



September 15, 1994

PROJECT REPORT
UNDERGROUND STORAGE TANK REMOVAL
(ASE JOB NO. 2784)

for

Mr. John Thorpe
2547 East 27th Street
Oakland, California

54 NOV 31 PM 1:39
HAYWARD

Submitted by:

Aqua Science Engineers
2411 Old Crow Canyon Road, #4
San Ramon, California 94583
(510) 820-9391

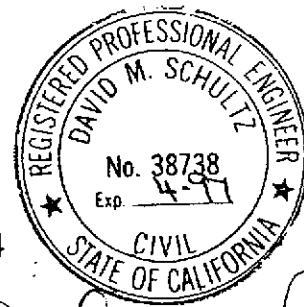


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1.0 INTRODUCTION

This report documents the removal, disposal and related activities of the underground storage tank (UST) closure performed at 2547 East 27th Street in Oakland, California (Figure 1). The following tanks were removed from the site upon the request of the property owner Mr. John Thorpe (Figure 2):

<u>UST I.D.</u>	<u>TYPE AND SIZE UST</u>	<u>FORMER CONTENTS</u>
A	Steel, 500 gallon	Gasoline
B	Steel, 500 gallon	Gasoline
C	Steel, 500 gallon	Gasoline
D	Steel, 500 gallon	Gasoline
E	Steel, 100 gallon	Waste Oil

The scope of services provided by the contractor, ICONCO, Inc. 303 Derby Avenue in Oakland, CA - contractor's license #641172, and the consultant, Aqua Science Engineers, Inc. (ASE), was in accordance with ASE proposal No. 94-148 and included the following tasks:

- o Preparing a Health and Safety Plan.
- o Obtaining necessary permits from appropriate agencies.
- o Removing and disposing of liquids from the USTs.
- o Removing and disposing of the USTs.
- o Sampling and analyzing the soil beneath the USTs.
- o Sampling and analyzing the excavation stockpiled material.
- o Backfilling the excavation to grade.
- o Preparing this report of methods and findings.

2.0 PERMITS

Permits and approvals required to remove the USTs were obtained by ASE from the City of Oakland Fire Department (OFD), the Alameda County Health Care Services Agency (ACHCSA), CAL-OSHA, and the Bay Area Air Quality Management District (BAAQMD). Copies of these permits, application forms, and notification documents are contained in Appendix C. ICONCO also applied for and received City of Oakland engineering department permits for working in the right-of-way of the neighboring streets.

3.0 MOBILIZATION

ICONCO and ASE mobilized for on-site activities on August 29, 1994. Field operations were conducted by trained technicians who are certified per the mandatory 40-hour safety program as specified in the OSHA Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120). A tailgate safety meeting was conducted and the Health and Safety Plan was signed by all field personnel.

4.0 PRE-EXCAVATION ACTIVITIES

ICONCO staff began on-site activities on August 29, 1994 by installing a temporary fence around the site. Initial field activities included removing the concrete and asphalt cover overlying the USTs, and removing the pump islands and dispensers. All material was immediately removed from the site and disposed of at a local recycling facility. Overburden soil from above and around the USTs was stockpiled and covered on site.

5.0 LIQUID REMOVAL

On August 29, 1994 the residual liquids of the USTs were evacuated and then the insides of the USTs were triple rinsed with tap water. The rinseate and residual product, approximately 1125 gallons, were pumped out and transported to the Alviso Independent Oil Facility in Alviso, California under hazardous waste manifest No. 93730045 by Waste Oil Recovery Systems (WORS), a licensed hazardous waste hauler. A copy of the manifest is attached in Appendix B.

6.0 EXCAVATION

On August 30, 1994, ICONCO field personnel began UST removal operations by removing the remaining overburden soil overlying and around the USTs. This material was stockpiled on site and covered. As the tank excavation activities continued, the associated product piping and vent lines were either removed or cut and capped at the excavation limits. Air sampling was conducted at the edge of the excavation by use of a hand-held organic vapor monitor (OVM 580A); no action levels were encountered. Petroleum hydrocarbon odors however were present.

7.0 TANK PREPARATION

Prior to USTs removal, ASE and ICONCO inerted the USTs by adding dry ice at the rate of at least 2.5 pounds per 100 gallons of UST volume. The USTs removal operations were witnessed by inspector Gil Cody of the OFD and Mr. Barney Chan of the ACHCSA. The Lower Explosive Limit (LEL) of the USTs atmospheres was measured and found to be within the allowable range; therefore, approval for the USTs removal was granted by inspector Cody.

