RO 2443

SITE CHARACTERIZATION REPORT

TANK #K01

U.S. COAST GUARD

COAST GUARD ISLAND

ALAMEDA, CA

RAH Environmental, Inc.

3310 Swetzer Road

Loomis, CA 95650

October 23, 1997

ENCLOSURE(1)

I. INTRODUCTION

RAH Environmental, Inc. was contracted by the United States Coast Guard under contract #DTCG88-97-B-623174 to perform underground storage tank and piping removal operations at Building 51 on Coast Guard Island in Alameda, CA. The project included the removal of one five hundred fifty gallon diesel storage tank and related piping.

II. SITE DESCRIPTION

The project site is on Coast Guard Island, located in Alameda, CA. The underground storage tank was located to the rear of Building 51, and formerly stored diesel fuel to power an emergency generator. The tank had a small 4" thick concrete slab above it, and approximately 20 feet of piping which was connected to a small pump.

III. SOIL SAMPLING AND ANALYSIS

On August 28, 1997, following the removal of the tank, at approximately 1:00 PM, one soil sample was collected from the base of the tank excavation, one sample from beneath the piping next to the pump, and one sample from the soil stockpile. No groundwater was encountered during the tank removal or sampling operations. The sample from the excavation (BLDG. 51 TANK) was collected from 4.5' below ground surface on the east wall using a 2"x6" brass tube and sampling the native soil directly from the backhoe bucket. The sample from beneath the piping (BLDG. 51 PUMP) was collected from 2' below ground surface using a drive sampler with a 2"x6" brass tube. A single sample (BLDG. 51 PILE) was collected from the stockpile, also in a 2"x6" brass tube. The samples were preserved on ice at 4°C and transported under chain of custody to NEI/GTEL for analysis. NEI/GTEL is state certified under #1845 and is located at 4080-C Pike Lane in Concord, CA 94520. The following table summarizes the conditions under which the samples were taken:

Table 1

Sample ID#	Time	Temperature	Weather	Tide
BLDG.51 TANK	1:00 PM	78°	Clear, Sunny	-2.0
BLDG.51 PUMP	1:30 PM	78°	Clear, Sunny	-2.5
BLDG.51 PILE	2:30 PM	78°	Clear, Sunny	-2.6

Results of the soil sampling indicate that the subsurface soil was not impacted by significant concentrations of petroleum hydrocarbons. The sample collected from the base of the excavation contained no detectable levels of TPHdiesel or BTEX. The sample collected from beneath the piping at the pump did contain 31 ppm of TPH-as-diesel, but no benzene, toluene, ethylbenzene, or xylene. The stockpile sample contained 150 ppm of TPH-as-diesel, but also contained no benzene, toluene, ethylbenzene, or xylene. The analytical results are summarized in Table 2 below, and the full laboratory

reports are included as an attachment.

Table 2

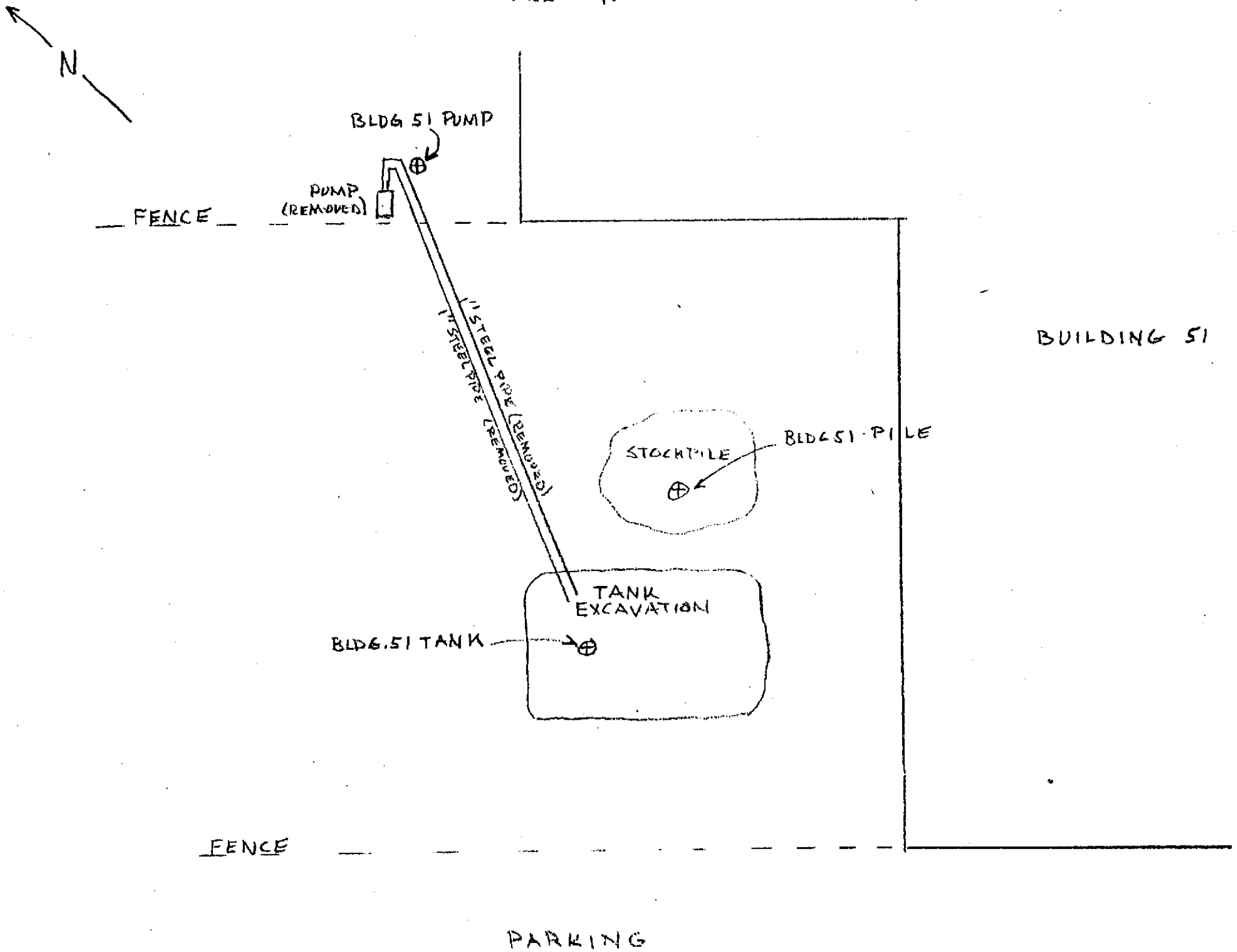
Sample ID	TPHdiesel	Benzene	Toluene	Ethylbenzene	Xylene
BLDG. 51 TANK	<10	<0.05	<0.10	<0.10	<0.20
BLDG. 51 PUMP	31	<0.05	<0.10	<0.10	<0.20
BLDG. 19 PILE	150	<0.05	<0.10	<0.10	<0.20

All results reported in **parts per million(mg/kg)**, unless otherwise indicated.

IV. RECOMMENDATIONS

Based on the results of the soil sampling and analysis, there are no significant concentrations of petroleum hydrocarbons in the soil, and the site should be eligible for regulatory closure.

FIGURE 1
USCG - ISC ALAMEDA
TANK #KO1 REMOVAL (8-28-97)



NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

September 12, 1997

Scott Vickers
RAH Environmental Inc.
3310 Swetzer Road
Loomis, CA 95650

RE: NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number):
Project ID (name): USCG/ALAMEDA/AFB

Dear Scott Vickers:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 08/30/97 under Chain-of-Custody Number(s) 36374.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the California Department of Health Service under Certification Number 2147.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Metals

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: EPA 7421
Matrix: Solids

NEI/GTEL Sample Number	W7080571-04	W7080571-05	W7080571-06	W7080571-07
Client ID	BLDG 19 WEST	BLDG 19 EAST	BLDG 19 PILE	BLDG 15 NORTH
Date Sampled	08/28/97	08/28/97	08/28/97	08/28/97
Date Prepared	09/12/97	09/12/97	09/12/97	09/12/97
Date Analyzed	09/12/97	09/12/97	09/12/97	09/12/97
Dilution Factor	20.0	10.0	10.0	5.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Lead	0.40	mg/kg	62.	26.	24.	6.5
Percent Solids	--	%	79.3	78.5	83.2	90.8

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 7421:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods". SW-846. Third Edition including Update 2.

ANALYTICAL RESULTS
Metals

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: EPA 7421
Matrix: Solids

NEI/GTEL Sample Number	W7080571-08	--	--	--
Client ID	BLDG 15 SOUTH	--	--	--
Date Sampled	08/28/97	--	--	--
Date Prepared	09/12/97			
Date Analyzed	09/12/97	--	--	--
Dilution Factor	10.0	--	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Lead	0.40	mg/kg	31.	--	--	--
Percent Solids	--	%	87.2	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 7421:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons By GC

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: GC
Matrix: Solids

NEI/GTEL Sample Number	W7080571-01	W7080571-02	W7080571-03	--
Client ID	BLDG 51 TANK	BLDG 51 PUMP	BLDG 51 PILE	--
Date Sampled	08/28/97	08/28/97	08/28/97	--
Date Prepared	09/04/97	09/04/97	09/04/97	
Date Analyzed	09/06/97	09/06/97	09/06/97	--
Dilution Factor	1.00	1.00	1.00	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
TPH as Diesel	10.	mg/kg	< 10.	31.	150	--
Percent Solids	--	%	97.5	85.3	100.	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

GC:

Extraction by EPA Method 3550 (sonication). ASTM Method D3328(modified) is used for qualitative identification of fuel patterns. The method has been modified to include quantitation by applying calibration and quality assurance guidelines outlined in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods". SW-846, Third Edition including promulgated Update 1. This method is equivalent to the California LUFT manual DHS method for diesel fuel.

W7080571-02:

The material present is qualitatively uncertain. Therefore, all material in the C9 to C22 range was quantitated against diesel fuel without respect to pattern. Chromatographic data indicates the presence of material, which is heavier than diesel fuel, in this sample.

W7080571-03:

The material present is qualitatively uncertain. Therefore, all material in the C9 to C22 range was quantitated against diesel fuel without respect to pattern. Chromatographic data indicates the presence of material, which is heavier than diesel fuel, in this sample.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	--	*	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	OTP
Method: GC		Acceptability Limits:	43.7-111%
090497TPHS-1	BS090497TPH	Method Blank Soil	43.6*
090497TPHS-2	LS090497TPH	Laboratory control	69.3
090497TPHS-3	LSD090497TPH	LCS Soil Duplicate	69.3
090497TPHS-4	MS08054501	Matrix Spike	73.0
090497TPHS-5	MD08054501	Matrix Spike Dupli	65.7
--	08057101	BLDG 51 TANK	66.1
--	08057102	BLDG 51 PUMP	78.0
--	08057103	BLDG 51 PILE	73.8

Notes:
*: Indicates values outside of acceptability limits. See Sample Report.
Acceptability limits are derived from statistical analysis of laboratory samples.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Method Blank Results

QC Batch No: 090497TPHS-1
Date Analyzed: 05-SEP-97

Analyte	Method:GC	Concentration: mg/kg
Diesel Range Organics	< 10.0	

Notes:
090497TPHS-1: Surrogate spike recovery is outside of acceptability limits. The reported concentration for this sample should be considered as an estimate.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7080545-01 MS ID:MS08054501 MSD ID:MD08054501
Analysis Date: 06-SEP-97 05-SEP-97 05-SEP-97

Units: ug/ml	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Diesel Range Organics	< 10.0(0.190)	66.4	65.3	47.9	71.9	41.0	62.5	14.0	29.2	34.3-121

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
Acceptability limits are derived from statistical analysis of laboratory samples.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
GC Units: mg/kg	QC Batch:090497TPHS-3							
Diesel Range Organics	66.7	47.4	72.3	47.8	72.3	0.00	30.4	39.8-115%

Notes:
Acceptability limits are derived from statistical analysis of laboratory samples.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: EPA 8020A
Matrix: Solids

NEI/GTEL Sample Number	W7080571-01	W7080571-02	W7080571-03	W7080571-04
Client ID	BLDG 51 TANK	BLDG 51 PUMP	BLDG 51 PILE	BLDG 19 WEST
Date Sampled	08/28/97	08/28/97	08/28/97	08/28/97
Date Analyzed	09/04/97	09/04/97	09/04/97	09/04/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Benzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.35
Toluene	0.10	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10
Ethylbenzene	0.10	mg/kg	< 0.10	< 0.10	< 0.10	14.
Xylenes (total)	0.20	mg/kg	< 0.20	< 0.20	< 0.20	11.
TPH as Gasoline	10.	mg/kg	--	--	--	3000
Percent Solids	--	%	97.5	85.3	100.	79.3

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste. Physical/Chemical Methods", SW-846. Third Edition including promulgated Update II.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: EPA 8020A
Matrix: Solids

NEI/GTEL Sample Number	W7080571-05	W7080571-06	W7080571-07	W7080571-08
Client ID	BLDG 19 EAST	BLDG 19 PILE	BLDG 15 NORTH	BLDG 15 SOUTH
Date Sampled	08/28/97	08/28/97	08/28/97	08/28/97
Date Analyzed	09/04/97	09/04/97	09/05/97	09/05/97
Dilution Factor	1.00	1.00	5.00	5.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Benzene	0.05	mg/kg	0.10	< 0.05	3.2	7.0
Toluene	0.10	mg/kg	< 0.10	< 0.10	38.	23.
Ethylbenzene	0.10	mg/kg	4.2	1.3	81.	55.
Xylenes (total)	0.20	mg/kg	2.7	2.5	270	190
TPH as Gasoline	10.	mg/kg	730	230	6000	4100
Percent Solids	--	%	78.5	83.2	90.8	87.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT
Method: EPA 8020A		Acceptability Limits:	43-136%
090497GC10-1	CV0904972010	Calibration Verifi	88.2
090497GC10-2	BW09049710	Method Blank Water	91.1
090497GC10-3	BS09049710	Method Blank Soil	107.
090497GC10-4	MS08057101	Matrix Spike	111.
090497GC10-5	MD08057101	Matrix Spike Dupli	114.
090497GC10-6	LS09049710	Laboratory control	115.
--	08057101	BLDG 51 TANK	109.
--	08057102	BLDG 51 PUMP	106.
--	08057103	BLDG 51 PILE	84.6
--	08057104	BLDG 19 WEST	132.
--	08057105	BLDG 19 EAST	129.
--	08057106	BLDG 19 PILE	66.2
--	08057107	BLDG 15 NORTH	93.2
--	08057108	BLDG 15 SOUTH	73.4

Notes:
*: Indicates values outside of acceptability limits. See Sample Report.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Method Blank Results

QC Batch No: 090497GC10-2
Date Analyzed: 04-SEP-97

Analyte	Method: EPA 8020A Concentration: ug/L
Benzene	< 0.400
Toluene	< 0.500
Ethylbenzene	< 0.400
Xylenes (Total)	< 0.800
TPH as Gasoline	< 50.0

Notes:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Method Blank Results

QC Batch No: 090497GC10-3
Date Analyzed: 04-SEP-97

Analyte	Method:EPA 8020A Concentration: mg/kg
Benzene	< 0.0500
Toluene	< 0.100
Ethylbenzene	< 0.100
Xylenes (Total)	< 0.200
TPH as Gasoline	< 10.0

Notes:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020A	Units:ug/L	QC Batch:090497GC10-1			
Benzene		20.0	16.1	80.5	77-123%
Toluene		20.0	16.0	80.0	77.5-122.5%
Ethylbenzene		20.0	17.1	85.5	63-137%
Xylenes (Total)		60.0	55.1	91.8	85-115%
TPH as Gasoline		500	580	116	80-120%

Notes:
QC check source: Supelco #LA12389

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020A Units:mg/kg	QC Batch:090497GC10-6			
Benzene	5.00	4.06	81.2	39-150%
Toluene	5.00	4.21	84.2	46-148%
Ethylbenzene	5.00	4.25	85.0	32-160%
Xylenes (Total)	15.0	13.0	86.7	41-155%
TPH as Gasoline	100	63.9	63.9*	80-120%

Notes:

SITE CHARACTERIZATION REPORT

TANK #K05

U.S. COAST GUARD

COAST GUARD ISLAND

ALAMEDA, CA

Prepared By:

Scott Vickers

RAH Environmental, Inc.

