




August 31, 1992

Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Fourth Floor
Oakland, CA 94612


CALIF. REG. WATER
SEP 10 1992
QLTY. CONTROL BOARD

ATTENTION: Mr. Rich Hiatt ✓

SUBJECT: Final Report - Underground Storage Tank Removal
Linford Air & Refrigeration Company
2850 Poplar Street
Oakland, California 94608

01-6913


Dear Mr. Hiatt:

Please find attached a copy of Aqua Science Engineers, Inc's. (ASE) Final Report regarding Linford Air & Refrigeration in Oakland, California. This report details the tank pulling operations of a 5,000 gallon steel diesel tank and a 10,000 gallon fiberglass gasoline tank, the sampling and analysis of the excavated soils, and the backfilling and compaction of the former tank pits.

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

Attachment: Final Report

cc: Mr. Jack Larkin, Linford
Ms. Valida Holmes, City of Oakland Fire Prevention Bureau
Ms. Susan Hugo, Alameda County Health Care Services Agency



5300 Old Crow Canyon Road, San Ramon, CA 94583
510-820-9391

August 31, 1992

**FINAL REPORT
UNDERGROUND STORAGE TANK REMOVAL**

at

**Linford Air & Refrigeration Company
2850 Poplar Street
Oakland, California 94608**

Submitted by:

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

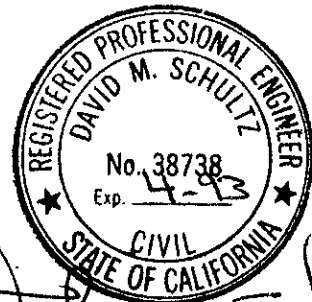


TABLE OF CONTENTS

1.0	INTRODUCTION
2.0	PERMITS
3.0	LIQUID REMOVAL
4.0	MOBILIZATION, EXCAVATION AND REMOVAL
5.0	SAMPLING AND ANALYSIS
6.0	BACKFILLING AND RESURFACING
7.0	DISCUSSION AND CONCLUSIONS
FIGURE 1 -	SITE PLAN
FIGURE 2 -	GROUNDWATER EXTRACTION WELL LOCATIONS MAP
APPENDIX A -	PERMITS
APPENDIX B -	HAZARDOUS WASTE MANIFESTS
APPENDIX C -	LABORATORY ANALYSIS and CHAIN OF CUSTODY
APPENDIX D -	UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE FORM

1.0 INTRODUCTION

This report documents the removal and related activities of the underground storage tank closure performed at Linford Air & Refrigeration (Linford), 2850 Poplar Street, Oakland, California. As of the date of tank removal, the property is reportedly owned by Linford. The following tanks were removed from the site; one (1) fiberglass 10,000 gallon gasoline underground storage tank and one (1) steel 5,000 gallon diesel underground storage tank. The scope of services provided by Aqua Science Engineers, Inc. (ASE) is in accordance with ASE proposal No. 92-032 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 Oakland Fire Prevention Bureau, the Alameda County Health Care Services Department, CAL-OSHA, and the Bay Area Air Quality Management District. Copies of the permits, applications, forms and notification documents are contained in Appendix A.

3.0 LIQUID REMOVAL

The two tanks contained approximately 900 gallons total of product along with approximately 50 gallons of rinsewater used to clean the tanks insides. The liquid was pumped out and transported to the Demmenno Kerdoon Facility in Compton, California under a hazardous waste manifest by Waste Oil Recovery (WORS), a licensed hazardous waste hauler. See Appendix B for copies of manifest.

4.0 MOBILIZATION

ASE mobilized for on-site work on July 23, 1992. Project personnel included: Steve De Hope- Construction Manager, Field Personnel- Steve LaBare and John Sabia.

4.1 EXCAVATION

On July 23, ASE personnel began tank pulling exercises by sawcutting the perimeter of the tank pit to a depth of 7 inches. On the morning of July 24, ASE personnel removed the concrete cover, stockpiled the concrete on site, and began excavation.

4.1a: 5,000 Gallon Diesel Tank

Due to the location of the underground tanks (See Figure 1 for location of tanks), ASE began excavation of the 5,000 gallon diesel tank prior to addressing the 10,000 gallon gasoline tank. Approximately 6 inches of A.C. was removed which exposed approximately 6-8 inches of base rock followed by a silty, sandy clay backfill material. Native material consisted of a stiff clay. As the tank excavation activities continued, the associated piping was removed. Groundwater was encountered in the tank pit at approximately 11 feet. Soils excavated from the diesel tank pit were heavily stained and a strong petroleum odor was evident. Air sampling was conducted throughout excavation activities as well as Lower Explosive Limits (LEL) readings being taken. No action levels were encountered; however, ASE personnel and Linford representatives took all necessary precautions to ensure proper ventilation was available in adjacent shop areas.

4.1b: 10,000 Gallon Fiberglass Gasoline Tank

ASE personnel removed approximately 6 inches of concrete reinforced with #4 rebar in preparation to excavate the tank. As with the previous tank, all associated piping was removed as the tank was excavated. The original tank pit backfill (what ASE describes as native material) was 3/8-inch, rounded pea gravel to 6 inches below grade. ASE excavated the pea gravel and stockpiled it on the concrete deck adjacent to the tank pit. The pea gravel was moist with groundwater and a petroleum odor was apparent. Groundwater was measured at approximately 11 feet. Air monitoring was conducted at the edge of the excavation; once again no action levels were reached.