8.0 TANK REMOVAL OPERATIONS

The USTs were lifted from the excavation, placed on plastic sheeting, hand cleaned, and inspected by ASE, ACHCSA and the OFD prior to being loaded onto the transport vehicle. Upon inspection, UST-D was found to have a 1/4" diameter hole on its underside at the tank fill end. None of the other USTs were found to have holes, cracks or integrity faults except for the holes caused by the teeth of the excavator in USTs B & E.

The waste-oil UST, UST-E, was damaged and unable to be removed from its resting place on August 30 due to the residual sludge that remained. Therefore, on August 31, ICONCO staff removed and drummed the sludge and the UST was then transported from the site.

The USTs were transported to the H & H Ship Service Company in San Francisco, CA (a licensed recycling facility, No. CAD004771168) by H & H (State Transporter's ID No. 428039 and 428048) under Manifest No's. 93620695 and 9360706 where they were properly disposed. See Appendix B for a copy of the manifests.

9.0 SOIL SAMPLE COLLECTION AND CHEMICAL ANALYSES

Soil samples were collected from the excavation and contaminated stockpiled soil as depicted on Figure 2 (see Table One below):

TABLE ONE
SAMPLE LOCATIONS - EXCAVATION PIT and STOCKPILE

<u>Sample Identification</u>	<u>Location</u>	<u>Depth (BGS)</u>
1	Fill End of UST-A	9'
2	Between UST-A and UST-B	8.5'
3	Fill End of UST-B	8.5'
4	Fill End of UST-C	9'
5	Fill End of UST-D	8.5'
6	Beneath South Pump Island	2'
7	Beneath North Pump Island	2'
8	Fill End of UST-E	8.5'
STKP-EAST	Overburden Stockpile, East End	
STKP-WEST	Overburden Stockpile, West End	

Upon removal of the USTs and inspection of the bottom of the excavation(s), it appeared (both visually and by odor detection) that soil contamination was present. Saturated soils were found beneath a majority of the USTs; however, it did not appear to be groundwater due to the position of the site up on a hill.

By use of the excavator bucket and/or a shovel, bottom of hole samples were collected 1'-2' below the original bottom of the excavation(s). Several of the soil samples were saturated to wet and contained odorous and stained soil. The soil samples were collected in 2" diameter x 6" brass sample tubes. The stockpile samples (consisting of four discrete samples) were composited by the laboratory. The soil samples were sealed on both ends using Teflon tape, plastic end caps, and duct tape, labeled, placed on dry ice, and transported directly to the analyzing laboratory under proper chain of custody procedures. Samples were submitted to and analyzed by American Environmental Network of Pleasant Hill, CA (DOHS 1172).

The above-referenced samples were analyzed for all or a combination of the following: Total Petroleum Hydrocarbons (TPH) as gasoline and diesel by EPA method 8015M, benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA method 8020, volatile organic compounds (VOCs) by EPA method 8010, and oil and grease by EPA method 5520. Analyses results are shown below in Table Two; copies of original laboratory data can be found in Appendix A. *The analytical test results for VOCs in regard to sample #8 (collected from beneath the waste-oil UST) identified no detectable (N.D.) concentrations for all constituents tested.*

TABLE TWO
SOIL SAMPLE RESULTS
All Results in Parts Per Million

S-V analysis from soil - bld reanalyzed 0.16 mg/kg 10⁻⁴

Sample ID.	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Oil & Grease
1	390	---	0.17	0.35	0.63	0.76	---
2	5.4	---	0.030	0.010	0.030	0.020	---
3	930	---	2.2	2.2	2.7	3.3	---
4	0.2	---	<0.005	<0.005	<0.005	<0.005	---
5	<0.2	---	<0.005	<0.005	<0.005	<0.005	---
6	1.0	---	<0.1	<0.1	<0.1	<0.1	---
7	110	---	<0.005	<0.005	<0.005	<0.005	---
8	1.1	<10	<0.005	<0.005	<0.005	<0.005	170
STKP-EAST*	750	---	0.36	0.66	1.4	1.8	---
STKP-WEST*	860	---	<0.005	0.72	1.9	2.1	---
EPA MTD.	8015M	8015M	8020	8020	8020	8020	5520E

* Compositied sample (performed at the lab) 4pt

10.0 EXCAVATION BACKFILLING

On August 30 and 31, 1994, upon completion of soil sample collection, the excavations were lined with visqueen and backfilled completely with the stockpiled/overburden material. The excavations were backfilled immediately with the overburden material due to the close proximity of the streets and telephone pole in relation to the excavations. The backfilling activities were verbally discussed with and approved by Mr. Barney Chan of the ACHCSA. The backfill material used is only temporary and at some later date will require removal.