3310 Swetzer Road

Loomis, CA 95650

October 23, 1997

ENCLOSURE(3)

I. INTRODUCTION

RAH Environmental, Inc. was contracted by the United States Coast Guard under contract #DTCG88-97-D-623174 to perform underground storage tank assessment and closure operations at Building 15 on Coast Guard Island in Alameda, CA. The project included the closure-in-place of Tank #K05, a one thousand gallon gasoline storage tank.

II. SITE DESCRIPTION

The project site is on Coast Guard Island, located in Alameda, CA. The underground storage tank is located under the floor of the maintenance shop in Building 15, and formerly stored gasoline. The tank is immediately inside of the south wall of the building and the only access to the tank was a four inch fill pipe located outside of the wall, and a one inch pipe inside of the building in a covered 2' X 2' access vault.

III. SOIL SAMPLING AND ANALYSIS

On August 28, 1997, two samples were collected from the soil immediately adjacent to and below tank #K05 as shown in Figure 1. One sample was collected from below the north end of the tank at a depth of 8.5' below ground surface and labeled BLDG. 15 NORTH. The other sample was collected from below the south end of the tank at a depth of 8.0' below ground surface and labeled BLDG. 15 SOUTH. The soil samples were collected by hand augering to the depth indicated and using a drive sampler with 2"x6" brass tubes. The soil at approximately 8.5' below ground surface was saturated, indicating the presence of groundwater. Groundwater could not be sampled, however, due to the small size of the borings. Once collected, the soil samples were capped, preserved on ice at 4°C and transported under chain of custody to NEI/GTEL for analysis. NEI/GTEL is state certified under #1845 and is located at 4080-C Pike Lane in Concord, CA 94520. The following table summarizes the conditions under which the samples were taken:

Table 1

Sample ID#	Time	Temperature	Weather	Tide
BLDG.15 NORTH	3:30 PM	78°	Clear, Sunny	-1.9
BLDG.15 SOUTH	3:45 PM	78°	Clear, Sunny	-1.5

Results of the soil sampling indicate that the subsurface soil has been impacted by petroleum hydrocarbons below the bottom of the tank. The samples both contained detectable concentrations of TPH-as-gas, benzene, toluene, ethylbenzene, and xylene. Concentrations of TPH-as-gas were 6,000 and 4,100 ppm; benzene - 3.2 and 7.0 ppm; toluene - 38 and 23 ppm; ethylbenzene - 81 and 55 ppm; and xylene - 270 and 190 ppm. The analytical results are summarized in Table 2 below, and the full analytical report is included as an attachment.

Table 2

Sample ID	Lead	TPHgas	Benzene	Toluene	Ethylbenzene	Xylene
BLDG. 15 NORTH	6.5	6,000	3.2	38	81	270
BLDG. 15 SOUTH	31	4,100	7.0	23	55	190

All results reported in **parts per million(mg/kg)**, unless otherwise indicated.

V. RECOMMENDATIONS

Based on the results of the soil sampling and analysis, there are significant concentrations of petroleum hydrocarbons in soil and additional assessment activities may be required before this site can be closed.

U.S. COAST GUARD - ISC ALAMEDA
TANK #K05 - BLDG. 15
CLOSURE IN PLACE - 1,000 GALLON GASOLINE

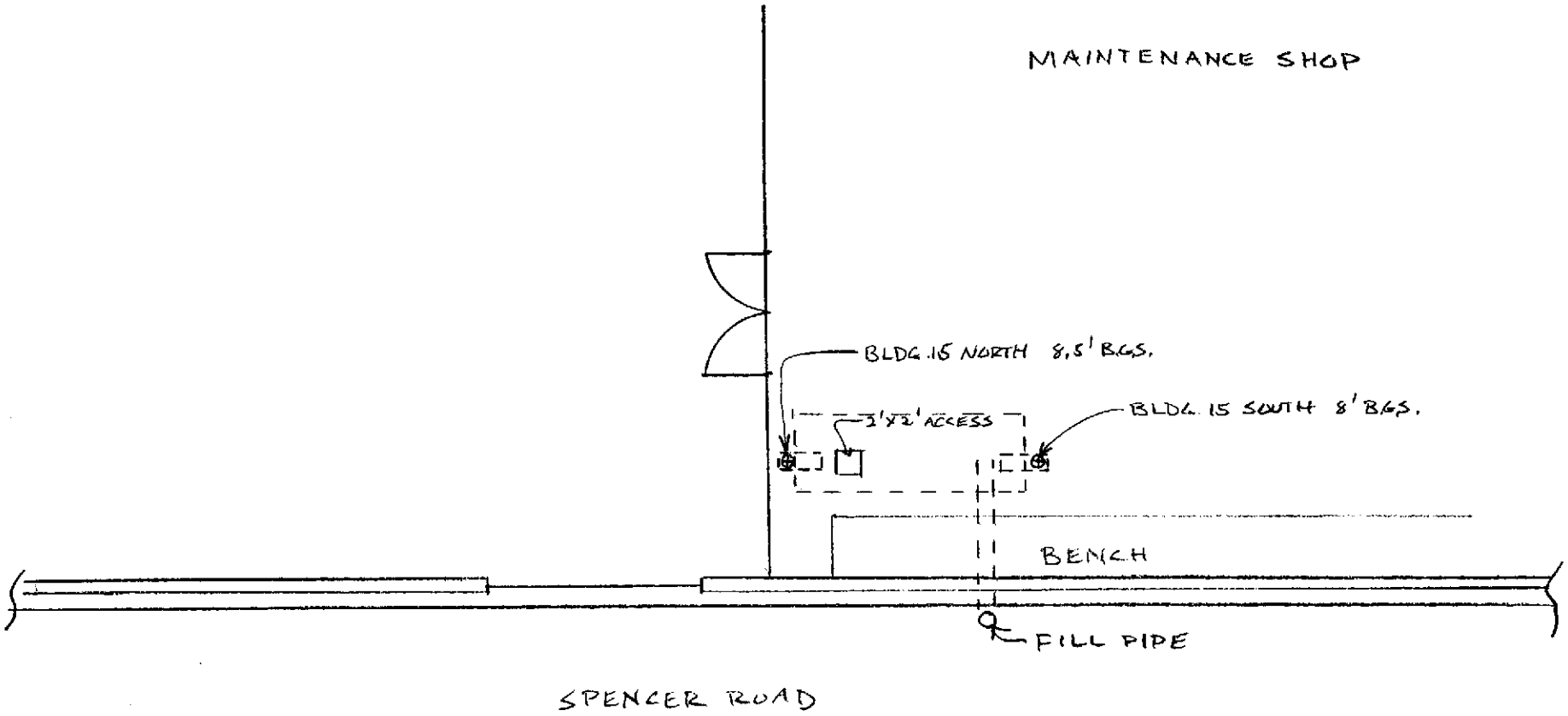


FIGURE 1

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

September 12, 1997

Scott Vickers
RAH Environmental Inc.
3310 Swetzer Road
Loomis, CA 95650

RE: NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number):
Project ID (name): USCG/ALAMEDA/AFB

Dear Scott Vickers:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 08/30/97 under Chain-of-Custody Number(s) 36374.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the California Department of Health Service under Certification Number 2147.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Metals

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: EPA 7421
Matrix: Solids

NEI/GTEL Sample Number	W7080571-04	W7080571-05	W7080571-06	W7080571-07
Client ID	BLDG 19 WEST	BLDG 19 EAST	BLDG 19 PILE	BLDG 15 NORTH
Date Sampled	08/28/97	08/28/97	08/28/97	08/28/97
Date Prepared	09/12/97	09/12/97	09/12/97	09/12/97
Date Analyzed	09/12/97	09/12/97	09/12/97	09/12/97
Dilution Factor	20.0	10.0	10.0	5.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Lead	0.40	mg/kg	62.	26.	24.	6.5
Percent Solids	--	%	79.3	78.5	83.2	90.8

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 7421:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Metals

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: EPA 7421
Matrix: Solids

NEI/GTEL Sample Number	W7080571-08	--	--	--
Client ID	BLDG 15 SOUTH	--	--	--
Date Sampled	08/28/97	--	--	--
Date Prepared	09/12/97			
Date Analyzed	09/12/97	--	--	--
Dilution Factor	10.0	--	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Lead	0.40	mg/kg	31.	--	--	--
Percent Solids	--	%	87.2	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 7421:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons By GC

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: GC
Matrix: Solids

NEI/GTEL Sample Number	W7080571-01	W7080571-02	W7080571-03	--
Client ID	BLDG 51 TANK	BLDG 51 PUMP	BLDG 51 PILE	--
Date Sampled	08/28/97	08/28/97	08/28/97	--
Date Prepared	09/04/97	09/04/97	09/04/97	
Date Analyzed	09/06/97	09/06/97	09/06/97	--
Dilution Factor	1.00	1.00	1.00	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
TPH as Diesel	10.	mg/kg	< 10.	31.	150	--
Percent Solids	--	%	97.5	85.3	100.	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

GC:

Extraction by EPA Method 3550 (sonication). ASTM Method D3328(modified) is used for qualitative identification of fuel patterns. The method has been modified to include quantitation by applying calibration and quality assurance guidelines outlined in "Test Methods for Evaluating Solid Waste. Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. This method is equivalent to the California LUFT manual DHS method for diesel fuel.

W7080571-02:

The material present is qualitatively uncertain. Therefore, all material in the C9 to C22 range was quantitated against diesel fuel without respect to pattern. Chromatographic data indicates the presence of material, which is heavier than diesel fuel, in this sample.

W7080571-03:

The material present is qualitatively uncertain. Therefore, all material in the C9 to C22 range was quantitated against diesel fuel without respect to pattern. Chromatographic data indicates the presence of material, which is heavier than diesel fuel, in this sample.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	--	*	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	OTP
Method: GC		Acceptability Limits:	43.7-111%
090497TPHS-1	BS090497TPH	Method Blank Soil	43.6*
090497TPHS-2	LS090497TPH	Laboratory control	69.3
090497TPHS-3	LSD090497TPH	LCS Soil Duplicate	69.3
090497TPHS-4	MS08054501	Matrix Spike	73.0
090497TPHS-5	MD08054501	Matrix Spike Dupli	65.7
--	08057101	BLDG 51 TANK	66.1
--	08057102	BLDG 51 PUMP	78.0
--	08057103	BLDG 51 PILE	73.8

Notes:
*: Indicates values outside of acceptability limits. See Sample Report.
Acceptability limits are derived from statistical analysis of laboratory samples.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Method Blank Results

QC Batch No: 090497TPHS-1
Date Analyzed: 05-SEP-97

Analyte	Method:GC	Concentration: mg/kg
Diesel Range Organics	< 10.0	

Notes:
090497TPHS-1: Surrogate spike recovery is outside of acceptability limits. The reported concentration for this sample should be considered as an estimate.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7080545-01 MS ID:MS08054501 MSD ID:MD08054501
Analysis Date: 06-SEP-97 05-SEP-97 05-SEP-97

Units: ug/ml	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Diesel Range Organics	< 10.0(0.190)	66.4	66.3	47.9	71.9	41.0	62.5	14.0	29.2	34.3-121

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
Acceptability limits are derived from statistical analysis of laboratory samples.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
GC Units: mg/kg	QC Batch:090497TPHS-3							
Diesel Range Organics	66.7	47.4	72.3	47.8	72.3	0.00	30.4	39.8-115%

Notes:
Acceptability limits are derived from statistical analysis of laboratory samples.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: EPA 8020A
Matrix: Solids

NEI/GTEL Sample Number	W7080571-01	W7080571-02	W7080571-03	W7080571-04
Client ID	BLDG 51 TANK	BLDG 51 PUMP	BLDG 51 PILE	BLDG 19 WEST
Date Sampled	08/28/97	08/28/97	08/28/97	08/28/97
Date Analyzed	09/04/97	09/04/97	09/04/97	09/04/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Benzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.35
Toluene	0.10	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10
Ethylbenzene	0.10	mg/kg	< 0.10	< 0.10	< 0.10	14.
Xylenes (total)	0.20	mg/kg	< 0.20	< 0.20	< 0.20	11.
TPH as Gasoline	10.	mg/kg	--	--	--	3000
Percent Solids	--	%	97.5	85.3	100.	79.3

