HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 4021 - 5576 Miles Ave, Oakland, CA (1-280 gallon diesel tank removed in March 16, 1988)

April 16, 1998

Mr. Andrew Clark-Clough City of Oakland 1333 Broadway, Suite 330 Oakland, CA 94612

Dear Mr. Clark-Clough:

This letter confirms the completion of site investigation and remedial action for the underground storage tank 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 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, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

cc: Richard Pantages, Chief of Division of Environmental Protection

Chuck Headlee, RWQCB Dave Deaner, SWRCB Leroy Griffin, OFD

'files-ec (fire#19-3)

ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

RO# 857

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StID 4021

April 16, 1998

Mr. Andrew Clark-Clough City of Oakland 1333 Broadway, Suite 330 Oakland, CA 94612

Re: Fuel Leak Site Case Closure for City of Oakland Fire Station #19, at 5776 Miles Ave, Oakland, CA 94618

Dear Mr. Clark-Clough:

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 Protection Division 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.

If you have any questions, please contact me at (510) 567-6762.

eva chu

Hazardous Materials Specialist

enlosure:

- 1. Case Closure Letter
- 2. Case Closure Summary
- c: Frank Kliewer City of Oakland-Planning 1330 Broadway, 2nd Floor Oakland, CA 94612

files-ec (fire#19-4)

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

September 23, 1997 AGENCY INFORMATION Date: I.

Address: 1131 Harbor Bay Pkwy Agency name: Alameda County-HazMat

(510) 567-6700

City/State/Zip: Alameda, CA 94502 Phone: Responsible staff person: Eva Chu Title: Title: Hazardous Materials Spec.

CASE INFORMATION II.

Site facility name: City of Oakland Fire Station #19

Site facility address: 5776 Miles Ave, Oakland, CA 94618

Local Case No./LOP Case No.: 4021 RB LUSTIS Case No: N/A

URF filing date: 11-18-88 SWEEPS No: N/A

Phone Numbers: <u> Addresses:</u> Responsible Parties:

1333 Broadway #330 510/238-6259 Andrew Clark-Clough Oakland, CA 94612 City of Oakland

Size in Contents: <u>Closed in-place</u> Date: Tank or removed?: No: gal.: 3/16/88 Diesel Removed 1 280

RELEASE AND SITE CHARACTERIZATION INFORMATION III.

Cause and type of release: Unknown Site characterization complete? YES

Date approved by oversight agency: 9/18/97

Monitoring Wells installed? Yes Number: 2 piezometers, 1 monitoring well Proper screened interval? Yes, ~17' to 30' bgs

Highest GW depth below ground surface: 18.45' Lowest depth: 19.45' in MW-3

Flow direction: SW to NE

Most sensitive current use: Residential, Temescal Creek

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:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	<u>Date</u>	
Tank &	1 UST	Disposed by H & H, San Francisco	3/16/88	
Piping Soil	18 cy Dis	posed at Chem Waste, Kettleman City	4/21//88	

Maximum Documented Contaminant	Contaminant Concentrations Soil (ppm) Before After	Before and Water (ppb) Before ³ After	
TPH (Gas) TPH (Diesel)	NA NA 1,900 46	ND NA	
Benzene Toluene Ethylbenzene Xylenes	NA NA NA NA NA NA NA NA	ND NE ND NE ND NE))

NOTE: 1 soil sample collected beneath tank at time of UST removal, 3/88

2 soil sample collected after minor overexcavation, 4/88

initial groundwater sampling event, 4/89
 latest groundwater sampling event, 10/93

NA Not Analyzed ND Non-Detect

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?

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan?

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: No, pending site closure

Number Decommissioned: 0 Number Retained: 3

List enforcement actions taken: None

List enforcement actions rescinded: NA

LOCAL AGENCY REPRESENTATIVE DATA v.

W52

Eva Chu Name:

Title: Haz Mat Specialist

Signature:

10/6/97 Date:

Reviewed by

Name: Larry Seto

Title: Sr. Haz Mat Specialist

Signature:

Date: 9-23-27

Thomas Peacock Name:

Title: Supervisor

Signature:

Date: 10-2-97

RWOCB 'NOTIFICATION VI.

RB Response:

Date Submitted to RB: 10/7/97

Title: AWRCE

RWQCB Staff Name: Kevin Graves

Date: 10-22-97

ADDITIONAL COMMENTS, DATA, ETC. VII.

A 285 gallon diesel UST was removed in march 1988. Soil samples collected beneath the UST exhibited up to 1,900 ppm TPHd. Approximately 18 cy of impacted soil was excavated. A confirmatory soil sample collected from the bottom of the pit contained 46 ppm TPHd. It appears overexcavation removed most of the hydrocarbon-impacted soil.

In April 1989 one groundwater monitoring well, MW-3, and two piezometers, P1 and P2, were installed at the site. Soil samples from 9' and 14'bgs and groundwater from the well borings did not contain TPHg, TPHd, or BTEX. (See Fig 1, Table 1)

Groundwater was again sampled in Nov 1989, and April, July, and Oct 1993. TPHd and BTEX were not found above the detection limits during these sampling events. (<u>See</u> Table 2)

Groundwater flow direction has been to the SW, SE, and NE with a relatively flat gradient (see Figs 2 and 3). Although well MW-3 may not be located downgradient of the former UST excavation. Any significant contamination to groundwater would have been detected in well MW-3, located ~5' from the former excavation. It does not appear that the fuel release has impacted groundwater quality beneath the site. Continued monitoring is not warranted.

