

**DEPARTMENT OF TRANSPORTATION  
UNITED STATES COAST GUARD**



**USCG DISTRICT ELEVEN  
UNDERGROUND STORAGE TANK CLOSURE**

**PHASE 1 AT  
U.S. COAST GUARD SUPPORT CENTER ALAMEDA  
ALAMEDA, CALIFORNIA**

Prepared By

**HUNTER/GREGG, INC.**  
Martinez, California

December 1988

**SEMCO**

**JAMES C. BATEMAN PETROLEUM SERVICES, INC.**

431 W. Hatch Road, Modesto, CA 95351

1806 Leslie Street, San Mateo, CA 94402

General & Engineering Contractors, Lic. No. 449864 A, B, & C-61

Modesto Office (209) 524-9653 FAX (209) 524-0503

San Mateo Office (415) 572-8033 FAX (415) 572-9734

TOLL FREE 1-800-533-9293

P R O P O S A L		NO. 288
PROPOSAL SUBMITTED TO:	DESCRIPTION OF JOB:	
U.S. COAST GUARD	SOIL REMEDIATION	
915 SECOND AVE. ROOM 2664	JOB LOCATION: ALAMEDA SUPPORT CTR,	
SEATTLE, WASHINGTON 98174-1011	ALAMEDA, CALIFORNIA	
ATTENTION: MARGARET J. JONES	PHONE:	DATE: 5/18/89

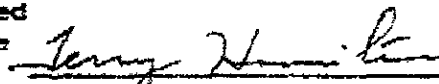
SEMCO will subcontract the services of Certified Environmental Consultants, Inc. to accomplish the bioremediation of approximately 30 cubic yards of contaminated soil at this location, including:

- Obtain agreement from regulatory agency on the treatment levels required at the site for on-site reuse of the soil.
- Obtain approval from Base Commander to utilize the necessary land area and water for the project.
- Obtain a permit from the Air Quality Control Board for the treatment of the soil.
- Set up treatment system.
- Collect required soil samples and turn the soil as needed.
- Obtain final approval from regulatory agency for reuse of soil on site.
- Prepare final report on project.

\*\* This proposal is based on a Time & Materials basis, and will be billed according to the attached fee schedule.

We hereby propose to subcontract labor and materials complete in accordance with the above specifications, for the sum not to exceed \$9,179.30 (Nine Thousand One Hundred Seventy Nine Dollars and Thirty Cents) without prior approval. This is based on the fees submitted by Certified Environmental Consultants, Inc., with fifteen percent added as our standard markup for subcontractor services.

Authorized  
Signature



Terry Hamilton, President

Note: This proposal may be withdrawn by us if not accepted within 60 days.

\*\*\*\*\*  
Acceptance of Proposal --The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made per contract No. DTCC-88-C-65036.

Authorized Signature/Date \_\_\_\_\_

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# **Hunter**

ENVIRONMENTAL SERVICES, INC.

Northern California Office  
Gregg & Associates, Inc.  
597 Center Avenue, Suite 350  
Martinez, California 94553  
415-372-3637 • 800-321-3637

January 24, 1989

Project No. 02-258-002

Commander John Sprouse  
U.S. Coast Guard  
Facilities Design and Construction Center  
915 Second Avenue, Room 2664  
Seattle, WA 98174-1011

**SUBJECT: Underground Fuel Storage Tank Removal and Closure Documentation for  
U.S. Coast Guard Island Support Center in Alameda, California**

Dear Commander Sprouse:

On December 29 and 30, 1988, three underground fuel storage tanks were closed at the U.S. Coast Guard Alameda Island Support Center. There were two 2,000 gallon steel gasoline tanks and one 2,000 gallon fiberglass diesel tank. During removal, the 2,000 gallon fiberglass diesel tank was found to be a Corning "bubble" tank. The tank was in pea-gravel backfill and surrounded by bay mud, and appeared to be in good condition. There was no apparent diesel oil in the soils sampled or observed surrounding the 2,000 gallon glass diesel tank. To confirm this a soil sample was collected under each end of the tank.