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: EPA 8020A
Matrix: Solids

NEI/GTEL Sample Number	W7080571-05	W7080571-06	W7080571-07	W7080571-08
Client ID	BLDG 19 EAST	BLDG 19 PILE	BLDG 15 NORTH	BLDG 15 SOUTH
Date Sampled	08/28/97	08/28/97	08/28/97	08/28/97
Date Analyzed	09/04/97	09/04/97	09/05/97	09/05/97
Dilution Factor	1.00	1.00	5.00	5.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Benzene	0.05	mg/kg	0.10	< 0.05	3.2	7.0
Toluene	0.10	mg/kg	< 0.10	< 0.10	38.	23.
Ethylbenzene	0.10	mg/kg	4.2	1.3	81.	55.
Xylenes (total)	0.20	mg/kg	2.7	2.5	270	190
TPH as Gasoline	10.	mg/kg	730	230	6000	4100
Percent Solids	--	%	78.5	83.2	90.8	87.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT
Method: EPA 8020A		Acceptability Limits:	43-136%
090497GC10-1	CV0904972010	Calibration Verifi	88.2
090497GC10-2	BW09049710	Method Blank Water	91.1
090497GC10-3	BS09049710	Method Blank Soil	107.
090497GC10-4	MS08057101	Matrix Spike	111.
090497GC10-5	MD08057101	Matrix Spike Dupli	114.
090497GC10-6	LS09049710	Laboratory control	115.
--	08057101	BLDG 51 TANK	109.
--	08057102	BLDG 51 PUMP	106.
--	08057103	BLDG 51 PILE	84.6
--	08057104	BLDG 19 WEST	132.
--	08057105	BLDG 19 EAST	129.
--	08057106	BLDG 19 PILE	66.2
--	08057107	BLDG 15 NORTH	93.2
--	08057108	BLDG 15 SOUTH	73.4

Notes:
*: Indicates values outside of acceptability limits. See Sample Report.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Method Blank Results

QC Batch No: 090497GC10-2
Date Analyzed: 04-SEP-97

Analyte	Method: EPA 8020A Concentration: ug/L
Benzene	< 0.400
Toluene	< 0.500
Ethylbenzene	< 0.400
Xylenes (Total)	< 0.800
TPH as Gasoline	< 50.0

Notes:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Method Blank Results

QC Batch No: 090497GC10-3
Date Analyzed: 04-SEP-97

Analyte	Method: EPA 8020A Concentration: mg/kg
Benzene	< 0.0500
Toluene	< 0.100
Ethylbenzene	< 0.100
Xylenes (Total)	< 0.200
TPH as Gasoline	< 10.0

Notes:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020A	Units:ug/L	QC Batch:090497GC10-1			
Benzene		20.0	16.1	80.5	77-123%
Toluene		20.0	16.0	80.0	77.5-122.5%
Ethylbenzene		20.0	17.1	85.5	63-137%
Xylenes (Total)		60.0	55.1	91.8	85-115%
TPH as Gasoline		500.	580.	116	80-120%

Notes:
QC check source: Supelco #LA12389

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Laboratory Control Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020A	Units:mg/kg	QC Batch:090497GC10-6			
Benzene		5.00	4.06	81.2	39-150%
Toluene		5.00	4.21	84.2	46-148%
Ethylbenzene		5.00	4.25	85.0	32-160%
Xylenes (Total)		15.0	13.0	86.7	41-155%
TPH as Gasoline		100.	63.9	63.9*	80-120%

Notes:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020A Units:mg/kg	QC Batch:090497GC10-6			
Benzene	5.00	4.06	81.2	39-150%
Toluene	5.00	4.21	84.2	46-148%
Ethylbenzene	5.00	4.25	85.0	32-160%
Xylenes (Total)	15.0	13.0	86.7	41-155%
TPH as Gasoline	100	63.9	63.9*	80-120%

Notes:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Matrix Spike(MS) Results

GTEL Sample ID:W7080571-01
Analysis Date: 04-SEP-97

MS ID:MS08057101
04-SEP-97

Units: mg/kg Analyte	Sample Conc.	Spike Added	MS Conc.	MS % Rec.	Acceptability Limits %Rec.
Benzene	< 0.05(0.000)	4.85	3.95	81.4	39-150
Toluene	< 0.10(0.000)	4.85	4.04	83.3	46-148
Ethylbenzene	< 0.10(0.000)	4.85	4.15	85.6	32-160
Xylenes (Total)	< 0.20(0.000)	14.6	12.9	88.4	41-155

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7080571-01 MS ID:MS08057101 MSD ID:MD08057101
Analysis Date: 04-SEP-97 04-SEP-97 04-SEP-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Benzene	< 0.05(0.000)	4.85	5.05	3.95	81.4	4.13	81.8	0.500	28.3	39-150
Toluene	< 0.10(0.000)	4.85	5.05	4.04	83.3	4.22	83.6	0.400	30	46-148
Ethylbenzene	< 0.10(0.000)	4.85	5.05	4.15	85.6	4.24	84.0	1.90	30	32-160
Xylenes (Total)	< 0.20(0.000)	14.6	15.2	12.9	88.4	13.4	88.2	0.200	30	41-155

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

GTEL ENVIRONMENTAL LABORATORIES, INC

4080 PIKE LANE, SUITE C
CONCORD, CA 94520
(510) 685-7852
(800) 423-7143

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

36374

Company Name: RAH Environmental Inc

Phone #:

FAX #:

Company Address: 3310 Swetzer Rd. Loomis

Site Location: USCG Alameda

Project Manager: Scott Vielears

Client Project ID: (#)

(NAME) USCG

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print): Scott Vielears

Field Sample ID	GTEL Lab # (Lab Use only)	# CONTAINERS	Matrix: WATER	SOIL	AIR	SLUDGE	PRODUCT	OTHER	Method Preserved: HCl	HNO3	H2SO4	ICE	UNPRESERVED	OTHER (Specify)	Sampling: DATE	TIME	ANALYSIS REQUEST: BTEX 602 ☐ 8020 ☑ with MTBE ☐	BTEX/Gas Hydrocarbons PID/FID ☑ with MTBE ☐	Hydrocarbons GC/FID Gas ☐ Diesel ☑ Screen ☐	Hydrocarbon Profile (SIMDIS) ☐	Oil and Grease 413.1 ☐ 413.2 ☐ SM-503 ☐	TPH/IR 418.1 ☐ SM 503 ☐	EDB by 504 ☐ DBCP by 504 ☐	EPA 503.1 ☐ EPA 502.2 ☐	EPA 601 ☐ EPA 8010 ☐	EPA 602 ☐ EPA 8020 ☐	EPA 608 ☐ 8080 ☐ PCB only ☐	EPA 624/PPL ☐ 8240/TAL ☐ NBS (+15) ☐	EPA 625/PPL ☐ 8270/TAL ☐ NBS (+25) ☐	EPA 610 ☐ 8310 ☐	EP TOX Metals ☐ Pesticides ☐ Herbicides ☐	TCLP Metals ☐ VOA ☐ Semi-VOA ☐ Pest ☐ Herb ☐	EPA Metals - Priority Pollutant ☐ TAL ☐ RCRA ☐	CAM Metals TTLC ☐ STLC ☐	Lead 239.2 ☐ 200.7 ☐ 7420 ☐ 7421 ☐ 6010 ☐	Organic Lead ☐	Corrosivity ☐ Flash Point ☐ Reactivity ☐	OTHER: Total Lead
Bldg 51 Tank	50	1		X											8/29	n/a	X		X																	
Bldg 51 Pump	51																X		X																	
Bldg 51 Pile	52																X		X																	
Bldg 19 West	53	2															X	X																	X	
Bldg 19 East	54					Composite 4 into 1												X																	X	
Bldg 19 Pile	55																	X																	X	
Bldg 15 North	56																	X																	X	
Bldg 15 South	57																	X																	X	
	58																																		

TAT
Priority (24 hr) ☐
Expedited (48 hr) ☐
7 Business Days ☐
Other 5 DAY Business Days ☐

Special Handling
GTEL Contact
Quote/Contract #
Confirmation #
P.O. #

QA/QC Level
Blue ☐ CLP ☐ Other ☐

SPECIAL DETECTION LIMITS

SPECIAL REPORTING REQUIREMENTS
FAX ☑

REMARKS: 5 Day T.A.T.
Quote # QW970141

Lab Use Only Lot #:
Storage Location
Work Order #:

CUSTODY RECORD

	Date	Time	
Relinquished by Sampler:	8/29/97	7:30 pm	Received by: Bruce Thrupp
Relinquished by: Bruce Thrupp	8/29/97	4:20 pm	Received by:
Relinquished by:	8/30/97	0912	Received by Laboratory: Waybill #

SITE ASSESSMENT REPORT

TANK #K05

U.S. COAST GUARD

COAST GUARD ISLAND

ALAMEDA, CA

Prepared By:

Scott Vickers

RAH Environmental, Inc.

3310 Swetzer Road

Loomis, CA 95650

October 23, 1997

ENCLOSURE(4)

EXECUTIVE SUMMARY

RAH Environmental, Inc. was contracted by the United States Coast Guard under contract #DTCG88-97-D-623174 to perform underground storage tank assessment and closure operations at Building 15, on Coast Guard Island in Alameda, CA. The project included the closure-in-place of Tank # K05, a one thousand gallon gasoline storage tank formerly used to fuel motor vehicles on the island. The necessary permits were obtained from the Alameda County Department of Environmental Health and on August 27, two hand auger borings were completed to sample the soil beneath each end of the tank. The soil samples did contain levels of TPHgas and BTEX as summarized in the following report, however, the tank was closed in-place on September 18 by filling it with cement slurry. Since the tank was located beneath the building, County Environmental Health officials agreed that the tank could be closed in-place instead of removed.

I. INTRODUCTION

RAH Environmental, Inc. was contracted by the United States Coast Guard under contract #DTCG88-97-D-623174 to perform underground storage tank assessment and closure operations at Building 15, on Coast Guard Island in Alameda, CA. The project included the closure-in-place of Tank # K05, a one thousand gallon gasoline storage tank.

II. BACKGROUND

The project site is on Coast Guard Island in Alameda, CA. The underground storage tank was formerly used to store gasoline to fuel motor vehicles on the island. A dispenser that was previously located near the tank had been removed as part of a modification to the interior of the building.

III. CONTRACTOR INFORMATION

Prime Contractor: RAH Environmental, inc.
3310 Swetzer Road
Loomis, CA 95650
(916)652-5777
Contact: Ray Henry

Subcontractors: None

IV. SITE DESCRIPTION

The project site is on Coast Guard Island, located in Alameda, CA. The underground storage tank is located under the floor of the maintenance shop in Building 15, and formerly stored gasoline. The tank is immediately inside of the west wall of the building and the only access to the tank was a four inch fill pipe located outside of the wall, and a one inch pipe inside of the building in a covered 2' X 2' access vault.

V. CLOSURE ACTIVITIES

Notifications and Permits

An Underground Tank Closure Plan was completed and filed with Alameda County Environmental Protection Division of The Department of Environmental Health, in addition to the State of California Form A and Form B. The inspector for the project is Ms. Eva Chu, who was on-site for inspection and sampling of the tank area. Copies of the permits are attached.

Tank Rinsing and Water Removal

On August 27, 1997, the tank was rinsed by introducing approximately 100 gallons of water into the tank from the fill pipe. On August 28, 1997, the rinseate was pumped from the underground tank directly into a vacuum truck and transported under manifest #96700697 to Americlean, Inc. in Silver Springs, NV for recycling.

VI. ANALYTICAL

Soil Sampling and Analysis

On August 28, 1997, RAH Environmental, Inc. performed soil sampling operations in order to assess the tank area and determine if contamination is present in the soil around the tank. Two trenches were cut in the concrete floor in the approximate area of the ends of the tank as shown in Figure 1. The ends of the tank were located by hand augering down approximately four feet until the top of the tank was found. Additional holes were augered until the tank surface was missed and a depth of eight feet below ground surface was reached. The soil at approximately 8.5' below ground surface was saturated, indicating the presence of groundwater. Groundwater could not be sampled, however, due to the small size of the hand auger borings. One soil sample was collected from each end of the tank and labeled BLDG. 15 NORTH and BLDG. 15 SOUTH. Both samples were analyzed for TPHgas, BTEX, and total lead. The results are summarized in Table 1 below.

Table 1

Sample ID	Lead	TPHgas	Benzene	Toluene	Ethylbenzene	Xylene
BLDG. 15 NORTH	6.5	6,000	3.2	38	81	270
BLDG. 15 SOUTH	31	4,100	7.0	23	55	190

All results reported in **parts per million(mg/kg)**, unless otherwise indicated.

VII. TANK CLOSURE/SITE RESTORATION

On September 17, 1997, the tank was filled with approximately five cubic yards of cement slurry mix by pumping the mix directly into the fill pipe. The sawcut assessment holes and the vault were also filled and patched with concrete.

U.S. COAST GUARD - ISC ALAMEDA
TANK #K05 - BLDG. 15
CLOSURE IN PLACE - 1,000 GALLON GASOLINE

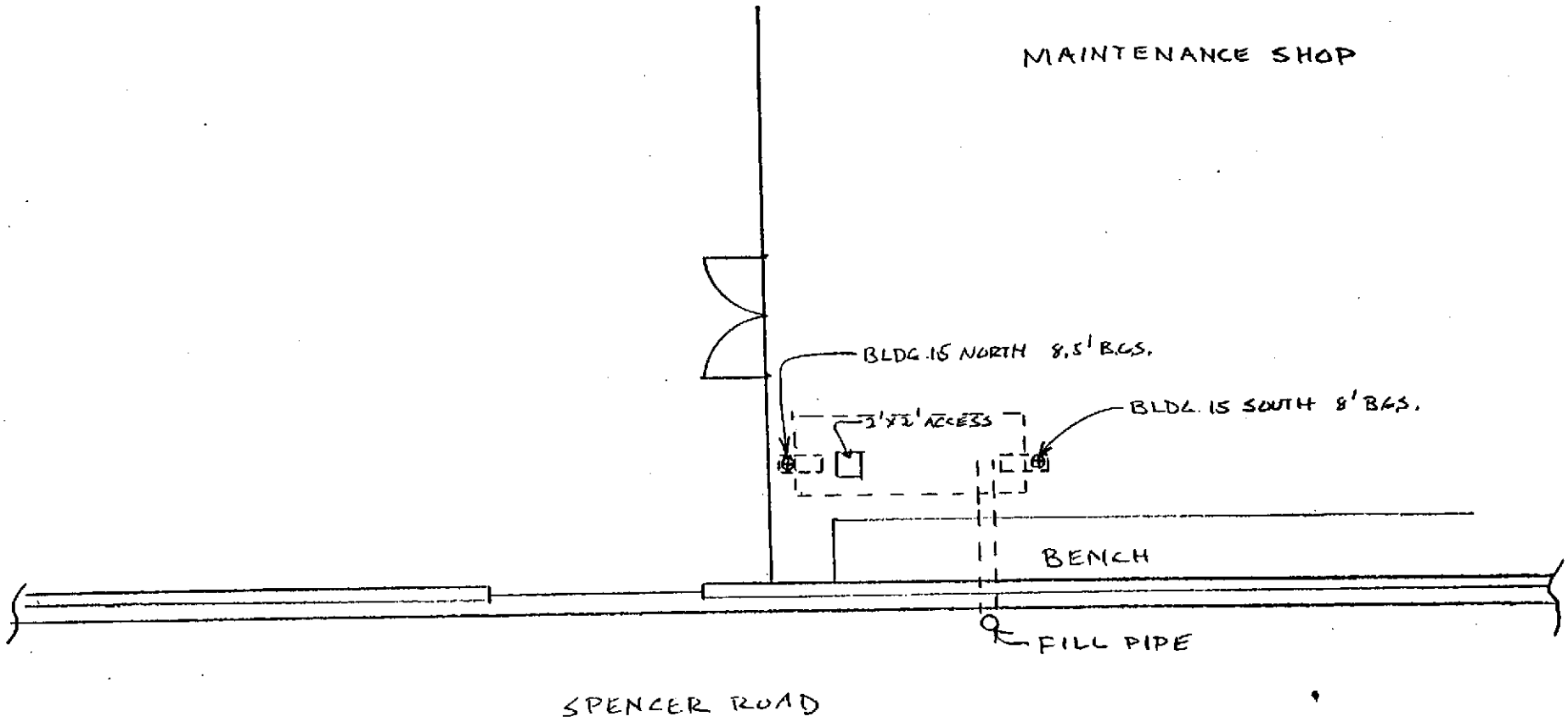


FIGURE 1

DEC-16-97 TUE 03:44 PM AMERICLEAN - E. FABIAN 209 892 8555 P.01

FROM : AMERICLEAN, INC. PHONE NO. : 702 577 9199 Sep. 09 1997 07:22AM P2

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

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. Manifest Document No.: CA469039003700697
2. Page 1 of 1

