

11/16/89

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.

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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 it's 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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Certified Analytical Results

Samples collected for minimum verification analyses (MYA) 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.

MYA 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
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Should you have any questions or comments regarding the evaluations presented in this report, please call.

Respectfully,

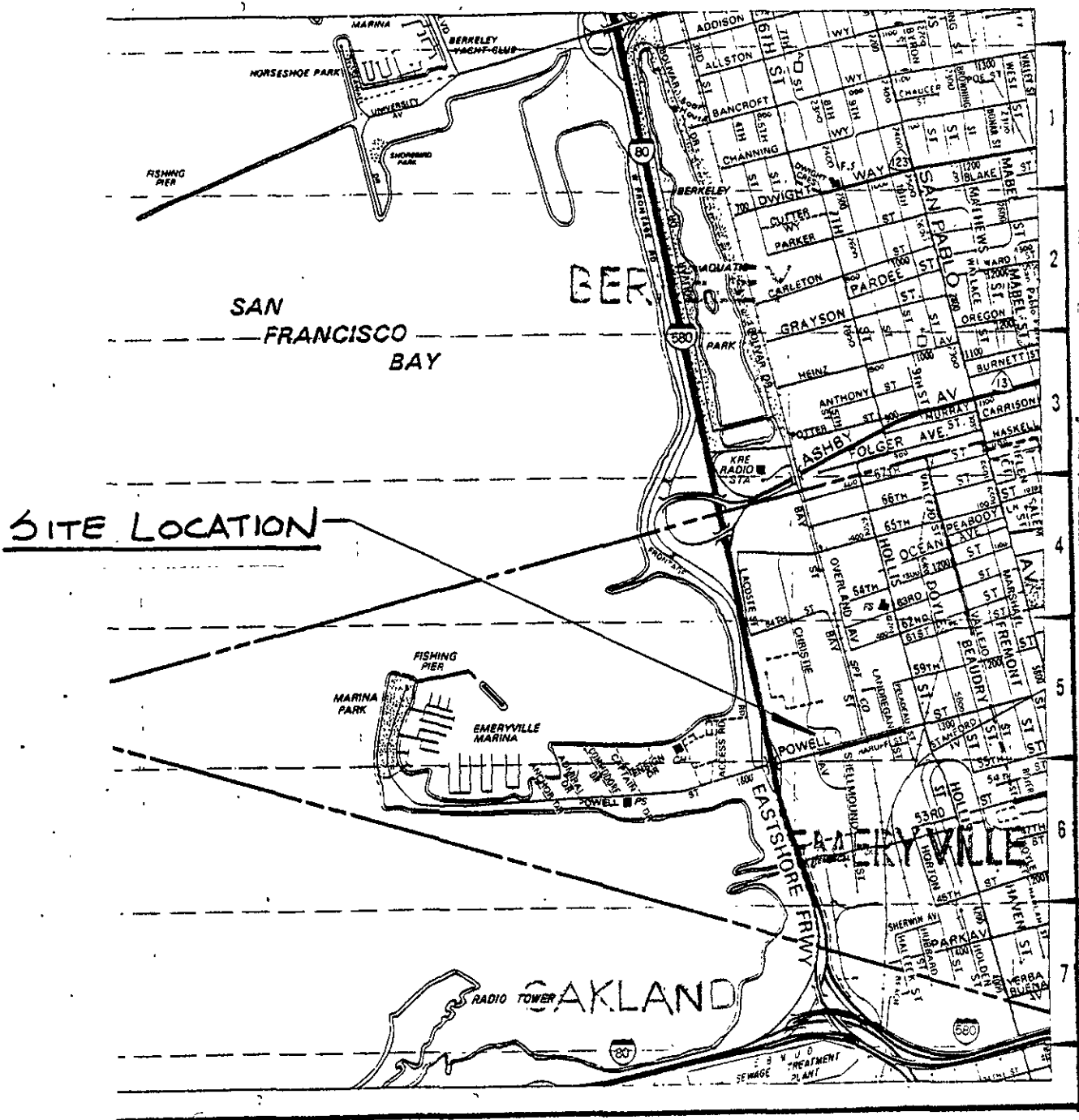
A handwritten signature in cursive script, appearing to read "K. Krause".

