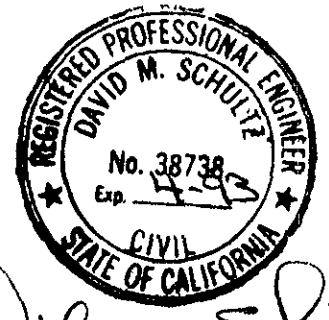
aqua science engineers inc.

September 15, 1992

FINAL REPORT
UNDERGROUND STORAGE TANK REMOVAL

at

Goodman Property
2501 Santa Clara Avenue
Alameda, California 94501



Submitted by:

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

TABLE OF CONTENTS

1.0 INTRODUCTION

This report documents the removal and related activities of the underground storage tank closure performed at Goodman, 2501 Santa Clara Avenue, Alameda, California. The following tanks were removed from the site; two (2) steel 5,000 gallon, gasoline underground storage tanks, one (1) steel 6,000 gallon gasoline tank, and one (1) steel 250 gallon waste-oil underground storage tank. The scope of services provided by Aqua Science Engineers, Inc. (ASE) is in accordance with ASE proposal No. 92-035 and includes the following tasks:

- o Obtain necessary permits from appropriate agencies.
- o Remove and dispose of liquids from the tanks.
- o Remove and dispose of the underground storage tanks.
- o Sample and analyze the soil beneath the tanks.
- o Prepare a report of methods and findings.

2.0 PERMITS

The approvals/permits to remove the underground storage tanks were obtained from the City of Alameda Fire Prevention Bureau, the Alameda County Health Care Services Agency, CAL-OSHA, and the Bay Area Air Quality Management District. Originals of the permits, applications, forms and notification documents are contained in Appendix C.

3.0 LIQUID REMOVAL

The four tanks contained approximately 600 gallons total of residual product along with rinseate water used to clean the tanks' insides. The liquid was pumped out and transported to the Demenno Kerdoon Facility in Compton, California under a hazardous waste manifest by Waste Oil Recovery (WORS), a licensed hazardous waste hauler. See Appendix A for copies of manifest.

4.0 MOBILIZATION

ASE mobilized for on-site work on August 13, 1992. Project personnel included: Steve De Hope- Construction Manager, Field Personnel- Jerry Sasse and Steve Labar.

5.0 EXCAVATION

On August 13, ASE personnel began tank pulling exercises by cutting the perimeter of the tank pits and removing the asphalt and concrete cover. The material was stockpiled on site, and excavation activities began.

5.1 One (1) 6,000 and Two (2) 5,000 Gallon Gasoline Tanks:

ASE began excavation of the three gasoline, underground storage tanks (all laying in one tank pit). After removing ground cover (3" A.C.), approximately 12 inches of base rock was encountered. Native material was comprised of a silty, clayey sand. As the tank excavation activities continued, the associated piping and vent lines were removed. At three feet below grade, heavily stained soils were encountered, approximately 1 foot thick. From 4 feet below grade to a 9 foot depth (groundwater encountered) discolored soils were encountered. A strong petroleum odor was detected throughout the entire excavation. Air sampling was conducted throughout excavation activities at the edge of the excavation by use of a hand-held organic vapor monitor (OVM 580A); no action levels were encountered, work proceeded. Tank bottoms were measured at 11 feet to 12 feet below grade. Excavated soils were stockpiled on site and covered with plastic.

5.2 One (1) 250 Gallon Waste-Oil Tank:

ASE began excavation activities on the former underground waste-oil tank pit by removing approximately 3" of A.C. Approximately 12 inches of base rock was then excavated. Native material was a sandy clay. As tank excavation activities continued, all associated piping and vent lines were removed. The tank bottom was measured at five feet below grade; heavy petroleum odors were detected throughout the excavation. The tank and its piping showed signs of corrosion; no overspill protection was in place. No groundwater was encountered. Excavated soils were stockpiled on site and covered with plastic.

6.0 TANK REMOVAL

Prior to tank removal on the morning of August 14, 1992, ASE inerted the tanks by adding dry ice at the rate of at least 1.5 pounds per 100 gallons of tank volume. The tank removal operations were witnessed by Mr. Kevin Tinsley of the Alameda County Health Care Services Agency (ACHCSA) and Mr. Steven McKinley of the Alameda Fire Department. After verifying a safe LEL of each of the the tank's atmosphere, by use of a 25-ton crane, the tanks were lifted from the excavation, placed on plastic, hand cleaned, and inspected prior to being loaded onto the transport vehicle. Of the former gasoline tanks (see Figure 1, Site Plan), "Tank A" (5,000 gallon capacity) was noted to have a 1-inch hole in the north sidewall above the interface of groundwater on the fill end of the tank. "Tank B" (5,000 gallon capacity) was noted to have a crack in the seam of the southwest end of the tank. "Tank C" (6,000 gallon capacity), had minor signs of corrosion and no apparent holes. An Underground Storage Tank Unauthorized Release (leak)/Contamination Site Report was submitted. Upon removal of the 3 gasoline tanks, groundwater was exposed in the excavation beneath the tanks.

In reference to the former waste-oil tank "Tank D" (see Figure 1, Site Plan), the tank was inerted with dry ice, lifted from the excavation, placed on plastic for inspection prior to being placed on the transport vehicle. Upon inspection, it was noted that the tank had a 1/2-inch hole in the south end, and showed signs of corrosion.

Photos are contained in Appendix D of this report.

Tanks were transported to the Erickson Facility in Richmond, CA by Erickson, Inc., a licensed hazardous waste hauler, where they were disposed. See Appendix A for manifests and disposal certifications of tanks.