11.0 CONCLUSIONS AND RECOMMENDATIONS

Five (5) USTs were removed and disposed of from the property located at 2547 East 27th Street in Oakland, California. Soil samples collected from the bottom of the excavations indicated detectable concentrations of TPH as gasoline and BTEX. Detectable concentrations of oil & grease were also identified in the soil directly beneath the former waste-oil tank. The concentrations ranged from a low of 0.2 parts per million (ppm) to a high of 930 ppm TPH as gasoline beneath the former gasoline USTs. There were no detectable concentrations of petroleum hydrocarbons found beneath the former pump islands. The stockpiled soil, which was later placed back into the excavations (temporarily) contains up to 860 ppm TPH as gasoline.

It appears (through visual and odor observations) that several of the USTs and/or product piping had integrity faults which have led to areas of soil contamination beneath the subject site. Typically, regulatory agencies will require further investigative and/or remedial activities for sites that have been impacted by petroleum hydrocarbons greater than 100 ppm.

Aqua Science Engineers, Inc. therefore recommends the following:

OK (*) Removal and stockpiling of the material that was placed into the excavations as temporary backfill. Collect samples and analyze, as necessary, for profiling and acceptance into an off-site recycling facility.

need to identify these areas (*) Overexcavate, as appropriate and possible (without destroying the integrity of the neighboring streets) residual contaminated soil. Excavation boundaries will be limited both vertically and horizontally by depth to groundwater and the neighboring streets respectively. Stockpile and sample all overexcavated material.

* Backfilling of the excavations with clean, imported compactable material to grade.

* Offhaul stockpiled soil to local recycling facility.

* Conduct a subsurface soil and groundwater investigation, which will most likely be prescribed by the local regulatory agencies.

(*) Filing of an Unauthorized Storage Tank Leak/Release Form with the appropriate agencies.

12.0 REPORT LIMITATIONS

The results of this investigation represent conditions at the time and specific location at which soil samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from sources other than the former USTs and associated plumbing at the site, or for parameters not analyzed for by the laboratory. All of the laboratory work cited in this report was prepared under the direction of independent CSDHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

ASE appreciates the opportunity to assist with the environmental needs of this property. Should questions or comments arise, please feel free to give us a call at (510) 820-9391.

