UST 1

GeoStrategies Inc.

FINAL REPORT DOCUMENTING THE CLOSURE AND ABANDONMENT IN PLACE OF THE UNDERGROUND STORAGE TANK

at

Fairmont Hospital
15400 Foothill Boulevard
San Leandro, California

614201-02

Report prepared for

Alameda County General Services Agency
Engineering & Environmental Management Department
1401 Lakeside Drive
Oakland, CA 94612

by

GeoStrategies Inc.
6747 Sierra Court, Suite G
Dublin, CA 94568

Lisa L. Kelly
Staff Engineer

Stephen J. Carter
Senior Project Geologist R.G. #5577

REGISTERED GEOLOGIST
STEPHEN J. CARTER
No. 5577
STATE OF CALIFORNIA

October 4, 1994

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Final Report
614201-02

October 4, 1994

1.0 INTRODUCTION

At the request of Alameda County General Services Agency (GSA), GeoStrategies Inc. (GSI) has prepared this Final Report documenting the closure and abandonment in place of the underground storage tank (UST) #1 at Fairmont Hospital, 15400 Foothill Boulevard, San Leandro, California. This document details the work performed during closure activities.

The work performed conformed with the Work Plan dated June 14, 1994 and included: (1) administrative preparation for closure activities; (2) on-site preparation for closure activities; (3) removal of all liquids, residues and vapors from the UST; and (4) filling of the UST, manway, and fill lines with an inert solid.

2.0 SITE DESCRIPTION AND HISTORY

2.1 Site Description

Fairmont Hospital (Fairmont) is an operating hospital facility located at 15400 Foothill Boulevard, in San Leandro, California, as shown on the Vicinity Map, Figure 1. Situated on the western slope of the San Leandro Hills, the site rests at an approximate elevation of 110 feet above Mean Sea Level. The site is located approximately 100 yards west of the western trace of the Hayward Fault. The site vicinity is underlain by unconsolidated alluvial deposits generally less than 30 feet thick that overlie intrusive gabbro and serpentine bedrock *(Gregg & Associates, Inc. [Gregg], Site Characterization Report, Fairmont Hospital, San Leandro, August 1988)*.

Positioned near the truck loading dock of one of Fairmont's buildings are two 12,000 gallon USTs (UST #1 and UST #2) and one 1,000 gallon UST (UST #3). The location of the USTs are shown on Figure 2, Soil Boring Locations.

UST #1 lies adjacent to and within three feet of the truck loading dock. A four inch diameter underground storm drain parallels the southeast side of the hospital building and is located between the northwest side of the tank and the truck loading dock. A ten inch diameter underground storm drain parallels the northeast side of the hospital building and lies between the southwest end of UST #1 and the existing concrete walkway and stairs to the truck loading dock. The ten inch diameter underground storm drain is situated within four and a half feet of the UST and within eight feet of the concrete walkway. Prior to filling, UST #1 had an interior diameter of eight feet and the tank invert was approximately twelve feet below ground surface (bgs) at the fill line.

2.2 Site History

The USTs were installed during initial facility construction and prior to the construction of the truck loading dock. The actual date of UST installation is unknown. USTs #1 and #2 were previously utilized to store domestic No. 5 fuel to operate the hospital boiler during emergencies. UST #3 previously held diesel fuel oil to operate the emergency generator.

During June 1988, Gregg conducted a facility audit and subsurface investigation at the site (Gregg, 1988). Three tank backfill monitoring wells (FHB-1, FHB-2, and FHB-3) were installed (Figure 2). In April 1993, Environmental Science & Engineering, Inc. (ESE) directed another subsurface investigation focused on UST #1 during which three vertical soil borings (SB-1, SB-2, and SB-3) were drilled *(ESE, Results of the Subsurface Investigation, Fairmont Hospital, 15401 Foothill Boulevard, San Leandro, California, Project No. 8-93-5021, June 1, 1993)*.

In a letter addressed to Mr. Jim de Vos of GSA dated July 12, 1993, Mr. Robert Weston, a Hazardous Materials Specialist of Alameda County Health Care Services Agency, Department of Environmental Health, Hazardous Materials Division, approved the abandonment in place of UST #1 based on the information presented in both the Gregg and ESE reports and due to the proximity of UST #1 to critical building structures. A copy of this letter is presented in Appendix A.

3.0 PREVIOUS ENVIRONMENTAL WORK

In June 1988, Gregg conducted a facility audit and subsurface investigation at the site. Three tank backfill monitoring wells (FHB-1, FHB-2, and FHB-3) were installed to depths ranging from 15 to 17 feet bgs (Figure 2). At that time, Total Recoverable Petroleum Hydrocarbons (EPA Method 418.1) were detected in soil samples collected at depths of 12 and 17 feet bgs from boring FHB-1 at concentrations of 53 and 166 parts per million (ppm), respectively (Gregg, 1988).

On April 21, 1993, ESE directed a second subsurface investigation which focused on UST #1 with the purpose of investigating the alleged low concentrations of hydrocarbons found during Gregg's investigation (ESE, 1993). Based on measurements made through the fill port, the orientation and approximate dimensions of UST #1 were delineated. ESE drilled three vertical soil borings (SB-1, SB-2, and SB-3) to depths ranging from 21.5 to 24.5 feet bgs (Figure 2). Soil samples collected at five foot intervals were analyzed for Total Petroleum Hydrocarbons as Diesel (TPH-D) using EPA Method 3550/8015 modified, and for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) using EPA Method 3550/8020. During drilling activities, no

discolored soil or noticeable odors were observed. Analytical results of the soil samples submitted for analyses reported non-detectable concentrations of TPH-D and BTEX . ESE concluded that the results obtained from the investigation conducted by Gregg may have been anomalous and are probably not representative of existing soil conditions. ESE recommended that UST #1 be approved for abandonment in place because of the soil conditions and its proximity to the loading dock. Laboratory analytical results and Chain-of-Custody forms for the soil samples collected by ESE on April 21, 1993, are presented in Appendix B.

4.0 WORK PERFORMED DURING CLOSURE ACTIVITIES

A photojournal, containing Figures 1 through 13 documenting the work performed during UST closure activities, is presented in Appendix C. Figures 1 through 4 delineate the locations of the manway, fill line, vent line, and vapor recovery lines.

4.1 Administrative Preparation for Abandonment In Place of the UST

GSI submitted the appropriate closure plan forms to both the Alameda County Department of Environmental Health and the Alameda County Fire Department. An underground storage tank abandonment in place permit was obtained from the Alameda County Fire Department after concurrence from the Alameda County Department of Environmental Health. A copy of the UST abandonment in place permit is included as Appendix D.

4.2 Removal of Liquids, Residues and Vapors from the UST

As the UST was a holding vessel for potentially combustible and hazardous materials, it was necessary to remove any remaining product before the UST could be filled and sealed. EnviroPur was contracted as the licensed hazardous waste hauler to transport and dispose of removed material. A copy of the Uniform Hazardous Waste Manifest is presented in Appendix E. All removed material was assumed to be hazardous waste and handled appropriately. The removal of the material was executed as follows.

The fill line, vent line, vapor recovery lines, and manway, were located and opened. The manway had previously been filled in with sand topped with a concrete cap. This material was removed so the UST could be opened through the manway. On August 12, 1994, EnviroPur rinsed and cleaned the tank and lines. The vapor recovery and fill lines were rinsed with hot water and the vapor recovery line was then capped. The vent line dedicated to UST #1 could not be determined, therefore the vent lines were left to be removed when UST #2 is removed.