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

A. State Manifest Document Number: 96700697

3. Generator's Name and Mailing Address: ISC Alameda Coast Guard Island. 2000 Embarcadero, Suite 200. Alameda, CA 94501. ATTN: T MADDEN

4. Generator's Phone (510) 535-7280

5. Transporter 1 Company Name: Americlean, Inc.
6. US EPA ID Number: NVD982398493

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

9. Designated Facility Name and Site Address: Americlean Inc. 250 Alnaa Dr. Silver Springs NV.
10. US EPA ID Number: NVD982358412

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON RCRA Hazardous Waste. Liquid (Oily Water)	001	TT	00550	G	State 223 EPA/Other N/A
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 hr Emerg Ph # 800 4712105

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: TIM MADDEN Signature: [signature] Month Day Year: 08 28 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Patrick M. Leal Signature: [signature] Month Day Year: 08 28 97

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: Terry Kinney Signature: [signature] Month Day Year: 09 05 97

DO NOT WRITE BELOW THIS LINE.

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

GENERATOR TRANSPORTER FACILITY

96700697

RAH
ENVIRONMENTAL, INC.

December 29, 1997

Ms. Susanne Perkins
U.S. Coast Guard
CEU-Oakland
2000 Embarcadero, Suite 200
Oakland, CA 94606-5337

RE: Closure Reports

Dear Ms. Perkins:

Attached are the revised reports for Coast Guard Island and Pacific Strike Team. The manifest number for the rinseate was corrected, and a copy included. The rinseate from all three tanks at Alameda was transported under the same manifest, number 96700697, for a total quantity of 550 gallons.

Please call us if you have any questions or require additional information. Thank you very much.

Sincerely,

Scott Vickers

Class A License #592216 Fed I.D. #68-0219341
3310 Swetzer Road, Loomis, CA 95650
FAX (916) 652-8055 Office (916) 652-5777

ALAMEDA COUNTY ENVIRONMENTAL HEALTH / HAZARDOUS MATERIALS DIVISION
1131 HARBOR BAY PKWY., RM. 250, ALAMEDA, CA 94502-6577 (510)567-6700 FAX (510) 337-9355

UST Removal
~~HAZARDOUS WASTE GENERATOR~~ INSPECTION REPORT

STID #: [redacted]	FACILITY NAME: US Coast Guard - Coast Guard Island	PG. 2 OF 2

SUPPLEMENTAL FORM

Building 19 - 1,000 gal steel UST for storage of gasoline
0% LEL 20.7% O_2

② ① Tank had not been in use ~30 yrs. Water in tank was pumped out. No dry ice used. Odor + stained soil in pit. Tank appeared in good condition. Wrapping around tank completely deteriorated

Bldg 19

① soil sample collected from 6.5' bgs. wet, stained clay - with mod odor (East)
② soil sample collected from 4' bgs from west sidewall wet - sand clay w/ mod odor (West).

Analyze for TPHg, BTEX and total lead

Building 15 8% LEL 20.5% O_2
Hand augered to 8' bgs. Soil sample collected from north + south end of 1-K gasoline UST
South sample mostly sand w/ mod. odor collect at 8.0' bgs
North sample " " " " " " " 8.5' bgs

Analyze for TPHg, BTEX, total lead

PRINT NAME: Scott Walters
SIGNATURE: [signature]
INSPECTED BY: Eva Chu-Ohiorakhio
DATE: [illegible]

GEN/SUPP RPT(REV. 7/94) JNS / ECO

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION DIVISION
1131 HARBOR BAY PARKWAY, RM 250
ALAMEDA, CA 94502-6577
PHONE # 510/567-6700
FAX # 510/337-9335

Project Specialist

CA7690900037

UNDERGROUND TANK CLOSURE PLAN
* * * Complete according to attached instructions * * *

1. Name of Business US Coast Guard Integrated Support Command
   Business Owner or Contact Person (PRINT) US Coast Guard
2. Site Address ISC Alameda Coast Guard Island
   City Alameda Zip 94501 Phone 510 437-3272
3. Mailing Address 2000 Embarcadero, Suite 200
   City Oakland Zip 94606-5337 Phone (510) 535-7280
4. Property Owner US Coast Guard
   Business Name (if applicable) _____
   Address same
   City, State _____ Zip _____
5. Generator name under which tank will be manifested
   US Coast Guard
   EPA ID# under which tank will be manifested CA 7690900037

REV 4/6/95

6. Contractor RAH Environmental, Inc.

Address 3310 Swetzer Road

City Loomis CA 95650 Phone 916-652-5777

License Type* A-Haz ID# 592216

*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board.

7. Consultant (if applicable) _____

Address _____

City, State _____ Phone _____

8. Main Contact Person for Investigation (if applicable)

Name Ray Henry Title President

Company RAH Environmental, Inc

Phone (916) 652-5777

9. Number of underground tanks being closed with this plan 3

Length of piping being removed under this plan 100'

Total number of underground tanks at this facility (**confirmed with owner or operator) 3

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

** Underground storage tanks must be handled as hazardous waste **

a) Product/Residual Sludge/Rinsate Transporter

Name Asbury Environmental Serv. EPA I.D. No. CAL000138484

Hauler License No. 36455 License Exp. Date _____

Address 100 W. Valpico

City Tracy State CA Zip 95367

b) Product/Residual Sludge/Rinsate Disposal Site

Name Asbury Environmental Serv. EPA ID# CAD028277036

Address 2100 N. Alameda St.

City Compton State CA Zip 90222

c) Tank and Piping Transporter

Name RAH Environmental, Inc. EPA I.D. No. CAN983582C1

Hauler License No. 2565 License Exp. Date _____

Address 3310 Swetzer Rd

City Loomis State CA Zip 95650

d) Tank and Piping Disposal Site

Name Erickson, Inc. EPA I.D. No. CAD009466352

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

11. Sample Collector

Name _____

Company RAH Environmental Inc.

Address 3310 Swetzer Road

City Loomis State CA Zip 95650 Phone (916)652-7027

12. Laboratory

Name NEL Laboratories

Address 1030 Mather Lane

City Reno State NV Zip 89502

State Certification No. 1707

13. Have tanks or pipes leaked in the past? Yes[ ] No[ ] Unknown[X]

If yes, describe. _____

14. Describe methods to be used for rendering tank(s) inert:

Pressure wash and dry ice

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be permanently plugged.

The Bay Area Air Quality Management District, 415/771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert.

15. Tank History and Sampling Information *** (see instructions) ***

Tank		Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Samples
Capacity	Use History include date last used (estimated)		

One soil sample must be collected for every 20 linear feet of piping that is removed. A ground water sample must be collected if any ground water is present in the excavation.

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (estimated)	Sampling Plan

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

Will the excavated soil be returned to the excavation immediately after tank removal? [ ] yes [X] no [ ] unknown

If yes, explain reasoning _____

If unknown at this point in time, please be aware that excavated soil may not be returned to the excavation without prior approval from Alameda County. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling operations.

16. Chemical methods and associated detection limits to be used for analyzing samples:
The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed.
See attached Table 2.

17. Submit Site Health and Safety Plan (See Instructions)

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
Diesel	TPHd	GCFID (3550)	
	BTEX	8020	
Gasoline	TPHg	GCFID (5030)	
	BTEX	8020	
	Total Lead		

18. Submit Worker's Compensation Certificate copy

Name of Insurer State Compensation Insurance Fund

19. Submit Plot Plan ***(See Instructions)***

20. Enclose Deposit (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery.
The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (ULR) form.

22. **Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.**

23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner)

I declare that to the best of my knowledge and belief that the statements and information provided above are correct and true.

I understand that information, in addition to that provided above, may be needed in order to obtain approval from the Environmental Protection Division and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

CONTRACTOR INFORMATION

Name of Business RAM Environmental, Inc.

Name of Individual Scott Vickers

Signature Scott Vickers Date 7/7/97

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business U.S. Coast Guard

Name of Individual

Signature Date

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A

COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM: [X] 1 NEW PERMIT [ ] 2 INTERIM PERMIT [ ] 3 RENEWAL PERMIT [ ] 4 AMENDED PERMIT [ ] 5 CHANGE OF INFORMATION [ ] 6 TEMPORARY SITE CLOSURE [ ] 7 PERMANENTLY CLOSED SITE

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME: US. Coast Guard Integrated Support Command
NAME OF OPERATOR:
ADDRESS: Coast Guard Island
NEAREST CROSS STREET:
PARCEL # (OPTIONAL):
CITY NAME: Alameda
STATE: CA
ZIP CODE:
SITE PHONE # WITH AREA CODE:

✓ BOX TO INDICATE: [ ] CORPORATION [ ] INDIVIDUAL [ ] PARTNERSHIP [ ] LOCAL-AGENCY DISTRICTS * [ ] COUNTY-AGENCY * [ ] STATE-AGENCY * [X] FEDERAL-AGENCY *

* If owner of UST is a public agency, complete the following: name of Supervisor of division, section, or office which operates the UST ______

TYPE OF BUSINESS: [ ] 1 GAS STATION [ ] 2 DISTRIBUTOR [ ] 3 FARM [ ] 4 PROCESSOR [X] 5 OTHER
[ ] ✓ IF INDIAN RESERVATION OR TRUST LANDS
OF TANKS AT SITE: 3
E. P. A. I. D. # (optional): CA7690350037

EMERGENCY CONTACT PERSON (PRIMARY)
DAYS: NAME (LAST, FIRST): Henry, Raymond — PHONE # WITH AREA CODE: (916) 652-5577
NIGHTS: NAME (LAST, FIRST): Same — PHONE # WITH AREA CODE:

EMERGENCY CONTACT PERSON (SECONDARY) - optional
DAYS: NAME (LAST, FIRST): — PHONE # WITH AREA CODE:
NIGHTS: NAME (LAST, FIRST): — PHONE # WITH AREA CODE:

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME: U.S. Coast Guard
CARE OF ADDRESS INFORMATION:
MAILING OR STREET ADDRESS: 2000 Embarcadero, Suite 200
✓ box to indicate: [ ] INDIVIDUAL [ ] LOCAL-AGENCY [ ] STATE-AGENCY [ ] CORPORATION [ ] PARTNERSHIP [ ] COUNTY-AGENCY [X] FEDERAL-AGENCY
CITY NAME: Oakland
STATE: CA
ZIP CODE: 94606-5337
PHONE # WITH AREA CODE: (510) 535-7280

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER: U.S. Coast Guard
CARE OF ADDRESS INFORMATION:
MAILING OR STREET ADDRESS: 2000 Embarcadero, Suite 200
✓ box to indicate: [ ] INDIVIDUAL [ ] LOCAL-AGENCY [ ] STATE-AGENCY [ ] CORPORATION [ ] PARTNERSHIP [ ] COUNTY-AGENCY [X] FEDERAL-AGENCY
CITY NAME: Oakland
STATE: CA
ZIP CODE: 94606-5337
PHONE # WITH AREA CODE: (510) 535-7280

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY (TK) HQ 44-032063

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) – IDENTIFY THE METHOD(S) USED

✓ box to indicate: [ ] 1 SELF-INSURED [ ] 2 GUARANTEE [ ] 3 INSURANCE [ ] 4 SURETY BOND [ ] 5 LETTER OF CREDIT [X] 6 EXEMPTION [ ] 99 OTHER ______

VI. LEGAL NOTIFICATION AND BILLING ADDRESS

Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. [ ] II. [X] III. [ ]

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

OWNER'S NAME (PRINTED & SIGNED): Scott Vickers [signature]
OWNER'S TITLE: Auth Rep
DATE MONTH/DAY/YEAR: 7/7/97

LOCAL AGENCY USE ONLY Don Moore

COUNTY #: ____ JURISDICTION #: ____ FACILITY #: ____

LOCATION CODE - *OPTIONAL*
CENSUS TRACT # - *OPTIONAL*
SUPVISOR - DISTRICT CODE - *OPTIONAL*

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONE ITEM: ☐ 1 NEW PERMIT ☐ 2 INTERIM PERMIT ☐ 3 RENEWAL PERMIT ☐ 4 AMENDED PERMIT ☐ 5 CHANGE OF INFORMATION ☐ 6 TEMPORARY TANK CLOSURE ☒ 7 PERMANENTLY CLOSED ON SITE ☐ 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: U.S. Coast Guard ISC Command

I. TANK DESCRIPTION
COMPLETE ALL ITEMS – SPECIFY IF UNKNOWN

A. OWNER'S TANK I. D. # Bldg. 15
B. MANUFACTURED BY:
C. DATE INSTALLED (MO/DAY/YEAR) Unknown
D. TANK CAPACITY IN GALLONS: 1,000 gal.