4.2 TANK REMOVAL

~~Prior to tank removal on the morning of July 27, 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~~

the Alameda County Health Care Services Department Inspector - Mr. Brian Oliva. The Oakland Fire Prevention Bureau was notified, but had not yet arrived at the time scheduled for tank removal activities. Inspector Oliva gave authorization to ASE to proceed with the tank removal procedures. After verifying a safe LEL of the tank atmosphere, the first vessel, the 5,000 gallon diesel tank, was removed from the excavation by use of a 75-ton crane. The tank was placed on plastic and cleaned by hand to expose the tank surface. The diesel tank, constructed of 5/16 inch steel plate with welded seams, appeared to be in good condition. From there, the vessel was hoisted and placed on a 40 foot trailer and transported and disposed of by Erickson, a licensed hazardous waste hauler, to the Erickson Tank Disposal Facility in Richmond, CA, on the date of removal. Copies of the Hazardous Waste Manifest and Tank Disposal Certificate are contained in Appendix B. Upon removal of this vessel, groundwater was exposed and encountered at approximately 11 feet; floating product was present, and a heavy petroleum odor was apparent. In an attempt to reduce odor levels and to remove as much of the free-floating product, ASE contracted the services of WORS, a licensed hazardous waste hauler. WORS pumped the liquid out to a predetermined level as prescribed by ASE personnel, Mr. Steve De Hope, and Mr. Oliva. See the hazardous waste manifest regarding the extracted liquid in Appendix B.

ASE then proceeded to begin tank removal activities on the 10,000 gallon fiberglass tank. The Fire Department representative was still not present. Steve De Hope and Mr. Oliva measured the LEL levels of the vessel and found levels to be higher than the accepted to be able to remove the tank. Additional dry ice was added to the vessel and was allowed to purge. At approximately 1:00 p.m., Inspector Valida Holmes with the Oakland Fire Prevention Bureau arrived on site. The LEL was once again measured in the presence of both agencies, and was verified as being within safe levels to continue tank removal activities. The tank was lifted from the pit by use of a 75-ton crane, and placed on plastic; it was cleaned by hand to expose the tank surface. Upon thorough inspection, a pin hole was found in the rib of the tank sidewall. The tank was hoisted and strapped to a truck and transported and disposed by Erickson. An Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report form was submitted, see Appendix D. Groundwater was encountered at approximately 10 feet, 2 feet of standing water was measured at the tank pit bottom. Up to 2 inches of product was encountered floating on the groundwater; heavy petroleum odors were present upon tank removal from the pit. Groundwater in the pit was pumped out as in the previous section. After necessary

sampling procedures were performed, a 3 feet thick layer of pea gravel was placed in the pit on top of the groundwater to help prevent the discharge of additional petroleum odors.

4.3 OVER EXCAVATION

On August 3, 1992, ASE personnel remobilized onto the site to perform an over excavation of the sidewalls and bottom of the 5,000 gallon diesel tank pit. Approximately 40 cubic yards of contaminated soil was removed and stockpiled separately from the existing overburden stockpiles. The stockpile, as were all stockpiles, was covered with plastic and secured

5.0 SAMPLING AND ANALYSIS

5.1 Tank Pit Areas

Four soil samples were extracted from the tank pits, two from the diesel tank pit and two from the gasoline tank pit. The soil samples were collected by ASE personnel, Construction Supervisor, Steve De Hope, trained in sampling protocol by a registered civil engineer. From the diesel tank pit, sample DSW-SW was collected 8 feet below ground surface from the sidewall of the southwest corner of the tank pit. Also in the diesel tank pit, sample DSW-NW was collected 8 feet below ground surface from the sidewall of the northwest corner of the pit. From the gasoline tank pit, sample GSW-S was collected 9 feet below ground surface from the sidewall of the south end corner of the pit. Also from the gasoline tank pit, sample GSW-NE was collected 9 feet below ground surface from the northeast corner of the tank pit (see Figure 1 for locations of tank pits and sample locations). Soil samples were secured using aluminum foil, capped, and sealed with tape. All samples were put on ice and transported directly to the analyzing laboratory under chain of custody procedures.

The 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). Analysis results are shown below (Table One) and hard copies can be found in Appendix C.

TABLE ONE: SOIL SAMPLE RESULTS

Sample No.	TPH Gasoline (ppm)	TPH Diesel (ppm)	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Total Xylenes (ppb)
DSW-NW	1300	34	200	5300	3200	1600
DSW-SW	---	88	---	---	---	---
GSW-NE	330	ND	1800	3800	3000	11000
GSW-S	2000	---	2600	5800	3400	18000
STKP-1-A*	1700	120	1800	4500	3300	17000

* - Composited sample

ND - Non Detectable at analytical method limits

ppm - parts per million

ppb - parts per billion

5.2 Soil Stockpiles

The two soil stockpiles, 1A and 2B (See Figure 1 for location), were sampled by ASE personnel Steve DeHope. Four samples were collected from each soil stockpile, and were secured and delivered as described in the previous section. Upon receipt of the samples, the laboratory composited the four samples collected from stockpile 1A and made one representative sample for analysis (STKP-1-A). The lab equally composited samples from 2B into one sample for analysis (STKP 2B). Analysis conducted on the composited samples was as described in the previous section. Analytical results can be found in the following table (Table Two), hard copies can be found in Appendix C. Stockpiled soils remained on site and covered pending profiling procedures necessary for disposal.

TABLE TWO: STOCKPILED SOIL SAMPLE RESULTS

Sample No.	TPH Gasoline (ppm)	TPH Diesel (ppm)	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Total Xylenes (ppb)
STKP 1-A*	1700	120	1800	4500	3300	17000
STKP 2B*	3000	1100	5500	8900	5900	21000

* - Composited sample

ND - Non Detectable at analytical method limits

ppm - parts per million

ppb - parts per billion

In total, approximately 100 tons of material were removed from the excavation, stockpiled and sampled.