Respectfully submitted,

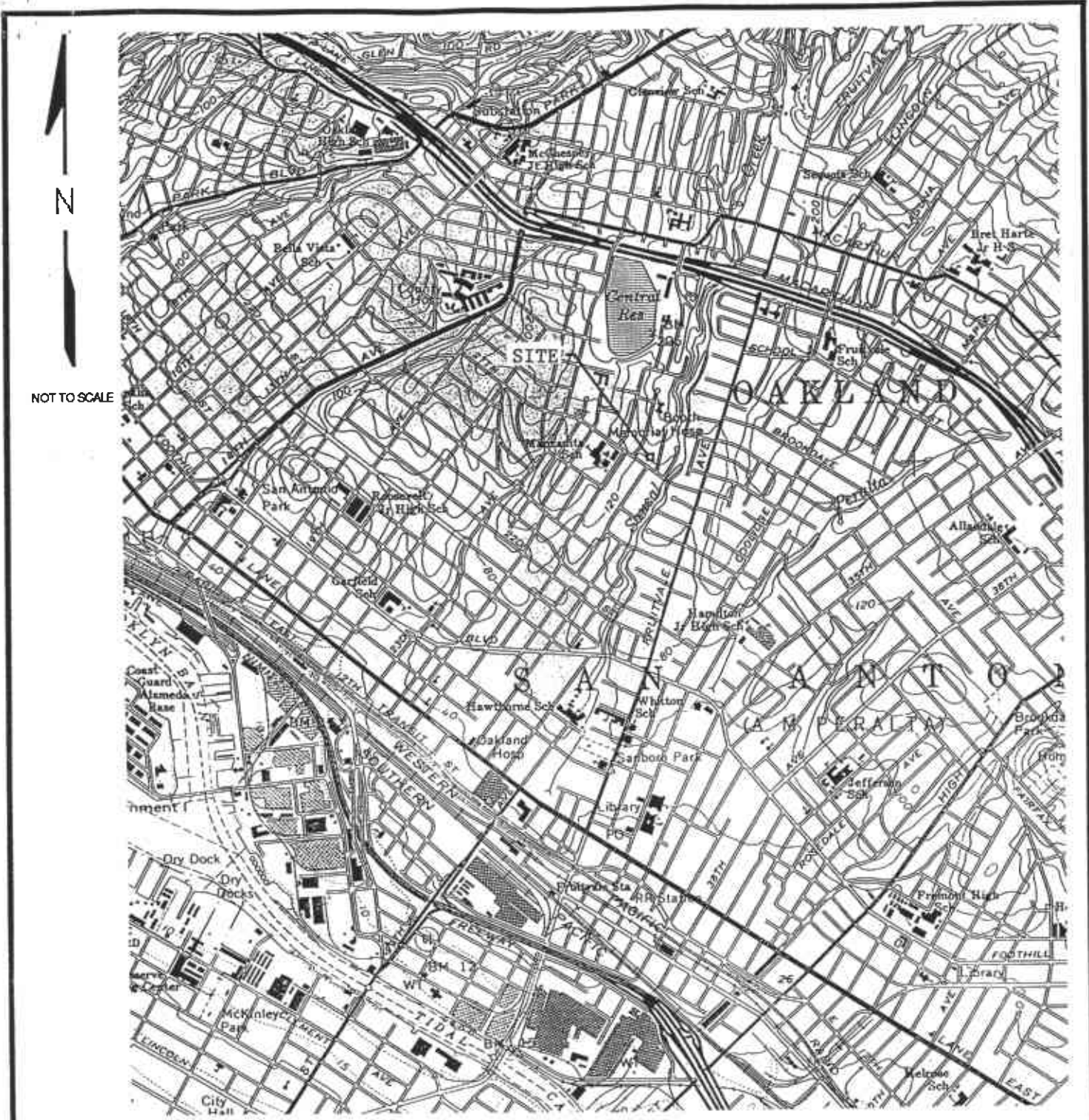
AQUA SCIENCE ENGINEERS, INC.



David Allen
Project Manager

Enclosures: Figure 1 - Site Location map
 Figure 2 - Site Plan
 Appendices A - C

cc: Mr. John Thorpe, Property Owner
 ACHCSA, Mr. Barney Chan
 RWQCB, San Francisco Bay Region, Mr. Richard Hiatt
 Mr. Ed Bullock



SITE LOCATION MAP	
Thorpe Property 2547 East 27th Street Oakland, California	
Aqua Science Engineers	Figure 1

APPENDIX A
LABORATORY ANALYSES
and
CHAIN OF CUSTODY SHEETS

AQUA SCIENCE ENGINEERS, INC.

DATE SAMPLED: 08/30-31/94
 DATE RECEIVED: 08/31/94
 CLIENT PROJ. ID: 2784

AEN JOB NO: 9408418

Client Sample Id	AEN Lab Id	Purgeable Hydrocarbons as Gasoline (mg/kg)	Extractable Hydrocarbons as Diesel (mg/kg)	Oil & Grease (mg/kg)	Hydrocarbons (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
#1	01	390	---	---	---	0.17	0.35	0.63	0.76
#2	02	5.4	---	---	---	0.030	0.10	0.030	0.020
#3	03	930	---	---	---	---	---	---	---
#4	04	0.2	---	---	---	ND	ND	ND	ND
#5	05	ND	---	---	---	ND	ND	ND	ND
#6	06	1.0	---	---	---	ND *	ND *	ND *	ND *
#7	07	110	---	---	---	ND	ND	ND	ND
#8	08	1.1	ND	170	120	ND	ND	ND	ND
STKP-EAST	09	750	---	---	---	0.36	0.66	1.4	1.8
STKP-WEST	10	860	---	---	---	ND	0.72	1.9	2.1
Reporting Limit EPA Method:		0.2 5030 GCFID	10 3550 GCFID	30 ** 5520E	30 ** 5520F	0.005 8020	0.005 8020	0.005 8020	0.005 8020
Date Extracted:		NA	09/09/94	09/09/94	09/09/94	NA	NA	NA	NA
Date Analyzed:		09/10-11/94	09/12/94	09/09/94	09/09/94	09/10-11/94	09/10-11/94	09/10-11/94	09/10-11/94

