# ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

July 24, 1995

STID 4096

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700

# REMEDIAL ACTION COMPLETION CERTIFICATION

Castro Valley Unified School District P.O. Box 2146 Castro Valley, CA 94546 Attn: William Macedo

RE: CASTRO VALLEY HIGH SCHOOL, 19400 SANTA MARIA AVENUE, CASTRO VALLEY

Dear Mr. Macedo:

This letter confirms the completion of site investigation and remedial action for one fuel and one waste oil underground storage tanks formerly located at the above-described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including 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 storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e). If a change in land use is proposed, the owner <u>must</u> promptly notify this agency.

Please contact Scott Seery at (510) 567-6783 if you have any questions regarding this matter.

Sincerely,

Rafat A. Shahid

RICAS

Director of Environmental Services

CC: Thomas Peacock, Acting Chief, Env. Protection Division Kevin Graves, RWQCB Mike Harper, SWRCB Jim Ferdinand, Alameda County Fire Department

# CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

Date: 07/05/95

# I. AGENCY INFORMATION

Agency name: Alameda County-EPD Address: 1131 Harbor Bay Pkwy #250

City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700

Responsible staff person: Scott Seery Title: Sr. Haz. Materials Spec.

### II. CASE INFORMATION

Site facility name: Castro Valley High School

Site facility address: 19400 Santa Maria Avenue, Castro Valley 94546

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4096

URF filing date: 8/10/93 SWEEPS No: N/A

# Responsible Parties: Addresses: Phone Numbers:

Castro Valley Unified P.O. Box 2146 510/537-3000

School District Castro Valley, CA 94546

Attn: William Macedo

No:	Size in gal.:	<u>Contents:</u>	<u>Closed in-place</u> or removed?:	<u>Date:</u>
1	5000 gal	fuel oil waste oil	removed	8-4-93

### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: UNK

Site characterization complete? YES

Date approved by oversight agency:

Monitoring Wells installed? NO Number: NA

Proper screened interval? NA

Highest GW depth below ground surface. UNK Lowest depth:

Flow direction: UNK (presumed south)

Most sensitive current use: school

Are drinking water wells affected? NO Aquifer name: C.V. Basin

Is surface water affected? NO Nearest affected SW name: NA

Off-site beneficial use impacts (addresses/locations): NONE

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# Leaking Underground Fuel Storage Tank Program

Report(s) on file? YES Where is report filed? Alameda County
1131 Harbor Bay Pkwy
Alameda CA 94502

Treatment and Disposal of Affected Material:

	· · · · = <b>.</b> · · · · · · · · · · · · · · · · · · ·		
<u>Material</u>	<u>Amount</u>	Action (Treatment	<u>Date</u>
	<u>(include units)</u>	of Disposal w/destination)	···· -
Tank $(1 x)$	500; 1 x 5000 gal)	disposal-H&H Env Service	8-4-93
Piping	~60 ft	(presumed as above)	~9-7-93
Free Product	. NA		
Soil	144 yds³	<u>disposal</u> - BFI landfill	9/2, 9/7,
		Livermore	9/8/93
	27 yds³	<u>disposal</u> - Redwood LF	8/8 and
	_	Novato, CA	9/10/93
Groundwater	NA		
Barrels	17		

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)
Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	-	<b>opm)</b> After	<b>Water (ppb)</b> Before After		
EDIT (A)		·			
TPH (Gas)	ND	NA	NA	NA	
TPH (Diesel)	400	ND	ND	11	
Benzene	ND	11	14	11	
Toluene	0.0074	17	11	17	
Xylene	0.037	TT .	1.3	11	
Ethylbenzene	0.0093	11	ND	11	
Oil & Grease	1100	11	NA	п	
Heavy metals	*	NA	Ħ	11	
Other <b>SVOC</b>	2**	11	11	17	
HVOC	ND	II	ŧi	11	

All target metals appear to be present at geogenic concentrations.

# Comments (Depth of Remediation, etc.):

Discoloration and the odor of hydrocarbons were identified in native clayey material surrounding the 500 gallon waste oil UST upon its removal. The initial soil sample collected at the base of the excavation (~9' BG) revealed 1100 ppm TOG and 400 ppm TPH-D. TPH-G, fuel aromatics and HVOCs were "ND." Metals appear to be at geogenic concentrations. Of the SVOCs sought, only 2 ppm of 2-methyl naphthalene was identified in stockpiled material. The excavation was expanded vertically to ground water (~11' BG) and horizontally to a finished dimension of 13 x 16 x 11' deep. Four (4) sidewall samples were collected. All selected analytes were "ND" in these final samples.