5.0 BACKFILLING AND RESURFACING

Prior to backfilling ASE proposed to LINFORD that placement/construction of groundwater extraction wells in each of the tank pits would be beneficial at the time of an open tank excavation for future (if necessary) groundwater remediation. Upon LINFORD approval, ASE installed 4", 0.020 slotted PVC casing horizontally at the bottom of the tank pit (see Figure Two for details). The horizontal piping was connected to a solid 4" PVC casing riser installed vertically to ground level. The wells were capped and a 2' x 2' steel well cover was installed over the riser to allow for future access to the wells for groundwater extraction. The well in the gasoline tank pit is located in a very productive aquifer and could be useful as part of a groundwater 'pump and treat' system if necessary. The well in the diesel tank pit, located in a less productive water zone, may only be useful as a skimming-type well; the recovery of extracted water during excavation in the diesel pit was not as productive as in the gasoline tank pit.

Once the groundwater extraction wells were installed, both the diesel and gasoline tank pits was backfilled with 3/8 inch, rounded, washed pea gravel to approximately 2 feet below grade in the diesel tank pit; approximately 8 inches below grade in the gasoline tank pit. Class II base rock was installed to within approximately 6 inches of the ground surface. A 6 inch concrete cap was laid to match the existing surface.

6.0 DISCUSSION AND CONCLUSIONS

One fiberglass 10,000 gallon gasoline underground storage tank and one steel 5,000 gallon diesel underground storage tank were removed from the site 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 excavation sidewalls 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 diesel tank 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. A copy of this form is in Appendix D.

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 Linford. If you have any questions or comments, please feel free to give us a call at (510) 820-9391.

Respectfully submitted,

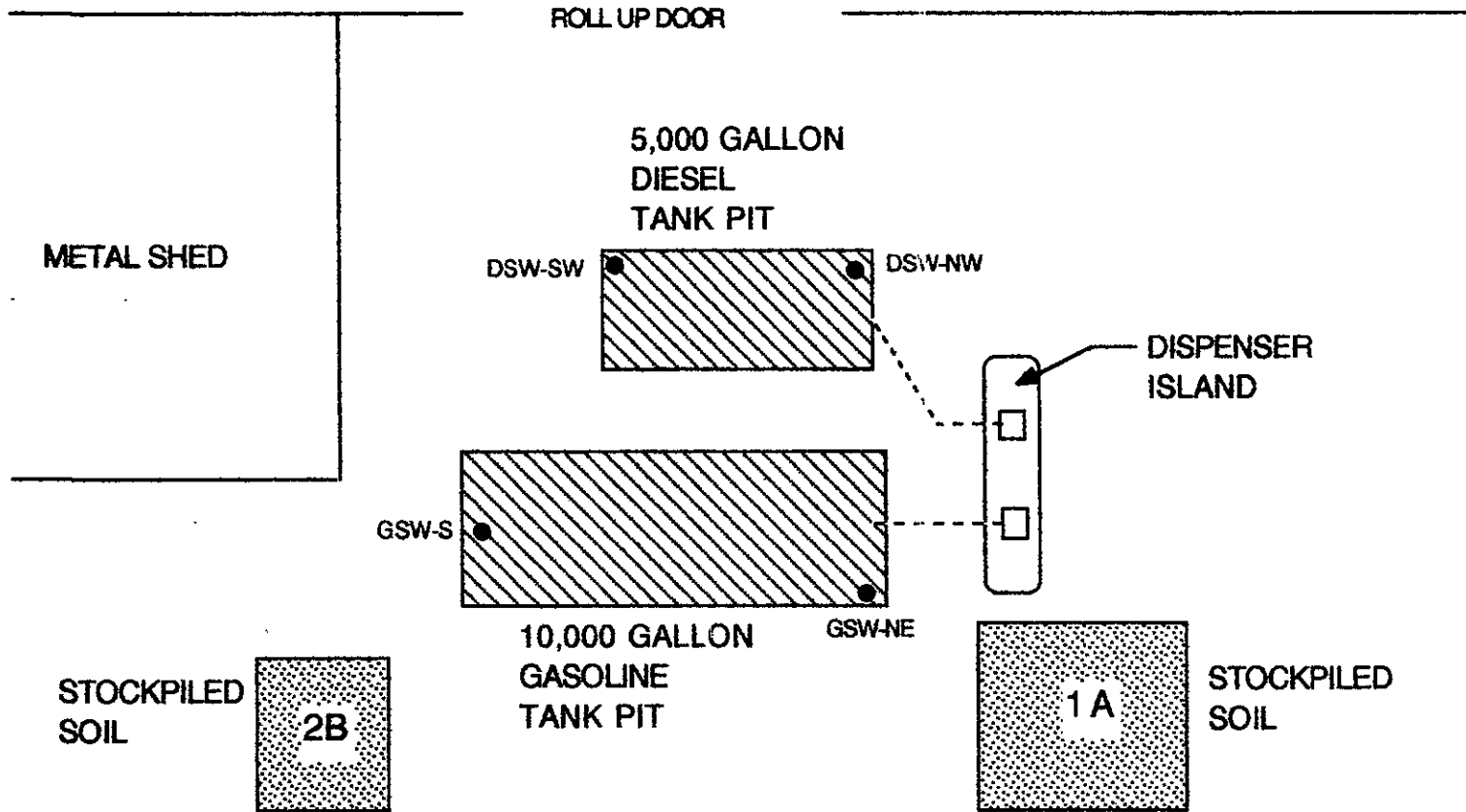
AQUA SCIENCE ENGINEERS, INC.