7.0 SAMPLING AND ANALYSIS

7.1 Waste-Oil Excavation and Stockpile:

One soil sample (W/O-3-B) was extracted from the waste-oil tank excavation. The soil sample was collected by ASE personnel, Construction Supervisor, Steve De Hope, trained in sampling protocol by a registered civil engineer. The sample was collected from the excavation bottom at a depth of 7 feet below grade (see Figure 2, Sample Location Map for location of samples). The stockpiled soils were sampled by collecting two tubes ((W-O-1-S, AND W-O-2-W) which were

later composited to one at the laboratory. The samples were secured using aluminum foil, capped, and sealed with tape and transported directly to the analyzing laboratory under chain of custody procedures. Soil samples were submitted for analysis to the state certified laboratory, Priority Environmental Labs in Milpitas, California (408) 946-9636, and analyzed for Total Petroleum Hydrocarbons as Gasoline (EPA 5030/8015), Diesel (EPA 3550/8015), and BTEX (EPA 8020), Volatile Organics (EPA 8240), and Oil and Grease (EPA 5520 E & F. Analysis results can be found below (Table One), and hard copies in Appendix B. Results of EPA 8240 showed detectable levels of the factions BTEX and other constituents ranging from 14-110 ppb; these results were not tabulated.

TABLE ONE: WASTE-OIL SOIL SAMPLE RESULTS

Sample No.	TPH Gasoline (ppm)	TPH Diesel (ppm)	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Total Xylenes (ppb)	Oil and Grease (ppm)
W/O-1,2*	5.2	38	6.7	19	11	130	1800
W/O-3-B	39	250	19	27	43	150	12000

* - Composited sample
ND - Non Detectable at analytical method limits
ppm - parts per million
ppb - parts per billion

7.2 Gasoline Tank Excavation and Stockpile:

Three soil samples (SW-4-W, SW-5-S, SW-6-N) were extracted from the gasoline tank excavation at approximately 8 1/2 feet below grade (groundwater/soil interface) by use of the backhoe bucket, then a 2"x 6" brass sample tube was inserted to collect a sample (see Figure 2, Sample Location Map). The stockpiled soils were sampled by collecting four samples (STKP-G-7-W, STKP-G-8-S, STKP-G-9-E, and STKP-G-10-N) which were later composited for analysis at the laboratory. The soil samples were secured using aluminum foil, capped, and sealed with tape and transported directly to the analyzing laboratory under chain of custody procedures. Samples were submitted for analysis to the state certified laboratory, Priority Environmental Labs in Milpitas, California (408) 946-9636. The soil samples taken were analyzed for Total Petroleum Hydrocarbons as Gasoline (EPA 5030/8015), Diesel (EPA 3550/8015), and BTEX (EPA 8020) and Total Extractable Lead. Analysis results are shown below (Table Two) and hard copies can be found in Appendix B. A "Tank Pit" water sample was collected and

analyzed for TPH as gasoline and the fractions BTEX (EPA 5030/8015). Results are in the table below.

TABLE TWO: GASOLINE EXCAVATION SOIL AND TANK-PIT WATER SAMPLE RESULTS

Sample No.	TPH Gasoline (ppm)	TPH Diesel (ppm)	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Total Xylenes (ppb)	Lead (mg/kg)
SW-4-W	21	---	24	31	39	190	6.0
SW-5-S	150	---	370	1000	1400	4200	6.8
SW-6-N	7200	---	4900	11000	12000	36000	9.2
STKP-G*	1300	---	500	1400	1700	5200	20
TANK PIT WATER	330	---	1600	2600	1800	6400	---

* - Composited sample
ND - Non Detectable at analytical method limits
ppm - parts per million
ppb - parts per billion

8.0 BACKFILLING AND RESURFACING

The excavations were not backfilled while awaiting soil sample analytical results. Due to levels of contamination found in the soil, a Phase II site assessment was recommended; therefore, the excavations will be left open pending soil boring analysis and groundwater monitoring well installation and sampling.

9.0 DISCUSSION AND CONCLUSIONS

Four steel, underground tanks were were removed from the site, 1 - 6,000 gallon gasoline, 2 - 5,000 gallon gasoline, and 1 - 250 gallon waste-oil tank, and transported as hazardous waste to the Erickson Facility in Richmond California, to be cleaned and disposed of as scrap.

The results of laboratory analysis of soil samples from the excavations showed detectable concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline and diesel. A copy of the certified laboratory results appear in Appendix C. The native soil at this elevation below the tanks did not appear clean, dry, or free of petroleum odor. An Underground Storage Tank Unauthorized Release form was prepared by Aqua Science and filed with the Alameda County Health Services Department.

It is the recommendation of Aqua Science Engineers, Inc. that, based on LUFT Manual Standards, a Phase II Site Investigation is necessary to further examine the site and to determine the vertical and lateral affects of the plume of the contaminants.

ASE appreciates having the opportunity to provide our services to you. If you have any questions or comments, please feel free to give us a call at (510) 820-9391.