On December 30, 1988, the two 2,000 gallon steel gasoline tanks were removed. The tanks appeared to be old and showed some corrosion, but no holes were detected. The tanks were surrounded with sand and native material of bay mud. There was a petroleum hydrocarbon odor detected in soils surrounding the fuel tanks and therefore, approximately 30 yards of soils were removed from the tank excavation, placed on plastic, and covered. Soil samples were collected from each end of each tank and surrounding side walls to define vertical and lateral extent of hydrocarbons. Two separate stock piles were made, one large pile being below tank grade (Sample 4), and the other small pile above grade (Sample 5). Both soil stock piles emitted hydrocarbon odors and composite soil samples were collected from each soil stock pile as indicated in the previous sentence.

Commander John Sprouse  
Page 2  
January 24, 1989

Soil samples were analyzed by Superior Analytical Laboratories, a state certified testing laboratory. All soil samples collected were analyzed for Total Petroleum Hydrocarbons (TPH) and Benzene, Toluene, Ethyl Benzene, and Xylene (BTEX) using Environmental Protection Agency Methods 8015 and 8020, respectively.

Semco used pea-gravel to backfill and compact the excavations to grade. A concrete and asphalt finish was applied to the surface of the 2,000 gallon fiberglass tank excavation. The surface of the (two) 2,000 gallon steel tanks was not returned to final contour, awaiting results of laboratory analysis. For safety purposes the excavation was barricaded with a chain link fence.

A composite rinsate water sample was collected from all three tanks final cleaning and will be analyzed for TPH.

All hazardous waste manifests, chain-of-custody and sample location maps are included in this report to show and verify sample locations. A short summary explaining the analytical findings is attached following the summary tab. If there are any questions regarding this report, please call Norm Nelson at (415) 372-3637.

Sincerely,



Norm N. Nelson  
Project Manager

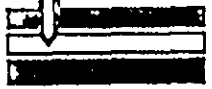


Dale E. Egner, RG 3457  
General Manager

NNN:gm

cc: Terry Hamilton, Semco  
Thomas F. Peacock, Alameda County

# GREGG



## GREGG & ASSOCIATES, INC.

### A Hunter Company

597 Center Avenue, Suite 350, Martinez, CA 94553 / (415) 372-3637

CHAIN OF CUSTODY RECORD

DATE 12/29/88

PAGE 1 OF 1

ADDRESS Alameda, U.S. Coast Guard  
Alameda

SUBJECT Phase I Tank Removals

OPERATOR'S NAME (Print) Don Nelson

Signature) Don Nelson

PARAMETERS											OTHER					
1	2	3	4	5	6	7	8	9	10	0	0	0	0	0	0	
				TPH			BTX									
A				X			X									
B				X			X									
A				X			X									
B				X			X									
A				X			X									
B				X			X									
L				X			X									

PARAMETER KEY:

T 1-CAM METALS (18) 0-

O 2-PR. POLLUTANT METALS (13) 0-

O 3-GENERAL MINERALS 0-

T 4-OIL & GREASE 0-

A 5-PETROLEUM HYDROCARBONS 0-

A 6-BASE/NEU/ACIDS (ORGANICS) 0-

L 7-PESTICIDES 0-

L 8-VOLATILE ORGANICS (601/602) 0-

S 9-VOLATILE ORGANICS (624) 0-

Sample #	date	time	location
A	12/29	4:30	Alameda 91502
B	12/29	4:35	"
A	12/29	4:40	"
B	12/29	4:49	"
A	12/29	5:00	"
B	12/29	5:15	"
L			

OBSERVATION/COMMENTS

INQUIRED BY: (signature) Don Nelson

RECEIVED BY: (signature) Kristy B. Jones date 12/30 time 9:05

TOTAL NUMBER OF CONTAINERS THIS SHEET: 1

2. Kristy B. Jones date 12/30 time 15:00

METHOD OF SHIPMENT:

3. SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS: Standard 5 day

4.

PATCHED BY: (signature) \_\_\_\_\_ date \_\_\_\_\_ time \_\_\_\_\_ RECEIVED FOR LAB BY: (sig) \_\_\_\_\_ date \_\_\_\_\_ time \_\_\_\_\_



RECEIVED JAN - 9 1989

**SUPERIOR ANALYTICAL LABORATORY, INC.**

1385 FAIRFAX ST., STE D • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E   O F   A N A L Y S I S

LABORATORY NO.: 50531  
CLIENT: Hunter/Gregg  
CLIENT ID: USCG-AIameda

DATE RECEIVED: 12/30/88  
DATE REPORTED: 1/6/89  
JOB NO.: N/A

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS  
by Modified EPA SW-846 Method 8015

Sample Identification	Concentration (mg/kg)	
	Gasoline Range	Diesel Range
1A 12/29 4:30	ND < 10	ND < 10
1B 12/29 4:35	ND < 10	ND < 10
2A 12/29 4:40	ND < 10	ND < 10
2B 12/29 4:49	ND < 10	ND < 10
3A 12/29 5:00	ND < 10	ND < 10
3B 12/29 5:15	ND < 10	ND < 10
#4	320.	260.

mg/kg = part per million (ppm)

Minimum Detection Limit for Gasoline and Diesel, 10 mg/kg.