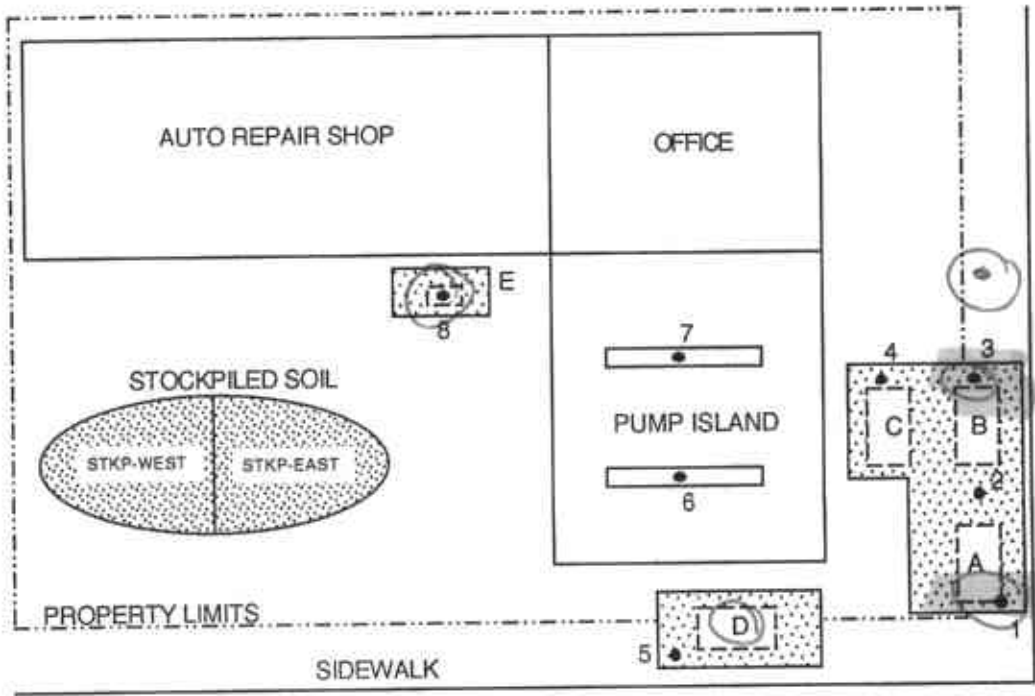
* : Reporting limit = 0.1 mg/kg
 ** : Reporting limits for 5520 analysis elevated due to high levels of target compound; samples run at dilution.

Cd, Cr, Pb, Ni & Zn
 need to run for ~~COC~~ + 8270 at least once.

Assume gradient

NORTH

SCALE: 1" = 20'



LEGEND

- 5 • SOIL SAMPLE LOCATION
- [Stippled Box] EXCAVATION BOUNDARIES
- [Box with A] LOCATION OF FORMER USTs

SITE PLAN

THORPE PROPERTY
2547 EAST 27TH STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS | Figure 2

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

AQUA SCIENCE ENGINEERS, INC
2411 OLD CROW CANYON RD. #4
SAN RAMON, CA 94583

ATTN: DAVE ALLEN/ROBERT KITAY
CLIENT PROJ. ID: 2784
CLIENT PROJ. NAME: THORPE

REPORT DATE: 09/14/94

DATE(S) SAMPLED: 08/30/94-08/31/94

DATE RECEIVED: 08/31/94

AEN WORK ORDER: 9408418

PROJECT SUMMARY:

On August 31, 1994, this laboratory received 10 soil sample(s).

Client requested samples be analyzed for organic parameters. Results of analysis are summarized on the following page(s).

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.


Larry Klein
Laboratory Director

AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: #8
 AEN LAB NO: 9408418-08
 AEN WORK ORDER: 9408418
 CLIENT PROJ. ID: 2784