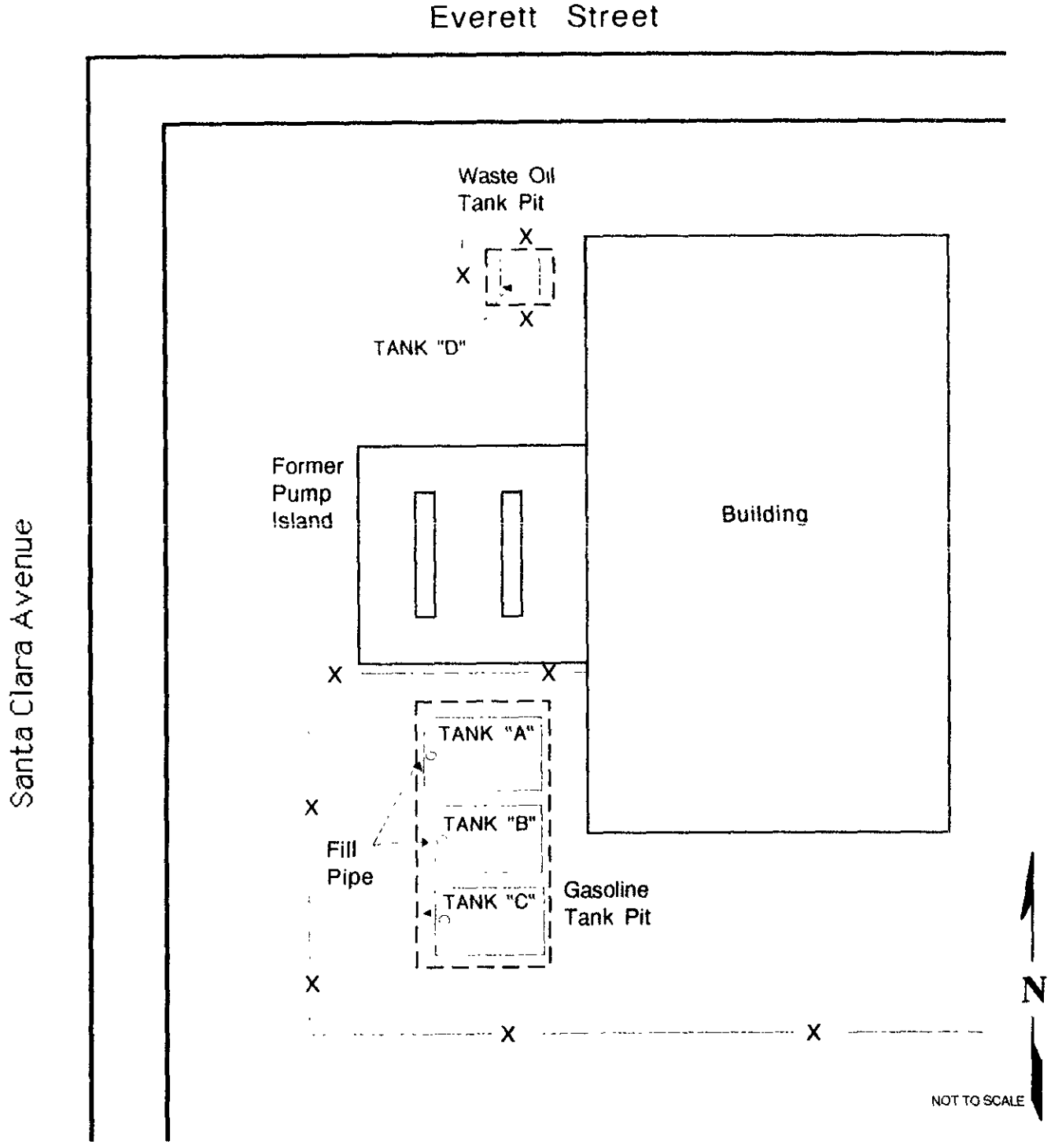
Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

David Allen
Project Engineer

Enclosures: Figure 1
Figure 2
Appendices A - D

Ask if Aqua Science can backfill w/ pea gravel all the way up.



LEGEND

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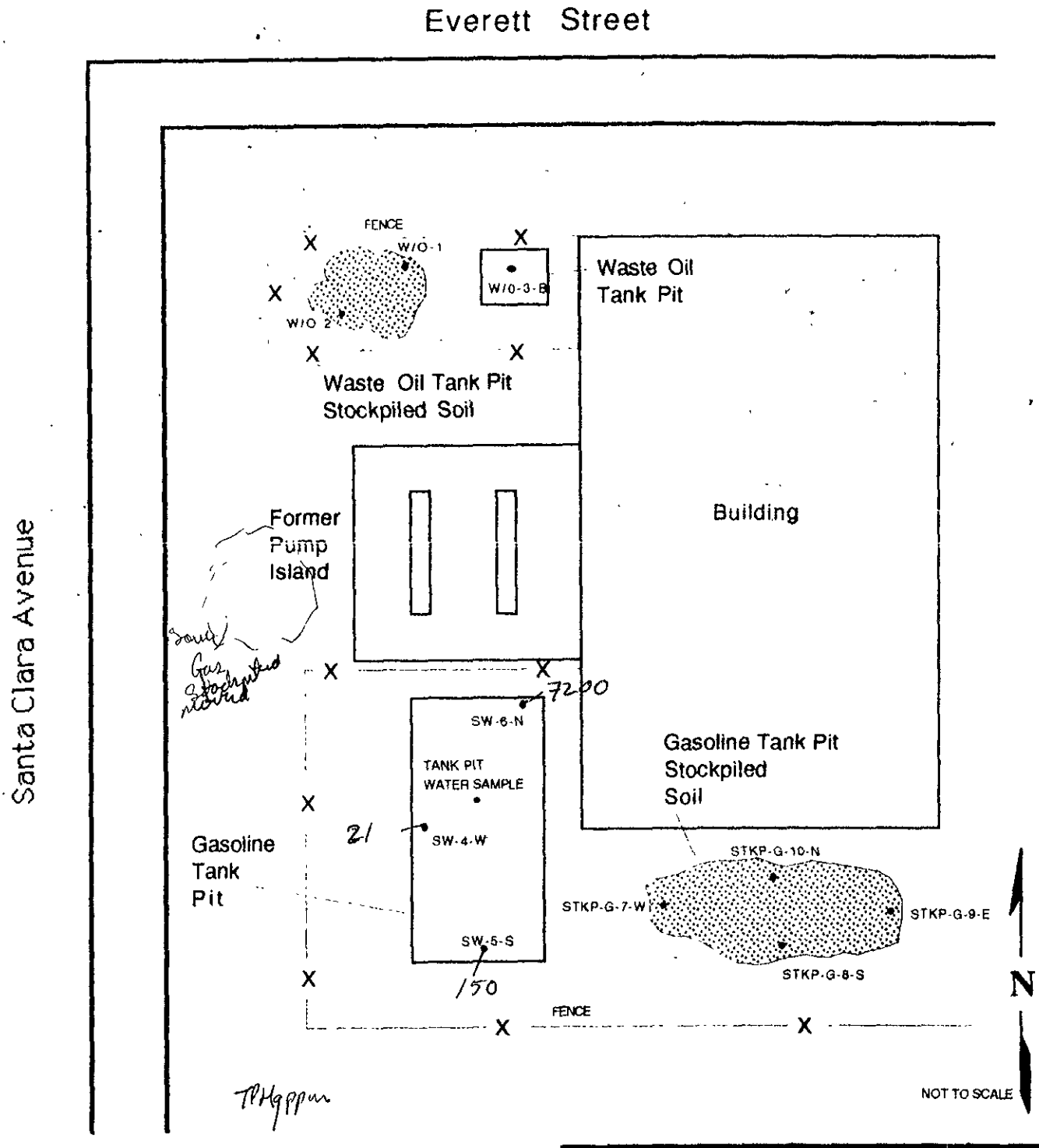
SITE PLAN