While rinsing UST #1, EnviroPur encountered extreme difficulty in removing the sludge due to the materials high viscosity. Sludge and rinse water were removed from the tank by means of a vacuum truck. After numerous efforts to remove all of the material were unsuccessful, the lower explosive limit (LEL) of UST #1 was monitored to determine if UST #1 could be safely filled with an inert material. The LEL was measured to be 0%, therefore both Mr. Scott Seery of the Alameda County Department of Environmental Health and Mr. Bill Smith of the Alameda County Fire Department, who were on site, gave GSI permission to begin filling the tank. As Alameda County Department of Environmental Health approved the filling of UST #1 and as no final rinsate was available to sample, a final rinsate sample was not collected. Figures 5 through 9 of Appendix C portray the vacuum truck, the UST during cleaning, and rinsing of the tank and vapor recovery lines.

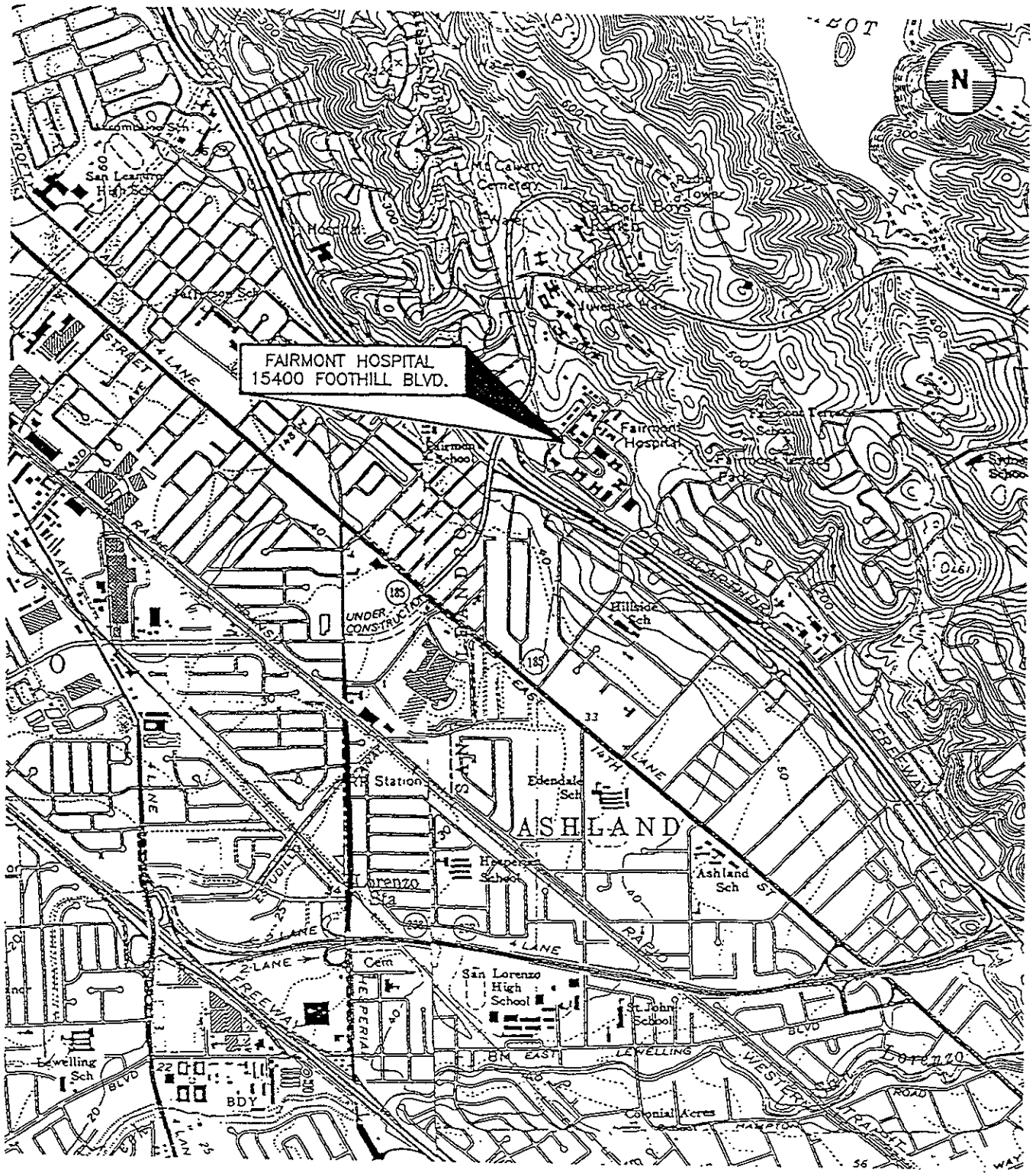
4.4 Filling of UST with an Inert Material

RMC Lonestar was contracted to fill UST #1 with a sand grout slurry containing one 94 pound sack of cement per cubic yard of sand. The tank was filled through the manway, with air relief occurring by means of the manway and fill line. Approximately 56.5 cubic yards of the sand grout slurry were required to fill the tank. The sand grout slurry within the tank was allowed to settle and dry for two weeks. On August 25, 1994, the manway and fill line were capped with concrete and grouted flush with the surface of the pavement. Figures 10 through 12 of Appendix C depict a concrete truck, pouring of the sand grout slurry, and the UST during filling.