Kevin Krause
Vice President

KK/clis

Attachments

PLATES



SCALE
 DATE
 11-16-89
 DRAWN BY
 M.K.



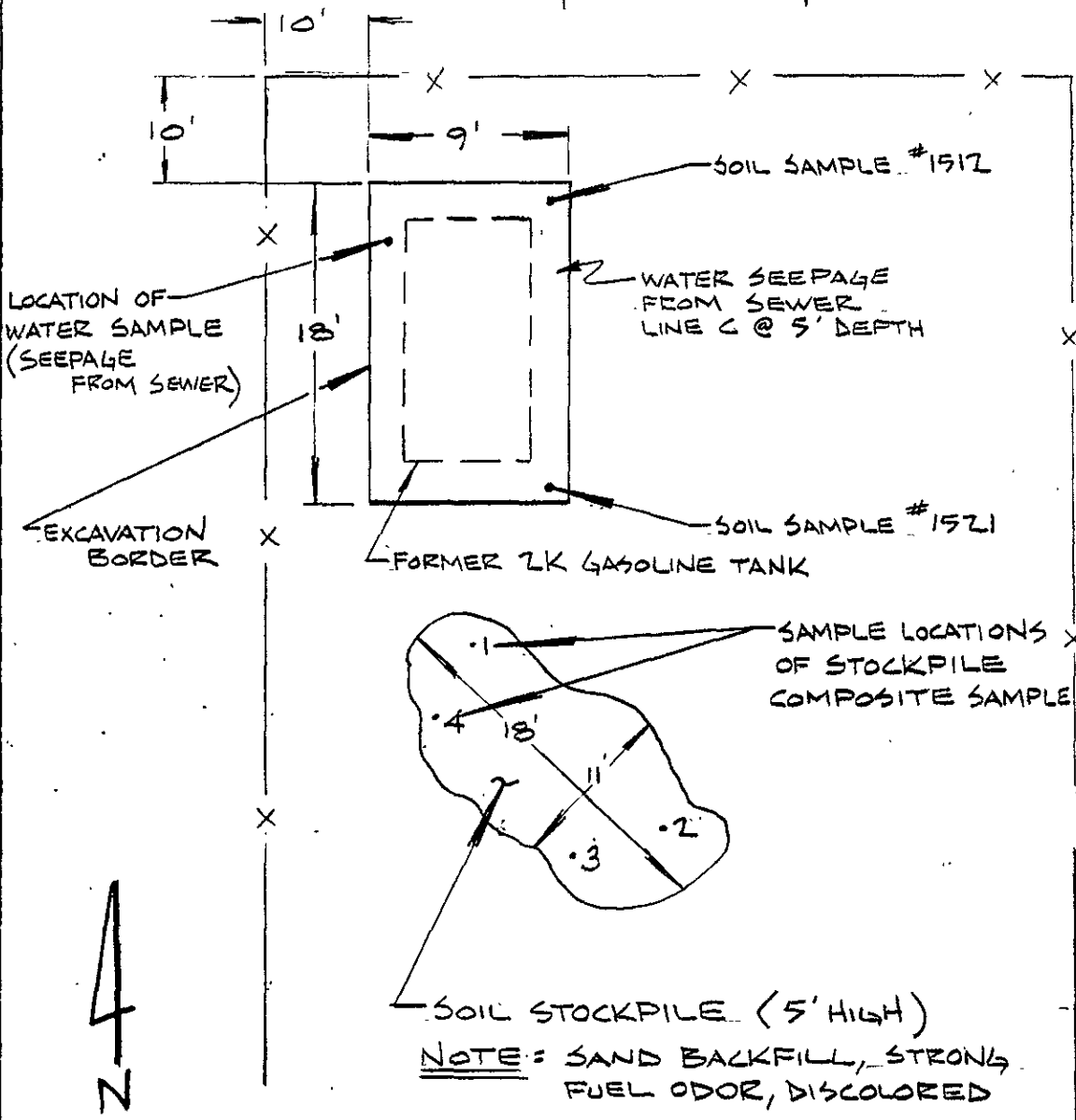
4229 Oscood Road, Fremont, Calif. 94539
 (415) 623-0480
 Cal. State Contr. Lic. # 57427

PROJECT NO.

