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(510) 732-9877 Fax 732-9876  
Calif. State Cont. Lic# 572427

ENVIRONMENTAL  
PROTECTION

95 MAR 10 PM 12:16

March 10, 1995

Susan Hugo  
Alameda County Health Care Services  
1131 Harbor Bay Parkway  
Alameda, Ca. 94502

Dear Susan,

I hope this information is what you were looking for, please call if we can be of further service.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Tom Gregory', with a long, sweeping line extending from the end of the signature.

Thomas M. Gregory

**GOLDSMITH-LATHROP**

**Tank Closure Report**

November 15, 1989

Tom Sheehan  
Goldsmith-Lathrop  
2000 Powell Street, Suite 1660  
Emeryville, CA 94608

Dear Tom:

K.T.W. & Associates is pleased to submit this report describing closure activities associated with removal of one 2,000 gallon underground fuel tank located in Emeryville, California. This report provides a description of site activities and observations, the condition of excavated tanks, the condition of tank backfill and other subsurface materials, sampling procedures and locations, laboratory analytical procedures and certified analytical results, chain of custody documentation, and hazardous waste manifest.

### **Site Description**

The site is located at 5813-15 Shellmound in Emeryville, California. A site location map is presented in Plate 1, Attachment A. One 2,000 gallon underground gasoline tank was formerly located at the subject site. A site map showing the location of the site structure, former underground tank and dispensing island is presented in Plate 2.

Mr. Tom Sheehan  
Goldsmith-Lathrop  
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### **Closure Plan and Permitting**

A closure plan and permit application for removal of underground tanks was completed and submitted to the Alameda County Health Care Services Agency (ACHCSA), and the City of Emeryville Fire Department (EFD). Closure activities proceeded under ACHCSA permit No. U552924, and EFD permit # 1126.

### **Underground Tank Closure**

Tank removal activities occurred on October 26, 1989. Inspector Dennis Byrne of the ACHCSA was present to observe the tank removal and sampling activities. Construction services associated with closure were performed by K.T.W. & Associates. A K.T.W. & Associates California Registered Geologist provided environmental sampling and documentation services.

Closure activities were documented in the Record of Fire Inspection prepared by Dennis Byrne. Upon removal the structural integrity of the one 2,000 gallon tank was observed to be sound. The tank was wrapped, and was observed to contain no corrosion pits. The tank was removed and transported from the site by a permitted hazardous waste transporter under hazardous waste manifest. Copies of the hazardous waste manifest are presented in Attachment A.

### **General Observations, Underground Tank Closure**

The tank, which had been used to store gasoline prior to its removal, contained no trim other than a riser assembly for filling, a product line and a vent line.

The condition of the lines prior to removal were sound, with no loss of wrapping which would indicate exposure to gasoline. All the fittings were properly installed and were sealed with "pipe dope" at any threaded connections. The riser assemblies that constituted the fill pipe for the tank was sound and free of defects. Some hydrocarbon odor was observed

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while removing the overburden, and the overburden material contained some discoloration. The backfill material consisted of sand, and was of the correct depth below and surrounding the tank and lines.

The thoroughly sound condition of the gasoline tank and lines upon removal indicate that the risk of a leak was negligible.

### **Soil Sampling**

Two soil samples were collected from the gasoline tank excavation and one composite soil sample was collected from the stockpiled material. Soil sampling of the tank occurred on October 26, 1989. The sample was obtained by excavating to the native soil/interface and driving a brass tube into the native soil.

Samples were collected in brass tubes, sealed in teflon and plastic caps, and promptly stored in a cooler. Following completion of field work, samples were submitted to Anametrix Laboratory, San Jose, CA (DPHS #151) certified analytical laboratory for analyses under appropriate chain of custody protocol.

Two (2) soil samples were taken from the tank excavation. Their locations are noted in Plate 2. The samples were taken in the northeast (#1512) and south east (#1521) corners of the excavation, immediately above the level of water that had entered the hole from a ruptured sewer line in the vicinity of the excavation. The samples taken from the infiltrated water by the East Bay Municipal Utilities District (EBMUD), showed that it was not groundwater, but contained nitrates and coliforms consistent with sewer water. At the direction of ACHCSA, K.T.W. & Associates took a sample for TPH-G, BTX & E analysis (#1500). The results from that analysis are contained in Attachment B.