II. TANK CONTENTS
IF A-1 IS MARKED, COMPLETE ITEM C.

A. ☒ 1 MOTOR VEHICLE FUEL ☐ 2 PETROLEUM ☐ 3 CHEMICAL PRODUCT ☐ 4 OIL ☐ 80 EMPTY ☐ 95 UNKNOWN
B. ☐ 1 PRODUCT ☐ 2 WASTE
C. ☐ 1a REGULAR UNLEADED ☐ 1b PREMIUM UNLEADED ☐ 1c MIDGRADE UNLEADED ☒ 2 LEADED ☒ 3 DIESEL ☐ 4 GASAHOL ☐ 5 JET FUEL ☐ 6 AVIATION GAS ☐ 7 METHANOL ☐ 8 M85 ☐ 99 OTHER (DESCRIBE IN ITEM D. BELOW)
D. IF (A-1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED — C. A. S. #:

III. TANK CONSTRUCTION
MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM: ☐ 1 DOUBLE WALL ☐ 2 SINGLE WALL ☐ 3 SINGLE WALL WITH EXTERIOR LINER ☐ 4 SINGLE WALL IN A VAULT ☐ 5 INTERNAL BLADDER SYSTEM ☒ 95 UNKNOWN ☐ 99 OTHER

B. TANK MATERIAL (Primary Tank): ☐ 1 BARE STEEL ☐ 2 STAINLESS STEEL ☐ 3 FIBERGLASS ☐ 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC ☐ 5 CONCRETE ☐ 6 POLYVINYL CHLORIDE ☐ 7 ALUMINUM ☐ 8 100% METHANOL COMPATIBLE W/FRP ☐ 9 BRONZE ☐ 10 GALVANIZED STEEL ☒ 95 UNKNOWN ☐ 99 OTHER

C. INTERIOR LINING OR COATING: ☐ 1 RUBBER LINED ☐ 2 ALKYD LINING ☐ 3 EPOXY LINING ☐ 4 PHENOLIC LINING ☐ 5 GLASS LINING ☐ 6 UNLINED ☒ 95 UNKNOWN ☐ 99 OTHER
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___

D. EXTERIOR CORROSION PROTECTION: ☐ 1 POLYETHYLENE WRAP ☐ 2 COATING ☐ 3 VINYL WRAP ☐ 4 FIBERGLASS REINFORCED PLASTIC ☐ 5 CATHODIC PROTECTION ☐ 91 NONE ☒ 95 UNKNOWN ☐ 99 OTHER

E. SPILL AND OVERFILL, etc. SPILL CONTAINMENT INSTALLED (YEAR) ___ OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) ___ DROP TUBE YES ___ NO ___ STRIKER PLATE YES ___ NO ___ DISPENSER CONTAINMENT YES ___ NO ___

IV. PIPING INFORMATION
CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE: A U 1 SUCTION A U 2 PRESSURE A U 3 GRAVITY A U 4 FLEXIBLE PIPING A U 99 OTHER
B. CONSTRUCTION: A U 1 SINGLE WALL A U 2 DOUBLE WALL A U 3 LINED TRENCH A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION: A U 1 BARE STEEL A U 2 STAINLESS STEEL A U 3 POLYVINYL CHLORIDE (PVC) A U 4 FIBERGLASS PIPE A U 5 ALUMINUM A U 6 CONCRETE A U 7 STEEL W/ COATING A U 8 100% METHANOL COMPATIBLE W/FRP A U 9 GALVANIZED STEEL A U 10 CATHODIC PROTECTION (A U) 95 UNKNOWN A U 99 OTHER
D. LEAK DETECTION: ☐ 1 MECHANICAL LINE LEAK DETECTOR ☐ 2 LINE TIGHTNESS TESTING ☐ 3 CONTINUOUS INTERSTITIAL MONITORING ☐ 4 ELECTRONIC LINE LEAK DETECTOR ☐ 5 AUTOMATIC PUMP SHUTDOWN ☐ 99 OTHER

V. TANK LEAK DETECTION

☐ 1 VISUAL CHECK ☐ 2 MANUAL INVENTORY RECONCILIATION ☐ 3 VADOZE MONITORING ☐ 4 AUTOMATIC TANK GAUGING ☐ 5 GROUND WATER MONITORING ☐ 6 ANNUAL TANK TESTING ☐ 7 CONTINUOUS INTERSTITIAL MONITORING ☐ 8 SIR ☐ 9 WEEKLY MANUAL TANK GAUGING ☐ 10 MONTHLY TANK TESTING ☒ 95 UNKNOWN ☐ 99 OTHER

VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)

1. ESTIMATED DATE LAST USED (MO/DAY/YR)
2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING ___ GALLONS
3. WAS TANK FILLED WITH INERT MATERIAL? YES ☐ NO ☐

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE): Don Moore Scott Vickers — DATE: 7/10/97

LOCAL AGENCY USE ONLY
THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.# — COUNTY # ☐☐ JURISDICTION # ☐☐☐ FACILITY # ☐☐☐☐☐☐ TANK # ☐☐☐☐☐☐

PERMIT NUMBER | PERMIT APPROVED BY/DATE | PERMIT EXPIRATION DATE

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED. FORM C MUST BE COMPLETED FOR INSTALLATIONS. THIS FORM SHOULD BE ACCOMPANIED BY A PLOT PLAN. FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

SITE CHARACTERIZATION REPORT

TANK #K06

U.S. COAST GUARD

COAST GUARD ISLAND

ALAMEDA, CA

Prepared By:

Scott Vickers

RAH Environmental, Inc.

3310 Swetzer Road

Loomis, CA 95650

October 23, 1997

ENCLOSURE(5)

I. INTRODUCTION

RAH Environmental, Inc. was contracted by the United States Coast Guard under contract #DTCG88-97-B-623174 to perform underground storage tank and piping removal operations at Building 19 on Coast Guard Island in Alameda, CA. The project included the removal of one one thousand gallon gasoline storage tank and related piping.

II. SITE DESCRIPTION

The project site is on Coast Guard Island, located in Alameda, CA. The underground storage tank was located to the northwest of Building 19, and formerly stored gasoline to fuel motor vehicles. The tank had a small concrete slab above it, which was surrounded by asphalt. There was no piping to be removed outside of the immediate excavation.

III. SOIL SAMPLING AND ANALYSIS

On August 28, 1997, following the removal of the tank, at approximately 2:30 PM, two soil samples were collected from the base of the tank excavation, and four samples were collected from the soil stockpile to be composited by the laboratory. No groundwater was encountered during the tank removal or samplin operations. The samples from the excavation were collected using a drive sampler with 2"x6" brass tubes, and sampling native soil exposed by the backhoe bucket. The sample labeled BLDG. 19 EAST was collected from approximately 6.5' below ground surface, or 2' below the bottom of the tank. BLDG. 19 WEST was collected from the base of the west sidewall at approximately 4' below ground surface as shown in Figure 1. The samples were preserved on ice at 4°C and transported under chain of custody to NEI/GTEL for analysis. NEI/GTEL is state certified under #1845 and is located at 4080-C Pike Lane in Concord, CA 94520. The following table summarizes the conditions under which the samples were taken:

Table 1

Sample ID#	Time	Temperature	Weather	Tide
BLDG.19 EAST	2:30 PM	76°	Clear, Sunny	-2.6
BLDG.19 WEST	2:45 PM	76°	Clear, Sunny	-2.6
BLDG.19 PILE	3:15 PM	76°	Clear, Sunny	-2.6

Results of the soil sampling indicate that the subsurface soil has been impacted by petroleum hydrocarbons below the bottom of the tank. The samples both contained detectable concentrations of TPH-as-gas, benzene, ethylbenzene, and xylene. Concentrations of TPH-as-gas were 730 and 3,000 ppm; benzene - 0.10 and 0.35 ppm; ethylbenzene - 4.2 and 14 ppm; and xylene - 2.7 and 11 ppm. The analytical results are summarized in Table 2 below, and the full laboratory reports are included as an attachment.

Table 2

Sample ID	Lead	TPHgas	Benzene	Toluene	Ethylbenzene	Xylene
BLDG. 19 EAST	26	730	0.10	<0.10	4.2	2.7
BLDG. 19 WEST	62	3,000	.35	<0.10	14	11
BLDG. 19 PILE	24	230	<0.05	<0.10	1.3	2.5

All results reported in **parts per million(mg/kg)**, unless otherwise indicated.

V. RECOMMENDATIONS

Based on the results of the soil sampling and analysis, there are significant concentrations of petroleum hydrocarbons in soil and additional assessment activities may be required before this site can be closed.

USCG - ISC ALAMEDA
TANK #K06 REMOVAL (8-28-97)

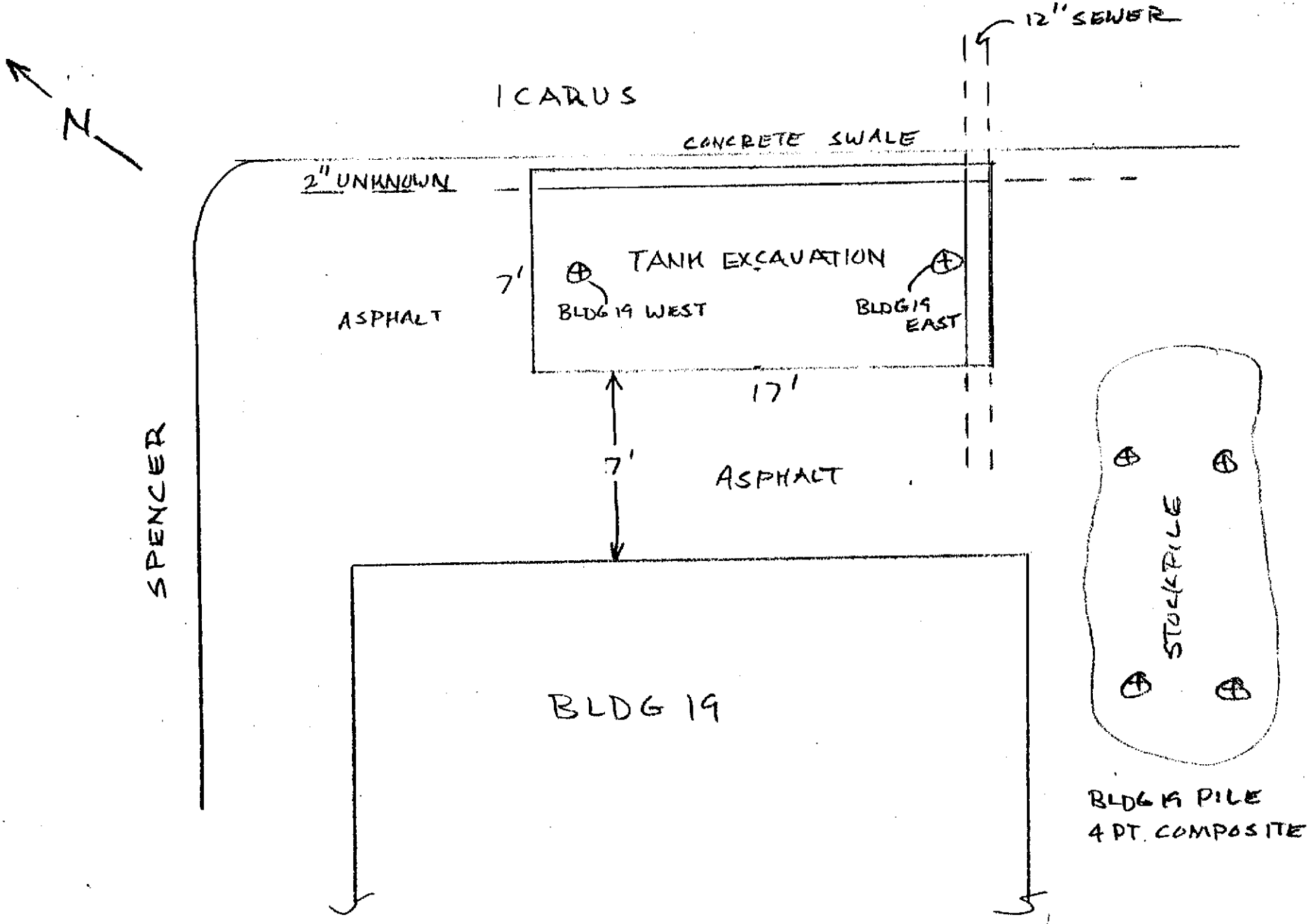


FIGURE 1

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

September 12, 1997

Scott Vickers
RAH Environmental Inc.
3310 Swetzer Road
Loomis, CA 95650

RE: NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number):
Project ID (name): USCG/ALAMEDA/AFB

Dear Scott Vickers:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 08/30/97 under Chain-of-Custody Number(s) 36374.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the California Department of Health Service under Certification Number 2147.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Metals

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: EPA 7421
Matrix: Solids

NEI/GTEL Sample Number	W7080571-04	W7080571-05	W7080571-06	W7080571-07
Client ID	BLDG 19 WEST	BLDG 19 EAST	BLDG 19 PILE	BLDG 15 NORTH
Date Sampled	08/28/97	08/28/97	08/28/97	08/28/97
Date Prepared	09/12/97	09/12/97	09/12/97	09/12/97
Date Analyzed	09/12/97	09/12/97	09/12/97	09/12/97
Dilution Factor	20.0	10.0	10.0	5.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Lead	0.40	mg/kg	62.	26.	24.	6.5
Percent Solids	--	%	79.3	78.5	83.2	90.8

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 7421:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods". SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Metals

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: EPA 7421
Matrix: Solids

NEI/GTEL Sample Number	W7080571-08	--	--	--
Client ID	BLDG 15 SOUTH	--	--	--
Date Sampled	08/28/97	--	--	--
Date Prepared	09/12/97			
Date Analyzed	09/12/97	--	--	--
Dilution Factor	10.0	--	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Lead	0.40	mg/kg	31.	--	--	--
Percent Solids	--	%	87.2	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 7421:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods". SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons By GC

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: GC
Matrix: Solids

NEI/GTEL Sample Number	W7080571-01	W7080571-02	W7080571-03	--
Client ID	BLDG 51 TANK	BLDG 51 PUMP	BLDG 51 PILE	--
Date Sampled	08/28/97	08/28/97	08/28/97	--
Date Prepared	09/04/97	09/04/97	09/04/97	
Date Analyzed	09/06/97	09/06/97	09/06/97	--
Dilution Factor	1.00	1.00	1.00	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
TPH as Diesel	10	mg/kg	< 10.	31.	150	--
Percent Solids	--	%	97.5	85.3	100.	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

GC:

Extraction by EPA Method 3550 (sonication). ASTM Method D3328(modified) is used for qualitative identification of fuel patterns. The method has been modified to include quantitation by applying calibration and quality assurance guidelines outlined in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. This method is equivalent to the California LUFT manual DHS method for diesel fuel.

W7080571-02:

The material present is qualitatively uncertain. Therefore, all material in the C9 to C22 range was quantitated against diesel fuel without respect to pattern. Chromatographic data indicates the presence of material, which is heavier than diesel fuel, in this sample.