David Allen
Project Engineer


Enclosures: Figure 1
 Figure 2
 Appendices A-D


LINFORD AIR & REFRIGERATION WAREHOUSE



LEGEND

GSW-NE ● Soil Sample Location

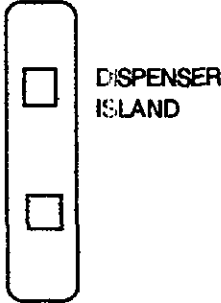
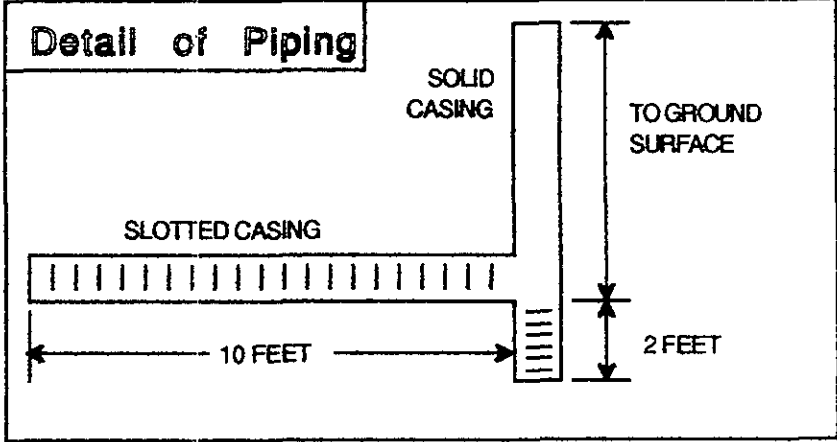
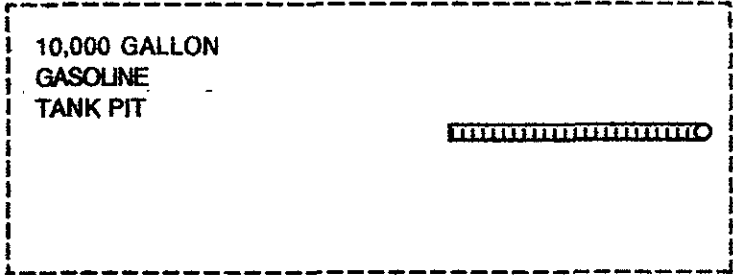
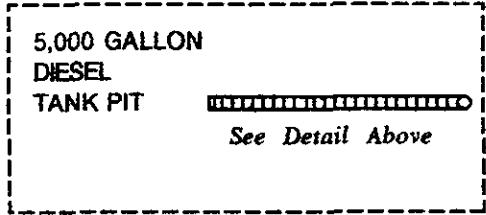
 Tank Pit

 Stockpiled Soil

AQUA SCIENCE ENGINEERS

Site Plan
Linford Air & Refrigeration
Oakland, CA

————— *Figure 1* —————



AQUA SCIENCE ENGINEERS
Groundwater Extraction Well Location Map
Linford Air & Refrigeration Oakland, CA
<i>Figure 2</i>

APPENDIX A

PERMITS

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

Shirley

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 subject to the issuance of any required building permits for construction. One copy of these accepted plans must be 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 by the contractor 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.

THIS IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE RULES.

*note site safety plan
 must adhere to requirements
 set forth in 29 Jan 1910.120
 note page 5 changes*

UNDERGROUND TANK CLOSURE PLAN

*** Complete according to attached instructions ***

1. Business Name Shirley Air & Refrigeration Co
 Business Owner Robert Shirley
 2. Site Address 2850 Poplar St.
 City Oakland Zip 94608 Phone (510) 834-2430
 3. Mailing Address 2850 Poplar St.
 City Oakland Zip 94608 Phone (510) 834-2430
 4. Land Owner Robert Shirley
 Address 2850 Poplar St. City, State Oakland, CA Zip 94608
 5. Generator name under which tank will be manifested _____
Shirley Air & Refrigeration
- EPA I.D. No. under which tank will be manifested CAE 000809488

Address 1041 Sherry Circle
City Concord Phone (510) 685-6700
License Type A ID# 487000

Effective January 1, 1992, Business and Professional Code Section 7836.7 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 Sherry Circle
City Concord Phone (510) 685-6700

8. Contact Person for Investigation
Name Craig Hertz Title Project Engineer
Phone (510) 685-6700

9. Number of tanks being closed under this plan 2
Length of piping being removed under this plan _____
Total number of tanks at facility 2

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. CAD0000626515
^{DOHS-843}
Hauler License No. Cal. PWD-106399 License Exp. Date 4/92
Address 6401 Leona St.
City Oakland State CA Zip 94605

b) Product/Residual Sludge/Rinsate Disposal Site

Name Deimanns Kerdon EPA I.D. No. CAT080013352
Address 2000 N. Alameda
City Compton State CA Zip 90221

Name Erickson, Inc. EPA I.D. No. CA0009466392
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. CA0009466392
Address 255 Parr Blvd.
city Richmond State CA zip 94801

11. Experienced Sample Collector

Name Craig Hestz
Company Acia Science Engineers, Inc.
Address 1041 Sherry Circle
city Concord State CA zip 94518 Phone (510) 685-6700

12. Laboratory

Name Priority Environmental Labs
Address 1764 Houret Court
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 ~~EXHAUSTION~~ ~~VENTING~~