Additionally, a composite sample # 1532 was taken from the stockpile to confirm that the excavated material could be transported to a class III landfill. ( A fuel odor was noted in the stockpiled material.)

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Goldsmith-Lathrop  
November 15, 1989  
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### **Certified Analytical Results**

Samples collected for minimum verification analyses (MVA) were analyzed in accordance with appropriate regulatory guidelines contained within Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks (RWQCB, 1988). Copies of soil analytical results are presented in Attachment B.

### MVA for Underground Fuel Tank Excavation

The soil samples collected from the fill-natural materials interface below the fuel tank contained non-detectable (ND) concentrations of the constituents sought. The laboratory results are summarized in Attachment C.

### **Regulatory Guidelines**

The RWQCB - San Francisco Bay Region has established a level of 100 ppm TPH concentrations in soil as a general decision value for requiring further definition of site soil and groundwater contamination where shallow groundwater conditions are known to exist. The origin of the 100 ppm level was to "develop a method to prioritize the case load and indicate whether a significant volume of fuel had been released or discharged" (RWQCB, June, 1988).

Copies of this report should be submitted to:

Regional Water Quality Control Board  
1111 Jackson Street, Rm. 6000  
Oakland, CA 94607  
Attn: Dyan Whyte

Additional copies of this report have been provided for the purpose of regulatory submittal.

Mr. Tom Sheehan  
Goldsmith-Lathrop  
November 15, 1989  
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Should you have any questions or comments regarding the evaluations presented in this report, please call.

Respectfully,

Kevin Krause  
Vice President

KK/clc

Attachments

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS  
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : TOM GREGORY 102689-1512  
 Matrix : SOIL  
 Date sampled : 10/26/89  
 Date anl.TPHg: 10/27/89  
 Date ext.TPHd: N/A  
 Date anl.TPHd: N/A

Anamatrix I.D. : 8910234-02  
 Analyst : CB  
 Supervisor : TC  
 Date released : 10/30/89  
 Date ext. TOG : N/A  
 Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	ND
108-88-3	Toluene	5	ND
100-41-4	Ethylbenzene	5	ND
1330-20-7	Total Xylenes	5	ND
	TPH as Gasoline	1000	ND

- ND - Not detected at or above the practical quantitation limit for the method.  
 TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.  
 BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.



ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS  
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : TOM GREGORY 102689-1521  
 Matrix : SOIL  
 Date sampled : 10/26/89  
 Date anl.TPHg: 10/27/89  
 Date ext.TPHd: N/A  
 Date anl.TPHd: N/A

Anamatrix I.D. : 8910234-03  
 Analyst : CB  
 Supervisor : TC  
 Date released : 10/30/89  
 Date ext. TOG : N/A  
 Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	ND
108-88-3	Toluene	5	ND
100-41-4	Ethylbenzene	5	ND
1330-20-7	Total Xylenes	5	ND
	TPH as Gasoline	1000	ND

- ND - Not detected at or above the practical quantitation limit for the method.  
 TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.  
 BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS  
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : TOM GREGORY 102689-1532	Anamatrix I.D. : 8910234-04
Matrix : SOIL	Analyst : <i>CS</i>
Date sampled : 10/26/89	Supervisor : <i>TC</i>
Date anl.TPHg: 10/27/89	Date released : 10/30/89
Date ext.TPHd: N/A	Date ext. TOG : N/A
Date anl.TPHd: N/A	Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	50	ND
108-88-3	Toluene	50	ND
100-41-4	Ethylbenzene	50	ND
1330-20-7	Total Xylenes	50	280
	TPH as Gasoline	1000	23000

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS  
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : TOM GREGORY 102689-1500  
 Matrix : WATER  
 Date sampled : 10/26/89  
 Date anl.TPHg: 10/27/89  
 Date ext.TPHd: N/A  
 Date anl.TPHd: N/A