QA/QC Summary:

Daily standards run at 200 mg/L; RPD Gasoline=10, Diesel=1.5  
MS/MSD: Average Diesel Recovery =93%; Duplicate RPD =7.

Les Partridge, Ph.D.

  
Laboratory Manager

OUTSTANDING QUALITY AND SERVICE

RECEIVED JAN - 9 1989

**SUPERIOR ANALYTICAL LABORATORY, INC.**

1385 FAIRFAX ST., STE D • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E   O F   A N A L Y S I S

LABORATORY NO.: 50531  
CLIENT: Hunter/Gregg  
JOB NO.: N/A

DATE SAMPLED: 12/29/88  
DATE ANALYZED: 1/4/89  
DATE REPORTED: 1/6/89

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES  
by EPA SW-846 Methods 5030 and 8020

Sample Identification	Concentration (ug/kg)			
	Benzene	Toluene	Ethyl Benzene	Xylenes
1A 12/29 4:30	ND< 3	ND< 3	ND< 3	ND< 3
1B 12/29 4:35	ND< 3	ND< 3	ND< 3	ND< 3
2A 12/29 4:40	ND< 3	ND< 3	14.	57.
2B 12/29 4:49	ND< 3	ND< 3	4.5	ND< 3
3A 12/29 5:00	ND< 3	5.1	25.	10.
3B 12/29 5:15	ND< 3	ND< 3	6.4	8.
#4	ND< 60	2700.	5000.	24000.

ug/kg = part per billion (ppb)

QA/QC Summary: Matrix Spike, Matrix Spike Duplicate:  
Average Recovery: 102% , RPD: 3

Les Partridge, Ph.D.

  
Laboratory Manager

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RECEIVED JAN 17 1989

**SUPERIOR ANALYTICAL LABORATORY, INC.**

1385 FAIRFAX ST., STE D • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E   O F   A N A L Y S I S


LABORATORY NO.: 50534  
CLIENT: Hunter/Gregg  
CLIENT ID: USCG-Alameda

DATE RECEIVED: 1/4/89  
DATE REPORTED: 1/11/89  
JOB NO.: N/A

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS  
by Modified EPA SW-846 Method 8015

Sample Identification	Concentration (mg/kg, mg/L)	
	Gasoline Range	Diesel Range
N-Sidewall 12/30/88 12:00	ND < 10	ND < 10
S-Sidewall 12/30/88 12:00	ND < 10	ND < 10
E-Sidewall 12/30/88 12:00	ND < 10	ND < 10
W-Sidewall 12/30/88 12:00	ND < 10	ND < 10
Large Pile 12/30/88 12:00	710.	340.
Small Pile 12/30/88 12:00	22.	77.
#7	13. mg/L	52. mg/L

mg/kg = part per million (ppm)      mg/L = part per million (ppm)  
Minimum Detection Limit for Gasoline and Diesel, 10 mg/kg, 1 mg/L  
QA/QC Summary:  
Daily standards run at 200 mg/L; RPD Gasoline=14, Diesel=5  
MS/MSD: Average Diesel Recovery =93%; Duplicate RPD =7 .

Les Partridge, Ph.D.  
  
Laboratory Manager

OUTSTANDING QUALITY AND SERVICE

**SUPERIOR ANALYTICAL LABORATORY, INC.**

1385 FAIRFAX ST., STE D • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E   O F   A N A L Y S I S

LABORATORY NO.: 50534  
CLIENT: Hunter/Gregg  
JOB NO.: USCG-Alameda

DATE SAMPLED: 12/30/88  
DATE ANALYZED: 1/9/89  
DATE REPORTED: 1/11/89

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES  
by EPA SW-846 Methods 5030 and 8020

Concentration (ug/kg)

<u>Sample Identification</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Xylenes</u>
N-Sidewall	ND< 3	15.	ND< 3	ND< 3
S-Sidewall	ND< 3	10.	ND< 3	ND< 3
E-Sidewall	ND< 3	29.	ND< 3	10.
W-Sidewall	ND< 3	37.	4.8	31.
Large Pile	370.	7200.	11000.	62000.
Small Pile	ND< 3	37.	ND< 3	34.

ug/kg = part per billion (ppb)

QA/QC Summary: Matrix Spike, Matrix Spike Duplicate:  
Average Recovery: 102% , RPD: 3

Les Partridge, Ph.D.