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

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)		
10,000 gallons	Kerosene	Soil and/or groundwater if present.	2 feet below the bottom of the tank
5,000 gallons	Diesel	Soil and/or groundwater if present	2 feet below the bottom 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

<p>Stockpiled Soil Volume (Estimated)</p> <p>200 yards cubic</p>	<p align="center">Sampling Plan</p> <p>Drive a 6"x2" brass tube into the soil at each end of the tank, seal ends w/ Aluminum foil and plastic caps, Chill in cooler with blue ice. Transport to the laboratory under chain of custody procedures and sample for TPH-Baseline, BTEX and Diesel.</p>
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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
TPH-Baseline BTEX TPH-Diesel	6030 8020 3550	GC FID 8240 GC-FID	10 ppm .005 ppm 10 ppm

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

18. Submit Worker's Compensation Certificate
 Name of Insurer Ohio Cavalry 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 6/18/92

Signature of Site Owner or Operator

Name (please type) John F. Larkin

Signature J F Larkin

Date 6-18-92

Excavation Permit Granted _____ No. _____

CITY OF OAKLAND

Tank Permit

Permit to Excavate and Install, Repair, or Remove Inflammable Liquid Tanks, No. 9595

Oakland, California, July 20, 1992

PERMISSION IS HEREBY GRANTED TO ~~install~~ remove ~~repair~~ Gasoline tank and excavate commencing _____ foot inside PROPERTY

on the east side of Poplar Street Street adjacent to _____ of _____ Building Street

Home No. 2850 Poplar Street Street Avenue Present Storage Gasoline Street Avenue

Owner Linford air & Refrigeration Address 2850 Poplar St., Oakland Phone 834-2430

Applicant Craig Hertz (Azua Science) Address 1041 Shary Circle, Concord 94518 Phone 685-6700

Disposition of street (sidewalk) surface to be disturbed X Number of Tanks 2 Capacity 15,000 Gallons, each.

Remarks: Azua Science Engineers, inc. is the contractor.

This Permit is granted in accordance with existing City Ordinances.
Owner hereby agrees to remove tanks on discontinuance of use or when notified by the City Authorities.
When installing, removing or repairing tanks, no open flame to be on or near premises.

Approved _____

Approved _____
Drainage Division Engineering Dept.

EXCAVATING PERMIT

Issued in accordance with Ord. No. 278 CMS, Sec. 4-2.04

_____ square feet of digging or removal granted.

The receipt of \$ _____ special deposit is hereby acknowledged.

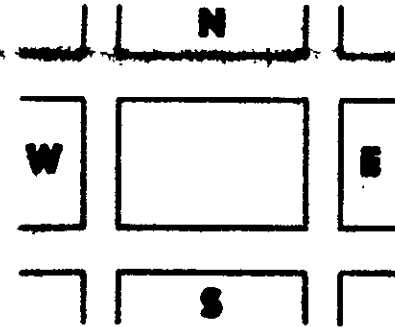
GENERAL DEPOSIT.

BUREAU OF PERMITS AND LICENSES.

Inspection Fee Paid - - - - - \$ 120.00 ck#014919 rec#669863

Sanctioned by G. M. Johnson
FIRE PREVENTION BUREAU

THIS PERMIT MUST BE LEFT ON THE WORK AS AUTHORITY THEREFOR.



CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Inspected and passed on _____ 19____

By _____
Fire Marshal

NOTICE

Before Covering Tanks, Above Certificate Must Be Signed.
When ready for inspection notify Fire Prevention Bureau, 278-3851

CITY OF OAKLAND
REPORT OF FIRE INSPECTION

ENGINE CO

ADDRESS 2850 Poplar St.

NAME Aqua Science Engineers

GENERAL INSPECTION PERMIT HAZARD NOTED HAZARD ABATED
OTHER

NOTICE LEFT LETTER 1st NOTICE 2nd NOTICE FINAL

DATE	VIOLATION	O.F.C.	CONTACTED
7-27-92	WITNESSED TANK Pull: (2 TANKS)		
	1 Tank 10,000 gal. LEL: 7.4 O ₂ : 1.4		
	One hole in tank (water leaking out)		
	1 Tank 5,000 gal. LEL: 7.4 O ₂ : 7.4		
	No Holes in Tank		

Witnessed by "K. Wick" 11/10/92
 CHIEF WITNESS: 309175

A REINSPECTION WILL BE MADE WITHIN _____ DAYS.

FIRE PREVENTION BUREAU PHONE 235-2851

INSPECTOR Wanda Holman

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: Craig Hertz
 Employer's Representative: Steve De Hope
 Title & Phone No: Project Engineer 510-685-6700
 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
 Specialty Contractor
 Specialty Contractor Type Haz
 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
 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 information concerning each project covered is provided.)

For:

- Construction of: Building Structure
 Demolition of: Building Structure
 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:

- 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.
- The applicant has implemented a written accident prevention program and Code of Safe Practices which meet the requirements of 8 California Administrative Code, Section 1500.
- 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 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 If "yes," when _____, from what district office _____ in whose name _____

Permit Application and Job Notification Form (Continued)

Specific jobsite location <u>West side of parking lot</u> on East side of building _____	Field phone <u>510-409-3536</u>
Nearest major cross street <u>Peralta Street</u>	Office phone <u>510-685-6700</u>
City <u>Oakland</u>	No. of employees <u>3</u>
County <u>Alameda County</u>	Starting date <u>7/24/92</u>
Name and title of jobsite supervisor <u>Steve De Hope</u>	Anticipated completion date <u>7/28/92</u>
	High Voltage Lines in Proximity <input checked="" type="checkbox"/> No <input type="checkbox"/> 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) 12' Width range (min./max.) 10' Total Length 8'
 Ground Protection Method: Shoring _____ Sloping Trench Shield _____ Alternate _____
 Project description: Underground Storage Tank Removal