DATE SAMPLED: 08/31/94
 DATE RECEIVED: 08/31/94
 REPORT DATE: 09/14/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Soil matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	5	ug/kg	09/10/94
Bromoform	75-25-2	ND	5	ug/kg	09/10/94
Bromomethane	74-83-9	ND	5	ug/kg	09/10/94
Carbon Tetrachloride	56-23-5	ND	5	ug/kg	09/10/94
Chlorobenzene	108-90-7	ND	5	ug/kg	09/10/94
Chloroethane	75-00-3	ND	5	ug/kg	09/10/94
2-Chloroethyl Vinyl Ether	110-75-8	ND	5	ug/kg	09/10/94
Chloroform	67-66-3	ND	5	ug/kg	09/10/94
Chloromethane	74-87-3	ND	5	ug/kg	09/10/94
Dibromochloromethane	124-48-1	ND	5	ug/kg	09/10/94
1,2-Dichlorobenzene	95-50-1	ND	5	ug/kg	09/10/94
1,3-Dichlorobenzene	541-73-1	ND	5	ug/kg	09/10/94
1,4-Dichlorobenzene	106-46-7	ND	5	ug/kg	09/10/94
Dichlorodifluoromethane	75-71-8	ND	5	ug/kg	09/10/94
1,1-Dichloroethane	75-34-3	ND	5	ug/kg	09/10/94
1,2-Dichloroethane	107-06-2	ND	5	ug/kg	09/10/94
1,1-Dichloroethene	75-35-4	ND	5	ug/kg	09/10/94
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/kg	09/10/94
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/kg	09/10/94
1,2-Dichloropropane	78-87-5	ND	5	ug/kg	09/10/94
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/kg	09/10/94
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/kg	09/10/94
Methylene Chloride	75-09-2	ND	5	ug/kg	09/10/94
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/kg	09/10/94
Tetrachloroethene	127-18-4	ND	5	ug/kg	09/10/94
1,1,1-Trichloroethane	71-55-6	ND	5	ug/kg	09/10/94
1,1,2-Trichloroethane	79-00-5	ND	5	ug/kg	09/10/94
Trichloroethene	79-01-6	ND	5	ug/kg	09/10/94
Trichlorofluoromethane	75-69-4	ND	5	ug/kg	09/10/94
1,1,2Trichlorotrifluoroethane	76-13-1	ND	5	ug/kg	09/10/94
Vinyl Chloride	75-01-4	ND	5	ug/kg	09/10/94

ND = Not detected at or above the reporting limit

* = Value above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9408418

CLIENT PROJECT ID: 2784

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration that can reliably be determined during routine laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix and method dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

0: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

AEN JOB NO: 9408418
DATE EXTRACTED: 09/09/94
INSTRUMENT: C
MATRIX: SOIL

Surrogate Standard Recovery Summary
Method: EPA 3550 GCFID

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
09/12/94	#8	08	92

Current QC Limits

<u>Surrogate</u>	<u>Percent Recovery</u>
n-Pentacosane	45-120

QUALITY CONTROL DATA

AEN JOB NO: 9408418
 DATE EXTRACTED: 09/08/94
 DATE ANALYZED: 09/09/94
 SAMPLE SPIKED: LCS
 INSTRUMENT: C
 MATRIX: SOIL

Laboratory Control Sample
 Method: EPA 3550 GCFID

Analyte	Spike Added (mg/kg)	Percent Recovery	QC Limits
			Percent Recovery
Diesel	32.3	99	53-103

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9408418
DATE EXTRACTED: 09/09/94
DATE ANALYZED: 09/09/94
SAMPLE SPIKED: 9408418-08
INSTRUMENT: GRAVIMETRIC
MATRIX: SOIL

Matrix Spike Recovery Summary
Method: EPA 5520

Analyte	Spike Added (mg/kg)	Percent Recovery	QC Limits
			Percent Recovery
Oil	2960	95	90-102

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9408418
 INSTRUMENT: F. H
 MATRIX: SOIL

Surrogate Standard Recovery Summary
 Method: EPA 8020, 5030 GCFID

Date Analyzed	Client Id.	Lab Id.	Percent Recovery
			Fluorobenzene
09/10/94	#1	01	94
09/10/94	#2	02	99
09/10/94	#3	03	98
09/10/94	#4	04	102
09/11/94	#5	05	101
09/10/94	#6	06	103
09/10/94	#7	07	98
09/11/94	#8	08	106
09/10/94	STKP-EAST	09	97
09/11/94	STKP-WEST	10	96

Current QC Limits

<u>Surrogate</u>	<u>Percent Recovery</u>
Fluorobenzene	84-117

QUALITY CONTROL DATA

AEN JOB NO: 9408418
DATE ANALYZED: 09/10/94
SAMPLE SPIKED: LCS
INSTRUMENT: F
MATRIX: SOIL

Laboratory Control Sample
Method: EPA 8020, 5030 GCFID

Analyte	Spike Added (ug/kg)	Average Percent Recovery	QC Limits
			Percent Recovery
Benzene	8.3	90	69-108
Toluene	30.2	91	70-106
Hydrocarbons as Gasoline	500	94	69-110

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9408418
 INSTRUMENT: G
 MATRIX: SOIL

Surrogate Standard Recovery Summary
 Method: EPA 8010

Date Analyzed	Client Id.	Lab Id.	Percent Recovery	
			Bromochloro-methane	1-Bromo-3-chloro-propane
09/10/94	#8	08	81	94