5.0 CONCLUSIONS

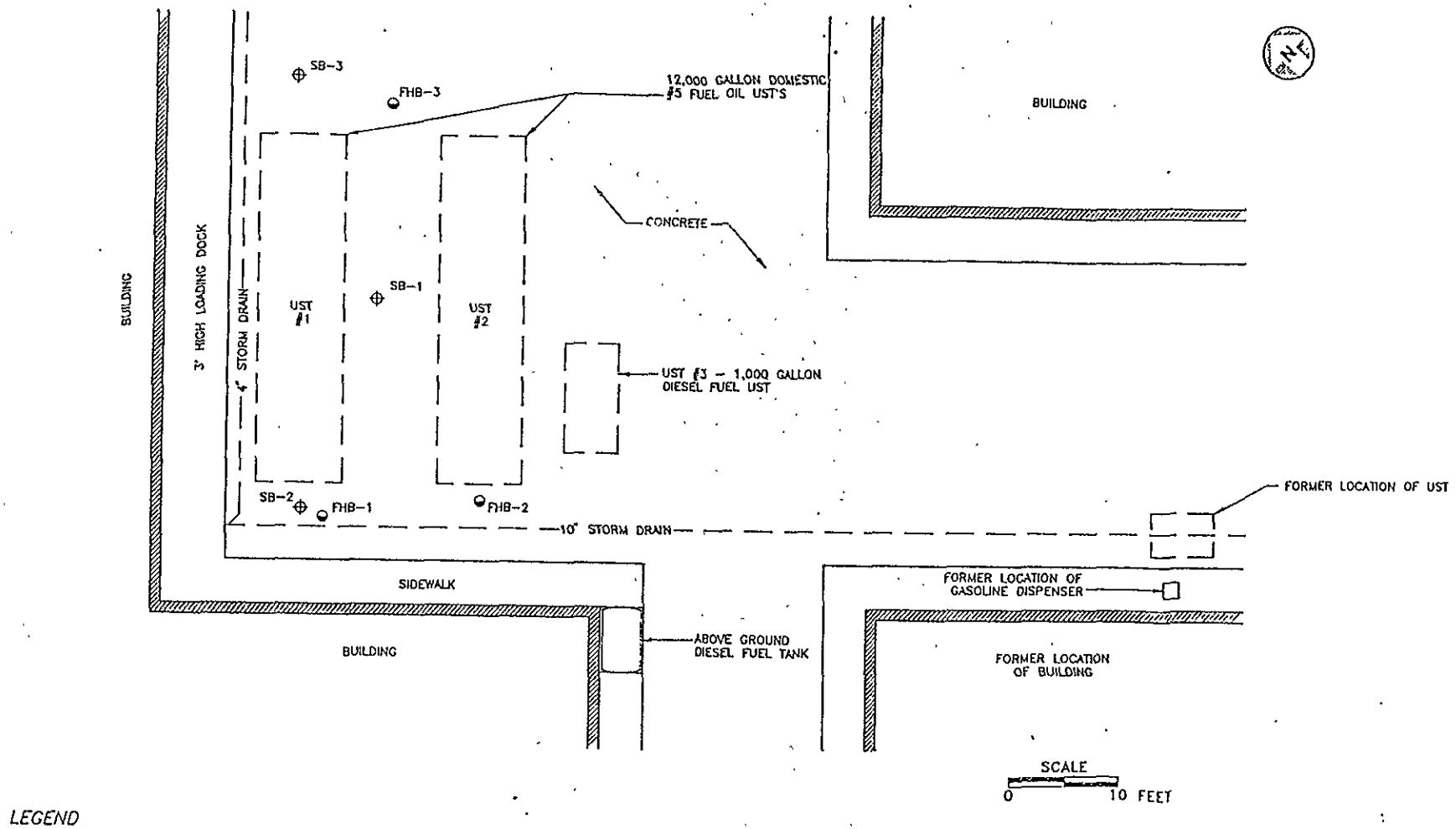
The underground storage tank UST #1 located at Fairmont Hospital was safely and properly closed in place on August 12, 1994. Based on ESE's Subsurface Investigation Report dated June 1, 1993 which reports no hydrocarbons detected in the soil surrounding UST #1, GSI recommends that (1) the Alameda General Services Agency should not be required to perform additional environmental work concerning UST #1 at the subject site, and (2) tank closure for UST #1 be granted.

FIGURES



ADAPTED FROM USGS HAYWARD AND SAN LEANDRO 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLES

ESE A CLCORP Company Environmental Science & Engineering, Inc.	DATE 1/93	PROJ. NO. 6-93-5021	ALAMEDA CTY. GSA – FAIRMONT HOSPITAL 15401 FOOTHILL BOULEVARD SAN LEANDRO, CALIFORNIA
	DRAWN BY CVS	CAD FILE 50211001	
4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	APPROVED BY	REVISED	FIGURE 1 VICINITY MAP



LEGEND

- ⊕ SOIL BORING LOCATION (4/21/93 BY ESE)
- UST UNDERGROUND STORAGE TANK
- ○ BACKFILL VADOSE WELL (INSTALLED JUNE 1988 BY GREGG & ASSOCIATES)

Environmental Science & Engineering, Inc.	DATE 1/93	PROJ NO 6-93-5021	ALAMEDA CTY. GSA – FAIRMONT HOSP 15401 FOOTHILL BOULEVARD SAN LEANDRO, CALIFORNIA
4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	DRAWN BY CVS	CAD FILE 50211002	FIGURE 2 SOIL BORING LOCATIONS
	APPROVED BY	REVISED DWR 5/93	

APPENDIX A

Letter from Mr. Robert Weston
of Alameda County Health Care Services Agency,
Department of Environmental Health, Hazardous Materials Division,
to Mr. Jim de Vos of Alameda County General Services Agency,
Dated July 12, 1993

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

JUL 14 1993

July 12, 1993

Mr. Jim de Vos
Alameda County General Services Agency
4400 MacArthur Boulevard
Oakland, CA 94619

Subject: Fairmont Hospital, UST Closure in place

Dear Mr. de Vos:

This Department has received and reviewed the Environmental Science & Engineering, Inc. (ESE) report dated June 1, 1993 detailing the subsurface investigation adjacent to the 12,000-gallon underground storage tank (UST) for #5 fuel oil. The purpose of the investigation was to prepare for closure of UST #1 in place due to the proximity to critical building structures.

Based on data presented in the report as well as the earlier Gregg & Associates, Inc. site characterization report, ESE recommends closure in place for UST #1. This Department concurs with ESE's recommendation.

If you have questions regarding this matter please contact me.

Sincerely,

Robert Weston
Hazardous Materials Specialist

cc: Pete Kinney, GSA
Chief Ferdinand, Alameda County Fire Department
Pat Galvin, ESE

APPENDIX B

Laboratory Analytical Reports and Chain-of-Custody Forms
as Reported by and for the Soil Borings Supervised by
Environmental Science & Engineering, Inc.

Environmental Science & Engineering, Inc.
8901 North Industrial Road Peoria, IL 61615-1589
Phone (309) 692-4422 Lab Fax (309) 692-5232
An IEPA Contract Laboratory

TO: ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
4090 NELSON AVE., SUITE J
CONCORD, CA 94520
ATTN: MR. KERRY LEFERER

PAGE NUMBER: 1
REPORT DATE: 04-30-93
DATE RECEIVED: 04-23-93
PROJECT NUMBER: 591-5287

CLIENT PROJECT NAME: FAIRMONT HOSPITAL
CLIENT PROJECT NUMBER: 693-5021

ESE SAMPLE		12123*1	12123*2	12123*3	12123*4			
SAMPLE DATE		04/21/93	04/21/93	04/21/93	04/21/93			
DESCRIPTION	UNITS	SB-1@5' SOIL	SB-1@10' SOIL	SB-1@15' SOIL	SB-1@20' SOIL	METHOD NO.	DATE ANALYZED	ANALYST
BENZENE	UG/KG	< 5	< 5	< 5	< 5	8020	04-29-93	RMM
TOLUENE	UG/KG	< 5	< 5	< 5	< 5	8020	04-29-93	RMM
ETHYLBENZENE	UG/KG	< 5	< 5	< 5	< 5	8020	04-29-93	RMM
XYLENES, TOTAL	UG/KG	< 5	< 5	< 5	< 5	8020	04-29-93	RMM
TOTAL PETROLEUM HYDROCARBON DIESEL	MG/KG	< 1	< 1	< 1	< 1	8015MOD.	04-29-93	RAU

Report Approved by: Vickie M. Wynkoop
Vickie M. Wynkoop
Project Manager

Environmental Science & Engineering, Inc.
8901 North Industrial Road Peoria, IL 61615-1589
Phone (309) 692-4422 Lab Fax (309) 692-5232
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TO: ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
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PAGE NUMBER: 2
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DATE RECEIVED: 04-23-93
PROJECT NUMBER: 591-5287