Goodman Property
2501 Santa Clara Avenue
Alameda, California

Aqua Science Engineers | Figure 1



SAMPLING LOCATIONS

Goodman Property
2501 Santa Clara Avenue
Alameda, California

Aqua Science Engineers | Figure 2

APPENDIX A

HAZARDOUS WASTE MANIFESTS
AND
TANK CERTIFICATES

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
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. CAC000172581 Manifest Document No. 01153
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
MS GOODMAN
2501 SANTA CLARA

[redacted]

4. Generator's Phone (510) 523-4030

5. Transporter 1 Company Name: ERICKSON INC
6. US EPA ID Number: CAD0CBWKC3FD

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

9. Designated Facility Name and Site Address
Erickson, Inc.
255 Parr Blvd.
Richmond, Ca. 94801
10. US EPA ID Number: CAD

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. Waste, Empty Storage Tank / Non-RCRA Hazardous Waste Solids	001	TP	16250	P
b.				
c.				
d.				

[redacted]

15. Special Handling Instructions and Additional Information:
Keep away from sources of ignition. Always wear hardhats when working around U.S.T.'s 24 Hrs Contact Name MS GOODMAN & Phone 510-523-4030

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: [illegible] Signature: [signature] Month Day Year: 08 14 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JERRY A. HULSEY Signature: [signature] Month Day Year: 08 14 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

GENERATOR / TRANSPORTER

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

Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. Form designed for use on elite (12-pitch typewriter).

and Front of Page 7

Toxic Substances Control Division
Sacramento, California

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.
[illegible]			

3. Generator's Name and Mailing Address [illegible]
7501 [illegible]ANTA CLARA
ALAMEDA CA 94501

4. Generator's Phone [illegible]

A. State Manifest Document Number 91025028

B. State Generator's ID

5. Transporter 1 Company Name: WASTE OIL RECOVERY | 6. US EPA ID Number: [illegible]

C. State Transporter's ID [illegible]

D. Transporter's Phone [illegible]

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

9. Designated Facility Name and Site Address: [illegible]
[illegible] ALAMEDA
[illegible] | 10. US EPA ID Number: CAT080013352

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. PETROLEUM OIL NOS (WASTE OIL) COMBUSTIBLE LIQUID NA1270	01	TT	00600	G
b. [illegible]				
c. [illegible]				
d. [illegible]				

[illegible]

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.

[illegible]

Printed/Typed Name [illegible] | Date [illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials

[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

[illegible]

IN CASE OF EMERGENCY OR SPILL, CALL 1-800-852-7550

TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 00004

CUSTOMER	[illegible]
JOB NO	[illegible]

FOR: [illegible] TANK NO. [illegible]

LOCATION: [illegible] DATE: [illegible]/92 TIME: 08:12:13

TEST METHOD Visual Gastech/1311 SMPX LAST PRODUCT UO

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 250 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9%

LOWER EXPLOSIVE LIMIT LESS THAN 0.1%

"ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY."

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.

REPRESENTATIVE TITLE INSPECTOR

TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 08285

CUSTOMER	
JOB NO.	

FOR: Erickson, Inc. TANK NO. 9394

LOCATION: Richmond DATE: 08/20/92 TIME: 08.33.00

TEST METHOD Visual Gastech/1314 SMPN LAST PRODUCT UG

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 5000 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9%

LOWER EXPLOSIVE LIMIT LESS THAN 0.1%

"ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY."

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.

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

REPRESENTATIVE K Hughes TITLE INSPECTOR

TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 08761

CUSTOMER	
JOB NO.	

FOR: _____ TANK NO. 5000

LOCATION: Richmond DATE: 08/21/96 TIME: 11:07:11

TEST METHOD Visual Gastech/1311 SMPN LAST PRODUCT UG

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 5000 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS OXYGEN 20.9%

LOWER EXPLOSIVE LIMIT LESS THAN 0.1%

"ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY."

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.

REPRESENTATIVE _____ TITLE _____ INSPECTOR _____

TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 08161

CUSTOMER	
JOB NO	

FOR: [illegible] TANK NO. 9 [illegible]

LOCATION: Richmond DATE: 08/21/92 TIME: 11:52:13

TEST METHOD Visual Gastech/1314 SMPX LAST PRODUCT UG

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 6000 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS OXYGEN 20.9%

LOWER EXPLOSIVE LIMIT LESS THAN 0.1%

"ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY."

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.

REPRESENTATIVE TITLE INSPECTOR

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6. 1993

Department of Toxic Substances Con
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000817384 Manifest Document No. 014153

2. Page 1 of 1

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

3. Generator's Name and Mailing Address
MS GOODMAN
3501 SANTA CLARA
ALAMEDA CA

4. Generator's Phone 510 522-4030

A. State Manifest Document Number [redacted]

5. Transporter 1 Company Name
ERICKSON INC

6. US EPA ID Number
CAD009466392

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Erickson, Inc.
255 Parr Blvd.
Richmond, Ca. 94801

10. US EPA ID Number
CAD009466392

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Waste Empty Storage Tank NON-RCRA Hazardous Waste Solid.	004	T P	16250	P
b.				
c.				
d.				

[redacted]

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hardhats when working around U.S.T.'s 24 Hr. Contact Name MS GOODMAN & Phone 510-522-4030

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the 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 federal, state and international laws.