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed; the site has been adequately characterized; the dissolved plume is not migrating; no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.

fire#19.1

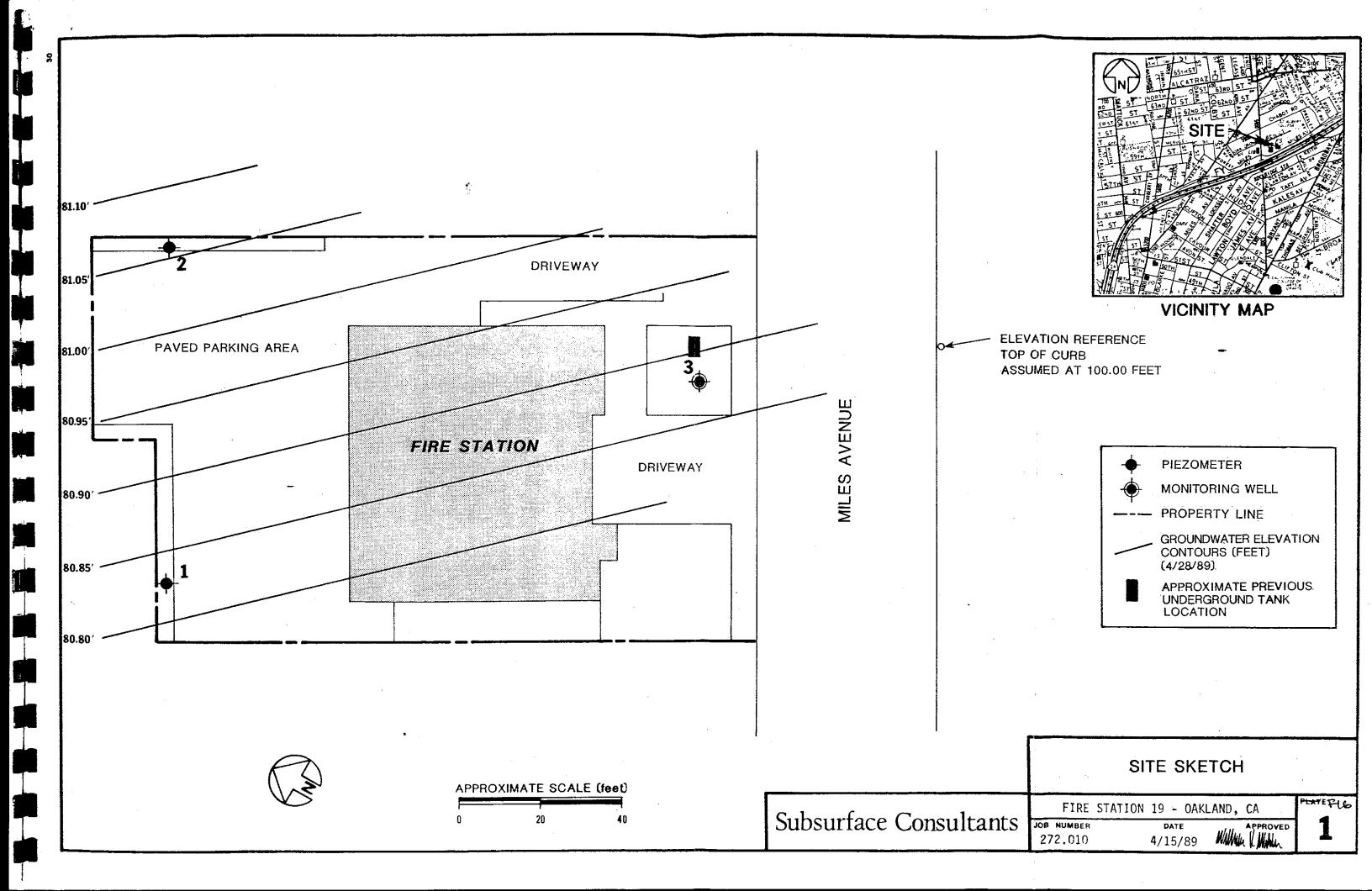


TABLE 1

Sample	Sample Type	Petroleum Hydrocarbons (ppm)1	Benzene (ppm)	Toluene (ppm)	Total Xylenes (ppm)	Ethyl- benzene (ppm)
3 @ 9'	lioa	ND^2 , 3	ND	ND	ND	ND
3 @ 14'	soil	ND ³	ND	ND	ND	ND
MW1	water	ND ³	ND	ND	ND	ND

Parts per million (mg/kg or mg/1)

V GROUNDWATER LEVEL MEASUREMENTS

A level survey, using an assumed elevation reference, was performed to determine the top of casing elevation for the piezometers and monitoring well. The depth to groundwater, below the top of each casing, was measured several times using a well sounder. The direction and gradient of groundwater flow was determined, based upon this data. The flow direction and contours for the April 28, 1989 reading are shown on the Site Plan. The results of all readings to date are summarized in the following table.