Current QC Limits

<u>Surrogate</u>	<u>Percent Recovery</u>
Bromochloromethane	62-137
1-Bromo-3-chloropropane	53-143

QUALITY CONTROL DATA

AEN JOB NO: 9408418
DATE ANALYZED: 09/09/94
SAMPLE SPIKED: LCS
INSTRUMENT: G

Laboratory Control Sample
Method: EPA 8010

Analyte	Spike Added (ug/kg)	Percent Recovery	QC Limits
			Percent Recovery
1,1-Dichloroethene	50	89	60-115
Trichloroethene	50	91	64-137
Chlorobenzene	50	88	54-122

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

*** END OF REPORT ***

R-4, S-C

9408418

Aqua Science Engineers, Inc.
2411 Old Crow Canyon Road, #4,
San Ramon, CA 94583
(510) 820-9391 - FAX (510) 837-4853

Chain of Custody

DATE 8/30/94 PAGE 1 OF 1

SAMPLERS (SIGNATURE) [Signature] (PHONE NO.) 820-9391 PROJECT NAME THORPE NO. 2784
ADDRESS 2547 E. 27th St., OAKLAND

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:
* COMPOSITE THE 4 SAMPLES INTO 1 PRIOR TO ANALYSES

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH- GASOLINE (EPA 5030/8015)	TPH- GASOLINE/BTEX (EPA 5030/8015- 8020)	TPH- DIESEL (EPA 3510/8015)	PURGABLE AROMATICS (EPA 602/8320)	PURGABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240)	BASE/NEUTRALS, ACIDS (EPA 625/8270)	OIL & GREASE (EPA 5520 EAF or B&F)	LUFT METALS (5) (EPA 6010+7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC- CAM WET (EPA 1311/1310)	REACTIVITY CORROSIONITY ICHUABILITY	COMPOSITE 4 INTO 1		
1A #1	8/30		SOIL	1		X														
2A #2	}		}	1		X														
3A #3				1		X														
4A #4				1		X														
5A #5				1		X														
6A #6	}		}	1		X														
7A #7				1		X														
8A #8	8/31		↓	1		X	X		X			X								
A* STKP-EAST	8/30		↓	4		X												X		
A* STKP-WEST	8/30		↓	4		X												X		

RELINQUISHED BY: <u>[Signature]</u> 14:50 (signature) (time)	RECEIVED BY: <u>[Signature]</u> 14:50 (signature) (time)	RELINQUISHED BY: <u>[Signature]</u> 15:20 (signature) (time)	RECEIVED BY LABORATORY: <u>[Signature]</u> 1520 (signature) (time)	COMMENTS:
D. Allen 8-31-94 (printed name) (date)	NEIL HERRICK 8-31-94 (printed name) (date)	NEIL HERRICK 8/31-94 (printed name) (date)	Gina Gillespie (printed name) (date)	
Company- ASE, Inc.	Company- AEN	Company- AEN	Company- AEN 8/31/94	

APPENDIX B

HAZARDOUS WASTE MANIFESTS

93730045 IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1	Information in the shaded areas is not required by Federal law.
		CA 01010191255512	31010415	1 of 1	
3. Generator's Name and Mailing Address		JOHN THORP 21790 HESPERIAN BLVD HAYWARD CALIF 94541		State Generator ID: 93730045	
4. Generator's Phone ()		783-3440		EPA Generator ID: 93730045	
5. Transporter 1 Company Name		WASTE OIL RECOVERY		EPA Transporter ID: 43/116/1	
6. US EPA ID Number		KVAL1001016215115		EPA Transporter ID: 43/116/1	
7. Transporter 2 Company Name				EPA Transporter ID: 43/116/1	
8. US EPA ID Number				EPA Transporter ID: 43/116/1	
9. Designated Facility Name and Site Address		ALUSO OIL 5002 ARCHER ALUSO CALIF 95002		EPA Facility ID: 408-262-2715	
10. US EPA ID Number		KVAL10010104185711		EPA Facility ID: 408-262-2715	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		a. USED OILS, NON-RCRA HAZARDOUS WASTE; LIQUID		12. Containers No. Type: 01011 7 1011125 9	
b.				13. Total Quantity	
c.				14. Unit Wt/Vol	
d.					
Additional Description for Manual Handling Assist		WASTE OILS, WASTE MOTOR FUEL 4/40		Handling Code for Waste Listed Above: 01	
15. Special Handling Instructions and Additional Information		ERG # 27 PROTECTIVE GEAR 24 HOUR W.O.R.S 510 5330750 SITE: 2547 E. 27 th STREET OAKLAND CALIF 94601			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.					
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name		Signature		Month Day Year	
DAVID ALLEN ASE INC Agent for John Thorp		David Allen ASE		8/18/219/94	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month Day Year	
D. Edman		D. Edman		8/18/219/94	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month Day Year	

DO NOT WRITE BELOW THIS LINE.