  
Laboratory Manager

OUTSTANDING QUALITY AND SERVICE

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

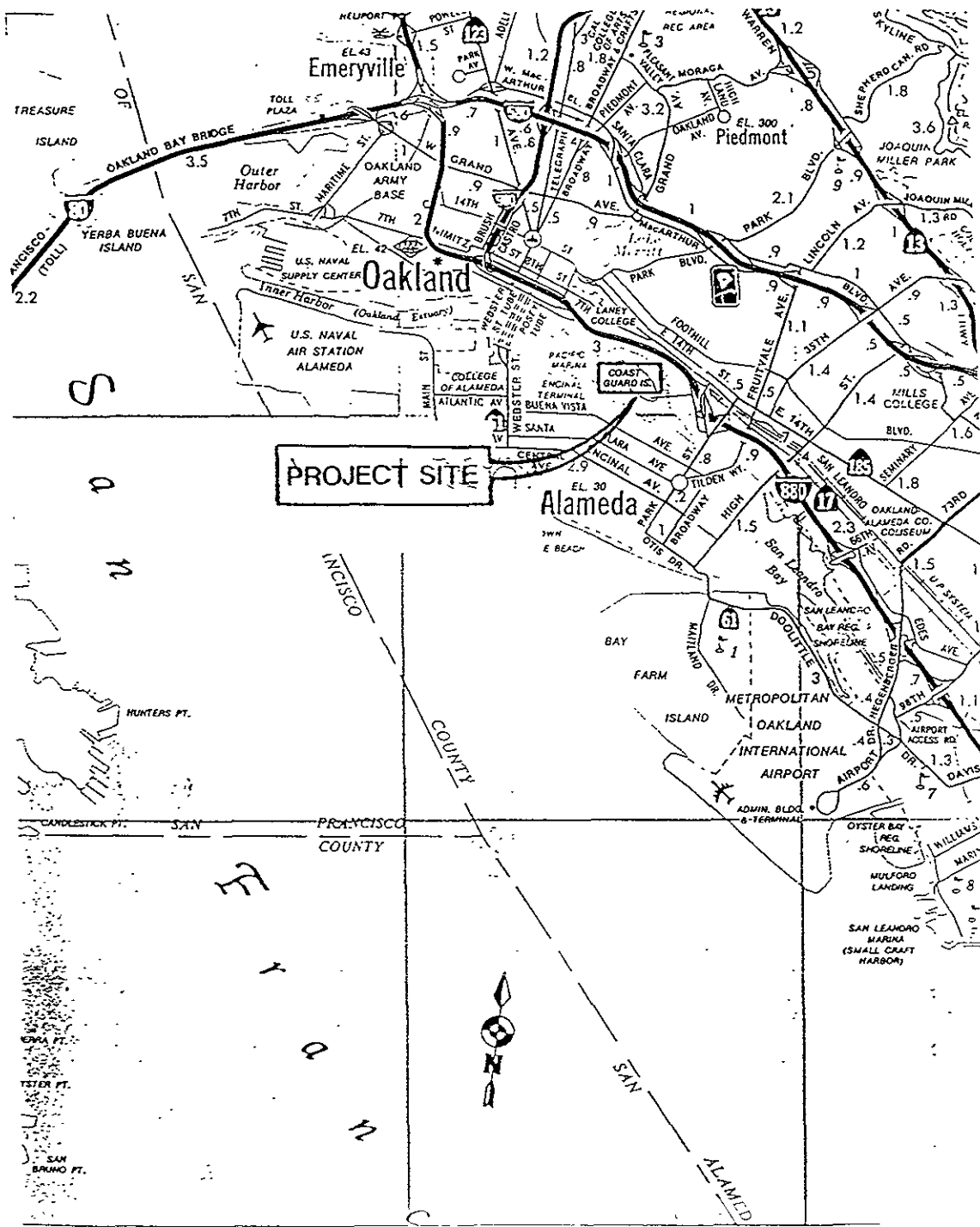
SPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7551