None detected, see attached test data sheets for detection limits

Results of both TVH and TEH analytical tests

TABLE 2

Hydrocarbon Concentrations April and July 1993 Monitoring Event City of Oakland Fire Station No. 19 Oakland, California

Well or Piezometer Number	Sample [D	sample Date	TPH-D (mg/l)	Benzene (ug/l)	Ethylbenzene (ug/l)	Toluene (ug/l)	Total Xylenes (ug/l)
Pl	N/A	N/A	NA	NА	NA.	na -	NA
P2	N/A	N/A	NA	NA	NA	NA	NA.
НМЗ	ЕММ	4-13-93 7-20-93 10-29-93	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1	<1 <1 <1

Notes:

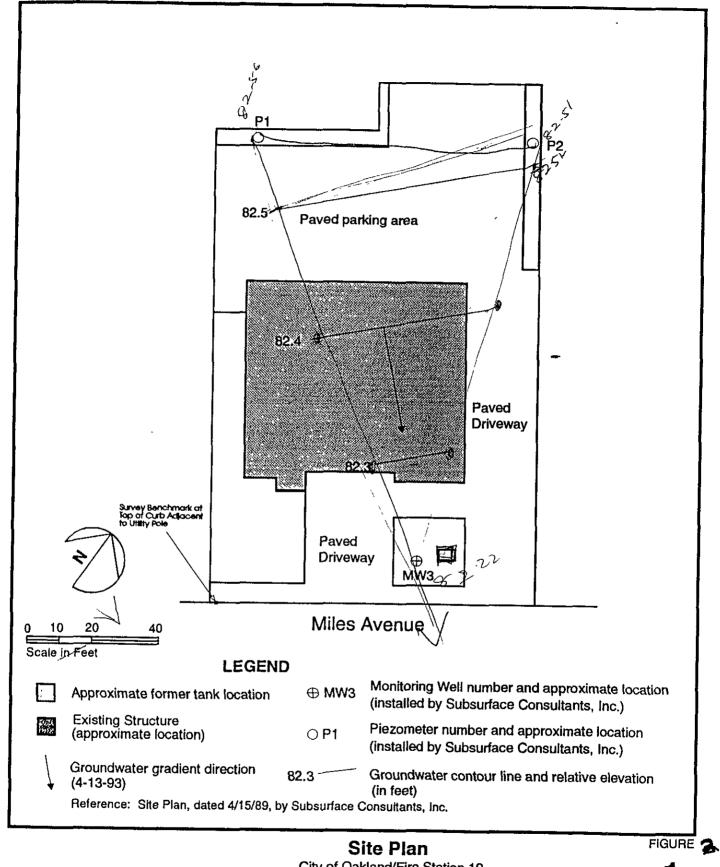
mg/l - milligrams per liter

TPH-D - total petroleum hydrocarbons as diesel fuel

ug/l - micrograms per liter

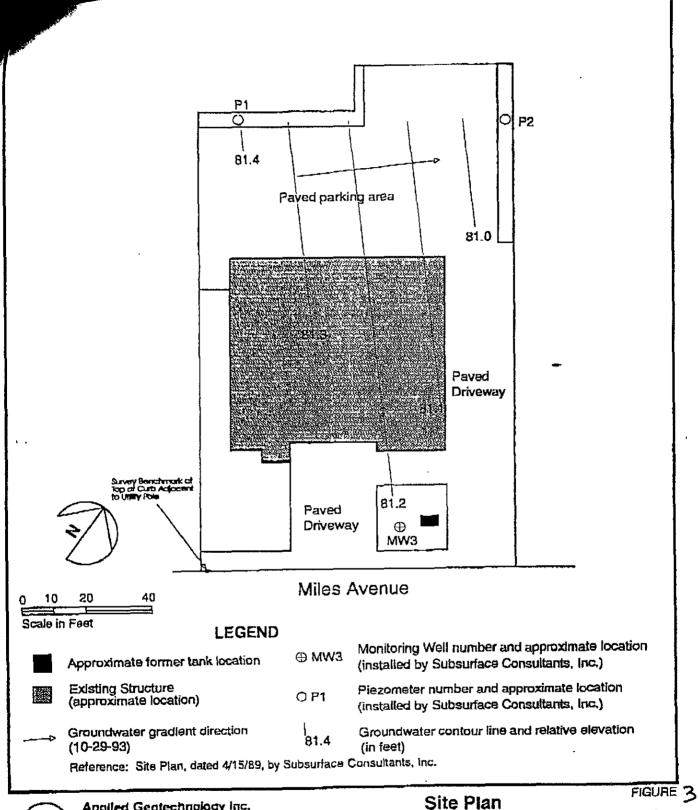
N/A - not applicable

NA - not analyzed



City of Oakland/Fire Station 19 Oakland, California đ

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Applied Geatechnology Inc. Geotechnical Engineering Geology & Hydrogeology

City of Oakland/Fire Station 19 Oakland, California đ

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