

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

January 19, 2000

STID 4342

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9432

REMEDIAL ACTION COMPLETION CERTIFICATION

Alameda County General Services Agency
1401 Lakeside Drive
Oakland, CA 94612-4305
Attn: Rod Freitag

RE: Alameda County Juvenile Hall, 2200 Fairmont Drive, San Leandro

Dear Mr. Freitag:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks 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 tanks 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 Section 2721(e) of Title 23 of the California Code of Regulations.

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

Sincerely,

Mee Ling Tung
Director, Environmental Health Services

c: Chuck Headlee, RWQCB
Dave Deaner, SWRCB (w/attachment)

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Alameda County General Services Agency
1401 Lakeside Drive
Oakland, CA 94612-4305
Attn: Rod Freitag

RE: Alameda County Juvenile Hall, 2200 Fairmont Drive, San Leandro

Dear Mr. Freitag:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]) of the California Health and Safety Code. The State Water Resources Control Board (SWRCB) has required since March 1, 1997 that this agency 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 this site.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- o Concentrations of all targeted petroleum fuel compounds were below laboratory detection limits in soil.

If you have any questions, please contact the undersigned at (510) 567-6783.

Sincerely,

Scott O. Seery, CHMM
Hazardous Materials Specialist

Enclosures:

1. Case Closure Letter
2. Case Closure Summary

cc: Ariu Levi, Chief

SIGNED
COPY

RB# 01-1835

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 12/22/99

Agency name: **Alameda County-EPD**
City/State/Zip: **Alameda, CA 94502**
Responsible staff person: **Scott Seery**

Address: **1131 Harbor Bay Pkwy #250**
Phone: **(510) 567-6700**
Title: **Haz. Materials Spec.**

II. CASE INFORMATION

Site facility name: **Alameda County Juvenile Hall**
Site facility address: **2200 Fairmont Drive, San Leandro 94578**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **4342**
URF filing date: **08/13/93** SWEEPS No: **N/A**

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Alameda County General Services Agency Attn: Rod Freitag	1401 Lakeside Drive Oakland, CA 94612-4305	(510) 208-9525

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	10,000	diesel	closed in-place	06/22/98
2	7000	fuel oil	removed	10/11/94
3	325	diesel	removed	07/19/93

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: holes in 325 and 7000 gal. tanks

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: UNK

Flow direction: UNK

Most sensitive current use: juvenile detention facility

Are drinking water wells affected? NA Aquifer name: NA

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

ENVIRONMENTAL PROTECTION
JAN 14 4 11 PM '00

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ENVIRONMENTAL PROTECTION

Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

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

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

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank	7000 gals.	<u>Disposal</u> – Erickson Richmond, CA	10/10/94
	325 gals.	<u>Disposal</u> – Erickson Richmond, CA	07/19/93
Piping Product	UNK ~250 gals.	as above, where applicable <u>Disposal</u> – Artesian Oil Recovery Oakland, CA	02/24/98
	~62 gals.	<u>Disposal</u> – Gibson Oil Redwood City, CA	03/26/93
Soil	~252 tons	<u>Recycled</u> – Port Costa Materials Port Costa, CA	11/04/94
	~ 5 cu yds	<u>Disposal</u> – Forward LF Stockton, CA	10/07/93

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) ^{1,2}		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	NA	NA	NA	NA
TPH (Diesel)	4800	ND	"	"
Benzene	ND	"	"	"
Toluene	0.033	"	"	"
Xylene	0.65	"	"	"
Ethylbenzene	0.45	"	"	"
Oil & Grease	NA	NA	"	"
Other MtBE	NA	ND ³	"	"

- Notes:** 1) "Before" soil sample results are represented by sample T1-2-NE, collected from the base of the 7000 fuel oil UST pit at a depth of 22" BG.
 2) "After" soil sample results are represented by sample T5-N-23', collected from the base of the 325 gallon diesel UST pit after overexcavation activities.
 3) **MtBE** was not sought during any of the UST closure work, as analysis for this target compound was not required at that time for the products stored in the subject tanks. However, with concurrence from the RWQCB, McCampbell laboratory reviewed the chromatograms for sample T4-N-20' and determined that there was no evidence of MtBE.

Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Comments (Depth of Remediation, etc.):

This site, a juvenile detention facility operated by Alameda County, is located within the Hayward fault zone in the hills above and east of unincorporated San Leandro at an approximate elevation of 240' MSL. Three (3) underground storage tanks were previously in operation at this site: 325 gallon diesel, 7000 fuel oil, and 10,000 diesel. Each was taken out of service and closed between 1993 and 1998.

The 325 gallon diesel fuel tank, removed in March 1993, was used as an emergency generator fuel source. This tank was located directly adjacent to, but at a shallower depth than, the 7000 gallon fuel oil tank that was subsequently removed in 1994. The fuel oil was used by a boiler located in the basement of the attached building. Upon removal, both tanks showed signs of advanced corrosion and throughgoing holes (up to 3" across in the smaller tank).

Soil samples collected following the removal of the 325 gallon tank revealed up to 750 ppm TPH-d and no aromatics at the 15' depth, the base of that excavation. Overexcavation of this tank pit did not occur at that time. Samples collected in October 1994 from the floor of the 7000 gallon tank excavation following its removal exhibited up to 4800 ppm TPH-D and trace TEX at the 22' depth. The north end of the excavation appeared to be the most impacted by the releases from these two tanks.

Overexcavation of this collective tank pit resulted in final overall pit dimensions of 19 x 14 x 20' deep, extended to 23' at the north end. Excavation was limited by the adjacent roadway and excavator capabilities. Final pit bottom samples (T3-N-23' and T5-N-23') were void of detectable target compounds.

Approximately 252 tons of impacted stockpiled soil was reportedly transported to Port Costa Materials (Port Costa, CA) for incorporation into asphaltic products, with another 5 yds³ transported to Forward landfill (Stockton, CA). The excavation was reportedly restored with both "clean" stockpile soils and ¾" crushed rock.

The 10,000 diesel tank (and an associated ~200' of piping) was closed in-place with approval from both this office and that of the Alameda County Fire Department. This tank, located remote to the two smaller tanks, previously served as fuel source for both a boiler and emergency generator in two separate locations.

Samples were reportedly collected using hand auger at the bottom ends of the subject tank, and at ~20' intervals where possible along the extensive piping run. No appreciable impact was noted in any of the samples. In-place closure was, consequently, approved. The tank was filled in June 1998 with cement slurry after both it and piping were reportedly cleaned. The record is unclear as to the techniques used to abandon the piping.

IV. CLOSURE

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

Leaking Underground Fuel Storage Tank Program

IV. CLOSURE (Continued)

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: NA

Should corrective action be reviewed if land use changes? YES

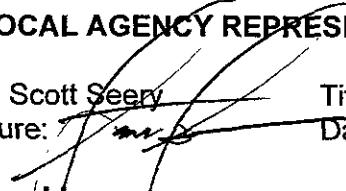
Monitoring wells Decommissioned: NA


Number Decommissioned: NA Number Retained: NA


List enforcement actions taken: None

List enforcement actions rescinded:

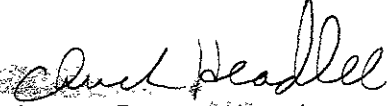
V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Scott Seery Title: Haz Mat Specialist
Signature:  Date: 12-22-99

Reviewed by
Name: Tom Peacock Title: Supervising Haz Mat Specialist
Signature:  Date: 1-3-2000

Name: Eva Chu Title: Haz Mat Specialist
Signature:  Date: 12/21/99

VI. RWQCB NOTIFICATION

Date Submitted to RB: 01/03/00 RB Response: 
RWQCB Staff Name: Chuck Headlee Title: San. Eng. Assoc. Date: ~~1/10/99~~ 1/19/00

VII. ADDITIONAL COMMENTS, DATA, ETC.

This case should be closed as it meets the definition of a "Low Risk Soils Case", as outlined in the 05 January 1996 guidance from the San Francisco Bay Regional Water Quality Control entitled "Regional Board Supplemental Instructions to State Water Board December 8, 1995, Interim Guidance on Required Cleanup at Low-Risk Sites", as follows:

Leaking Underground Fuel Storage Tank Program

VII. ADDITIONAL COMMENTS, DATA, ETC. (Continued)

- 1) The leak has been stopped and ongoing sources, including free product, have been removed or remediated.**

The suspect USTs, as well as residual product, have been removed from the site. In addition, some 252 tons of diesel-impacted soil was excavated from the impacted tank pit and disposed and/or recycled.