Result is for the SVOC 2-methyl naphthalene detected in stockpile sample.

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# Leaking Underground Fuel Storage Tank Program

Although at least one throughgoing corrosion hole was observed in the 5000 gallon fuel oil tank upon its removal, no obvious sign of a release was observed. Ground water (GW) was present in this excavation with what appeared to be product emulsion floating on its surface. A water sample revealed only the presence of total xylene isomers at a concentration of 1.3 ug/l. Two (2) sidewall samples, collected from either end of the excavation, failed to reveal the presence of any target compounds.

Supply, return, and vent piping leading from the fuel oil UST towards the boiler room was removed several weeks later. Two (2) soil samples were collected. Analysis revealed only very minor concentrations of TEX.

#### 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: NA

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommisioned:

Number Decommisioned: NA Number Retained: NA

List enforcement actions taken:

List enforcement actions rescinded: NONE

٧. LOCAL AGENCY XEPRESENTATIVE DATA

Name: Scott Seery

Signature:

Reviewed by

Name: Juliet Shin

Signature: <

Name: Tom Peacock

Signature:

Title: Sr Haz Mat Specialist

Date: 7-5-95

Title: Sr Haz Mat Specialist

7/5/95 Date:

Title: Supervising HMS

Date:

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# Leaking Underground Fuel Storage Tank Program

# VI. RWQCB NOTIFICATION

Date Submitted to RB: RB Response:

RWQCB Staff Name: Kevin Graves Title: San. Engineering Asso. Date:

# VII. ADDITIONAL COMMENTS, DATA, ETC.

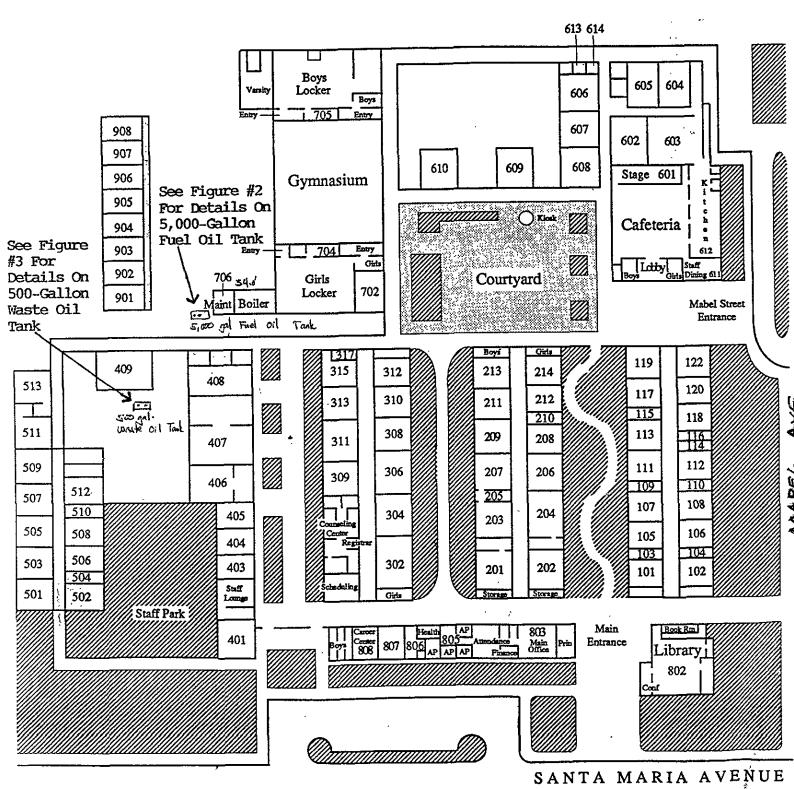
The subject USTs were located well within the boundaries of this multiple acre site. The fuel oil UST closure results were essentially "clean" with only trace (1.3 ug/l) total xylenes in sampled GW. Although soil contamination was identified in native materials during the course of the waste oil UST closure, overexcavation revealed that the contamination was severely limited in both extent and chemical composition: only TOG and TPH-D were present in the initial sample at noteworthy concentrations, and were reduced to "ND" within a couple feet of the UST. Aromatic compounds were not identified in sampled material at all. Encountered native sediments surrounding the waste oil UST were fine grained with a substantial clay content.