Division Use Only

Fee _____
 Paid _____
 Approved _____
 Conference _____
 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 Engineer
 Date: 7/16/92



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

Brue
REGULATION 8, RULE 40
Aeration of Contaminated Soil and
Removal of Underground Storage Tanks

NOTIFICATION FORM

Removal or Replacement of Tanks
 Excavation of Contaminated Soil

SITE INFORMATION

SITE ADDRESS <u>2850 Poplar Street</u>	
CITY, STATE <u>Oakland, CA</u>	ZIP <u>94608</u>
OWNER NAME <u>Bob Linford</u>	
SPECIFIC LOCATION OF PROJECT <u>West side of Parking Lot on East side of building</u>	
TANK REMOVAL	CONTAMINATED SOIL EXCAVATION
SCHEDULED STARTUP DATE <u>7/24/92</u>	SCHEDULED STARTUP DATE _____
VAPORS REMOVED BY:	STOCKPILES WILL BE COVERED? YES _____ NO _____
<input type="checkbox"/> WATER WASH	ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW):
<input checked="" type="checkbox"/> VAPOR FREEING (CO ²)	_____
<input type="checkbox"/> VENTILATION	(MAY REQUIRE PERMIT)

CONTRACTOR INFORMATION

NAME <u>Aqua Science Engineers, Inc.</u>	CONTACT <u>Craig Hertz</u>
ADDRESS <u>1041 Shary Circle</u>	PHONE (<u>510</u>) <u>685-6700</u>
CITY, STATE, ZIP <u>Concord, CA 94518</u>	

CONSULTANT INFORMATION

(IF APPLICABLE)

NAME _____	CONTACT _____
ADDRESS _____	PHONE () _____
CITY, STATE, ZIP _____	

FOR OFFICE USE ONLY

DATE RECEIVED FAX <u>7/17/92</u>	BY <u>ply</u> (init.)	RECEIVED
DATE POSTMARKED _____	BY _____ (init.)	JUL 20 1992
CC: INSPECTOR NO. <u>524</u>	DATE <u>7/17/92</u>	AQUA SCIENCE ENG
UPDATE: CONTACT NAME _____	DATE _____	BY <u>ply</u> (init.)
BAAQMD N # _____	DATE ENTRY <u>7/17/92</u>	BY _____ (init.)

APPENDIX B
HAZARDOUS WASTE MANIFESTS

UNIFORM HAZARDOUS WASTE MANIFEST 2. Page 1 of 1

1. Generator's Name and Mailing Address: **502 LINCOLN ST, 950 HIGHLAND, OAKLAND, CA 94612**

2. Generator's Phone: **415 761 2450**

3. Generator's Company Name: **WASTE OIL RECOVERY CORPORATION**

4. Generator's US EPA ID Number: **000000000000000000**

5. Designated Facility Name and Site Address: **DEKREIND KEPTIC IN 2000 N. ALABAMA, OAKLAND, CA**

6. Designated Facility's US EPA ID Number: **000000000000000000**

7. Transporter 1 Name: **WASTE OIL RECOVERY CORPORATION**

8. Transporter 1 US EPA ID Number: **000000000000000000**

9. Transporter 2 Name: **WASTE OIL RECOVERY CORPORATION**

10. Transporter 2 US EPA ID Number: **000000000000000000**

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number): **INDUSTRIAL WASTE OIL NA 2770**

11. US DOT Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
INDUSTRIAL WASTE OIL NA 2770	1	DRUM	00550	KG

15. Special Handling Instructions and Additional Information: **WASTE OIL PROTECTIVE COATING**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this shipment 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: **DAVID KIM** Signature: *[Signature]* Month Day Year: **11/27/98**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **D. KIM** Signature: *[Signature]* Month Day Year: **11/27/98**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **D. KIM** Signature: *[Signature]* Month Day Year: **11/27/98**

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: **D. KIM** Signature: *[Signature]* Month Day Year: **11/27/98**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-6342, WITHIN CALIFORNIA CALL 1-800-424-6343

YELLOW: GENERATOR RETAINS

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CA00080798881110**

2. Generator's Name and Mailing Address
**Bob Linford
2850 Poplar St.**

4. Disposer's Name **560 834 2488 Doherty Co. 94601**

5. Transporter 1 Company Name **Erickson Inc.** 6. Hazard Number **CA0009486392**

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 **CA0009486392**

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
Waste Empty Storage Tank NON-FLAMMABLE Hazardous Waste Solid.	002	TP	10000	g
b.				
c.				
d.				

18. Special Handling Instructions and Additional Information
**Keep away from sources of ignition. Always wear hardhats when unloading drums
US&T, 24 Hr. Contact Name _____ & Phone _____**

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 **K. Linford** Signature **[Signature]** Month _____ Day _____ Year _____

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name **Steve Fleming** Signature **[Signature]** Month **07** Day **27** Year **92**

18. Transporter 2 Acknowledgment 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 _____

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA, CALL 1-800-552-7535

TELEPHONE
(510) 235-1393

CERTIFICATE

NO. 08152

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

CUSTOMER AQUA SCI
JOB NO. 79120

FOR: Erickson, Inc. TANK NO. 9229

LOCATION: Richmond DATE: 07/31/92 TIME: 06:21:19

TEST METHOD: Visual Gastech/1314 SMPX LAST PRODUCT: D

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 permissible 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 than 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: Kibbighes TITLE: _____

INSPECTOR: [Signature]

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 08186

CUSTOMER	AQUA SCI
JOB NO	79120

FOR: Erickson, Inc. TANK NO 9230

LOCATION: Richmond DATE: 08/05/92 TIME: 10:10:28

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 10000 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 permissible 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 *[Signature]* TITLE INSPECTOR *[Signature]*

APPENDIX C
LABORATORY ANALYSIS
and
CHAIN OF CUSTODY SHEETS



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 29, 1992

PEL # 9207053

AQUA SCIENCE ENGINEERS, INC.