- 2) The site has been adequately characterized.**

Based on sampling results from the limited overexcavation of the combined 325 and 7000 gallon tank pits, any residual impacts are expected to be severely limited in extent and inconsequential in effect. This impression is supported by 1) the nondetectable concentrations of target compounds in soil samples collected at the conclusion of excavation activities, and 2) the inherent nature of the released product (fuel oil, diesel) to bind to soil. Hence, further investigation does not appear warranted.

- 3) Little or no groundwater impact currently exists and no contaminants are found at levels above established MCLs or other applicable water quality objectives.**

Based on the location of the subject site, ~240' above MSL in the bedrock hills above San Leandro, groundwater impacts are not reasonably expected.

- 4) No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted.**

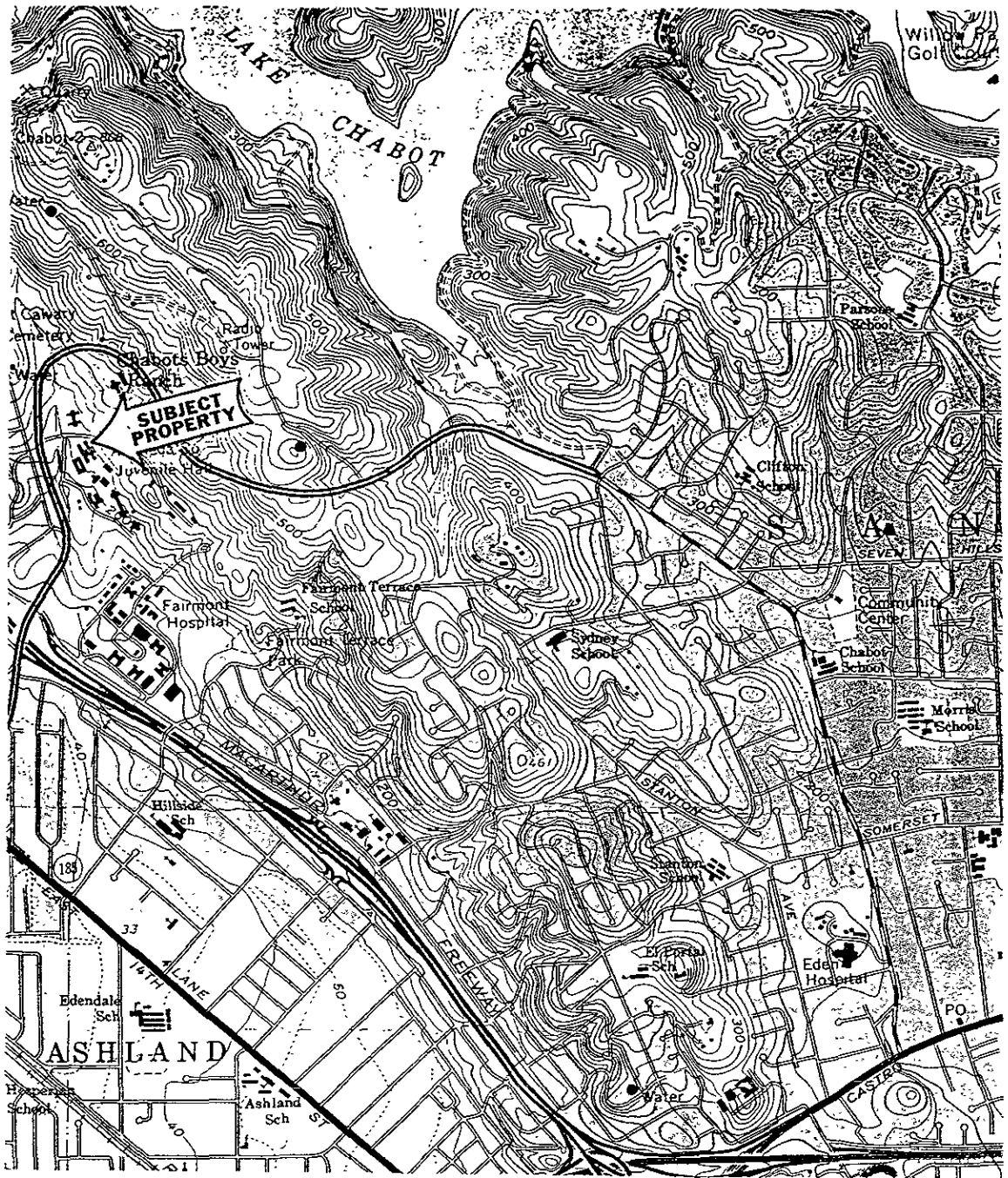
There are no known drinking water wells or aquifers, or surface water in close proximity to the site.