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

PLATE
 1

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
DRWG. BY	M.K.



43289 Osgood 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.

ATTACHMENT A

Hazardous Waste Manifests

Please print or type. (Form designed for use on elite (12-pitch typewriter).)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address SUNSHINE WASTE TREATMENT 2000 S. 10TH AVENUE MILWAUKEE, WI 53211		1. Generator's US EPA ID No. 14PP0014616E7N		A. State Manifest Document Number 88119329	
4. Generator's Phone (714) 547-4700		6. US EPA ID Number		B. State Generator's ID	
5. Transporter 1 Company Name E. KRICK, INC.		8. US EPA ID Number 14PP0014616E7N		C. State Transporter's ID 001282	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 415-335-1393	
9. Designated Facility Name and Site Address MILWAUKEE 1500 W. WISCONSIN MILWAUKEE, WI 53211		10. US EPA ID Number 14PP0014616E7N		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility's ID	
				H. Facility's Phone 415-335-1393	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. HAZARDOUS WASTE SEPARATE FRAGS					State 572
b. HAZARDOUS WASTE SEPARATE FRAGS		01	100	PP	EPA/Other 572
c.					State
d.					EPA/Other
J. Additional Descriptions for Materials Listed Above 12000 GALLON UNLACQUERED WASTE TANK 10000 WITH 100# OF WASTE TANK # 2372		K. Handling Codes for Wastes Listed Above			
		a. 01			b.
		c.			d.
15. Special Handling Instructions and Additional Information					
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 THOMAS F. HOFFMAN		Signature Thomas F. Hoffman		Month Day Year KORR 15/89	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name THOMAS F. HOFFMAN		Signature Thomas F. Hoffman		Month Day Year KORR 15/89	
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 Shannon Dowdy		Signature Shannon Dowdy		Month Day Year 10/26/89	

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

GENERATOR

TRANSPORTER

FACILITY

ATTACHMENT B

**Certified Analytical
Reports**

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
 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. : 8910234-04
 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	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

Anametrix 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	32
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) 823-0480

DATE 10/24/89 PAGE 1 OF 1

CLIENT TOM SHEENAN
ADDRESS 5513-15 Shellmound
Emeryville, CA

PROJECT _____
AMPLERS (SIGNATURE) [Signature]

SAMPLE NO	DATE	TIME	LOCATION
102281-1455	10/24/89	1455	NW CORNER of EXCAV
102281-1500A		1500	"
102281-1520B		1520	"
102281-1512		1512	NE CORNER of EXCAVATION
102281-1521		1521	SE CORNER of EXCAVATION
102281-1532		1532	STOCKPILE COMPOST

PARAMETERS											OTHER			NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
CAM METALS (18)	PR. POLLUTANT METALS (12)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC	TPH ORS (4) RTXE	TPH ORS	RTXE			
												✓	102	Hand DCA 10/27/89	
												✓	}	Duplicate of 102281-1520A	
												✓			
												✓			
												✓			

RELINQUISHED BY <u>[Signature]</u> Signature <u>DAVID C. GLICK</u> Printed Name Company	DATE <u>10/24/89</u> TIME <u>1750</u>	RECEIVED BY Signature Printed Name Company	DATE	RELINQUISHED BY Signature Printed Name Company	DATE	RECEIVED BY Signature Printed Name Company	DATE	TOTAL NUMBER OF CONTAINERS
RELINQUISHED BY Signature Printed Name Company	DATE	RECEIVED BY Signature Printed Name Company	DATE	RELINQUISHED BY Signature Printed Name Company	DATE	RECEIVED BY (Laboratory) <u>[Signature]</u> Signature <u>[Signature]</u> Printed Name <u>ANALYTIX</u> Company	DATE <u>10/25/89</u> TIME <u>17:55</u>	METHOD OF SHIPMENT SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS <u>24 HR RUSH</u>

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)