Attn: Steve DeHope

Re: Five soil samples for Gasoline/BTEX and Diesel analyses.

Project name: LinFord

Project location: 2859 Poplar St.

Project number: 2551

Date sampled: July 27, 1992

Date submitted: July 28, 1992

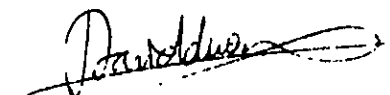
Date extracted: July 28-29, 1992

Date analyzed: July 28-29, 1992

RESULTS:

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
DSW-NW	1300	34	200	5300	3200	16000
DSW-SW	---	88	---	---	---	---
GSW-NE	330	N.D.	1800	3800	3000	11000
GSW-S	2000	---	2600	5800	3400	18000
STKP-1-A *	1700	120	1800	4500	3300	17000
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	87.6%	95.7%	83.5%	84.2%	80.7%	93.3%
Duplicate Spiked Recovery	92.4%	98.9%	95.6%	92.8%	90.9%	101.5%
Detection limit	1.0	1.0	5.0	5.0	5.0	5.0
Method of Analysis	5030 / 8015	3550 / 8015	8020	8020	8020	8020

* Compositated soil sample.


 David Duong
 Laboratory Director



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

August 07, 1992

PEL # 089201

AQUA SCIENCE ENGINEERS, INC.

Attn: Steve DoHopa

Re: One composited soil sample for Gasoline/BTEX and Diesel analyses.

Project name: Lindford Ave.

Project location: Oakland

Date sampled: Aug 04, 1992

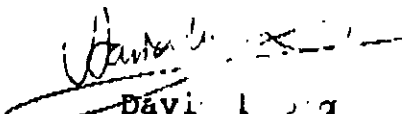
Date submitted: Aug 06, 1992

Date extracted: Aug 06-07, 1992

Date analyzed: Aug 06-07, 1992

RESULTS:

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
STKP 2B	3000	1100	5500	8900	5900	21000
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	87.6%	81.3%	85.4%	90.5%	88.2%%	92.6%
Detection limit	1.0	1.0	5.0	5.0	5.0	5.0
Method of Analysis	5030 / 8015	3550 / 8015	8020	8020	8020	8020


David J. King
Laboratory Director

PEL # 9207053

INV # 22956

Custody

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

DATE 7-27 PAGE 1 OF 1

SAMPLERS (SIGNATURE)

(PHONE NO.)

PROJECT NAME Linford

NO. 2551

ADDRESS 2850 poplar st.

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

Standard Turn Around

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GASOLINE (EPA 5030/8015)	TPH-GASOLINE/STEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	PURGABLE AROMATICS (EPA 602/8020)	PURGABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240)	BASE/NEUTRALS, ACIDS (EPA 625/8270)	OIL & GREASE (EPA 5520 REF or REF)	PCB (EPA 608/8080)	PHENOLS (EPA 604/8040)	LIQUID METALS (5) (EPA 6010+7000)	PRIORITY POLLUT. (13) (EPA 6010 ICP + 7000)	TITLES 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC-CAM MET (EPA 1311/1310)	REACTIVITY CORROSION IGNITABILITY	
DSW-SW	7-27		S	1			X														
DSW-NW	7-27		S	1			X														
GSW-NE	7-27		S	1			X														
GSW-S	7-27		S	1			X														
STXP-1-A	7-27		S	4			X														

1. RELINQUISHED BY:

Steve DeLope

(signature) (time)

[Signature]

(printed name) (date)

A.S.E
Company- 7/28/92

1. RECEIVED BY:

(signature) (time)

(printed name) (date)

Company-

2. RELINQUISHED BY:

(signature) (time)

(printed name) (date)

Company-

2. RECEIVED BY LABORATORY:

[Signature]

(signature) (time)

VICTOR DUONG 10⁴⁵

(printed name) (date)

PEL
Company- 7/28/92

COMMENTS:

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

Chain of Custody

DATE 8/6/92 PAGE 1 OF

SAMPLERS (SIGNATURE) Steve DeHoe (PHONE NO.) 510-685-6700 PROJECT NAME Lindford Air NO.
 ADDRESS Oakland

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:
Composite Sample

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 624/8240)	BASE/NEUTRALS, ACIDS (EPA 625/8270)	PCB (EPA 5520 E&F or B&F)	PCB (EPA 608/8080)	PHENOLS (EPA 604/8040)	LEAD METALS (5) (EPA 6010+7000)	PRIORITY POLLUTE (13) (EPA 6010 ICP + 7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC- CAM WET (EPA 1311/1310)	REACTIVITY CORROSIIVITY IGNITABILITY	
STKP 2B	8/4		S	1		X	X														
STKP 2B																					
STKP 2B																					
STKP 2B																					