- 5) The site presents no significant risk to human health.**

Site conditions were compared to ASTM E1739-95 guidance and Tier 1 RBSL values. This review revealed that no reasonable exposure pathways were anticipated to be complete. Therefore, no significant health risk is anticipated for on-site receptors.

- 6) The site presents no significant risk to the environment.**

No potential risk was identified due to the geographic separation of the site from any potential receptor locations (e.g., San Francisco Bay, San Leandro Creek).



PSI Environmental Geotechnical Construction
 Consulting • Engineering • Testing

1320 West Winton
 Hayward, CA 94545
 510-785-1111
 Fax 510-785-1192

PROJECT LOCATION:
 Alameda County Juvenile Hall
 2200 Fairmont Drive
 Hayward, CA .

Figure 1

PROJECT NO.:
 575-8G019

SOURCE:
 USGS Topographic Map
 Hayward Quadrangle

DATE:
 1961, photorevised 1968
 and 1973



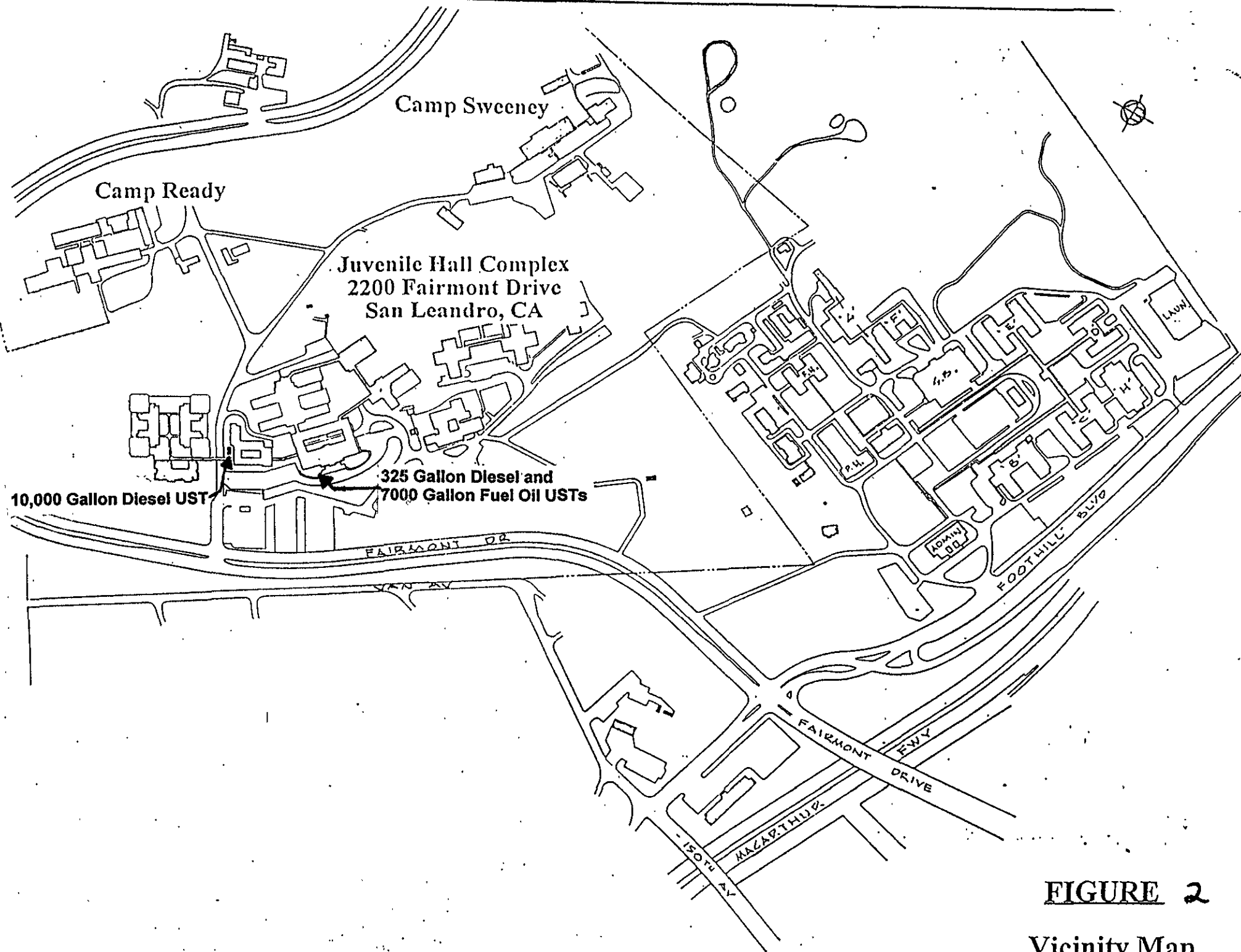
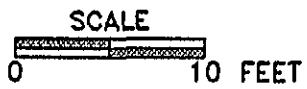
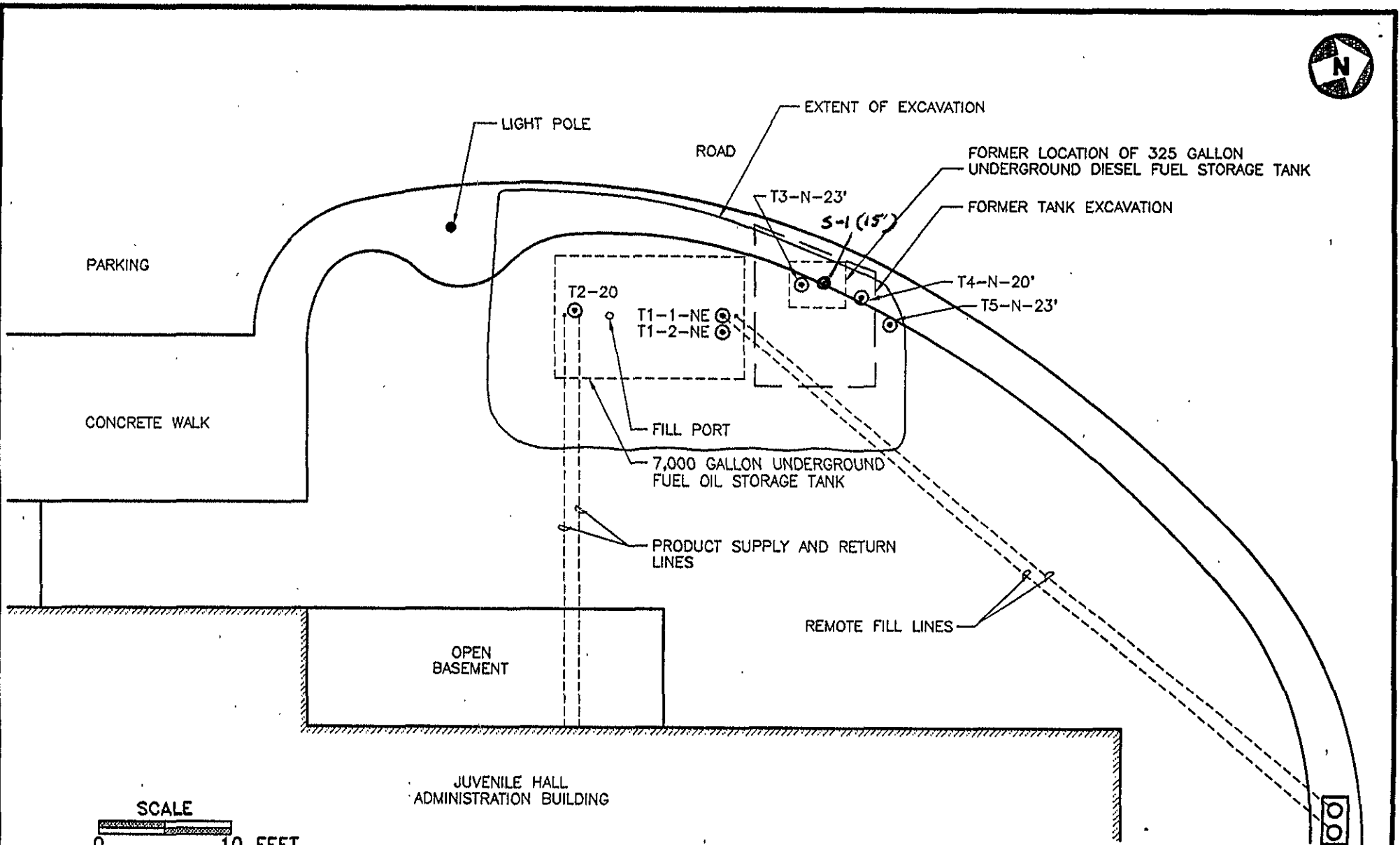