Anamatrix I.D. : 8910234-01  
 Analyst : CB  
 Supervisor : TC  
 Date released : 10/30/89  
 Date ext. TOG : N/A  
 Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
71-43-2	Benzene	2	.032
108-88-3	Toluene	2	240
100-41-4	Ethylbenzene	2	61
1330-20-7	Total Xylenes	4	400
	TPH as Gasoline	100	2800

- ND - Below reporting limit.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

43289 Osgood Road  
Fremont, CA 94539

Environmental Services  
(415) 623-0480

DATE 10/24/89 PAGE 1 OF 1

CLIENT IN A COMPANY  
 ADDRESS \_\_\_\_\_  
 \_\_\_\_\_  
 PROJECT \_\_\_\_\_  
 ANALYSTS (SIGNATURE) \_\_\_\_\_

SAMPLE NO	DATE	TIME	LOCATION
141	10/24	1500	NE CORNER 12
142	10/24	1500	"
143	10/24	1500	"
144	10/24	1512	NE CORNER 12 EXHIBIT 12
145	10/24	1521	SE CORNER 17 EXHIBIT 17
146	10/24	1530	SAMPLE COMMENT

CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC	OTHER				NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
										PHENOLS	PAH'S	PCB'S	MERCURY		
										✓				1	<del>Handed over to lab</del>
										✓				1	Duplicate of 141
										✓				1	

RELINQUISHED BY: *David C. Glick*  
 Signature: \_\_\_\_\_  
 PRINTED NAME: **DAVID C. GLICK**  
 Company: \_\_\_\_\_  
 DATE: 10/24/89  
 TIME: 1750

RELINQUISHED BY: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 PRINTED NAME: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 TIME: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 PRINTED NAME: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 TIME: \_\_\_\_\_

RECEIVED BY (Laboratory): *Jonathan Powell*  
 Signature: \_\_\_\_\_  
 PRINTED NAME: **JONATHAN POWELL**  
 Company: **ANALYTICAL**  
 DATE: 10/24/89  
 TIME: 1750

TOTAL NUMBER OF CONTAINERS: \_\_\_\_\_  
 METHOD OF SHIPMENT: \_\_\_\_\_  
 SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS: **24 HR RUSH**

**ATTACHMENT C**  
**Summarized Analytical**  
**Results**

**Attachment C Soil & Water Analytical Results**  
**Goldsmith Lathrop, Emeryville, California**

<u>SAMPLE NO.</u>	<u>Total Petroleum Hydrocarbons Gasoline</u>	<u>Benzene</u>	<u>Tolunene</u>	<u>Xylenes</u>	<u>Ethylbenze</u>
1512	ND	ND	ND	ND	ND
1532	ND	ND	ND	ND	ND
1532-Comp	23000	ND	ND	280	ND
1500-sewer water	2800	32	240	400	61

Note: All concentrations expressed in micrograms per kilogram (ug/kg), or parts per billion (ppb)

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS  
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : TOM GREGORY 102689-1500  
 Matrix : WATER  
 Date sampled : 10/26/89  
 Date anl.TPHg: 10/27/89  
 Date ext.TPHd: N/A  
 Date anl.TPHd: N/A

Anamatrix I.D. : 8910234-01  
 Analyst : CB  
 Supervisor : TC  
 Date released : 10/30/89  
 Date ext. TOG : N/A  
 Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
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108-88-3	Toluene	2	240
100-41-4	Ethylbenzene	2	61
1330-20-7	Total Xylenes	4	400
	TPH as Gasoline	100	2800