CLIENT PROJECT NAME: FAIRMONT HOSPITAL
CLIENT PROJECT NUMBER: 693-5021

ESE SAMPLE		12123*5	12123*6	12123*7	12123*8			
SAMPLE DATE		04/21/93	04/21/93	04/21/93	04/21/93			
DESCRIPTION	UNITS	SB-2@5' SOIL	SB-2@10' SOIL	SB-2@15' SOIL	SB-2@20' SOIL	METHOD NO.	DATE ANALYZED	ANALYST
BENZENE	UG/KG	< 5	< 5	< 5	< 5	8020	04-28-93	RMM
TOLUENE	UG/KG	< 5	< 5	< 5	< 5	8020	04-28-93	RMM
ETHYLBENZENE	UG/KG	< 5	< 5	< 5	< 5	8020	04-28-93	RMM
XYLENES, TOTAL	UG/KG	< 5	< 5	< 5	< 5	8020	04-28-93	RMM
TOTAL PETROLEUM HYDROCARBON DIESEL	MG/KG	< 1	< 1	< 1	< 1	8015MOD.	04-29-93	RAU

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REPORT DATE: 04-30-93
DATE RECEIVED: 04-23-93
PROJECT NUMBER: 591-5287

O: ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
4090 NELSON AVE., SUITE J
CONCORD, CA 94520
TTN: MR. KERRY LEFERER

CLIENT PROJECT NAME: FAIRMONT HOSPITAL
CLIENT PROJECT NUMBER: 693-5021

ESE SAMPLE		12123*9	12123*10	12123*11	12123*12			
SAMPLE DATE		04/21/93	04/21/93	04/21/93	04/21/93			
DESCRIPTION	UNITS	SB-2@23' SOIL	SB-3@5' SOIL	SB-3@10' SOIL	SB-3@15' SOIL	METHOD NO.	DATE ANALYZED	ANALYST
BENZENE	UG/KG	< 5	< 5	< 5	< 5	8020	04-28-93	RMM
TOLUENE	UG/KG	< 5	< 5	< 5	< 5	8020	04-28-93	RMM
ETHYLBENZENE	UG/KG	< 5	< 5	< 5	< 5	8020	04-28-93	RMM
XYLENES,TOTAL	UG/KG	< 5	< 5	< 5	< 5	8020	04-28-93	RMM
TOTAL PETROLEUM HYDROCARBON DIESEL	MG/KG	< 1	< 1	< 1	< 1	8015MOD.	04-30-93	RAU

Report Approved by: Vickie M. Wynkoop
Vickie M. Wynkoop
Project Manager

Environmental Science & Engineering, Inc.
8901 North Industrial Road Peoria, IL 61615-1589
Phone (309) 692-4422 Lab Fax (309) 692-5232
An IEPA Contract Laboratory

TO: ENVIRONMENTAL SCIENCE & ENGINEERING, INC.
4090 NELSON AVE., SUITE J
CONCORD, CA 94520
ATTN: MR. KERRY LEFERER

PAGE NUMBER: 4
REPORT DATE: 04-30-93
DATE RECEIVED: 04-23-93
PROJECT NUMBER: 591-5287

CLIENT PROJECT NAME: FAIRMONT HOSPITAL
CLIENT PROJECT NUMBER: 693-5021

DESCRIPTION	UNITS	ESE SAMPLE 12123*13 SAMPLE DATE 04/21/93 SB-3@20' SOIL	METHOD NO.	DATE ANALYZED	ANALYST
BENZENE	UG/KG	< 5	8020	04-28-93	RMM
TOLUENE	UG/KG	< 5	8020	04-28-93	RMM
ETHYLBENZENE	UG/KG	< 5	8020	04-28-93	RMM
XYLENES, TOTAL	UG/KG	< 5	8020	04-28-93	RMM
TOTAL PETROLEUM HYDROCARBON DIESEL	MG/KG	< 1	8015MOD.	04-30-93	RAU

Report Approved by: Vickie M. Wynkoop
Vickie M. Wynkoop
Project Manager

CHAIN OF CUSTODY RECORD

DATE 4/20/93 PAGE 1 OF 2

PROJECT NAME Fairmont Hospital

ADDRESS 15401 Foothill Blvd. San Leandro

PROJECT NO. 6-93-5021

SAMPLED BY KERRY LEFEVER

LAB NAME ESE - Peoria

ESE Environmental Science & Engineering, Inc.
A CILCORP Company
4090 Nelson Avenue Suite J Concord, CA 94520
Phone (510) 685-4053
Fax (510) 685-5323

SAMPLE #	DATE	TIME	LOCATION	ANALYSES TO BE PERFORMED: TPH-D 8015M	BTEX 8020	MATRIX	NUMBER OF CONTAINERS	REMARKS (CONTAINER, SIZE, ETC.)
SB-1@5'	4/21/93	1255	Fairmont	X	X	SOIL	1	BRASS RING 12123-
SB-1@10'		1305	Hosp	X	X		1	-2
SB-1@15'		1310		X	X		1	-3
SB-1@20'		1322		X	X		1	-4
SB-2@5'		1350		X	X		1	-5
SB-2@10'		1400		X	X		1	-6
SB-2@15'		1412		X	X		1	-7
SB-2@20'		1422		X	X		1	-8
SB-2@25'		1435		X	X		1	-9

RELINQUISHED BY: (signature)	RECEIVED BY: (signature)	date	time
1. Kerry Lefever	Allen R. Hogan	4-23-93	am 9:00
2.			
3.			
4.			
5.			

9 TOTAL NUMBER OF CONTAINERS

REPORT RESULTS TO: PAT GALVIN

SPECIAL SHIPMENT REQUIREMENTS

INSTRUCTIONS TO LABORATORY (handling, analyses, storage, etc.):

5 DAY TA. PLEASE INCLUDE QA/QC DATA

SAMPLE RECEIPT

CHAIN OF CUSTODY SEALS	
REC'D GOOD CONDTN/COLD	
CONFORMS TO RECORD	

DATE 4/20/93 PAGE 2 OF 2

CHAIN OF CUSTODY RECORD

PROJECT NAME Fairmont Hospital

ADDRESS 15401 Fairmont Hosp
San Leandro, CA

PROJECT NO. 6-93-5021

SAMPLED BY KERRY LEFEVER

LAB NAME ESE-Pleasanton

ESE Environmental Science & Engineering, Inc.
A GILCORP Company
4090 Nelson Avenue
Suite J
Concord, CA 94520
Phone (510) 685-4053
Fax (510) 685-5323

SAMPLE #	DATE	TIME	LOCATION	ANALYSES TO BE PERFORMED: TPH-D 8015M	ANALYSES TO BE PERFORMED: BTEX 8020	MATRIX	NUMBER OF CONTAINERS	REMARKS (CONTAINER, SIZE, ETC.)
SB-3@5'	4/21/93	1035	Fairmont	X	X	SOIL	1	BRASS RING 12123-10
SB-3@10'	"	1047	Hosp	X	X	"	1	-11
SB-3@15'	"	1105	"	X	X	"	1	-12
SB-3@20'	↓	1125	↓	X	X	↓	1	-13

RELINQUISHED BY: (signature)	RECEIVED BY: (signature)	date	time
1. Kerry Lefever			
2.	Alla R. Hogan	4-23-93	9:00 am
3.			
4.			
5.			