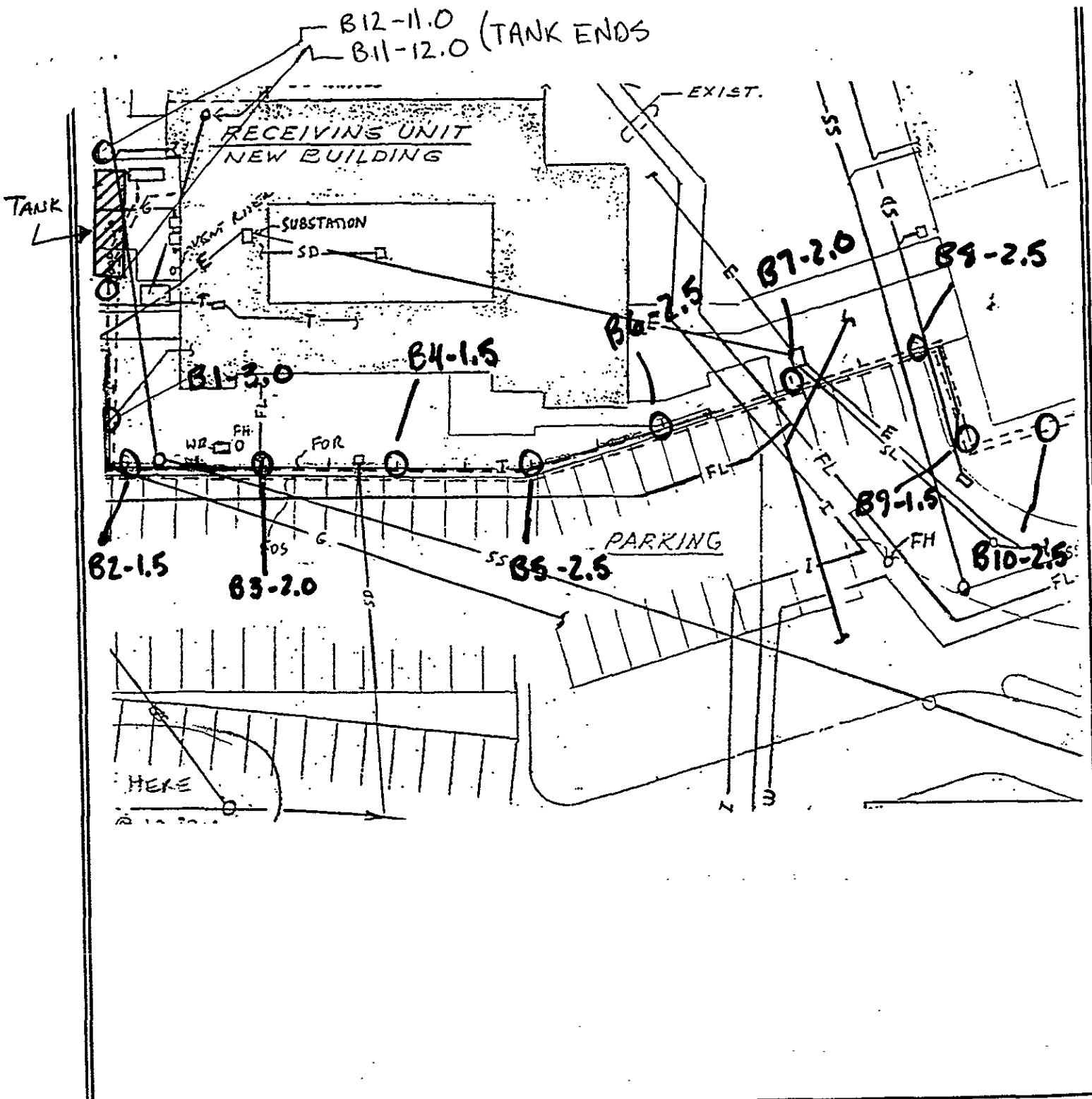
FIGURE 2

Vicinity Map



LEGEND
 ◎ SOIL SAMPLE LOCATION

	Environmental Science & Engineering, Inc. 4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	DATE 10/27/94	325 Gallon Diesel and 7000 Gallon Fuel Oil SAMPLING PLAN	FIGURE NO. 3
		REMISED		ALAMEDA COUNTY GENERAL SERVICES AGENCY ALAMEDA COUNTY JUVENILE HALL SAN LEANDRO, CALIFORNIA
		CAD FILE 52570002		



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SITE MAP:
 Alameda County Juvenile Hall
 2200 Fairmont Drive
 Hayward, CA.

FIGURE 4

PROJECT NO.:
 575-8G019

SOURCE:
 USGS Topographic Map
 Hayward Quadrangle

DATE:
 1961, photorevised 1968
 and 1973



Table 1. Underground Storage Tank Excavation / Piping Sampling Results
 Juvenile Hall, 2200 Fairmont Drive, San Leandro

325 Gallon Diesel Fuel – sampled July 1993 (and October 1994)

Sample	TPH-D	Benzene	Toluene	E. Benz.	Xylenes	MtBE
S-1	750	<0.025	<0.025	<0.025	<0.025	NA
T3-N-23'	<10	<0.005	<0.005	<0.005	<0.005	NA
T4-N-20'	1000	<0.005	<0.005	<0.005	<0.005	NA
T5-N-23'	<10	<0.005	<0.005	<0.005	<0.005	NA