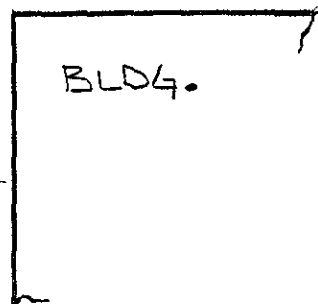
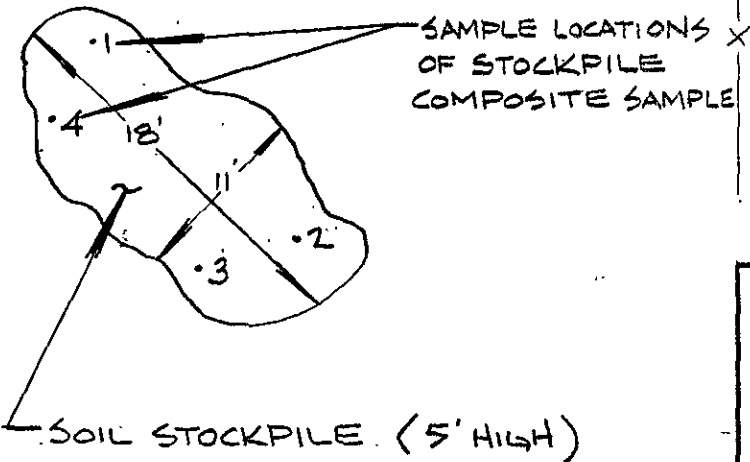
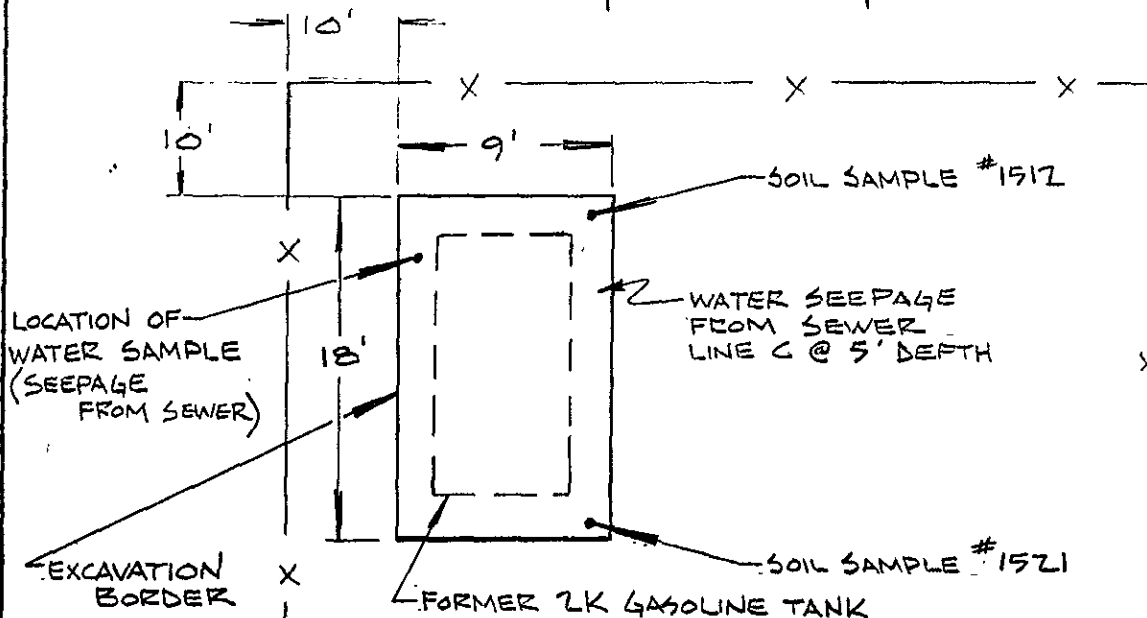
ND - Below reporting limit.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

SHELLMOUND AVE.



NOTE = WATER RUNNING INTO EXCAVATION @ MID-LEVEL OF TANK ON N.E. SIDE OF EXCAVATION WALL CITY CONFIRMS SEWER WASTE (NITRATES) GROUND WATER NOT ENCOUNTERED

SCALE	NONE
DATE	11-15-89
DRAWN BY	M.K.



43289 Oakwood Road, Fremont, Calif. 94539  
 (415) 623-0480  
 Cal. State Cont. Lic. # 572427

GENERALIZED SITE PLAN  
 GOLDSMITH & LATHROP  
 5813-15 SHELLMOUND  
 EMERYVILLE, CA.

PLATE  
**2**

PROJECT NO.