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
Aqua Science Engineers	[signature]	08	14	92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
JERRY L. HULSEY	[signature]	08	14	92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Donald H. Hosson	[signature]	08	17	92

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

92204153

DTSC 8022A (12/91)
EPA 8700—22

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

APPENDIX B

LABORATORY ANALYSIS
and
CHAIN OF CUSTODY SHEETS

PRIORITY ENVIRONMENTAL LABS

Florida Environmental Analytical Laboratory

August 19, 1992

PEL # 9208033

AQUA SCIENCE ENGINEERS, INC.

Attn: Steve DeHope
Re: One water and six soil samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses.

Project name: Goodman
Project location: 2501 Santa Clara Ave.
Project number: 2558

Date sampled:Aug 14, 1992
Date extracted:Aug 17-18, 1992

Date submitted:Aug 17, 1992
Date analyzed:Aug 17-18, 1992

RESULTS:

SAMPLE I.D.	Gasoline (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
Tank Pit Water	330	1600	2600	1800	6400
Detection Limit	1.0	5.0	5.0	5.0	5.0
Method of Analysis	5030/8015	602	602	602	602

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)	Oil & Grease (mg/Kg)
W/O-1,2 *	5.2	38	6.7	19	11	130	1800
W/O-3-B	39	250	19	27	43	150	12000
SW-4-W	21	---	24	31	39	190	---
SW-5-S	150	---	370	1000	1400	4200	---
SW-6-N	7200	---	4900	11000	12000	36000	---
STKP-G*	1300	---	500	1400	1700	5200	---
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	93.1%	97.6%	95.4%	92.9%	89.7%	102.3%	---
Duplicate Spiked Recovery	91.6%	102.5%	87.4%	83.5%	95.2%	94.6%	---
Detection limit	1.0	1.0	5.0	5.0	5.0	5.0	10
Method of Analysis	5030 / 8015	3550 / 8015	8020	8020	8020	8020	5520 D & F

* Composited soil samples.

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

August 24, 1992 PEL # 9208033

AQUA SCIENCE ENGINEERS, INC
Project Name: Goodman

Attn: Steve DeHope
Project Number: 2558
Project location: 2501 Santa Clara Ave.

Sample I.D.: W/O-1-S & W/O-2-W
Date Sampled: Aug 14, 1992
Date Analyzed: Aug 21, 1992

Date Submitted: Aug 17, 1992

Method of Analysis: EPA 8240

Detection limit: 5.0 ug/Kg

COMPOUND NAME	CONCENTRATION (ug/Kg)	SPIKE RECOVERY (%)
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	89.2
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	95.5
Trans-1,2-Dichloroethene	N.D.	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	94.6
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	94.8
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	92.1
Benzene	8.9	-----
Dibromochloromethane	N.D.	-----
Toluene	17	-----
Chlorobenzene	14	-----
Ethylbenzene	16	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	84.0
Dichlorodifluoromethane	N.D.	-----
Freon 113	N.D.	-----
M & P-Xylenes	100	-----
O-Xylene	40	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

August 24, 1992 PEL # 9208033

AQUA SCIENCE ENGINEERS, INC
Project Name: Goodman

Attn: Steve DeHope
Project Number: 2558
Project location: 2501 Santa Clara Ave.

Sample I.D.: W/O-3-B
Date Sampled: Aug 14, 1992
Date Analyzed: Aug 21, 1992

Date Submitted: Aug 17, 1992

Method of Analysis: EPA 8240

Detection limit: 5.0 ug/Kg

COMPOUND NAME	CONCENTRATION (ug/Kg)	SPIKE RECOVERY (%)
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	89.2
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	95.5
Trans-1,2-Dichloroethene	N.D.	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	94.6
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	94.8
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	92.1
Benzene	22	-----
Dibromochloromethane	N.D.	-----
Toluene	31	-----
Chlorobenzene	36	-----
Ethylbenzene	40	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	84.0
Dichlorodifluoromethane	N.D.	-----
Freon 113	N.D.	-----
M & P-Xylenes	110	-----
O-Xylene	50	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Priority Environmental Analytical Laboratory

August 20, 1992 PEL # 9208033

AQUA SCIENCE ENGINEERS, INC.

Attn: Steve Dehope
Re: One water and four soil samples for Lead analysis.

Project name: Goodman
Project location: 2501 Santa Clara Ave.
Project number: 2558

Date sampled: Aug 14, 1992 Date submitted: Aug 17, 1992
Date extracted: Aug 18-19, 1992 Date analyzed: Aug 18-19, 1992

RESULTS:

SAMPLE I.D.	Lead (mg/Kg)
SW-4-W	6.0
SW-5-S	6.8
SW-6-N	9.2
STKP-G *	20
Detection Limit	1.0

	Lead (mg/L)
Tank Pit Water	0.2
Blank	N.D.
Detection limit	0.1
Method of Analysis	7420

* Composited soil sample.

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PEL # 9208033

INV # 23006

Aqua Science Engineers, Inc.
1041 Shary Circle, Concord, CA 94518
(510) 685-6700

Chain of Custody

DATE 8-14-92 PAGE 1 OF 1

SAMPLERS (SIGNATURE) (PHONE NO.) (510) 685-6700

PROJECT NAME Goodman NO. 2558

ADDRESS 2501 Santa Clara Ave

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:
Composite W/O 1-5 & W/O 2-W
Composite STKP G-7-10-