4 TOTAL NUMBER OF CONTAINERS

REPORT RESULTS TO: PAT GALLIN

SPECIAL SHIPMENT REQUIREMENTS

INSTRUCTIONS TO LABORATORY (handling, analyses, storage, etc.):

5 DAY TA. PLEASE INCLUDE QA/QC DATA ~~etc~~.

SAMPLE RECEIPT

CHAIN OF CUSTODY SEALS	
REC'D GOOD CONDTN/COLD	
CONFORMS TO RECORD	

Environmental Science & Engineering, Inc.
8901 North Industrial Road, Peoria, IL 61615-1589
Phone (309) 692-4422 Lab Fax (309) 692-5232
An IEPA Contract Laboratory

Environmental Science and Engineering, Inc.
Table of Definitions for QC Reports
Columnar Terms

Item	Title	Definition
FOUND	Sample Concentration	SPIKE SAMPLE CONC - LESS THE UNSPIKED SAMPLE CONC.
FOUND #1	Concentration of UNSPIKED Sample	
FOUND #2	Concentration of Replicate Sample	
%RECV	Percent Recovery:	100*(FOUND/TARGET) displayed in appropriate significant figures.
RECV CRIT	Recovery Criteria	Criteria for Percent Recovery set in the parameter re. .d.
UNSPIKED	Unspiked Sample Concentration	Concentration of the DA or UN sample.
M*BLK	Concentration of Method Blank	
R.P.D.	Relative Percent Difference (Matrix Spikes)	100*(ABS. (%RECV SPMn - %RECV SPMn-1)/(%RECV SPMn + %RECV SPMn-1)/2).
R.P.D.	Replicate Percent Difference (Control Spikes)	100*(ABS (%RECV SPn - %RECV SP1)/(%RECV SPn + %RECV SP1)/2
R.P.D.	Replicate Percent Difference (Replicate Samples)	100*(ABS (Conc Rep #2 - Conc Rep #1)/(Conc Rep #2 + Conc Rep #1)/2).
MAX % REPL DIFF	Maximum value of Replicate Difference	
C.D.L.	Calibration Curve Detection Limit	
NA	Not Analyzed	
N/A	Not Available	
UNSPIKED = 0		If the parameter is reported as a "LESS THAN", the data is converted to 0 for calculation purposes.
MIN.REC	Minimum Recovery Limit	Average Recovery - Recovery Limit.
MAX.REC	Maximum Recovery Limit	Average Recovery + Recovery Limit.
DA		Refers to sample.
UN		Refers to second analysis of sample for QC purposes.
SP		Spike of reagent (blank) water or soil.
SPM1,SPM2		Duplicate Matrix Spikes of a sample.
SPM		Matrix Spike of a sample.
MB		Refers to Method Blank.

CONCORD 12123
Method Blank (MB) Sample Summary

IE	UNITS	STOR*METH	BATCH	SAMPLE	DATE	FOUND
ZENE	UG/KG	34030*PFS	P12827	MB*NONE*1	04/28/93	<1
ZENE	UG/KG			MB*NONE*2	04/29/93	<1
UENE	UG/KG	34010*PFS		MB*NONE*1	04/28/93	<1
UENE	UG/KG			MB*NONE*2	04/29/93	<1
YLBENZENE	UG/KG	34371*PFS		MB*NONE*1	04/28/93	<1
YLBENZENE	UG/KG			MB*NONE*2	04/29/93	<1
ENES,TOTAL	UG/KG	81551*PFS		MB*NONE*1	04/28/93	<1
ENES,TOTAL	UG/KG			MB*NONE*2	04/29/93	<1
AS DIESEL	MG/KG	97468*PCS	P12833	MB*NONE*1		<1

CONCORD 12123
Sample Matrix Spike (SPM) Recovery Summary

E	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	UNSPIKED	R.P.D.	R.P.D. CRIT.
ZENE	UG/KG	34030*PFS	P12827	SPM1*12123*9	04/29/93	40	35	88	42-146	0.0		42
ZENE	UG/KG			SPM2*12123*9		40	27	68	42-146	0.0	26.0	42
UENE	UG/KG	34010*PFS		SPM1*12123*9		40	36	90	54-123	0.0		45
UENE	UG/KG			SPM2*12123*9		40	28	70	54-123	0.0	25.0	45
AS DIESEL	MG/KG	97468*PCS	P12833	SPM1*12123*1		49	34	69	48-143	0.0		N/A
AS DIESEL	MG/KG			SPM2*12123*1		47	27	57	48-143	0.0	19.0	N/A

CONCORD 12123
Surrogate (SUR) Spike Recovery Summary

	UNITS	STOR*METH	BATCH	SAMPLE	DATE	TARGET	FOUND	%RECV	RECV CRIT	SPIKE CONC
TRIFLUOROTOLUENE	UG/KG	96101*SUR	P12827	MB*NONE*1	04/28/93	40.0	40.0	100.0	34-123	40.0
TRIFLUOROTOLUENE	UG/KG			MB*NONE*2	04/29/93	40.0	40.0	100.0	34-123	40.0
TRIFLUOROTOLUENE	UG/KG			DA*12123*1		40.0	33.6	84.0	34-123	33.6
TRIFLUOROTOLUENE	UG/KG			DA*12123*2		40.0	37.1	92.8	34-123	37.1
TRIFLUOROTOLUENE	UG/KG			DA*12123*3		40.0	36.8	92.0	34-123	36.8
TRIFLUOROTOLUENE	UG/KG			DA*12123*4		40.0	24.8	62.0	34-123	24.8
TRIFLUOROTOLUENE	UG/KG			DA*12123*5		40.0	40.9	102.3	34-123	40.9
TRIFLUOROTOLUENE	UG/KG			DA*12123*6		40.0	35.8	89.5	34-123	35.8
TRIFLUOROTOLUENE	UG/KG			DA*12123*7		40.0	30.9	77.3	34-123	30.9
TRIFLUOROTOLUENE	UG/KG			DA*12123*8		40.0	37.7	94.3	34-123	37.7
TRIFLUOROTOLUENE	UG/KG			DA*12123*9	04/29/93	40.0	41.0	102.5	34-123	41.0
TRIFLUOROTOLUENE	UG/KG			DA*12123*10		40.0	29.7	74.3	34-123	29.7
TRIFLUOROTOLUENE	UG/KG			DA*12123*11	04/28/93	40.0	35.7	89.3	34-123	35.7
TRIFLUOROTOLUENE	UG/KG			DA*12123*12		40.0	34.2	85.5	34-123	34.2
TRIFLUOROTOLUENE	UG/KG			DA*12123*13		40.0	38.0	95.0	34-123	38.0
TRIFLUOROTOLUENE	UG/KG			SPM1*12123*9	04/29/93	40.0	34.2	85.5	34-123	34.2
TRIFLUOROTOLUENE	UG/KG			SPM2*12123*9		40.0	29.8	74.5	34-123	29.8

APPENDIX C

Photojournal of Underground Storage Tank Closure Activities

Photojournal
of the
Underground Storage Tank Closure In Place
at
Fairmont Hospital
15401 Foothill Boulevard
San Leandro, California

Figure 1: Subject site with fill line in the foreground and manway in the background. Fill line and vapor recovery lines are located in the building behind the manway.