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL TRANSPORTER

GENERATOR

FACILITY

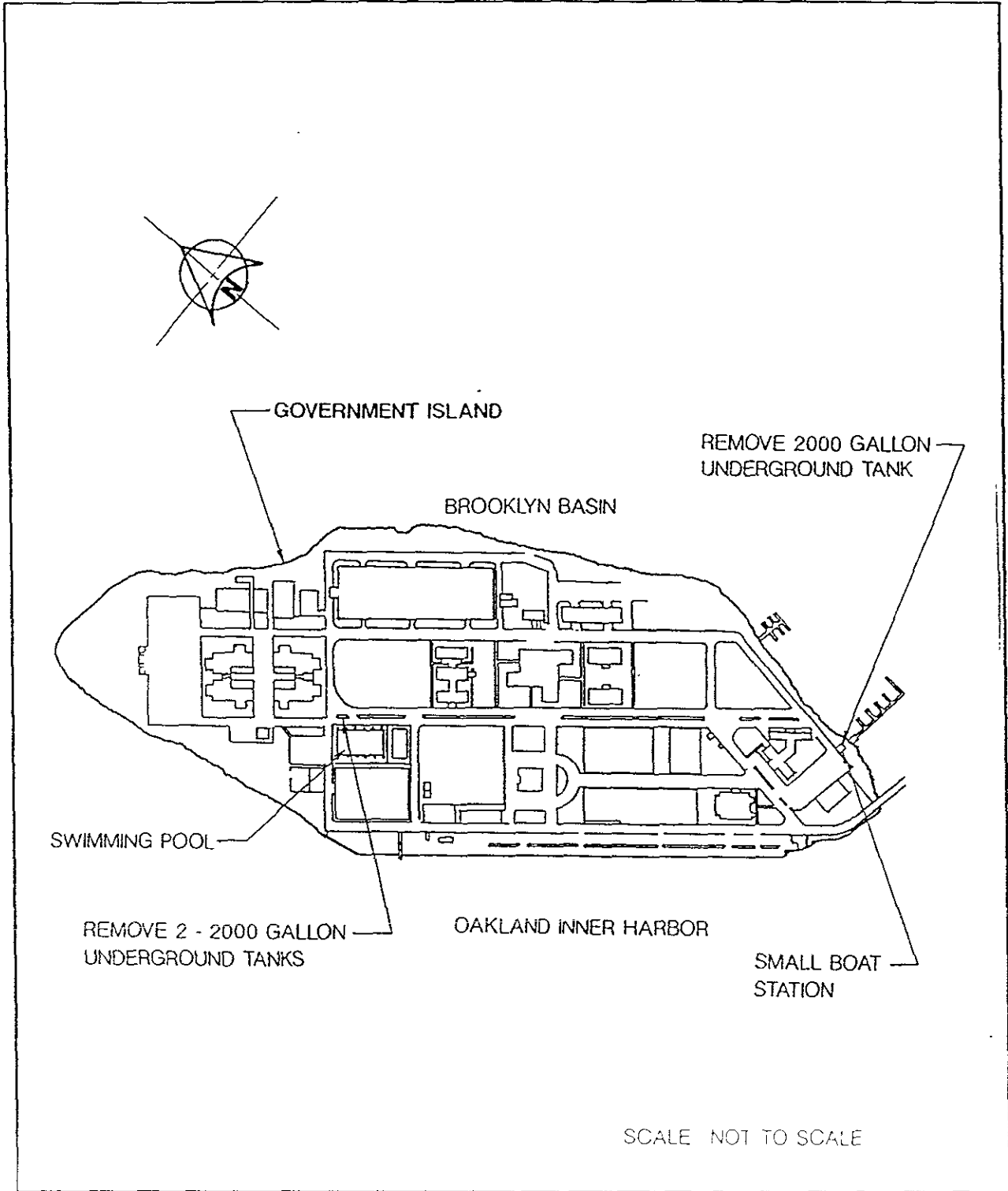
<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No <b>CA1716910391010317</b>	Manifest Document No <b>8795837</b>	2. Page 1 of	Information in the shaded areas is not required by Federal law
3. Generator's Name and Mailing Address <b>US Coast Guard Island Support Center Alameda CA 94601</b>				A. State Manifest Document Number <b>8795837</b>	
4. Generator's Phone <b>415 437-5775</b>		6. US EPA ID Number <b>CA1716910391010317</b>		B. State Generator's ID	
5. Transporter 1 Company Name <b>Allied Petroleum</b>		8. US EPA ID Number <b>CA1918101617151128</b>		C. State Transporter's ID <b>903731</b>	
7. Transporter 2 Company Name <b>W-H Tank Lines</b>		8. US EPA ID Number <b>CAAD001013710645</b>		D. Transporter's Phone <b>(209) 576-8500</b>	
9. Designated Facility Name and Site Address <b>DeAlamo Kardon Compton CA 90222</b>		10. US EPA ID Number <b>CAIT01810101133152</b>		E. State Transporter's ID	
				F. Transporter's Phone <b>(213) 427-3109</b>	
				G. State Facility's ID <b>CAIT01810101133152</b>	
				H. Facility's Phone <b>(213) 537-7100</b>	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers	13. Total Quantity	14. Unit Wt/Vol
a. <b>Waste oil Combustible Liquid NOS NA 1270</b>			No.   Type	1   1330 G	
					I. Waste No. State <b>221</b> EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other
J. Additional Descriptions for Materials Listed Above <b>About 50% water + Rinse</b>			K. Handling Codes for Wastes Listed Above		
			a. 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 <b>Jim Madder</b>		Signature <i>Jim Madder</i>		Month Day Year <b>10/10/89</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name <b>Colin Kelley</b>		Signature <i>Colin Kelley</i>		Month Day Year <b>10/10/89</b>	
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	