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 602/8020)	PURGABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 8240)	BASE/NUETRALS, ACIDS (EPA 625/8270)	OIL & GREASE (EPA 5520 E&F or B&F)	PCB (EPA 608/8080)	PHENOLS (EPA 604/8040)	LUFT METALS (5) (EPA 6010+7000)	PRIORITY POLLUT. (13) (EPA 6010 ICP + 7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC- CAM MET (EPA 1311/1310)	REACTIVITY CORROSIVITY IGNITABILITY	Lead TEL/DMS
W/o 1-5	8-14		S	1		X	X			X		X									
W/o 2-W	8-14		S	1		X	X			X		X									
W/o 3-8	8-14		S	1		X	X			X		X									
SW-4-W	8-14		S	1		X															X
SW-5-S	8-14		S	1		X															X
SW-6-W	8-14		S	1		X															X
STKP-G-9-E	8-14		S	1		X															X
STKP G-7-W	8-14		S	1		X															X
STKP-G-10-W	8-14		S	1		X															X
STKP G E-5	8-14		S	1		X															X
TANK PIT WATER	8-14		W	1		X															X

1. RELINQUISHED BY:	1. RECEIVED BY:	2. RELINQUISHED BY:	2. RECEIVED BY LABORATORY:	COMMENTS:
(signature) (time)	(signature) (time)	(signature) (time)	(signature) (time)	
Diane Sabreen			Victor Duong	
(printed name) 8/17/92 (date)	(printed name) (date)	(printed name) (date)	(printed name) (date)	
Company- ASE	Company-	Company-	Company- PEL 8/17/92 1025	

APPENDIX C

PERMITS

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 510/271-4320

K.T. 8/12/92
Plans placed for 8/14/92

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, CA 94612
Telephone: (415) 874-7237

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction.

One copy of these accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.

Any change or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 48 hours prior to the following required inspections:

_____ Removal of Tank and Piping
_____ Sampling
_____ Final Inspection

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

UNDERGROUND TANK CLOSURE PLAN

*** * * Complete according to attached instructions * * ***

1. **Business Name** _____

   Business Owner Ms. Goodman

2. **Site Address** 2501 Santa Clara Ave., Alameda, CA. 94501

   City Alameda **Zip** 94501 **Phone** (510) 522-4030

3. **Mailing Address** 3239 Thompson Avenue,

   City Alameda, CA **Zip** 94501 **Phone** (510) 522-4030

4. **Land Owner** Ms. Goodman

   Address 2501 Santa Clara Ave. **City, State** Alameda, CA **Zip** 94501

5. **Generator name under which tank will be manifested** _____

   Ms. Goodman

EPA I.D. No. under which tank will be manifested CAC000817384

Fire Department must witness removal of all Underground Tanks, and all State and County Requirements must be met.

By Capt. [illegible] Date 8-12-92

APPROVED JOB PLAN
CITY OF ALAMEDA
BUILDING & INSPECTIONS DEPT.
Building Inspector [signature]
Date 8/14/92

6. Contractor Aqua Science Engineers, Inc.

Address 1041 Shary Circle

City Concord, CA Phone (510) 685-6700

License Type* A ID# 487000

*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. Indicate that the certificate has been received, in addition, to holding the appropriate contractors license type.

7. Consultant Aqua Science Engineers, Inc.

Address 1041 Shary Circle

City Concord, CA Phone (510) 685-6700

8. Contact Person for Investigation

Name Steve De Hope Title Construction Supervisor

Phone (510) 685-6700

9. Number of tanks being closed under this plan 4

Length of piping being removed under this plan

Total number of tanks at facility 4

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

** Underground tanks are hazardous waste and must be handled ** as hazardous waste

a) Product/Residual Sludge/Rinsate Transporter

Name Waste Oil Recovery EPA I.D. No. CAD000626515

Hauler License No. DOHS 843 CA1 Pud-106399 License Exp. Date 4/92

Address 6401 Leona Street

City Oakland State CA Zip 94605

b) Product/Residual Sludge/Rinsate Disposal Site

Name Demenno Kerdoon EPA I.D. No. CAT080013352

Address 2000 N. Alameda

City Compton State CA Zip 90221

c) Tank and Piping Transporter

Name Erickson, Inc. EPA I.D. No. CAD009466392

Hauler License No. 0019 License Exp. Date 5/92

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name Erickson, Inc. EPA I.D. No. CAD009466392

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

11. Experienced Sample Collector

Name Steve De Hope

Company Aqua Science Engineers, Inc.

Address 1041 Shary Circle

City Concord State CA Zip 94518 Phone (510) 685-6700

12. Laboratory

Name Priority Environmental Labs

Address 1764 Houret Ct.

City Milpitas State CA Zip 95035

State Certification No. 1708

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

If yes, describe.

14. Describe methods to be used for rendering tank inert

Tank will be inerted introducing dry ice into the tank at a rate of at least 1.5 lbs of dry ice per 100 gallons of tank volume. LEL will be checked prior to actual tank removal.

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 plugged.

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

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, ground-water, etc.)	Location and Depth of Samples
Capacity	Use History (see instructions)		
(3) 5,000	Gasoline	Soil and/or ground water if present.	Two feet below each end of the tank.
(1) 500	Waste oil	Soil and/or ground water if present.	Two feet below the center of the tank.

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

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated) 200 Yards	**Sampling Plan** Drive a 6" x 2" brass tube into the soil at each end of the tank, seal ends w/ aluminum foil and plastic caps. Chill in cooler with ice. Transport to the laboratory under chain of custody procedures and sample as previously described.

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

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.

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
Gasoline ✓	5030	GC-FID	1.0 ppm
BTEX ✓ ✓	8020	8240	.005 ppm
Diesel ✓	3510	8015	1.0 ppm
Volatile Organ. ✓	524/2	524/2	
Oil & Grease ✓	5520	E&F	
Lead ✓	TEL/DHS		50 ppb

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer Ohio Casualty Group

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 report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

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

I declare that to the best of my knowledge and belief 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 an approval from the Department of Environmental Health 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.**

Signature of Contractor

Name (please type) Craig Hertz

Signature Craig Hertz

Date August 5, 1992

Signature of Site Owner or Operator

Name (please type) Helen Goodman

Signature Helen Goodman

Date August 5, 1992

: REMOVE 4 UNDERGROUND TANKS

Applicant : AQUA SCIENCE ENGINEERS, INC., HOURS OF [redacted]
MONDAY - FRIDAY 7 A.M. TO 7 P.M.
SATURDAY & SUNDAY 8 A.M. TO 5 P.M.