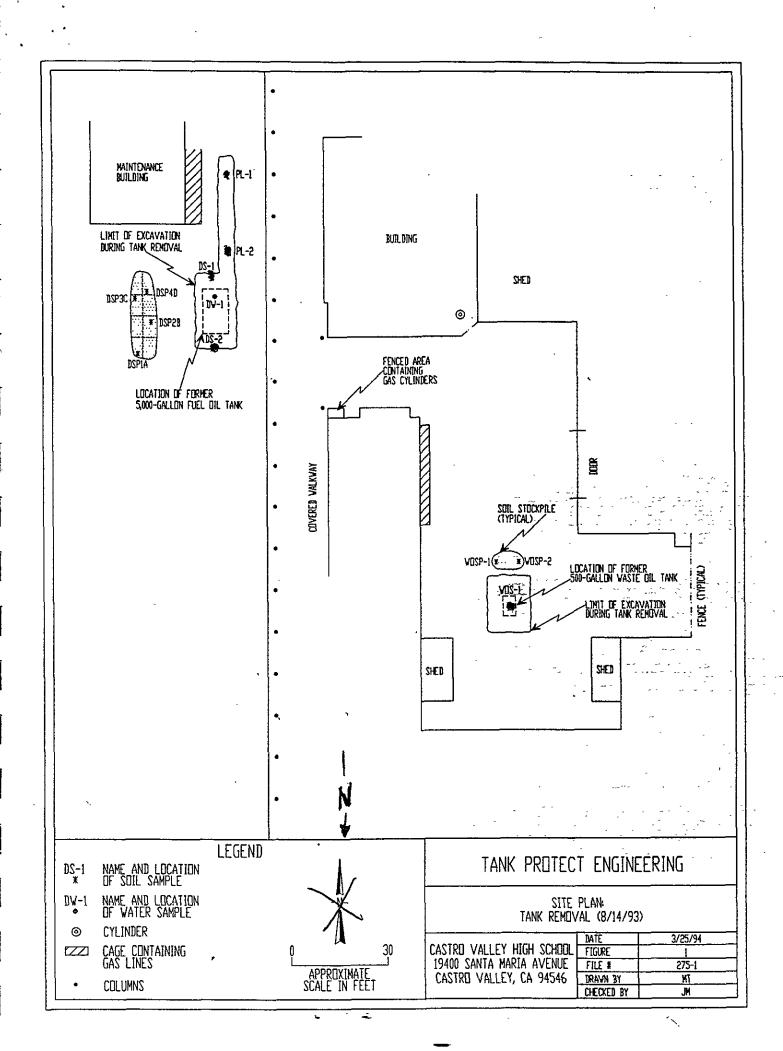
Although strictly according to current RWQCB guidance documents a GW investigation should follow, such does not appear warranted for the following reasons:

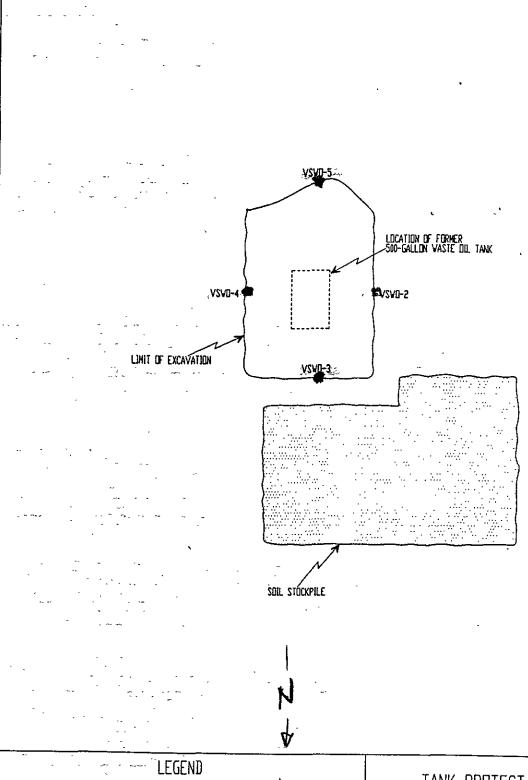
- 1) Native sediments are fine grained with a substantial clay content. As evidenced in the waste oil UST excavation, contaminant migration under both saturated and vadose zone conditions is severely attenuated by the adsorptive properties of such fine grained materials.
- 2) No aromatic compounds were identified in analyzed samples from the waste oil UST excavation. Higher boiling point, long chain hydrocarbons were exclusively present.
- 3) Only 2 ppm of a single PNA species was identified in sampled material from the waste oil UST excavation stockpile.
- 4) Only 1.3 ug/l total xylene isomers were identified in shallow GW collected from the fuel oil UST excavation.
- The subject USTs were located within the heart of a large contiguous site. Based on known general Castro Valley GW flow regimes, the closest site boundary is located several hundred feet downgradient (south) of the former UST locations. The likelihood of a hydrocarbon plume, if present, to migrate beyond site boundaries is improbable.