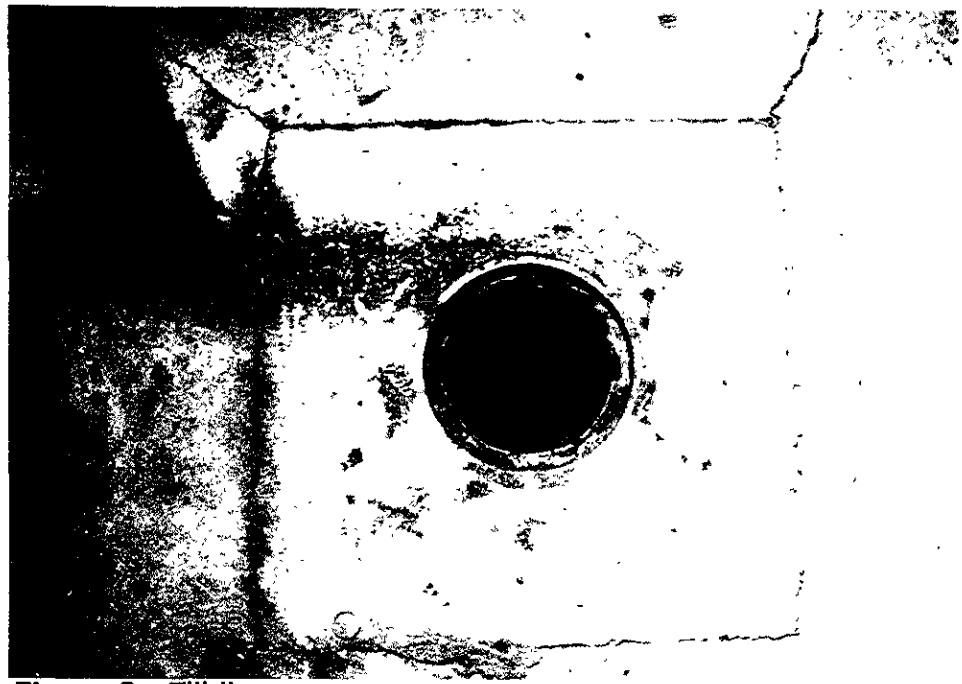

Figure 2: Fill line.

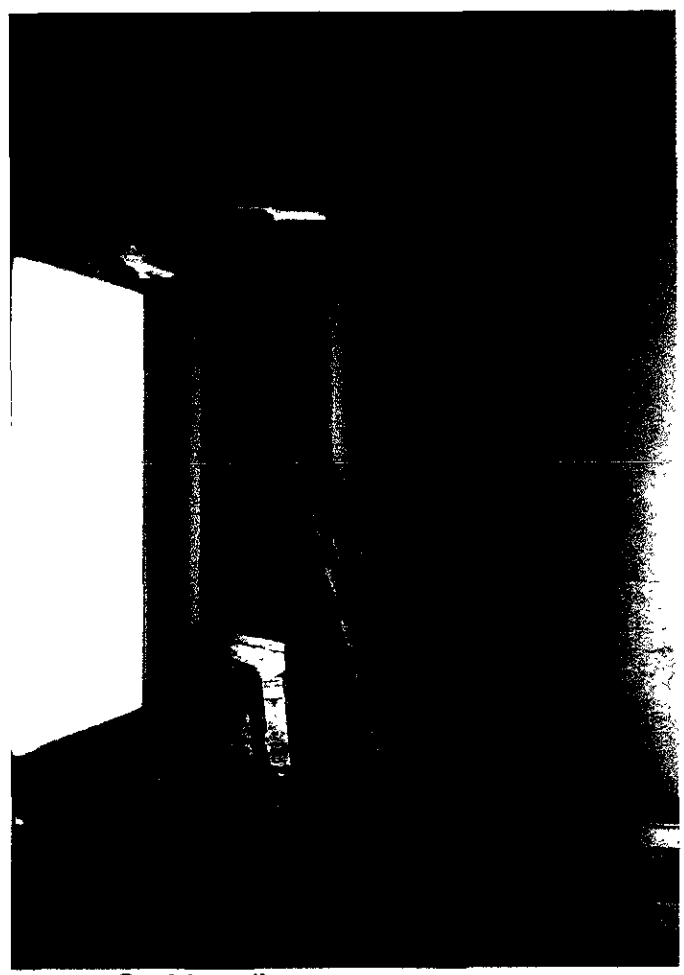

Figure 3: Vent line.

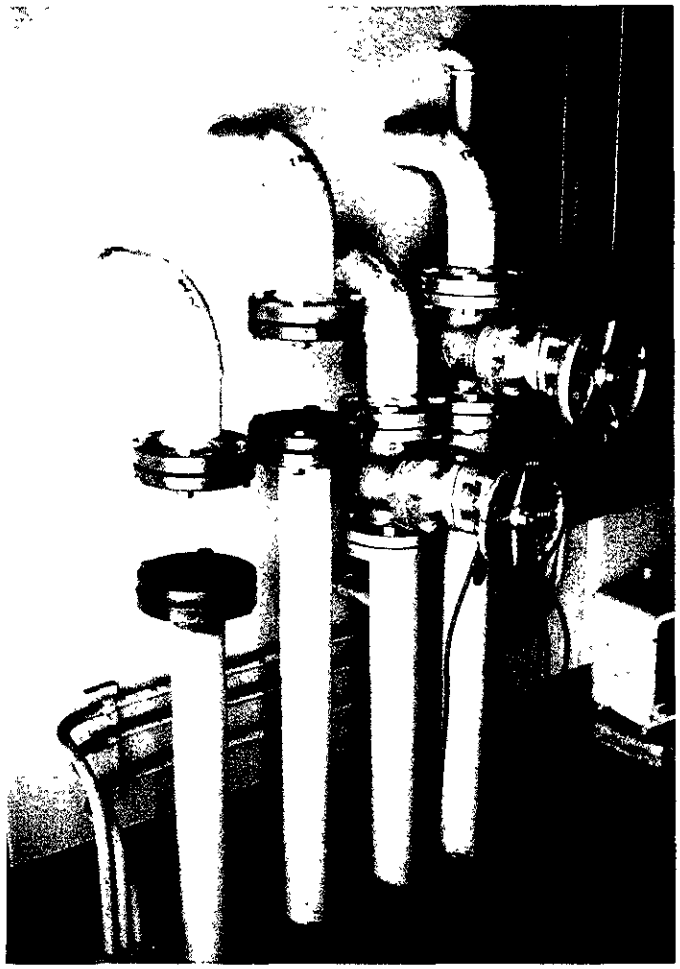

Figure 4: Vapor recovery lines.

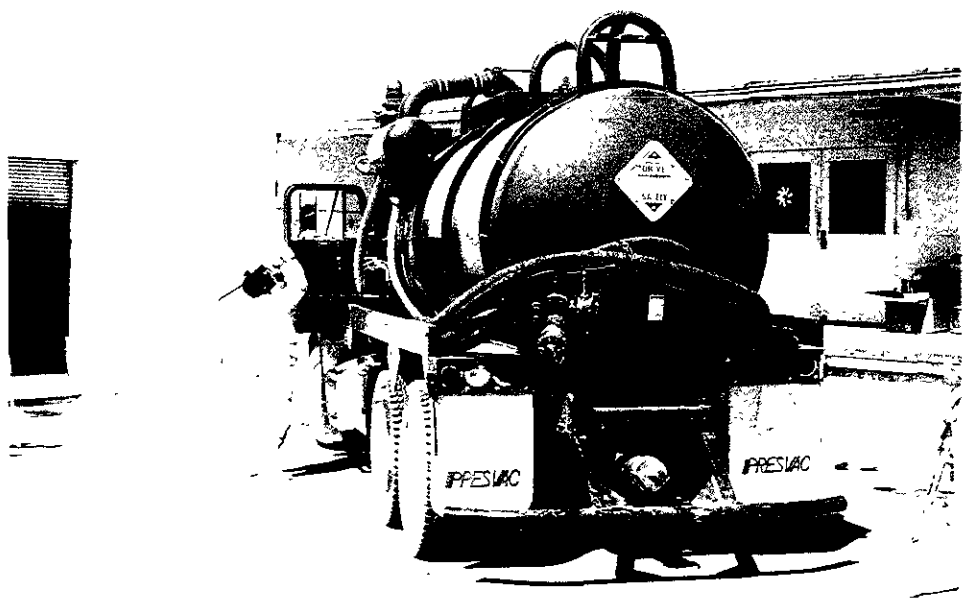

Figure 5: Vacuum truck.