510-685-6700

Project Title : REMOVE 4 UNDERGROUND TANKS

Signature

Project Desc. : REMOVE 4 UNDERGROUND TANKS

CONTRACTOR : AQUA SCIENCE ENGINEERS, INC Lic # 487000 [redacted]
[redacted] SHARY CIRCLE
CONCORD, CA 94518

Description	Units	Fee/Unit	Ext fee	Data
Permit Filing Fee	0		[redacted]	
Fee - Misc.	20	20.00		
Micro-fiche Fee	5.50		5.50	

*** Fees Required *** *** Fees Collected & Credits ***

Account No	Receipt No	Date	Payment
001-300-4240-3745	R004794	08/13/92	[redacted]
001-300-4220-3340	R004794	08/13/92	20.00
001-300-4240-3305	R004794	08/13/92	5.00
001-220-0000-2239	R004794	08/13/92	.50
001-300-4240-3792	R004794	08/13/92	5.50
TOTAL THIS DATE		*********	42.00

Fees: 42.00
Adjustments: .00
Total Fees: 42.00

Total Credits: .00
Total Payments: 42.00
Balance Due: .00

NOTICE & AGREEMENT:* THERE IS A 15 DAY APPEAL PERIOD FOR ALL DESIGN REVIEW APPROVALS. I AM REQUESTING THAT THE BUILDING PERMIT BE ISSUED PRIOR TO THE EXPIRATION OF THE APPEAL PERIOD. I UNDERSTAND THAT ANY WORK STARTED BEFORE THE EXPIRATION OF THE APPEAL PERIOD IS DONE AT MY OWN RISK. I AGREE TO MAKE [redacted] MODIFICATIONS TO THE PROJECT THAT MAY BE REQUIRED AS A RESULT [redacted] THE APPEAL PROCESS.

[redacted]

Permit Application and Job Notification Form

Construction Demolition Trenches Excavations Buildings Structures Falsework Scaffolding

State of California
Department of Industrial Relations
Division of Occupational Safety & Health

District (Name) _____
Date _____
No. _____

Sections 6500, 6501 and 6502 of the California Labor Code require that certain activities which by their nature involve substantial risk of injury may not be performed without a permit issued by DOSH. The Labor Code requires that the applicant supply, and that the Division review, information necessary to evaluate the safety of the worksite subject to permit requirements. A permit will not be issued until evidence has been demonstrated that the place of employment will be safe and healthful.

"Applicant" refers to the employer applying for the Permit

Employer Aqua Science Engineers, Inc.
Address: 1041 Shary Circle,
Concord, CA 94518
Phone: (510) 685-6700

Project Safety Contact: Steve De Hope
Employer's Representative. Steve De Hope
Title & Phone No: Construction SuperV, 685-6700
Employer's State Contractor's License No.: 487000

Check Applicable Items: "Applicant" refers to the employer applying for the Permit.

Applicant is:
____ General Building Contractor
____ General Engineering Contractor
__X__ Specialty Contractor
Specialty Contractor Type ____ - _____
____ Other: _____

____ General Contractor Option
Initial this blank if applicant elects to assume responsibility for obtaining a single permit to cover one multi-employer project, e.g., a high-rise construction project. The duties of employers at the site to obey safety and health laws are not changed by this election. A list of employers on site will be attached by the Division to this application and the list will be updated as necessary.

Type of Permit Sought:

____ **Annual**
____ **Single Project**
__X__ **Job Start Notification Only**

____ **Multiple Project.** (If projects to be covered are similar in all important aspects; work is performed by the same employer; and informtion concerning each project covered is provided.)

For:
____ **Construction of:** ____ Building ____ Structure
____ **Demolition of:** ____ Building ____ Structure
__X__ Trench and/or Excavation
____ Tower Crane Erection, Dismantling
____ Scaffolding and/or Falsework and/or Vertical Shoring

Any permit based on this application is issued with the understanding that the applicant has knowledge of occupational safety and health orders applicable to the project(s) described in this application and attachments, and that the applicant and supervising personnel will take special care to insure compliance with safety orders reviewed with the applicant by the Division in the application process.

Issuance of the permit is also conditioned upon the following:

1) Upon initiation of any new project not described in this application, the holder of an annual permit will provide the Division with a completed Project Description Form describing the new project prior to the start of work, preferably at least one week in advance of start-up date. A phone call may be used to meet the deadline but will not be considered valid notice unless followed in writing by mailing a completed Project Description Form.
2) The applicant has implemented a writen accident prevention program and Code of Safe Practices which meet the requirements of 8 California Administrative Code, Section 1509.
3) The Division will be notified of significant changes in information provided with this application if such changes might affect the safety of the activity.
4) The applicant understands that, under the permit program, DOSH schedules routine inspections by authorized personnel for the purpose of verifying that holders of permits are meeting their obligation to provide a safe work place for their employees. The Division reserves the right to revoke a permit if it is unable to promptly verify compliance with the terms and conditions of the permit and its issuance.
5) The applicant understands that failure to comply with any of the above listed conditions for obtaining a permit could result in denial, suspension or revocation of the permit. Employers may appeal these actions to the Director of the Department of Industrial Relations (California Labor Code, Section 6500 et. seq., and 8 California Administrative Code, Section 341).

