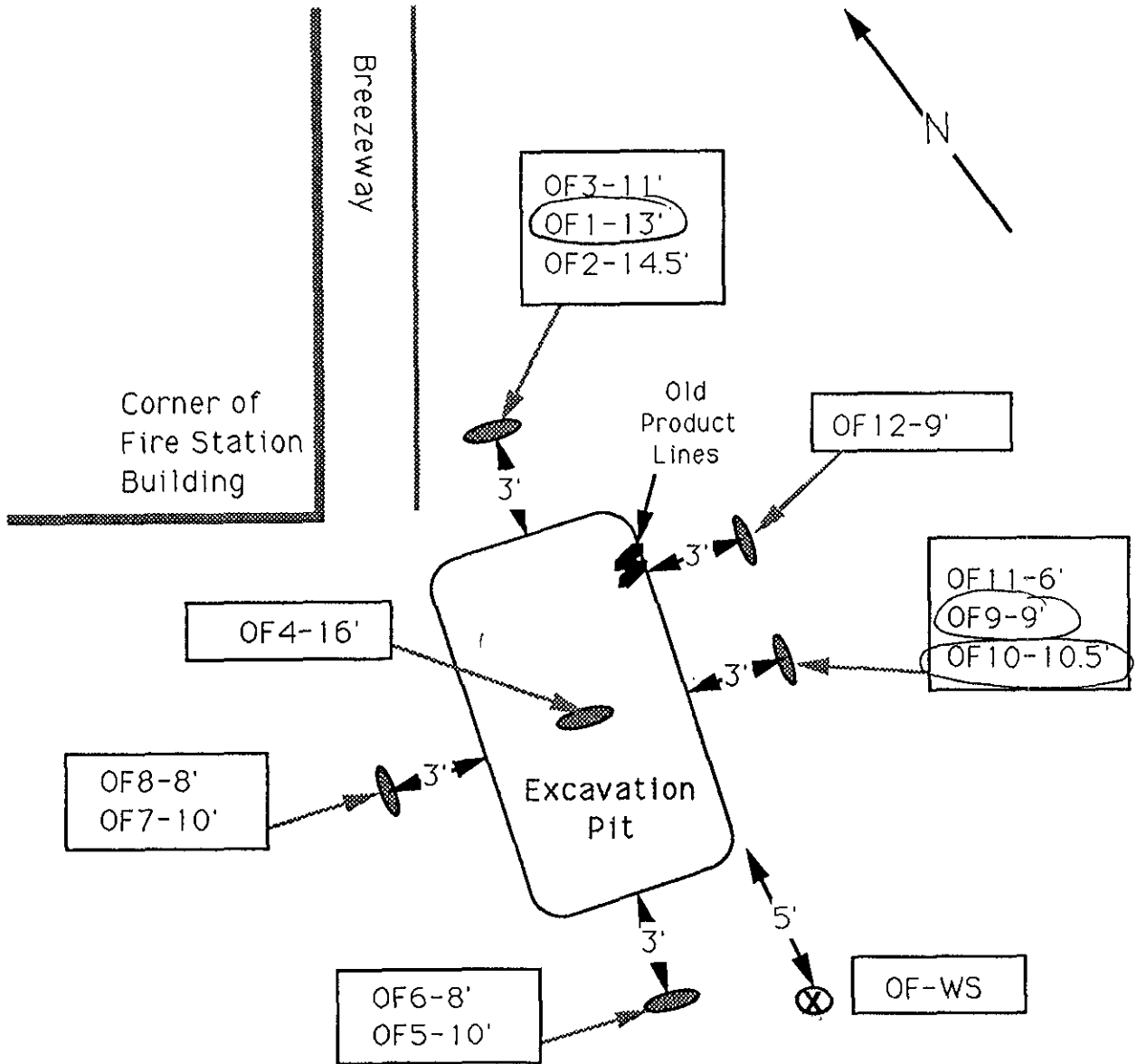
Soil Sample Locations and Groundwater Sample Location