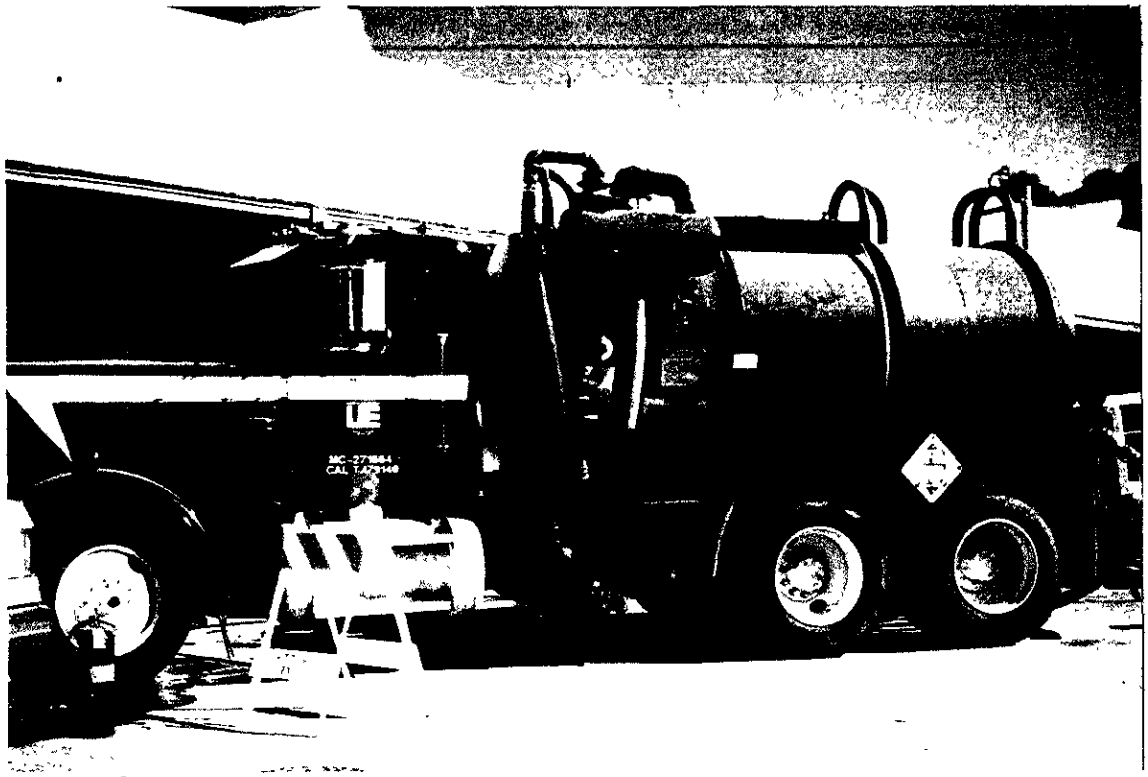

Figure 6: Vacuum truck.

Figure 7: Rinsing of UST through fill line.

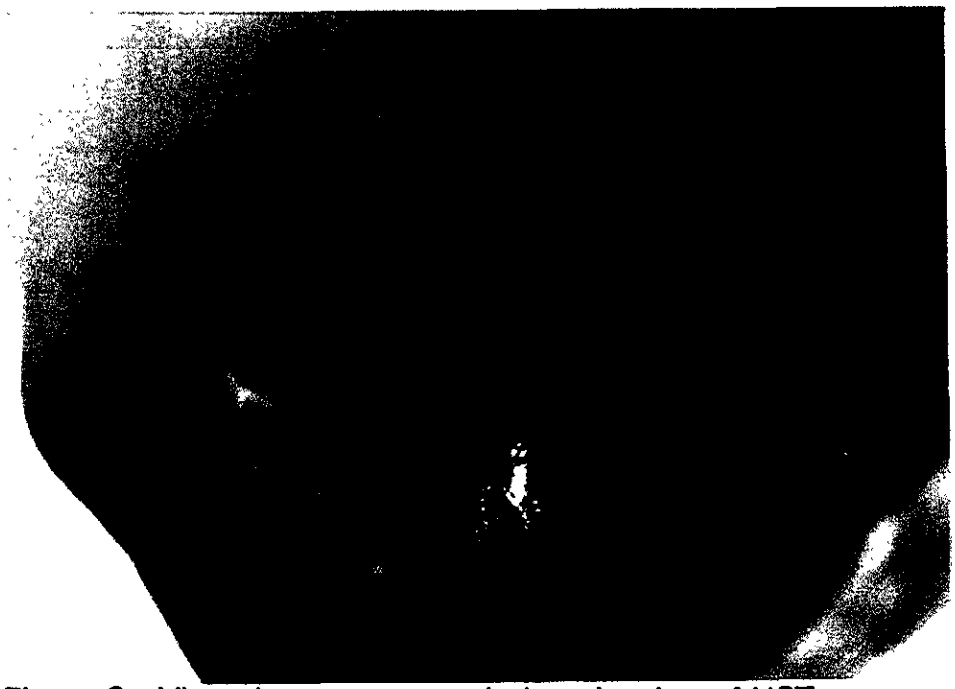

Figure 8: View down manway during cleaning of UST.

Figure 9: Rinsing of vapor recovery lines.

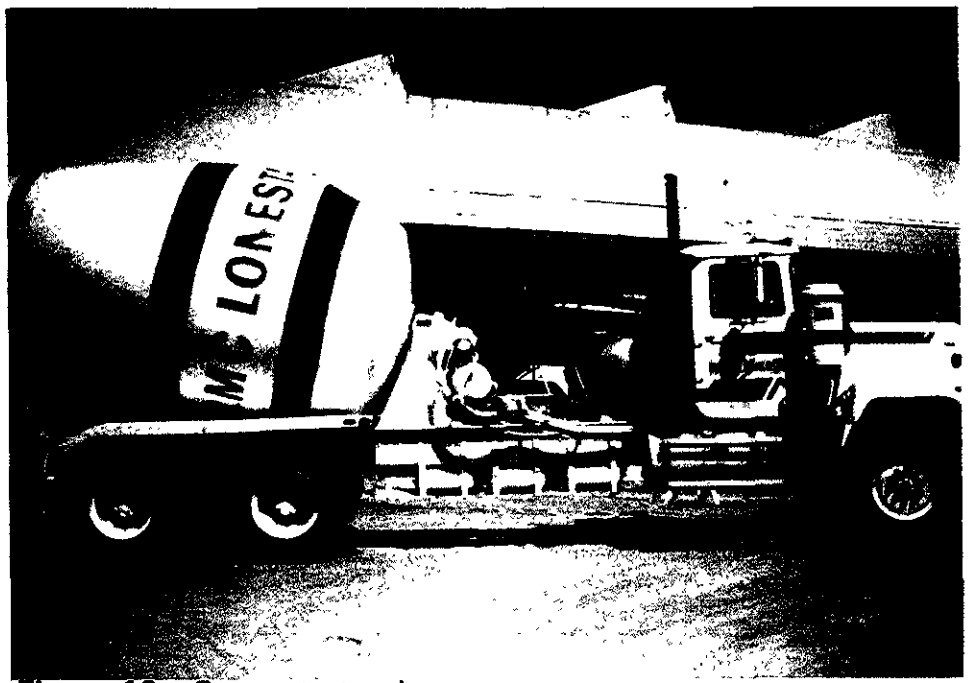

Figure 10: Concrete truck.