W7080571-03:

The material present is qualitatively uncertain. Therefore, all material in the C9 to C22 range was quantitated against diesel fuel without respect to pattern. Chromatographic data indicates the presence of material, which is heavier than diesel fuel, in this sample.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	--	*	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	OTP
Method: GC		Acceptability Limits:	43.7-111%
090497TPHS-1	BS090497TPH	Method Blank Soil	43.6*
090497TPHS-2	LS090497TPH	Laboratory control	69.3
090497TPHS-3	LSD090497TPH	LCS Soil Duplicate	69.3
090497TPHS-4	MS08054501	Matrix Spike	73.0
090497TPHS-5	MD08054501	Matrix Spike Dupli	65.7
--	08057101	BLDG 51 TANK	66.1
--	08057102	BLDG 51 PUMP	78.0
--	08057103	BLDG 51 PILE	73.8

Notes:
*: Indicates values outside of acceptability limits. See Sample Report.
Acceptability limits are derived from statistical analysis of laboratory samples.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Method Blank Results

QC Batch No: 090497TPHS-1
Date Analyzed: 05-SEP-97

Analyte	Method:GC	Concentration: mg/kg
Diesel Range Organics		< 10.0

Notes:
090497TPHS-1: Surrogate spike recovery is outside of acceptability limits. The reported concentration for this sample should be considered as an estimate.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7080545-01 MS ID:MS08054501 MSD ID:MD08054501
Analysis Date: 06-SEP-97 05-SEP-97 05-SEP-97

Units: ug/ml	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Diesel Range Organics	< 10.0(0.190)	66.4	65.3	47.9	71.9	41.0	62.5	14.0	29.2	34.3-121

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
Acceptability limits are derived from statistical analysis of laboratory samples.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons By GC
Method: GC
Matrix: Solids

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
GC Units: mg/kg	QC Batch:090497TPHS-3							
Diesel Range Organics	66.7	47.4	72.3	47.8	72.3	0.00	30.4	39.8-115%

Notes:
Acceptability limits are derived from statistical analysis of laboratory samples.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: EPA 8020A
Matrix: Solids

NEI/GTEL Sample Number	W7080571-01	W7080571-02	W7080571-03	W7080571-04
Client ID	BLDG 51 TANK	BLDG 51 PUMP	BLDG 51 PILE	BLDG 19 WEST
Date Sampled	08/28/97	08/28/97	08/28/97	08/28/97
Date Analyzed	09/04/97	09/04/97	09/04/97	09/04/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Benzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.35
Toluene	0.10	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10
Ethylbenzene	0.10	mg/kg	< 0.10	< 0.10	< 0.10	14.
Xylenes (total)	0.20	mg/kg	< 0.20	< 0.20	< 0.20	11.
TPH as Gasoline	10.	mg/kg	--	--	--	3000
Percent Solids	--	%	97.5	85.3	100.	79.3

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste. Physical/Chemical Methods". SW-846. Third Edition including promulgated Update II.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

Method: EPA 8020A
Matrix: Solids

NEI/GTEL Sample Number	W7080571-05	W7080571-06	W7080571-07	W7080571-08
Client ID	BLDG 19 EAST	BLDG 19 PILE	BLDG 15 NORTH	BLDG 15 SOUTH
Date Sampled	08/28/97	08/28/97	08/28/97	08/28/97
Date Analyzed	09/04/97	09/04/97	09/05/97	09/05/97
Dilution Factor	1.00	1.00	5.00	5.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Benzene	0.05	mg/kg	0.10	< 0.05	3.2	7.0
Toluene	0.10	mg/kg	< 0.10	< 0.10	38.	23.
Ethylbenzene	0.10	mg/kg	4.2	1.3	81.	55.
Xylenes (total)	0.20	mg/kg	2.7	2.5	270	190
TPH as Gasoline	10.	mg/kg	730	230	6000	4100
Percent Solids	--	%	78.5	83.2	90.8	87.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods". SW-846, Third Edition including promulgated Update II.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT
Method: EPA 8020A		Acceptability Limits:	43-136%
090497GC10-1	CV0904972010	Calibration Verifi	88.2
090497GC10-2	BW09049710	Method Blank Water	91.1
090497GC10-3	BS09049710	Method Blank Soil	107.
090497GC10-4	MS08057101	Matrix Spike	111.
090497GC10-5	MD08057101	Matrix Spike Dupli	114.
090497GC10-6	LS09049710	Laboratory control	115.
--	08057101	BLDG 51 TANK	109.
--	08057102	BLDG 51 PUMP	106.
--	08057103	BLDG 51 PILE	84.6
--	08057104	BLDG 19 WEST	132.
--	08057105	BLDG 19 EAST	129.
--	08057106	BLDG 19 PILE	66.2
--	08057107	BLDG 15 NORTH	93.2
--	08057108	BLDG 15 SOUTH	73.4

Notes:
*: Indicates values outside of acceptability limits. See Sample Report.

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Method Blank Results

QC Batch No: 090497GC10-2
Date Analyzed: 04-SEP-97

Analyte	Method:EPA 8020A Concentration: ug/L
Benzene	< 0.400
Toluene	< 0.500
Ethylbenzene	< 0.400
Xylenes (Total)	< 0.800
TPH as Gasoline	< 50.0

Notes:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Method Blank Results

QC Batch No: 090497GC10-3
Date Analyzed: 04-SEP-97

Analyte	Method: EPA 8020A Concentration: mg/kg
Benzene	< 0.0500
Toluene	< 0.100
Ethylbenzene	< 0.100
Xylenes (Total)	< 0.200
TPH as Gasoline	< 10.0

Notes:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020A	Units:ug/L	QC Batch:090497GC10-1			
Benzene		20.0	16.1	80.5	77-123%
Toluene		20.0	16.0	80.0	77.5-122.5%
Ethylbenzene		20.0	17.1	85.5	63-137%
Xylenes (Total)		60.0	55.1	91.8	85-115%
TPH as Gasoline		500.	580.	116.	80-120%

Notes:
QC check source: Supelco #LA12389

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Laboratory Control Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8020A	Units:mg/kg	QC Batch:090497GC10-6			
Benzene		5.00	4.06	81.2	39-150%
Toluene		5.00	4.21	84.2	46-148%
Ethylbenzene		5.00	4.25	85.0	32-160%
Xylenes (Total)		15.0	13.0	86.7	41-155%
TPH as Gasoline		100.	63.9	63.9*	80-120%

Notes:

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Matrix Spike(MS) Results

GTEL Sample ID:W7080571-01
Analysis Date: 04-SEP-97

MS ID:MS08057101
04-SEP-97

Units: mg/kg Analyte	Sample Conc.	Spike Added	MS Conc.	MS % Rec.	Acceptability Limits %Rec.
Benzene	< 0.05(0.000)	4.85	3.95	81.4	39-150
Toluene	< 0.10(0.000)	4.85	4.04	83.3	46-148
Ethylbenzene	< 0.10(0.000)	4.85	4.15	85.6	32-160
Xylenes (Total)	< 0.20(0.000)	14.6	12.9	88.4	41-155

NEI/GTEL Client ID: RAH01RAH01
Login Number: W7080571
Project ID (number): RAH01RAH01
Project ID (name): USCG/ALAMEDA/AFB

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8020A
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7080571-01 MS ID:MS08057101 MSD ID:MD08057101
Analysis Date: 04-SEP-97 04-SEP-97 04-SEP-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Benzene	< 0.05(0.000)	4.85	5.05	3.95	81.4	4.13	81.8	0.500	28.3	39-150
Toluene	< 0.10(0.000)	4.85	5.05	4.04	83.3	4.22	83.6	0.400	30	46-148
Ethylbenzene	< 0.10(0.000)	4.85	5.05	4.15	85.6	4.24	84.0	1.90	30	32-160
Xylenes (Total)	< 0.20(0.000)	14.6	15.2	12.9	88.4	13.4	88.2	0.200	30	41-155

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

GTEL ENVIRONMENTAL LABORATORIES INC

4080 PIKE LANE, SUITE C
CONCORD, CA 94520
(510) 685-7852
(800) 423-7143

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

36374

Company Name: RAH Environmental, Inc

Phone #: [illegible]

FAX #: 916-[illegible]

Company Address: 3310 Swetzer Rd. Loomis

Site Location: USGS [illegible]

Project Manager: Scott Vickers

Client Project ID: (#)

(NAME) USGS

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print): Scott Vickers

Analysis request columns: (A) BTEX 602 ☐ 8020 ☑ with MTBE ☐; (B) BTEX/Gas Hydrocarbons PID/FID ☑ with MTBE ☐; (C) Hydrocarbons GC/FID Gas ☐ Diesel ☑ Screen ☐; (D) Hydrocarbon Profile (SIMDIS) ☐; (E) Oil and Grease 413.1 ☐ 413.2 ☐ SM-503 ☐; (F) TPH/IR 418.1 ☐ SM 503 ☐; (G) EDB by 504 ☐ DBCP by 504 ☐; (H) EPA 503.1 ☐ EPA 502.2 ☐; (I) EPA 601 ☐ EPA 8010 ☐; (J) EPA 602 ☐ EPA 8020 ☐; (K) EPA 608 ☐ 8080 ☐ PCB only ☐; (L) EPA 624/PPL ☐ 8240/TAL ☐ NBS (+15) ☐; (M) EPA 625/PPL ☐ 8270/TAL ☐ NBS (+25) ☐; (N) EPA 610 ☐ 8310 ☐; (O) EP TOX Metals ☐ Pesticides ☐ Herbicides ☐; (P) TCLP Metals ☐ VOA ☐ Semi-VOA ☐ Pest ☐ Herb ☐; (Q) EPA Metals - Priority Pollutant ☐ TAL ☐ RCRA ☐; (R) CAM Metals TTLC ☐ STLC ☐; (S) Lead 239.2 ☐ 200.7 ☐ 7420 ☐ 7421 ☐ 6010 ☐; (T) Organic Lead ☐; (U) Corrosivity ☐ Flash Point ☐ Reactivity ☐; OTHER: (V) Total Lead

Field Sample ID	GTEL Lab # (Lab Use only)	# Containers	Matrix	Method Preserved	Date	Time	A	B	C	V (Total Lead)
Bldg 51 Tank	37.08.057	1	Soil X		8/29	NA	X		X	
Bldg 51 Pump		↓	↓		↓	↓	X		X	
Bldg 51 Pile							X		X	
Bldg 19 West							[illegible]	X		X
Bldg 19 East		4	→ Composite 4 into 1					X		X
Bldg 19 Pile								X		X
Bldg 15 North								X		X
Bldg 15 South		↓	↓		↓	↓		X		X

Matrix: WATER, SOIL, AIR, SLUDGE, PRODUCT, OTHER. Method Preserved: HCl, HNO_3, H_2SO_4, ICE, UNPRESERVED, OTHER (Specify).

TAT
Priority (24 hr) ☐
Expedited (48 hr) ☐
7 Business Days ☐
Other 5 DAY Business Days ☐

Special Handling
GTEL Contact ________
Quote/Contract # ________
Confirmation # ________
P.O. # ________

QA/QC Level
Blue ☐ CLP ☐ Other ☐ ________

SPECIAL DETECTION LIMITS

SPECIAL REPORTING REQUIREMENTS

FAX ☑

REMARKS: 5 Day TAT
Quote # QW970141

Lab Use Only Lot #:
Storage Location
Work Order #:

CUSTODY RECORD

	Date	Time	
Relinquished by Sampler: Scott Vickers	8/29/97	7:30 pm	Received by: Bruce Thomp[son]
Relinquished by: Bruce Thomp[son]	8/29/97	4:20 pm	Received by:
Relinquished by:	8/30/97	09?0	Received by Laboratory: [signature] Waybill #

SITE ASSESSMENT REPORT

TANK #K06

U.S. COAST GUARD

COAST GUARD ISLAND

ALAMEDA, CA

Prepared By:

Scott Vickers

RAH Environmental, Inc.

3310 Swetzer Road

Loomis, CA 95650

October 23, 1997

ENCLOSURE(6)

EXECUTIVE SUMMARY

RAH Environmental, Inc. was contracted by the United States Coast Guard under contract #DTCG88-97-D-623174 to perform underground storage tank and piping removal operations at Building 19 on Coast Guard Island in Alameda, CA. The project included the removal of Tank #K06, a one thousand gallon gasoline storage tank and related piping, that were formerly used to fuel motor vehicles on the island. The necessary permits were obtained from the Alameda County Department of Environmental Health, and on August 27 and 28, the tank and related piping were rinsed and removed. Three soil samples were collected from the tank excavation and soil stockpile. The tank removal operations and the analytical results are described in detail in the following report.

I. INTRODUCTION

RAH Environmental, Inc. was contracted by the United States Coast Guard under contract #DTCG88-97-D-623174 to perform underground storage tank and piping removal operations at Building 19 on Coast Guard Island in Alameda, CA. The project included the removal of Tank #K06, a one thousand gallon gasoline storage tank and related piping.

II. BACKGROUND

The project site is on Coast Guard Island in Alameda, CA. The underground storage tank was located outside of Building 19 and was formerly used to store gasoline for fueling motor vehicles.

III. CONTRACTOR INFORMATION

Prime Contractor: RAH Environmental, inc.
3310 Swetzer Road
Loomis, CA 95650
(916)652-5777
Contact: Ray Henry

Subcontractors: None

IV. SITE DESCRIPTION

The project site is on Coast Guard Island, located in Alameda, CA. The underground storage tank was located to the northwest of Building 19, a former auto shop building. The tank had a small concrete slab above it, which was surrounded by asphalt. There was no piping to be removed outside of the immediate excavation.

V. REMOVAL ACTIVITIES

Notifications and Permits

An Underground Tank Closure Plan was completed and filed with Alameda County Environmental Protection Division of the Department of Environmental Health, in addition to the State of California Form A and Form B. The inspector for the project is Ms. Eva Chu, who was on-site for inspection and removal of the tank. Copies of permits are attached.

Tank Preparation

On August 27, 1997, RAH Environmental, Inc. prepared to remove the underground tank by breaking up and removing the tank slab and excavating above the tank. The tank contained approximately 300 gallons of rainwater, and was pressure washed with and additional 50 gallons of water.

Fuel and Water Removal

On August 28, 1997, approximately 350 gallons of rainwater and rinseate were pumped from the underground tank directly into a vacuum truck and transported under manifest #96700697 to Americlean, Inc. in Silver Springs, NV for recycling.

Tank Removal Operations

The underground tank was removed on August 28 utilizing a backhoe and placing the tank directly on the Dexanna truck for transportation to Erickson Incorporated in Richmond under manifest #96412557 for destruction/recycling.

Piping Removal Operations

The tank was situated directly below the 4" thick concrete slab and did not have any associated piping.

VI. ANALYTICAL

Soil Sampling and Analysis

On August 28, soil sampling operations were conducted at the site. One sample, labeled BLDG. 19 WEST was collected from the base of the west end of the tank excavation, and one sample, labeled BLDG. 19 EAST was collected from the base of the east end of the excavation as shown in Figure 1. One four point composite sample was also collected from the excavated soil stockpile and labeled BLDG. 19 PILE. All samples were analyzed for TPH as gas, BTEX, and total lead. The results are summarized in Table 1 below.