93620695
 IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address JOHN THORPE 21790 Hesperian Blvd., Hayward, CA. 94541		C I A C I 0 0 0 9 2 5 5 5 2		State Waste Disposal Number 93620695	
4. Generator's Phone (510) 783-3440		0 0 0 0 1		State Generator ID	
5. Transporter 1 Company Name H & H SHIP SERVICE COMPANY		6. US EPA ID Number C A D 0 0 4 7 7 1 1 6 8		State Transporter ID 723173	
7. Transporter 2 Company Name		8. US EPA ID Number		Transporter Phone (415) 543-4835	
9. Designated Facility Name and Site Address H & H SHIP SERVICE COMPANY 220 TERRY A. FRANCOIS STREET SAN FRANCISCO, CA. 94107		10. US EPA ID Number C A D 0 0 4 7 7 1 1 6 8		State Facility ID C A D 0 0 4 7 7 1 1 6 8	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type		13. Total Quantity	
a. RESIDUE GASOLINE TANK NON-RCRA HAZARDOUS WASTE SOLID		0 0 1 T P		0 1 0 0 0 P	
b. RESIDUE GASOLINE TANKS NON-RCRA HAZARDOUS WASTE SOLID		0 0 3 T P		0 0 5 0 0 P	
c.					
d.					
15. Special Handling Instructions and Additional Information JOB #14853 24 Hr. Emergency Contact: H & H #(415) 543-4835 APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR		14. Unit Wt/Val		14. Unit Wt/Val	
JOB SITE: JOHN THORPE 2547 E. 27th Street Oakland, California		14. Unit Wt/Val		14. Unit Wt/Val	
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.		14. Unit Wt/Val		14. Unit Wt/Val	
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.		14. Unit Wt/Val		14. Unit Wt/Val	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>David Allen ASE Inc</i>		Month Day Year 0 8 3 0 9	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature <i>Esteban M. Penalver</i>		Month Day Year 0 8 3 0 9	
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.		Signature		Month Day Year	

DO NOT WRITE BELOW THIS LINE.

93620706

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C A C 0 0 0 9 2 5 5 5 2		Manifest Document No. 0 0 0 0 2		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address JOHN THORPE 21790 Hesperian Blvd., Hayward, CA. 94541						A. State/County/Local Number 93620706 B. State/County/Local 93620706 C. DOT Manifestation ID 03116 D. Facility State/Zip 415 543-4835 E. State/County/Local 93620706 F. Facility State/Zip 415 543-4835 G. DOT Manifestation ID 03116 H. Facility State/Zip 415 543-4835							
4. Generator's Phone 510) 783-3440													
5. Transporter 1 Company Name H & H SHIP SERVICE COMPANY			6. US EPA ID Number C A D D D 4 7 7 4 1 6 B										
7. Transporter 2 Company Name			8. US EPA ID Number										
9. Designated Facility Name and Site Address H & H SHIP SERVICE COMPANY 220 TERRY A. FRANCOIS STREET SAN FRANCISCO, CA. 94107						10. US EPA ID Number C A D D D 4 7 7 4 1 6 B							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) WASTE EMPTY STORAGE TANK NON-RCRA HAZARDOUS WASTE SOLID						12. Containers		13. Total Quantity		14. Unit Wt/Vol			
						No.		Type		Quantity		Wt/Vol	
						0 0 1		T P		0 0 1 0 0		P	
						b.							
c.													
d.													
15. Special Handling Instructions and Additional Information JOB #14853						JOB SITE: JOHN THORPE							
24 Hr. Emergency Contact: H & H #(415) 543-4835						2547 E. 27th Street							
APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR						Oakland, California							
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.													
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature				Month		Day		Year	
Printed/Typed Name ESTEBAN M. PENALVER				Signature <i>[Signature]</i>				0 8		3 1		9 1	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature				Month		Day		Year	
Printed/Typed Name				Signature									
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.													
Printed/Typed Name				Signature				Month		Day		Year	

DO NOT WRITE BELOW THIS LINE.

APPENDIX C
PERMITS