1. RELINQUISHED BY: <u>Diane Sobrero</u> (signature) (time) <u>Diane Sobrero 8/6</u> (printed name) (date) Company- <u>A&E</u>	1. RECEIVED BY: (signature) (time) (printed name) (date) Company-	2. RELINQUISHED BY: (signature) (time) (printed name) (date) Company-	2. RECEIVED BY LABORATORY: <u>David B. Case</u> 8/6/92 (signature) (time) <u>DAVID B. CASE 08/06/92</u> (printed name) (date) Company- <u>PEL</u>	COMMENTS:

APPENDIX D

**UNDERGROUND STORAGE TANK
UNAUTHORIZED RELEASE FORM**

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK)/CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		STATE TANK ID # _____	
REPORT DATE 07/28/92		LOCAL CASE # _____		REGIONAL BOARD CASE # _____	
US EPA ID # CAC000809488		NAME OF INDIVIDUAL FILING REPORT Steve DeHope		PHONE (510) 685-6700	
SIGNATURE _____		REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD		COMPANY OR AGENCY NAME Aqua Science Engineers, Inc.	
ADDRESS 1041 STREET Shary Circle CITY Concord STATE CA ZIP 94518					
NAME Robert Lindford		CONTACT PERSON Jack Larkin		PHONE (510) 834-2430	
ADDRESS 2850 STREET Poplar CITY Oakland STATE CA ZIP 94608					
FACILITY NAME (IF APPLICABLE) Lindford Air & Refrigeration			OPERATOR Robert Lindford		PHONE (510) 834-2430
ADDRESS 2850 STREET Poplar CITY Oakland COUNTY Alameda ZIP 94608					
CROSS STREET 28th Street		TYPE OF AREA <input checked="" type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> RESIDENTIAL <input type="checkbox"/> RURAL <input type="checkbox"/> OTHER _____		TYPE OF BUSINESS <input type="checkbox"/> RETAIL FUEL STATION <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> OTHER Air/Refrigeration	
LOCAL AGENCY Alameda County Health Care Services		AGENCY NAME Alameda County Health Care Services		CONTACT PERSON Brian Oliva	
REGIONAL BOARD San Francisco Bay Regional Water Quality Control Board		TSCD _____		PHONE (510) 271-4320	
REGIONAL BOARD San Francisco Bay Regional Water Quality Control Board		TSCD _____		PHONE (510) 464-1255	
SUBSTANCES INVOLVED CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME QUANTITY LOST (GALLONS)					
(1)		Unleaded Gas		_____ <input checked="" type="checkbox"/> UNKNOWN	
(2)		Diesel		_____ <input checked="" type="checkbox"/> UNKNOWN	
DATE DISCOVERED 07/27/92		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> ROUTINE MONITORING <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> OTHER: _____			
DATE DISCHARGE BEGAN _____		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input checked="" type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURES <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 07/27/92 <input type="checkbox"/> OTHER _____			
HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		SOURCE(S) OF DISCHARGE <input checked="" type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> PIPING LEAK <input checked="" type="checkbox"/> OTHER (SPECIFY) <u>Overspill</u>		TANKS ONLY/CAPACITY _____ GAL AGE _____ YRS. <input type="checkbox"/> UNKNOWN MATERIAL <input checked="" type="checkbox"/> STEEL 5K <input checked="" type="checkbox"/> FIBERGLASS 10K <input type="checkbox"/> OTHER _____	
CAUSE(S) <input checked="" type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input checked="" type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> OTHER <u>Piping</u>		RESOURCES AFFECTED/ AT RISK			
AIR (VAPOR) <input type="checkbox"/> YES <input type="checkbox"/> NO		THREATENED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		UNKNOWN <input type="checkbox"/> YES <input type="checkbox"/> NO	
SOIL (VADOSE ZONE) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		THREATENED <input type="checkbox"/> YES <input type="checkbox"/> NO		UNKNOWN <input type="checkbox"/> YES <input type="checkbox"/> NO	
GROUNDWATER <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		THREATENED <input type="checkbox"/> YES <input type="checkbox"/> NO		UNKNOWN <input type="checkbox"/> YES <input type="checkbox"/> NO	
SURFACE WATER OR STORM DRAIN <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		THREATENED <input type="checkbox"/> YES <input type="checkbox"/> NO		UNKNOWN <input type="checkbox"/> YES <input type="checkbox"/> NO	
BUILDING OR UTILITY VAULT <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		THREATENED <input type="checkbox"/> YES <input type="checkbox"/> NO		UNKNOWN <input type="checkbox"/> YES <input type="checkbox"/> NO	
OTHER (SPECIFY) _____		THREATENED <input type="checkbox"/> YES <input type="checkbox"/> NO		UNKNOWN <input type="checkbox"/> YES <input type="checkbox"/> NO	
WATER SUPPLIES AFFECTED PUBLIC DRINKING WATER <input type="checkbox"/> YES <input type="checkbox"/> NO		THREATENED <input type="checkbox"/> YES <input type="checkbox"/> NO		UNKNOWN <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
PRIVATE DRINKING WATER <input type="checkbox"/> YES <input type="checkbox"/> NO		THREATENED <input type="checkbox"/> YES <input type="checkbox"/> NO		UNKNOWN <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
INDUSTRIAL <input type="checkbox"/> YES <input type="checkbox"/> NO		THREATENED <input type="checkbox"/> YES <input type="checkbox"/> NO		UNKNOWN <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
AGRICULTURAL <input type="checkbox"/> YES <input type="checkbox"/> NO		THREATENED <input type="checkbox"/> YES <input type="checkbox"/> NO		UNKNOWN <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
OTHER (SPECIFY) _____		THREATENED <input type="checkbox"/> YES <input type="checkbox"/> NO		UNKNOWN <input type="checkbox"/> YES <input type="checkbox"/> NO	
COMMENTS: _____					