Is the applicant conducting any activities to be covered by this permit application in partnership or joint venture with any other persons or corporations conducting activities requiring permits? Yes ____ No __X__ If "yes" give details: _____

Have any permits for any project to be covered by this permit application previously been applied for or obtained? Yes ____ No __X__ If "yes," when _____; from what district office _____ in whose name _____

Permit Application and Job Notification Form (Continued)

Specific jobsite location Corner of Everett & Santa Clara Avenue

Nearest major cross street Everett

City Alameda

County Alameda

Name and title of jobsite supervisor Steve De Hope

Field phone (510) 685-6700

Office phone (510) 685-6700

No. of employees 2

Starting date August 14, 1992

Anticipated completion date July 14, 1992

High Voltage Lines in Proximity X No ___ Yes

TYPE OF JOB

INSTRUCTIONS: THE APPROPRIATE ITEM(s) must be completed and signed by a person knowledgeable about the project, for each jobsite to be covered by a permit. Please fill in or check off blanks where appropriate

Construction of: ___ Building ___ Structure Type: ___ ___ Steel Frame ___ Tiered ___ Concrete ___ Tilt-up ___ Wood frame ___ Liftslab ___ Precast ___ Slip Form ___ Depth ___ No. of Stories

Description ___

Scaffolding Height ___ ___ Metal ___ Wood ___ Metal over 125 ft. ___ Wood over 60 ft (require design by California Registered Civil Engineer, plans at site.) [CSO 1643, 1644(c)(7)]

Job description ___

Falsework/Vertical Shoring Maximum Height ___ Maximum Span ___ Material ___

Job description ___

Tower Crane Erection/Dismantling

Maximum Radius ___ Capacity ___ Make and model of crane ___

Foundation and/or support(s) for crane on this site designed/constructed by (see Section 1584(a), CSO): ___

Will crane be stepped or jumped as construction proceeds (see CSO Section 1584.1) ___Yes ___No

Name of crane certifier ___

Demolition of: ___ Building Structure Type: ___ Height ___ No. of Stories ___

___ Steel frame ___ Wood frame ___ Concrete ___ Demolition Ball ___ Clam ___ Explosives

___ Loader/tractors Other ___

CSO Article 31 - Demolition

Excavations/Trenches Depth range (min./max) 20' Width range (min./max.) 20' Total Length 20'

Ground Protection Method: Shoring ___ Sloping X Trench Shield ___ Alternate ___

Project description: Underground Storage tank removal

Division Use Only

Fee ___

Paid ___

Approved ___

Conditions ___

Other ___

I hereby certify that, to the best of my knowledge, the above information and assertions are true and correct and that I/the applicant have knowledge of and will comply with the foregoing.

Signature: Craig Hertz Craig Hertz

Title: Project Manager

Date: August 7, 1992

ACKNOWLEDGMENT

Bay Area Air Quality Management District acknowledges receipt of your Tank Removal/Contaminated Soil Excavation Notification Form received on 8/7/92 BLy.

SCHEDULED STARTUP DATE August 14, 1992

VAPORS REMOVED BY:

[ ] WATER WASH

[X] VAPOR FREEING (CO^2)

[ ] VENTILATION

SCHEDULED STARTUP DATE _____

STOCKPILES WILL BE COVERED? YES____ NO____

ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW):

_____

(MAY REQUIRE PERMIT)

CONTRACTOR INFORMATION

NAME Aqua Science Engineers, Inc. CONTACT Steve De Hope

ADDRESS 1041 Shary Circle PHONE (510) 685-6700

CITY, STATE, ZIP Concord, CA 94518

CONSULTANT INFORMATION
(IF APPLICABLE)

NAME _____ CONTACT _____

ADDRESS _____ PHONE ( ) _____

CITY, STATE, ZIP _____

FOR OFFICE USE ONLY

DATE RECEIVED FAX 8/7/92 BY BLy (init.)

DATE POSTMARKED _____ BY _____ (init.)

CC: INSPECTOR NO. 487 DATE 8/10/92 BY BLy (init.)

UPDATE: CONTACT NAME _____ DATE _____ BY _____ (init.)

BAAQMD N # _____ DATA ENTRY _____

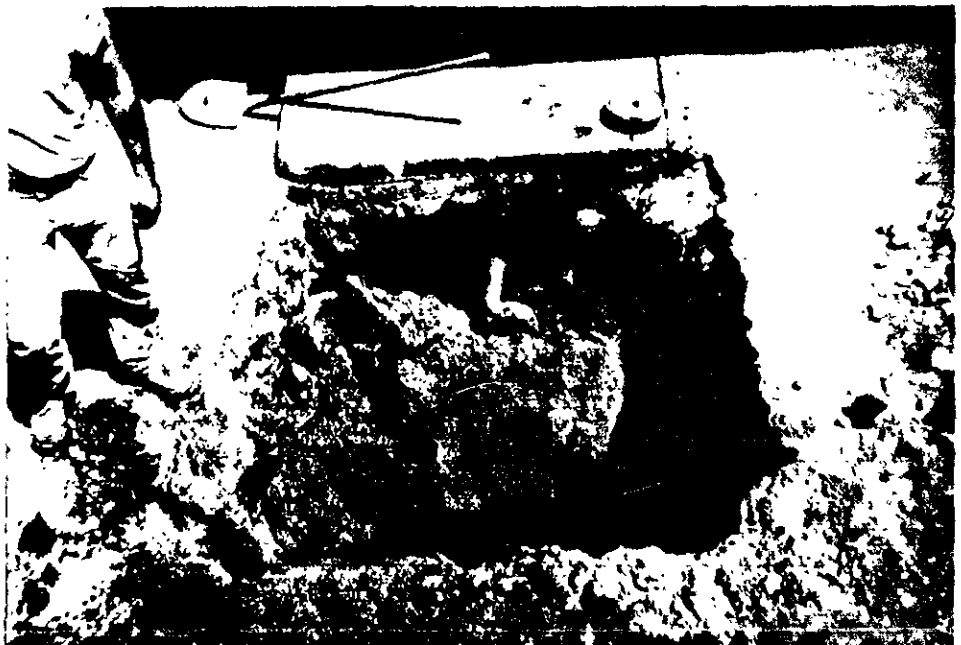
See reverse for instructions

APPENDIX D

PHOTOGRAPHS

"TANK A"
(5,000 gallon gasoline)
Showing various holes
in tank sidewall above
the groundwater interface

"TANK B"
(5,000 gallon gasoline)
Showing crack in
southwest end of tank



"TANK D"
(Waste-Oil)
Prior to being
removed from the pit