Figure 11: Pouring of sand grout slurry.

Figure 12: View down manway during filling of UST with sand grout slurry.

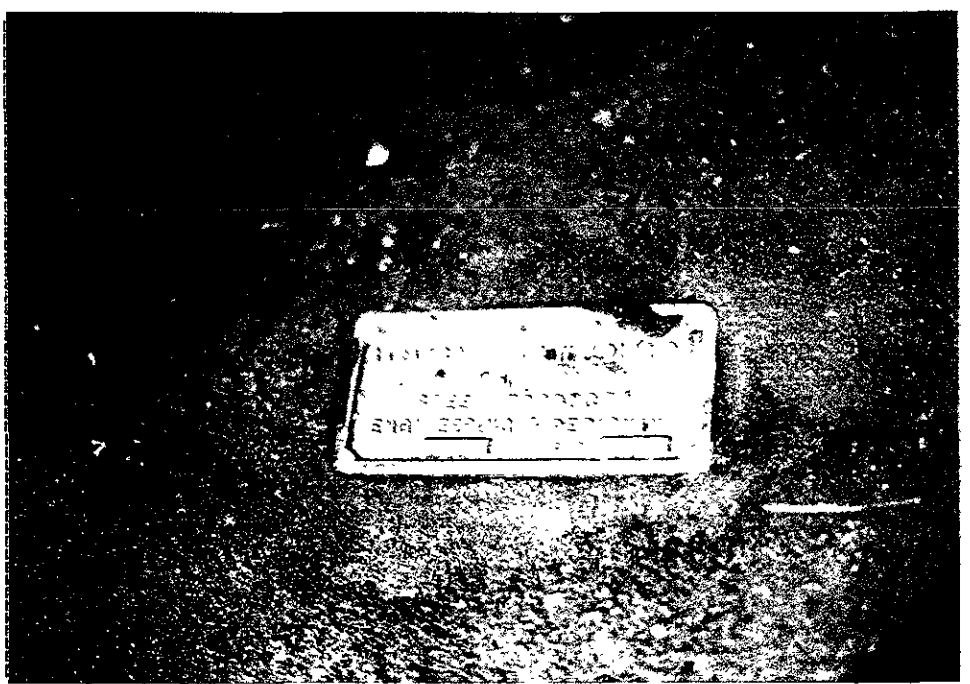

Figure 13: Historical plaque found on bottom of manway cover.

APPENDIX D

Alameda County Fire Department
Underground Storage Tank Closure In-Place Permit

ALAMEDA COUNTY FIRE DEPARTMENT

APPLICATION # 94-339

FIRE DEPARTMENT/PLANS APPLICATION

FIRE MARSHAL'S OFFICE
22341 Redwood Road
Castro Valley, CA 94546
(510) 670-5853 • Fax (510) 582-4347

APPLICATION TYPE: TANK REMOVAL DATE REC'D: 7/14/94 BY:

CATEGORY: ABANDON IN PLACE -

➤ PROJECT INFORMATION

PROJECT ADDRESS: 5401 Foothill Blvd CROSS STREET:

CITY: San Leandro ZIP: 94578 JOB PHONE:

APN #: SDR #: PM/TRACT MAP #:

DESCRIPTION OF WORK/ACTIVITY:
In-place UST abandonment BUILDING PERMIT #:

➤ APPLICANT

NAME: Steve Vigil - GSI PHONE # (H): (W): 551-8777

ADDRESS: 6747 Sierra Ct Suite G Dublin ZIP: 94568

➤ OWNER

Attn: Pete Kenny

NAME: Alameda Co PHONE # (H): (W):

ADDRESS: 4400 MacArthur Blvd Oakland ZIP: 94619

➤ CONTRACTOR

NAME: GSI PHONE # (H): (W): 551-8777

ADDRESS: 6747 Sierra Ct Suite G Dublin ZIP: 94568

CONTRACTOR'S LICENSE TYPE & NUMBER: 'A' + Haz. Endorsement #671250

➤ = APPLICANT TO FILL IN THESE SECTIONS

APPLICANT'S SIGNATURE: DATE: 7/14/94

FOR OFFICE ONLY

FEES

Fees are due and payable by check or money order, made out to Alameda County Fire Department, upon submittal of plans and application. If additional fees are required, such shall be paid prior to issuance of a Certificate of Occupancy, project final, or a Fire Permit.

BASE FEE REQUIRED: $ 80.00 REC'D BY: J Ferdinand DATE: 7-20-94

CONSULTANT'S FEE: $ REC'D BY: DATE:

ADDITIONAL FEES: $ REC'D BY: DATE:

APPROVALS

FIRE PERMIT #: 94339 ISSUED DATE: 7-20-94 EXPIRATION DATE: 9-1-94

PERMIT ISSUED BY: J. FERDINAND DATE: 7-20-94 FEE: 80

APPLICATION/PLANS APPROVAL: BY: DATE:

APPENDIX E

EnviroPur Uniform Hazardous Waste Manifest

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

8142.0

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981429533 — Manifest Document No. 00001 — 2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: County of Alameda, 15400 Foothill Blvd, San Leandro, CA.

4. Generator's Phone: 510 551-7555

A. State Manifest Document Number: 93784402

B. State Generator's ID:

5. Transporter 1 Company Name: Universal Environmental — 6. US EPA ID Number: CAD009006127

C. State Transporter's ID: 42998

D. Transporter's Phone: 707-747-6699

7. Transporter 2 Company Name — 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Envirocycle, 13331 N. Hwy 33, Patterson, CA. 95363 — 10. US EPA ID Number: CAD983166728

G. State Facility's ID: CAD983166728

H. Facility's Phone: 800-874-4444

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON RCRA HAZARDOUS WASTE LIQUID (OIL & WATER)	001	TT	00800	G	State: 223 / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above: OIL & WATER

K. Handling Codes for Wastes Listed Above: a. — b. — c. — d.

15. Special Handling Instructions and Additional Information: Wear Protective Clothing As Needed (Fairmont Hospital) Emergency # 707-747-6699

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
Barry E McCoy	Barry E McCoy ALCOGSA	08	12	94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Glenn A Brown		08	12	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR — TRANSPORTER — FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA, CALL 1-800-852-7550

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (9/93)
EPA 8700—22

Yellow: GENERATOR RETAINS