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GREGG & ASSOCIATES, INC.  
 597 Center Avenue, Suite 350  
 Martinez, California 94553  
 (415) 372-3637

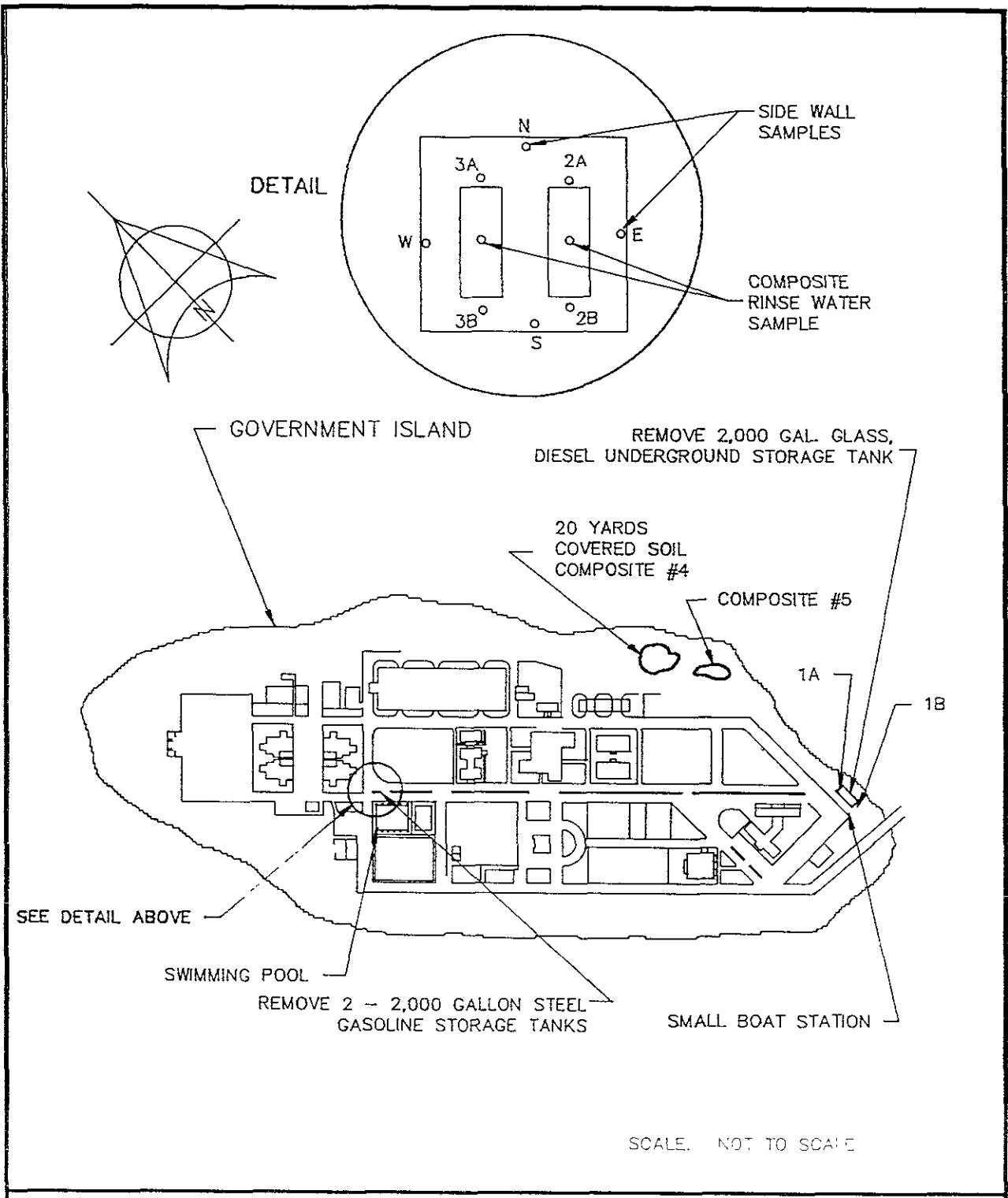
FIGURE 1  
 SITE LOCATION MAP  
 UNITED STATES COAST GUARD  
 SUPPORT CENTER - ALAMEDA  
 ALAMEDA, CALIFORNIA