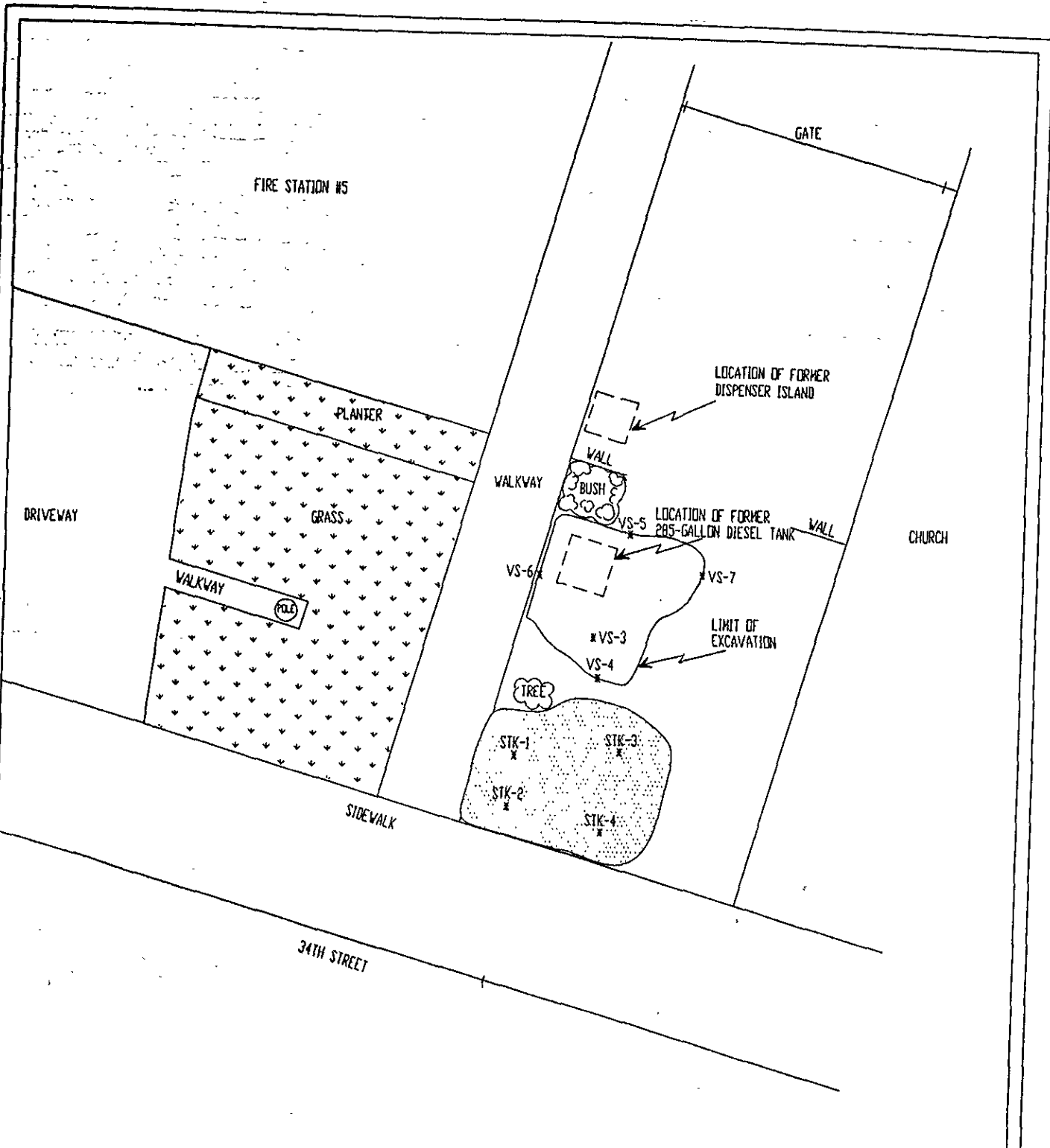
Analytical Results

OF1	TPH=nd	B=nd	T=nd	E=nd	X=12
OF9	TPH=nd	B=nd	T=nd	E=32	X=5.7
OF10	TPH=nd	B=nd	T=nd	E=81	X=nd

Legend Scale 1" = 5'

- Sample Number
- OF3-11' Sample Depth
- Approximate Location of Sample





LEGEND

VS-3 * NAME AND LOCATION OF SOIL SAMPLE



0 10
APPROXIMATE SCALE IN FEET

TANK PROTECT ENGINEERING

SITE PLAN
EXCAVATION AND SOIL SAMPLING (10/5 & 10/6/93)

CITY OF OAKLAND
FIRE STATION #5
934 34TH STREET
OAKLAND, CA 94609

DATE	11/24/93
FIGURE	3 @
FILE #	235-5-2
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TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
(ppm¹)

Sample ID Name	Date	Depth (Feet)	TPHD	Benzene	Toluene	Ethyl-Benzene	Xylenes
S-1	07/13/93	7.0-7.5	780	<.076	1.2	12	55
SP-(1-4)	07/13/93	1.0-2.0	100	<.0076	.110	1.1	3.3
VS-1	07/13/93	12.0	17	<.0050	.0074	.076	.130
VS-2	07/13/93	13.0	91	.032	<.0050	.270	1.3
D-1	07/21/93	1.0-1.5	10	<.0050	<.0050	<.0050	.063
VS-3	10/05/93	16.0-16.5	<1.0	<.0050	<.0050	<.0050	<.0050
VS-4	10/05/93	14.5	<1.0	<.0050	<.0050	<.0050	<.0050
VS-5	10/06/93	9.0	<1.0	<.0050	<.0050	<.0050	<.0050
VS-6	10/05/93	13.5	<1.0	<.0050	<.0050	<.0050	<.0050
VS-7	10/06/93	7.0	<1.0	<.0050	<.0050	<.0050	<.0050
STK-1, 2, 3, 4	10/06/93	1.0	<1.0	<.0050	<.0050	<.0050	<.0050

¹ PARTS PER MILLION