# Castro Valley High School 19400 Santa Maria Avenue • Castro Valley, California









NOT TO SCALE

vsvd-2 NAME AND LOCATION \* OF SOIL SAMPLES TANK PROTECT ENGINEERING

SITE PLAN: VERIFICATION SOIL SAMPLING (8/19/93)

CASTRO VALLEY HIGH SCHOOL FIGURE 2
19400 SANTA MARIA AVENUE FILE # 275-2
CASTRO VALLEY, CA 94546 DRAVN BY MT
CHECKED BY JM

# TABLE 1 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS (ppm¹)

	Sample ID Name	Date	Depth (Feet)	TPHD	ТРНС	Benzene	Toluene	Ethyl- Benzene	Xylenes	Oil & Grease
Ì	DS-1	08/04/93	9.5	<1.0	NA <sup>2</sup>	<.0050	<.0050	<.0050	<.0050	NA
اعدا	DS-2	08/04/93	9.5	<1.0	NA	<.0050	<.0050	<.0050	<.0050	NA
	DSP-1A	08/04/93	3.0	<1.0	NA	<.0050	<.0050	<.0050	<.0050	NA
	DSP-2B	08/04/93	3.0	. <1.0	NA	<.0050	<.0050	<.0050	<.0050	NA
$\langle   $	DSP-3C	08/04/93	3.0	<1.0	NA	<:0050	<.0050	<.0050	<.0050	NA
	DSP-4D	.08/04/93	3.0	6.9	NA	<.0050	<.0050	<.0050	<.0050	NA
57	AND COMMEN	08/04/93	9.0	MOON	<1.0	<.0050	<.0050	<.0050	<.0050	
الا	WOSP-(1-2) <sup>3, 4</sup>	08/04/93	1.0-1.5	210	<1.0	<.0050	<.0050	<.0050	<.0050	280
Ž,	S1-1,2,3,4 <sup>5, 6</sup>	08/18-19/93	9.0-9.5	780	NA	NA	NA	NA	NA	440
1	VSWO-2	08/19/93	9.0	<1.0	NA	NA	NA	NA	NA	<10
М	VSWO-3	08/19/93	10.0	<1.0	NA	NA	NA	NA	NA	<10
5	VSWO-4	08/19/93	9.0	<1.0	NA	NA	NA	NA	NA	<10
4	VSWO-5	08/19/93	9.0	<1.0	NA	NA	NA	NA	NA	<10
$\int$	PL-1	09/07/93	4.0	<1.0	NA	<.0050	<.0050	.0076	.021	NA
	PL-2	09/07/93	4.0	<1.0	NA	<.0050	.0074	.0093	.037	NA

<sup>&</sup>lt;sup>1</sup> PARTS PER MILLION

<sup>&</sup>lt;sup>2</sup> NOT ANALYZED

<sup>3</sup> ALSO ANALYZED BY EPA METHOD (8010: ALL RESULTS WERE NONDETECTABLE (SEE APPENDIX C)

<sup>&</sup>lt;sup>4</sup> ALSO ANALYZED BY EPA METHOD 8270; ALL RESULTS WERE NONDETECTABLE; WITH THE EXCEPTION OF 2 ppm 2-METHYL NAPHTHALENE, DETECTED IN SAMPLE WOSP-(1-2) (SEE APPENDIX C)

<sup>5</sup> ALSO ANALYZED BY EPA METHOD 8240; ALL RESULTS WERE NONDETECTABLE (SEE APPENDIX C)

<sup>6</sup> ALSO TESTED FOR STLC CAM 17 METALS, REACTIVITY, CORROSIVITY AND IGNITABILITY (SEE TABLE 4 AND APPENDIX C FOR RESULTS)

# TABLE 2 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FOR METALS (ppm¹)

Sample ID Name	Date	Cadmium	Chromium	Lead	Nickel	Zinc
WOS-1	08/04/93	0.6	32	14	27	38
WOSP-(1-2)	08/04/93	0.5	37	9.7	42	27

<sup>&</sup>lt;sup>1</sup> PARTS PER MILLION

TABLE 3 SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS  $(ppb^1)$ 

Sample ID Name	Date	TPHD	Benzene	Toluene	Ethyl- Benzene	Xylenes
DW-1	08/04/93	<50	<0.5	<0.5	<0.5	1.3

<sup>&</sup>lt;sup>1</sup> PARTS PER BILLION