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SERVICES, INC. COMPANY

GREGG & ASSOCIATES, INC.  
597 Center Avenue, Suite 350  
Martinez, California 94553  
(415) 372-3637

FIGURE 2  
UNDERGROUND TANK LOCATION MAP  
UNITED STATES COAST GUARD  
SUPPORT CENTER - ALAMEDA  
ALAMEDA, CALIFORNIA



A HUNTER ENVIRONMENTAL SERVICES, INC. COMPANY

GREGG & ASSOCIATES, INC.  
 597 Center Avenue, Suite 350  
 Martinez, California 94553  
 (415) 372-3637

FIGURE 3  
 SOIL SAMPLE LOCATION MAP  
 UNITED STATES COAST GUARD  
 SUPPORT CENTER - ALAMEDA  
 ALAMEDA, CALIFORNIA

## SUMMARY

A total of three underground fuel storage tanks were closed at the Alameda Support Center U.S. Coast Guard Facility on December 30, 1988. All soil samples were collected as required by Alameda County regulator, Tom Peacock.

Soil sampling was performed by Hunter Environmental Services, Inc., environmental consultants subcontracted by SEMCO. Samples were collected in 6 inch brass sleeves from the soil in the backhoe bucket. Samples were immediately covered with aluminum foil and plastic caps, labeled, and placed on ice. The samples were transported to a DOHS certified analytical laboratory at the end of each day under proper chain-of-custody.

Soil samples were analyzed by Superior Analytical Laboratories, Inc. of San Francisco (DOHS Certification No. 220). Samples were analyzed for Total Petroleum Hydrocarbon (TPH) using modified Environmental Protection Agency (EPA) SW-846 Method 8015 and Benzene, Toluene, Ethyl Benzene, and Xylene (BTEX) using EPA SW-846 Methods 8020 and 5030. The signed certificates of analyses and chain-of-custody records are enclosed.

Hydrocarbon odors were detected in soils during the excavation of the two 2,000 gallon gasoline tanks. Approximately 30 yards of soils containing hydrocarbon concentrations were removed from around and below the tanks. Excavated soils were placed on plastic and composite soil samples from each pile were collected. Soil samples were collected underneath the fuel tanks at a vertical depth of 8 feet. Side wall soil samples were collected in native material, of bay mud, from the walls of the excavation. The bay muds were saturated with water, but no ground water was present in the tank excavation.

Soil samples collected under the fuel tanks showed non-detectable levels or insignificant traces of TPH and BTEX. Soil samples collected from the excavations walls and analyzed for TPH and BTEX also showed non-detectable levels. Thus, the vertical and lateral extent of hydrocarbons in soil has been defined in the excavation and those soils have been removed for treatment or disposal.

Soils removed from the excavation were analyzed as composite sample No. 4 (small pile) and No. 5 (large pile). The composite soil samples contained low levels of hydrocarbon concentrations, however, they are above the California State Action Levels. These soils need to be remediated on site or hauled to a hazardous waste disposal site by a state certified licensed hazardous materials hauler. If soils are remediated on site, soil aeration permits and County authorization are required before work begins. An unauthorized leak report may need to be filed upon the county's request.