Concentrations expressed in mg/kg (ppm)

7000 Gallon Fuel Oil – sampled October 1994

Sample	TPH-D	Benzene	Toluene	E. Benz.	Xylenes	MtBE
T1-1-NE	470	<0.005	<0.005	<0.005	<0.005	NA
T1-2-NE	4800	<0.01	0.033	0.45	0.65	NA
T2-20'	<10	<0.005	<0.005	<0.005	<0.005	NA

Concentrations expressed in mg/kg (ppm)

10,000 Gallon Diesel Fuel – sampled June 1998

Sample*	TPH-D	Benzene	Toluene	E. Benz.	Xylenes	MtBE
B1-3.0	1.7	<0.005	<0.005	<0.005	<0.005	NA
B2-1.5	9.0	<0.005	<0.005	<0.005	<0.005	NA
B3-2.0	3.5	<0.005	<0.005	<0.005	<0.005	NA
B4-1.5	2.0	<0.005	<0.005	<0.005	<0.005	NA
B5-2.5	2.2	<0.005	<0.005	<0.005	<0.005	NA
B6-2.5	3.6	<0.005	<0.005	<0.005	<0.005	NA
B7-2.0	<1.0	<0.005	<0.005	<0.005	<0.005	NA
B8-2.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
B9-1.5	<1.0	<0.005	<0.005	<0.005	<0.005	NA
B10-2.5	1.1	<0.005	<0.005	<0.005	<0.005	NA
B11-12.0	<1.0	<0.005	<0.005	<0.005	<0.005	NA
B12-11.0	<1.0	<0.005	<0.005	<0.005	<0.005	NA

Concentrations expressed in mg/kg (ppm)

* Note: Second figure in above sample designation (e.g., the "3.0" in B1-3.0) indicates sampling interval, with units in feet below grade.