Table 1

Sample ID	Lead	TPHgas	Benzene	Toluene	Ethylbenzene	Xylene
BLDG. 19 EAST	26	730	0.10	<0.10	4.2	2.7
BLDG. 19 WEST	62	3,000	.35	<0.10	14	11
BLDG. 19 PILE	24	230	<0.05	<0.10	1.3	2.5

All results reported in **parts per million(mg/kg)**, unless otherwise indicated.

VII. SITE RESTORATION

On August 29, all scrap material was removed from the site, and the excavation was left open pending analysis and remobilization to the site. The stockpile was covered with 6 mil visqueen. On September 17, the tank excavation was backfilled using pea gravel and Class II aggregate base rock. Prior to backfilling, the native soil in the base of the excavation was compacted with a vibratory plate, and Geotex filter fabric was used to line the excavation. Approximately 10 tons of pea gravel was used to fill the excavation to within 12" of the surface, and 9" of compacted Class II aggregate base rock was installed under 3" of asphalt.

14.31 tons of contaminated soil and debris were transported to Forward, Inc., a Class II nonhazardous landfill on September 17 under manifest #10862 for disposal. A copy of the manifest is included with this report.

USCG - ISC ALAMEDA
TANK #K06 REMOVAL (8-28-97)

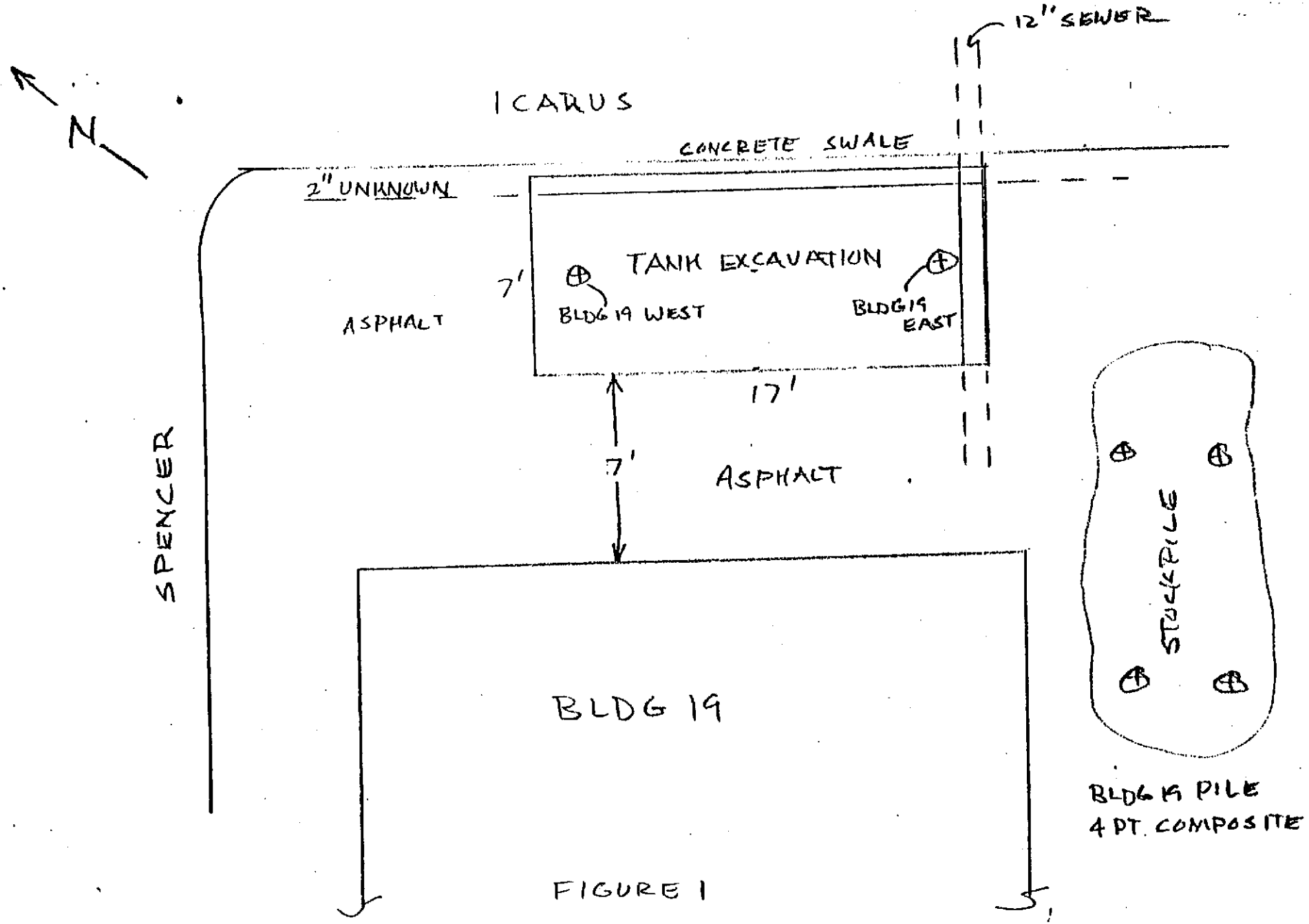


FIGURE 1

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

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. CA469039003700 Manifest Document No. 697
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.
A. State Manifest Document Number 96700697

3. Generator's Name and Mailing Address: ISC Alameda Coast Guard Island. 2000 Embarcadero, Suite 200. Alameda, CA 94501. ATTN. T MADDEN
4. Generator's Phone (510) 535-7280
5. Transporter 1 Company Name: Americlean, Inc.
6. US EPA ID Number: NVD982398493
7. Transporter 2 Company Name
8. US EPA ID Number
9. Designated Facility Name and Site Address: Americlean Inc 250 Alnwood Dr. Silver Springs NV.
10. US EPA ID Number: NVD982358482

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	
a. Non RCRA Hazardous Waste. Liquid (Oily Water)	001	TT	00550	G	State 223 EPA/Other N/A
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 hr Emerg Ph # 800 4712105

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: TIM MADDEN Signature: [signature] Month Day Year 08 28 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Patrick M. Leal Signature: [signature] Month Day Year 08 28 97

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: Terry Kinney Signature: [signature] Month Day Year 09 05 97

DO NOT WRITE BELOW THIS LINE.

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

GENERATOR / TRANSPORTER / FACILITY

RAH
ENVIRONMENTAL, INC.

December 29, 1997

Ms. Susanne Perkins
U.S. Coast Guard
CEU-Oakland
2000 Embarcadero, Suite 200
Oakland, CA 94606-5337

RE: Closure Reports

Dear Ms. Perkins:

Attached are the revised reports for Coast Guard Island and Pacific Strike Team. The manifest number for the rinseate was corrected, and a copy included. The rinseate from all three tanks at Alameda was transported under the same manifest, number 96700697, for a total quantity of 550 gallons.

Please call us if you have any questions or require additional information. Thank you very much.

Sincerely,

Scott Vickers

Class A License #592216 Fed I.D. #68-0219341
3310 Swetzer Road, Loomis, CA 95650
FAX (916) 652-8055 Office (916) 652-5777

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6. 970902

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA7690390037 Manifest Document No. 01157
2. Page 1 of 1

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

A. State Manifest Document Number 96412557

B. State Generator's ID

3. Generator's Name and Mailing Address ISC Alameda
Coast Guard Island, Alameda, Calif 94501

4. Generator's Phone (510) 437-5775

C. State Transporter's ID

D. Transporter's Phone 510 687-1297

5. Transporter 1 Company Name: DEXANNA
6. US EPA ID Number: CAD982438566

E. State Transporter's ID

F. Transporter's Phone

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

G. State Facility's ID CAD009466392

9. Designated Facility Name and Site Address
ERICKSON, INC.
255 PARR BLVD.
RICHMOND, CA 94801

10. US EPA ID Number: CAD009466392

H. Facility's Phone 510-235-1393

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA HAZARDOUS WASTE SOLID WASTE EMPTY STORAGE TANK	002	TP	01300	P	State 512 / EPA/Other NONE
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above #20865 + 20866
QTY 2 EMPTY STORAGE TANK(S)
TANK(S) HAVE BEEN INERTED WITH 15 LBS. DRY ICE PER 1000 GALLON CAPACITY

K. Handling Codes for Wastes Listed Above
a. 01/99
b.

15. Special Handling Instructions and Additional Information KEEP AWAY FROM SOURCES OF IGNITION. ALWAYS WEAR HARDHATS WHEN WORKING AROUND UGST'S
Job Site: Coast Guard Island
E - OE job# Alameda, Calif.

EMERGENCY RESPONSE CONTACT Tim Madden
EMERGENCY RESPONSE PHONE (510) 437-5775

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: TIM MADDEN Signature: [signature] Month Day Year 08 28 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: James R. Cox Signature: [signature] Month Day Year 08 28 97

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: KAREN RUFFIN Signature: [signature] Month Day Year 08 28 97

DO NOT WRITE BELOW THIS LINE.

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

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

DTSC 8022A (1/95)
EPA 8700-22

FORWARD INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298 / WEIGHING LOCATION
Resource Recovery: (209) 982-4936

P.O. Box 6336
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

SITE	TICKET	GRID
02	026244	D-95

WEIGHMASTER
S. MACIEL

DATE IN	TIME IN
09/18/97	14:09
DATE OUT	**TIME OUT**
09/18/97	14:11

624272
R A H ENVIRONMENTAL, INC.
SCOTT VICKERS
3310 SWETZER ROAD
LOOMIS CA 95650

VEHICLE	ROLL OFF
BAUERLE	10

REFERENCE	ORIGIN
624272	

Manual Gross Weight 59500 LB
Manual Tare Weight 30880 LB
Net Weight 28620 LB

Inbound - Charge ticket

QTY	DESCRIPTION	AMOUNT
14.31	Class II Soil by Ton per TONS	

WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY That the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Manifest # 10862
Truck # CP63233
P.O. # NONE
Trailer # 9.16.97
Schedule 24 hours in advance directly with the landfill.
Call (209)982-4298 to schedule.
Drive Safely!!

NET AMOUNT
TENDERED
CHANGE

DRIVER'S SIGNATURE X _____

recycled paper
FO3-C957LT

FORWARD INCORPORATED

NON-HAZARDOUS WASTE MANIFEST

WASTE TREATMENT AND DISPOSAL FACILITY

JOB ACCEPTANCE NO. -624272

TO BE COMPLETED BY THE GENERATOR

GENERATOR: USCG ISC - Alameda

MAILING ADDRESS: Coast Guard Island

CITY STATE ZIP: Alameda, CA 94501

PHONE: 510-437-5775

CONTACT PERSON: Tim Madden

SIGNATURE OF AUTHORIZED AGENT & TITLE: * [signature] DATE: 9/16/97

REQUIRED PERSONAL PROTECTIVE EQUIPMENT: ☒ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☐ HARD HAT ☐ TY-VEK ☐ OTHER

SPECIAL HANDLING PROCEDURES:

WASTE TYPE

☐ TREATMENT SOIL
☒ DISPOSAL SOIL
☐ CONSTRUCTION SOIL

☐ SLUDGE
☐ NON-FRIABLE ASBESTOS
☐ WOOD
☐ ASH
☐ OTHER

RECEIVING FACILITY

FORWARD INC. LANDFILL
9999 SOUTH AUSTIN ROAD
MANTECA, CALIFORNIA 95336
(209) 982-4298 PHONE
(209) 982-1009 FAX

GENERATING FACILITY: ISC - Alameda

TRANSPORTER HAULER MUST COMPLETE

NAME: R. Bauerle Trucking

ADDRESS:

CITY STATE ZIP:

PHONE: [illegible]

SIGNATURE OF AUTHORIZED AGENT OR DRIVER: * [signature] DATE: 9/16/97

NOTES: 1P05253 TT 524HI

TRUCK NUMBER: RB11

☐ END DUMP ☐ BOTTOM DUMP ☒ TRANSFER
☐ ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☐ DRUMS

FACILITY REQUIREMENTS

FORWARD INC. LANDFILL

Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.

REMARKS:

FACILITY TICKET NUMBER:

SIGNATURE OF AUTHORIZED AGENT: * [signature] DATE: 9-16-9

CUBIC YARDS: 18

DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD)

	DISPOSE	BIO	AERATE	STOCKPILE	OTHER
☐ SOIL					
☐ SLUDGE					
☐ NON-FRIABLE ASBESTOS					
☐ WOOD					
☐ ASH					
☐ OTHER					

SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298

MANIFEST # C 10862

SALES COPY

DAY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 25516

CUSTOMER: RAH ENVIRONMEN

JOB NO.: 970902

FOR: ERICKSON, INC. TANK NO. 20866

LOCATION: RICHMOND DATE: 97/09/17 TIME: 14:17

TEST METHOD: VISUAL GASTECH/1314 SMPN LAST PRODUCT: LG

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE: 1,000 GALLON TANK CONDITION: GAS FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 1.0%
ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

Francisco Chavez — REPRESENTATIVE

TITLE

Dave Salo — INSPECTOR

his Memorandum is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

ISC Alameda
Coast Guard Island

Carrier

Shipper's No. 970902

Agent's No. 1157

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading,

at Alameda Calif 8/28 1997 from RAH Environmental

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee—For purposes of notification only.)

Consigned to Erickson, Inc. 255 Parr Blvd.

Destination Richmond, (Street) (City) State of Calif Zip Code 94801 County of Contra Costa

Routing Dexanna

Delivering Carrier Dexanna

Vehicle or Car Initial 2 No. T-1

Collect On Delivery ______ and remit to: ______

Street ______ City ______ State ______

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	Weight (Sub. to Cor.)	Class or Rate	Check Column
2	Waste Empty Storage Tank NON-RCRA Hazardous Waste Solid. Manifest # 96412557 Tank # 20865 + 20866 Loading Time: 13.00 to 15:15 = 2¼ Hrs. 1-1000 Steel 1-550 Fiberglass	1300 lbs		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ ______ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per ______
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$ ______

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding ______ per ______

RAH Environmental Shipper, Per [signature] Dexanna Agent, Per [signature]

Permanent post-office address of shipper.

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

ALAMEDA COUNTY ENVIRONMENTAL HEALTH / HAZARDOUS MATERIALS DIVISION

1131 HARBOR BAY PKWY., RM. 250, ALAMEDA, CA 94502-6577 (510)567-6700 FAX (510) 337-9355

~~HAZARDOUS WASTE GENERATOR~~ UST Removal INSPECTION REPORT

STID #:	FACILITY NAME: US Coast Guard - Coast Guard Island	PG. 2 OF 2

SUPPLEMENTAL FORM

Building 19 - 1,000 gal steel UST for storage of gasoline

0% LEL 20.7% O2

(3) (1) ~~Tan~~ Tank had not been in use ~30 yrs Water in tank was pumped out. No [illegible]

Odor + stained soil in pit. Tank [illegible]

[illegible] ~~tot~~ [illegible] completely excavated

(1) Soil sample collected from 6.5' bgs. wet [illegible] dry - with mod odor

(2) soil sample collected from 4' bgs from west sidewall wet - sand clay w/ mod odor [illegible]

Analyze for TPH-g, BTEX and total lead

Building 15 8% LEL 20.5% O2

Hand augered to 18' bgs Soil sample ~~to~~ collected from [illegible] at south end of 1-K gasoline UST

South sample mostly sand w/ mod. odor collect at 8.0' bgs

North sample " " " " " " 8.5 bgs

Analyze for TPH-g, BTEX, total lead

PRINT NAME: [illegible]

SIGNATURE: [illegible]

INSPECTED BY: [illegible]

DATE: [illegible]

GEN/SUPP RPT(REV. 7/94) JNS /SCO

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION DIVISION
1131 HARBOR BAY PARKWAY, RM 250
ALAMEDA, CA 94502-6577
PHONE # 510/567-6700
FAX # 510/337-9335

Project Specialist

CA7690390037

UNDERGROUND TANK CLOSURE PLAN
* * * Complete according to attached instructions * * *

1. Name of Business US Coast Guard Integrated Support Command

Business Owner or Contact Person (PRINT) US Coast Guard

2. Site Address ISC Alameda Coast Guard Island

City Alameda Zip 94501 Phone 510 437-3272

3. Mailing Address 2000 Embarcadero, Suite 200

City Oakland Zip 94606-5337 Phone (510) 535-7280

4. Property Owner US Coast Guard

Business Name (if applicable) _____

Address same

City, State _____ Zip _____

5. Generator name under which tank will be manifested

US Coast Guard

EPA ID# under which tank will be manifested C A 7 6 9 0 3 9 0 0 3 7

rev 4/6/95

6. Contractor RAH Environmental, Inc.

Address 3310 Swetzer Road

City Loomis CA 95650 Phone 916-652-5777

License Type* A-Haz ID# 552216

*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board.

7. Consultant (if applicable) _____

Address _____

City, State _____ Phone _____

8. Main Contact Person for Investigation (if applicable)

Name Ray Henry Title President

Company RAH Environmental, Inc

Phone (916) 652-5777

9. Number of underground tanks being closed with this plan 3

Length of piping being removed under this plan 100'

Total number of underground tanks at this facility (**confirmed with owner or operator) 3

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

** Underground storage tanks must be handled as hazardous waste **

a) Product/Residual Sludge/Rinsate Transporter

Name Asbury Environmental Serv. EPA I.D. No. CAL000138484

Hauler License No. 36453 License Exp. Date _____

Address 100 W. Valpico

City Tracy State CA Zip 95367

b) Product/Residual Sludge/Rinsate Disposal Site

Name Asbury Environmental Serv. EPA ID# CAD026277036

Address 2400 N. Alameda St.

City Compton State CA Zip 90222

c) Tank and Piping Transporter

Name RAH Environmental, Inc. EPA I.D. No. CAD983582201

Hauler License No. 2565 License Exp. Date _____

Address 3310 Swetzer Rd

City Loomis State CA Zip 95650

d) Tank and Piping Disposal Site

Name Erickson, Inc. EPA I.D. No. CAD009466352

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

11. Sample Collector

Name _____

Company RAH Environmental, Inc.

Address 3310 Swetzer Road

City Loomis State CA Zip 95650 Phone (916)652-5027

12. Laboratory

Name NEL Laboratories

Address 1030 Matley Lane

City Reno State NV Zip 89502

State Certification No. 1707

13. Have tanks or pipes leaked in the past? Yes[ ] No[ ] Unknown[X]

If yes, describe. _____

14. Describe methods to be used for rendering tank(s) inert:

Pressure wash and dry ice

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be permanently plugged.

The Bay Area Air Quality Management District, 415/771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert.

15. Tank History and Sampling Information *** (see instructions) ***

Tank		Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Samples
Capacity	Use History include date last used (estimated)		

One soil sample must be collected for every 20 linear feet of piping that is removed. A ground water sample must be collected if any ground water is present in the excavation.

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (estimated)	Sampling Plan

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

Will the excavated soil be returned to the excavation immediately after tank removal? [ ] yes [X] no [ ] unknown

If yes, explain reasoning _____

If unknown at this point in time, please be aware that excavated soil may not be returned to the excavation without prior approval from Alameda County. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling operations.

16. Chemical methods and associated detection limits to be used for analyzing samples:
The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed.
See attached Table 2.

17. Submit Site Health and Safety Plan (See Instructions)

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
Diesel	TPH_d	GCFID (3550)	
	BTEX	8020	
Gasoline	TPH_g	GCFID (5030)	
	BTEX	8020	
	Total Lead		

18. Submit Worker's Compensation Certificate copy

Name of Insurer State Compensation Insurance Fund

19. Submit Plot Plan ***(See Instructions)***

20. Enclose Deposit (See Instructions)

21. **Report any leaks or contamination to this office within 5 days of discovery.**
The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (ULR) form.

22. **Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.**

23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner)

I declare that to the best of my knowledge and belief that the statements and information provided above are correct and true.

I understand that information, in addition to that provided above, may be needed in order to obtain approval from the Environmental Protection Division and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

CONTRACTOR INFORMATION

Name of Business RAM Environmental, Inc.

Name of Individual Scott Vickers

Signature Scott Vickers Date 7/7/92

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business U.S. Coast Guard

Name of Individual

Signature Date

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A

COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM: [X] 1 NEW PERMIT [ ] 2 INTERIM PERMIT [ ] 3 RENEWAL PERMIT [ ] 4 AMENDED PERMIT [ ] 5 CHANGE OF INFORMATION [ ] 6 TEMPORARY SITE CLOSURE [ ] 7 PERMANENTLY CLOSED SITE

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME: U.S. Coast Guard Integrated Support Command	NAME OF OPERATOR		
ADDRESS: Coast Guard Island	NEAREST CROSS STREET		PARCEL # (OPTIONAL)
CITY NAME: Alameda	STATE: CA	ZIP CODE	SITE PHONE # WITH AREA CODE

✓ BOX TO INDICATE: [ ] CORPORATION [ ] INDIVIDUAL [ ] PARTNERSHIP [ ] LOCAL AGENCY DISTRICTS * [ ] COUNTY AGENCY * [ ] STATE AGENCY * [X] FEDERAL AGENCY *

* If owner of UST is a public agency, complete the following: name of Supervisor of division, section, or office which operates the UST _____

TYPE OF BUSINESS: [ ] 1 GAS STATION [ ] 2 DISTRIBUTOR [ ] 3 FARM [ ] 4 PROCESSOR [X] 5 OTHER	[ ] ✓ IF INDIAN RESERVATION OR TRUST LANDS	# OF TANKS AT SITE: 3	E. P. A. I. D. # (optional): CA7 6 9 0 3 5 0 0 3 7

EMERGENCY CONTACT PERSON (PRIMARY)		EMERGENCY CONTACT PERSON (SECONDARY) - optional	
DAYS: NAME (LAST, FIRST): Henry, Raymond	PHONE # WITH AREA CODE: (916) 652-5077	DAYS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE
NIGHTS: NAME (LAST, FIRST): Same	PHONE # WITH AREA CODE	NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME: U.S. Coast Guard	CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS: 2000 Embarcadero, Suite 200	✓ box to indicate: [ ] INDIVIDUAL [ ] LOCAL AGENCY [ ] STATE AGENCY [ ] CORPORATION [ ] PARTNERSHIP [ ] COUNTY AGENCY [X] FEDERAL AGENCY		
CITY NAME: Oakland	STATE: CA	ZIP CODE: 94606-5337	PHONE # WITH AREA CODE: (510) 535-7280

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER: U.S. Coast Guard	CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS: 2000 Embarcadero, Suite 200	✓ box to indicate: [ ] INDIVIDUAL [ ] LOCAL AGENCY [ ] STATE AGENCY [ ] CORPORATION [ ] PARTNERSHIP [ ] COUNTY AGENCY [X] FEDERAL AGENCY		
CITY NAME: Oakland	STATE: CA	ZIP CODE: 94606-5337	PHONE # WITH AREA CODE: (510) 535-7280

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY (TK) HQ 44-032063

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) – IDENTIFY THE METHOD(S) USED

✓ box to indicate: [ ] 1 SELF-INSURED [ ] 2 GUARANTEE [ ] 3 INSURANCE [ ] 4 SURETY BOND [ ] 5 LETTER OF CREDIT [X] 6 EXEMPTION [ ] 99 OTHER _____

VI. LEGAL NOTIFICATION AND BILLING ADDRESS

Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. [ ] II. [X] III. [ ]

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

OWNER'S NAME (PRINTED & SIGNED)	OWNER'S TITLE	DATE MONTH/DAY/YEAR
Scott Vickers	Acting Rear	7/7/97

LOCAL AGENCY USE ONLY Don Moore

COUNTY #	JURISDICTION #	FACILITY #

LOCATION CODE - *OPTIONAL*	CENSUS TRACT # - *OPTIONAL*	SUPVISOR - DISTRICT CODE - *OPTIONAL*

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

FORM A (3/93) FOR0033A-R7

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONE ITEM: ☐ 1 NEW PERMIT ☐ 2 INTERIM PERMIT ☐ 3 RENEWAL PERMIT ☐ 4 AMENDED PERMIT ☐ 5 CHANGE OF INFORMATION ☐ 6 TEMPORARY TANK CLOSURE ☐ 7 PERMANENTLY CLOSED ON SITE ☒ 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: US Coast Guard ISC Command

I. TANK DESCRIPTION

COMPLETE ALL ITEMS – SPECIFY IF UNKNOWN

A. OWNER'S TANK I. D. # Bldg 19	B. MANUFACTURED BY:
C. DATE INSTALLED (MO/DAY/YEAR) Unknown	D. TANK CAPACITY IN GALLONS: 500

II. TANK CONTENTS

IF A-1 IS MARKED, COMPLETE ITEM C.

A. ☒ 1 MOTOR VEHICLE FUEL ☐ 2 PETROLEUM ☐ 3 CHEMICAL PRODUCT ☐ 4 OIL ☐ 80 EMPTY ☐ 95 UNKNOWN

B. ☐ 1 PRODUCT ☐ 2 WASTE

C. ☐ 1a REGULAR UNLEADED ☐ 1b PREMIUM UNLEADED ☐ 1c MIDGRADE UNLEADED ☒ 2 LEADED ☒ 3 DIESEL ☐ 4 GASAHOL ☐ 5 JET FUEL ☐ 6 AVIATION GAS ☐ 7 METHANOL ☐ 8 M85 ☐ 99 OTHER (DESCRIBE IN ITEM D. BELOW)

D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED C. A. S. # :

III. TANK CONSTRUCTION

MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM: ☐ 1 DOUBLE WALL ☐ 2 SINGLE WALL ☐ 3 SINGLE WALL WITH EXTERIOR LINER ☐ 4 SINGLE WALL IN A VAULT ☐ 5 INTERNAL BLADDER SYSTEM ☒ 95 UNKNOWN ☐ 99 OTHER

B. TANK MATERIAL (Primary Tank): ☐ 1 BARE STEEL ☐ 2 STAINLESS STEEL ☐ 3 FIBERGLASS ☐ 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC ☐ 5 CONCRETE ☐ 6 POLYVINYL CHLORIDE ☐ 7 ALUMINUM ☐ 8 100% METHANOL COMPATIBLE W/FRP ☐ 9 BRONZE ☐ 10 GALVANIZED STEEL ☒ 95 UNKNOWN ☐ 99 OTHER

C. INTERIOR LINING OR COATING: ☐ 1 RUBBER LINED ☐ 2 ALKYD LINING ☐ 3 EPOXY LINING ☐ 4 PHENOLIC LINING ☐ 5 GLASS LINING ☐ 6 UNLINED ☒ 95 UNKNOWN ☐ 99 OTHER
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___

D. EXTERIOR CORROSION PROTECTION: ☐ 1 POLYETHYLENE WRAP ☐ 2 COATING ☐ 3 VINYL WRAP ☐ 4 FIBERGLASS REINFORCED PLASTIC ☐ 5 CATHODIC PROTECTION ☐ 91 NONE ☒ 95 UNKNOWN ☐ 99 OTHER

E. SPILL AND OVERFILL, etc. SPILL CONTAINMENT INSTALLED (YEAR) ___ OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) ___
DROP TUBE YES ___ NO ___ STRIKER PLATE YES ___ NO ___ DISPENSER CONTAINMENT YES ___ NO ___

IV. PIPING INFORMATION

CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY	A U 4 FLEXIBLE PIPING	A U 99 OTHER
B. CONSTRUCTION	A U 1 SINGLE WALL	A U 2 DOUBLE WALL	A U 3 LINED TRENCH	A U 95 UNKNOWN	A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A U 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE	
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL W/ COATING	A U 8 100% METHANOL COMPATIBLE W/FRP	
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	(A U) 95 UNKNOWN	A U 99 OTHER	

D. LEAK DETECTION: ☐ 1 MECHANICAL LINE LEAK DETECTOR ☐ 2 LINE TIGHTNESS TESTING ☐ 3 CONTINUOUS INTERSTITIAL MONITORING ☐ 4 ELECTRONIC LINE LEAK DETECTOR ☐ 5 AUTOMATIC PUMP SHUTDOWN ☐ 99 OTHER

V. TANK LEAK DETECTION

☐ 1 VISUAL CHECK ☐ 2 MANUAL INVENTORY RECONCILIATION ☐ 3 VADOZE MONITORING ☐ 4 AUTOMATIC TANK GAUGING ☐ 5 GROUND WATER MONITORING ☐ 6 ANNUAL TANK TESTING ☐ 7 CONTINUOUS INTERSTITIAL MONITORING ☐ 8 SIR ☐ 9 WEEKLY MANUAL TANK GAUGING ☐ 10 MONTHLY TANK TESTING ☒ 95 UNKNOWN ☐ 99 OTHER

VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)

1. ESTIMATED DATE LAST USED (MO/DAY/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING 100 GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES ☐ NO ☒

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE)	DATE
Don Moore Scott Vickers Scott Vickers	7/10/97

LOCAL AGENCY USE ONLY

THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #

PERMIT NUMBER	PERMIT APPROVED BY/DATE	PERMIT EXPIRATION DATE

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED. FORM C MUST BE COMPLETED FOR INSTALLATIONS. THIS FORM SHOULD BE ACCOMPANIED BY A PLOT PLAN. FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS