aqua science engineers inc.

January 12, 1996

PROJECT REPORT
UNDERGROUND STORAGE TANK REMOVAL
(ASE JOB NO. 2908)

for

Emeryville Properties
1400 Park Avenue
Emeryville, California

Submitted by:

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

REGISTERED PROFESSIONAL ENGINEER
DAVID M. SCHULTZ
No. 38738
Exp. 4-97
CIVIL
STATE OF CALIFORNIA

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1.0 INTRODUCTION

This report documents the removal, disposal and related activities of the underground storage tank (UST) closure performed at the Emeryville Properties facility located at 1400 Park Avenue in Emeryville, California (Figure 1). The following USTs were removed from the site (Figure 2):

QUANTITY	TYPE AND SIZE UST	FORMER CONTENTS
1	Steel, 550 gallon	Diesel/Motor Oil
1	Steel, 550 gallon	Gasoline
1	Steel, 550 gallon	Gasoline

The scope of services provided by Aqua Science Engineers, Inc. (ASE), were conducted on behalf of the property owner, Emeryville Properties, in accordance with ASE proposal No. 95-187 and included the following tasks:

- Preparing a health and safety plan.
- Obtaining permits from appropriate agencies.
- Removing and disposing of liquids from the USTs.
- Removing and disposing of the USTs and piping.
- Sampling and analyzing the soil beneath the USTs.
- Sampling and analyzing the stockpiled soil.
- Sampling and analyzing a nearby monitoring well.
- Offhauling the stockpiled soil to a local landfill.
- Backfilling and resurfacing the excavation.
- Preparing this report of methods and findings.

Emeryville Properties' environmental consultant, Ms. Gwen Tellegen, acted as the property owner's representative in a majority of aspects of this project.

2.0 PERMITS

Permits and approvals required to remove the USTs were obtained by ASE from the City of Emeryville Fire Department (EFD), the Alameda County Health Care Services Agency (ACHCSA), CAL-OSHA, and the Bay Area Air Quality Management District (BAAQMD). Copies of these permits, application forms, and notification documents are contained in Appendix A.

3.0 MOBILIZATION

ASE mobilized for on-site activities on October 23, 1995. Field operations were conducted by trained technicians who are certified per the mandatory 40-hour safety program as specified in the OSHA Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120). A tailgate safety meeting was conducted and the health and safety plan was signed by all field personnel. Personnel present during the activities included ASE Project Manager David Allen, ASE field technician Ralph Eymann, representatives from Remediation Contractors (equipment and labor), Mr. William Lewerenz and Ms. Gwen Tellegen representing Emeryville Properties, and Mr. Brian Oliva of the Alameda County Helath Care Services Agency.

4.0 PRE-EXCAVATION ACTIVITIES

ASE staff began on-site activities on October 23, 1995 by breaking and removing the concrete on top of the USTs. Previously, another contractor had removed a portion of the concrete that was directly over the USTs exposing two (2) fill pipes. At this time, it was thought that only two USTs existed. After the concrete was removed, ASE began uncovering the tops of the two USTs to gain access for product evacuation and rinsing. During the uncovering activities, ASE identified a third UST. Portions of the soil surrounding the fill ends of the USTs was minorly stained and odorous. Since it appeared the soils surrounding the three USTs potentially contained petroleum hydrocarbons, they were stockpiled on site next to the excavation and covered with visqueen for handling at a later date or off-site disposal. Based on the layout of the USTs and underground piping and the former presence of a raised concrete island directly above the USTs, it was assumed that the dispensers (previously removed) were located on top of the USTs. No piping leading to any other areas was discovered in the excavation.

5.0 LIQUID REMOVAL

Upon completion of the uncovering activities, ASE evacuated remaining residual product within the USTs. 350 gallons of residual product was pumped from the USTs and transported to the Seaport Petroleum Corporation facility in Redwood City, CA under Bill of Lading No. 1616 by First Environmental Group, a licensed hazardous waste hauler on October 23, 1995. A copy of the Bill of Lading is attached in Appendix B.

Following product removal, each UST was triple rinsed. First Environmental Group returned to the site several hours later to evacuate the rinsate liquids generated by ASE during the triple rinsing of the three USTs. 200 gallons of rinsate was pumped from the USTs and transported to the Seaport Petroleum Corporation facility in Redwood City, CA under Non-Hazardous Special Waste Manifest No. 000748 by First Environmental Group, a licensed hazardous waste hauler on October 23, 1995. A copy of the manifest is attached in Appendix B.

6.0 TANK PREPARATION

The three USTs were made inert through the addition of 100 pounds of dry ice to each tank. The UST removal operations were witnessed by Mr. Brian Oliva of the ACHCSA. The EFD representative was unable to attend, but relinquished his authority to Mr. Oliva over the telephone on October 23, 1995. The Lower Explosive Limit (LEL) of the USTs atmosphere was measured and found to be within the allowable range; therefore, approval for the USTs removal was granted by Mr. Oliva.

7.0 TANK REMOVAL OPERATIONS

On October 23, 1995, the USTs were lifted from the excavation, placed on plastic sheeting, hand cleaned, and inspected by ASE and the ACHCSA. The USTs were then loaded onto the transport vehicles. Upon inspection of the USTs, no holes or cracks were noted on either of the gasoline USTs; several holes were identified in the diesel/motor oil UST. The diesel/motor oil UST was wrapped in plastic to contain any leaking liquid.

The USTs were transported to the Erickson, Inc. facility in Richmond, CA (a licensed recycling facility, No. CAD009466392) by Erickson, Inc. (State Transporter's ID No. 602668) under Manifest No. 95592444 on October 23, 1995 where they were properly disposed. See Appendix B for a copy of the manifest. Also see Appendix C for a copy of the Tank Disposal Certificates.

8.0 SOIL SAMPLE COLLECTION AND CHEMICAL ANALYSES

On October 23, 1995 with the involvement of Mr. Brian Oliva of the ACHCSA, ASE collected the following soil samples (see Figure 3).

TABLE ONE
SAMPLE LOCATIONS - EXCAVATION PIT, and STOCKPILE

Sample Name	Location	Depth
North, 9'	Northern End Bottom of Excavation Below Gas UST	9' bgs
Middle, 9'	Middle Bottom of Excavation Below Gas UST	9' bgs
South, 9'	Southern Bottom of Excavation Below Diesel/MO UST	9' bgs
North, 12'	Northern End Bottom of Excavation after overexcavation	12' bg
South, 12'	Southern End Bottom of Excavation after overexcavation	12' bg
STKP	Stockpiled Soil	
STKP 11/13	Same Stockpiled Soil described above, sampled 3-weeks later	

The soil samples collected at 9' below ground surface (bgs) were to assess the soil contamination, if any, 12-24 inches below the bottom of the former USTs. Based on the visual inspection and odor of the excavated soils, it was apparent that some degree of soil contamination existed in the soil adjacent to and below the USTs. Therefore, after the 9' bgs soil samples were collected, ASE overexcavated the bottom of the excavation to a total depth of 12' bgs in an attempt to assess the vertical extent of the apparent soil contamination. At approximately 11' bgs, groundwater began seeping into the excavation. When visible, the soil below the groundwater appeared to be free of staining. Two soil samples (North, 12' and South 12') were collected from the new bottom of the excavation. This material appeared to be free of staining and petroleum hydrocarbon odors.

3-point composite soil samples were collected from the stockpiled/overexcavated soil.

The soil samples were collected in 4 ounce glass jars, labeled, placed on ice and transported to McCampbell Analytical Inc. (MAI) of Pacheco, CA (DOHS No. 1644) under chain of custody. The above-referenced samples were analyzed for all or a combination of the following: Total Petroleum Hydrocarbons (TPH) as gasoline by Modified EPA Method 5030/8015, TPH as diesel and motor oil by Modified EPA Method 3550/8015, benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020, total lead by EPA Method 6010, and STLC Lead by EPA Method 6010/200.7, 239.2 The stockpile was re-sampled by ASE on November 13, 1995 (sample id. STKP 11/13) for purposes of profiling the contaminated soil

into a local landfill. This sample was analyzed for volatile organic compounds (VOCs) by EPA Method 8240, semi-volatile organic compounds (SVOCs) by EPA Method 8270, CAM 17 metals, reactivity - corrosivity - ignitability (RCI), and STLC lead.

Analytical results are shown below in Table Two and Table Three; copies of laboratory data can be found in Appendix D. A second round of analytical testing of the stockpiled soil (sample name STKP 11/13) were carried out to obtain approval into a landfill. The results of the STKP 11/13 sample indicated the following: 0.34 ppm ethylbenzene, 5.2 ppm total xylenes, negative reactivity, a 6.60 pH, negative ignitability, 2 ppm napthalene, 3.2 ppm 2-methylnapthalene, and 6.6 ppm bis (2-ethylhexyl) phthalate. No TTLC metals in excess of 10X the STLC (except lead at 60 ppm TTLC and 1.1 ppm STLC) were detected. All other compounds resulted in less that detection limit concentrations. All of the afore-mentioned results for the STKP 11/13 sample rendered the soil permittable for placement in the BFI Livermore subtitle D cell for petroeum-hydrocarbon contaminated, non-hazardous soil.

TABLE TWO
SOIL SAMPLE RESULTS
All Results in **Parts Per Million**

Sample Name	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	TPH Diesel	TPH Motor Oil
North, 9'	140	<0.05	0.55	0.81	7.4	4800	14000
Middle, 9'	1300	0.41	6.1	13	110	2600	8000
South, 9'	1100	0.22	5.6	5.0	33	2100	5800
North, 12'	<1.0	<0.005	<0.005	<0.005	<0.005	<1.0	<5.0
South, 12'	<1.0	<0.005	<0.005	<0.005	0.027	<1.0	<5.0
STKP*	850	<0.04	1.9	3.8	40	2900	6700
EPA METHOD	8015M	8020	8020	8020	8020	8015M	8015M

* Composited sample (performed at the lab), collected from the Stockpiled Soil

TABLE THREE
SOIL SAMPLE RESULTS
All Results in **Parts Per Million**

Sample Name	TTLC Lead	STLC Lead
North, 9'	66	2.0
North, 12'	6.3	---
EPA METHOD	6010	6010

9.0 INITIAL EXCAVATION BACKFILLING

On October 23, 1995, ASE lined the bottom and sides of the excavation and then pushed approximately 27 tons of clean backfill material into the excavation. This material was not compacted. It was placed into the excavation in such a manner that a ramp was made from the surface into the excavation. This was performed for safety reasons only because the excavation was to remain open until laboratory results were obtained.

10.0 GROUNDWATER MONITORING WELL SAMPLING

Since groundwater was identified in the UST excavation, Ms. Gwen Tellegen asked ASE to collect a groundwater sample from monitoring well MW-1 which is approximately 30 feet downgradient from the excavation. This sample represents the groundwater downgradient of the former USTs. On November 6, 1995, ASE mobilized to the site to purge and collect a groundwater sample from monitoring well MW-1. The sample was analyzed by MAI Laboratories for VOCs by EPA Method 8240, and total extractable hydrocarbons as diesel and motor oil by Modified EPA Method 3510/8015M. Analytical results are shown below in Table Four; copies of laboratory data can be found in Appendix D. The only constituents detected in the groundwater sample appear to be those found in a known area-wide solvent contamination problem. It does not appear that the groundwater contamination is a result of the former contents of the USTs.

TABLE FOUR
WATER SAMPLE RESULTS
All Results in **Parts Per Billion**

Sample Ident.	cis-1,2 DCE	PCE	TCE	Toluene	Total Xylenes	TPH Diesel	TPH Motor Oil
MW-1	2.6	7.9	5.8	4.0	7.8	<50	<250
MCL	6	5	5	100*	1750	---	---
EPA METHOD	8240	8240	8240	8240	8240	8015M	8015M

NOTE: All other 8240 compounds resulted in less than detectable concentrations.
* An MCL has not been established, however 100 ppb is a recommended action level (RAL).

11.0 ACHCSA TELEPHONE CONVERSATION

Upon receipt of all the afore-mentioned analytical results, ASE contacted Mr. Brian Oliva of the ACHCSA by telephone for his verbal approval for backfilling and compaction of the UST excavation. ASE explained to Mr. Oliva that reasonable efforts were conducted to remove sources of contaminated soil from the excavation and that such contaminated soil was to be offhauled to a local landfill. ASE also explained the results of the monitoring well sampling. Mr. Oliva concurred with the recommendation by ASE to conduct no further overexcavation or soil-remedial activities regarding the USTs and agreed to allow ASE to backfill, compact and resurface the excavation.

12.0 FINAL BACKFILLING AND RESURFACING

On November 28, 1995, ASE returned to the site to conduct final backfilling and compaction activities. A portion of the material pushed into the excavation on October 23, 1995 was removed in order to compact the material properly. ASE imported 50 additional tons of clean fill and completely backfilled and compacted the UST excavation. Several days later, the surface was refinished with concrete to match the existing surroundings.

13.0 OFFHAUL AND DISPOSAL OF STOCKPILED SOIL

After profiling the material and receiving written authorization, 65.29 tons of contaminated soil was transported to the BFI Livermore Subtitle D Cell under Non Hazardous Special Waste Manifests (See Appendix B for copies of the manifests) on November 28, 1995.

14.0 CONCLUSIONS AND RECOMMENDATIONS

* On October 23, 1995, three (3) USTs were removed from the Emeryville Properties facility at 1400 Park Avenue in Emeryville, CA and disposed of properly off site.

* Contaminated soil beneath the USTs was overexcavated and temporarily stockpiled on site awaiting disposal profiling results. On October 23, 1995, 65.29 tons of contaminated soil was hauled from the property and disposed of at the BFI Livermore facility as non-hazardous petroleum-hydrocarbon contaminated soil.

* The entire excavation was lined with visqueen then backfilled with imported fill material, compacted and resurfaced.

* It appears at this time that any residual soil contamination that may exist does not pose a significant threat to the shallow groundwater based on the results of the sample collected from the nearby, downgradient monitoring well.

ASE recommends no further soil excavation or remedial activities related to the former underground storage tanks. We recommend that the monitoring well downgradient of the former USTs (MW-1) be analyzed on a quarterly basis for TPH-G, TPH-D, TPH-MO, BTEX and VOCs. If after four consecutive quarters results indicate no or insignificant concentrations of petroleum hydrocarbons and VOCs, ASE recommends applying for case closure in respect to the USTs.

15.0 REPORT LIMITATIONS

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

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

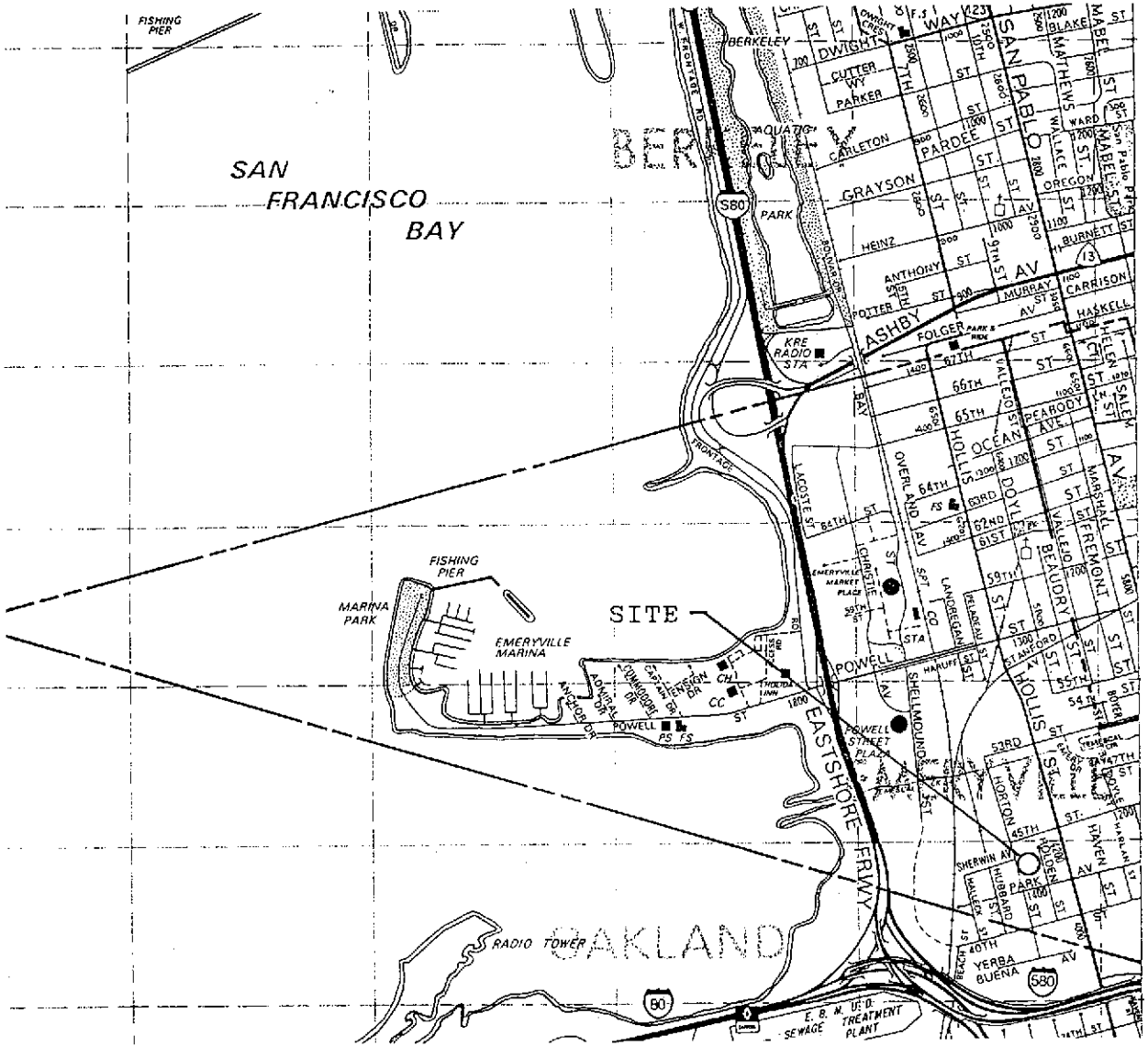
Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

David Allen, R.E.A.
Project Manager

Enclosures: Figure 1 - Site Location Map
Figure 2 - Site Plan
Figure 3 - Sampling Plan
Appendices A - D

copies to: Mr. Brian Oliva, Alameda County Health Care Services
Mr. George Warren, City of Emeryville Fire Department
Mr. William Lewerenz, Emeryville Properties
Ms. Gwen Tellegen, Emeryville Properties representative

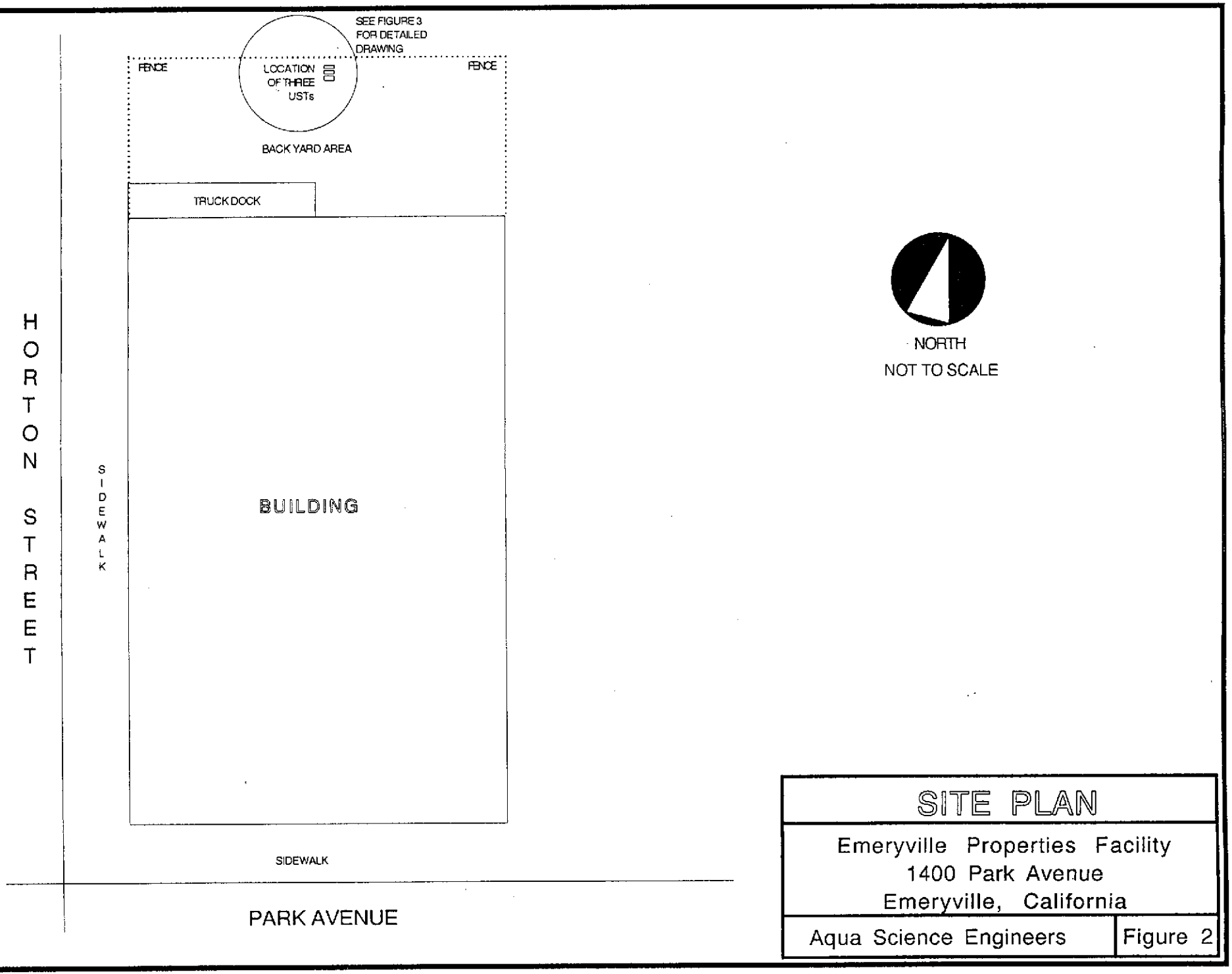


NORTH

LOCATION MAP

Emeryville Properties Facility
1400 Park Avenue
Emeryville, California

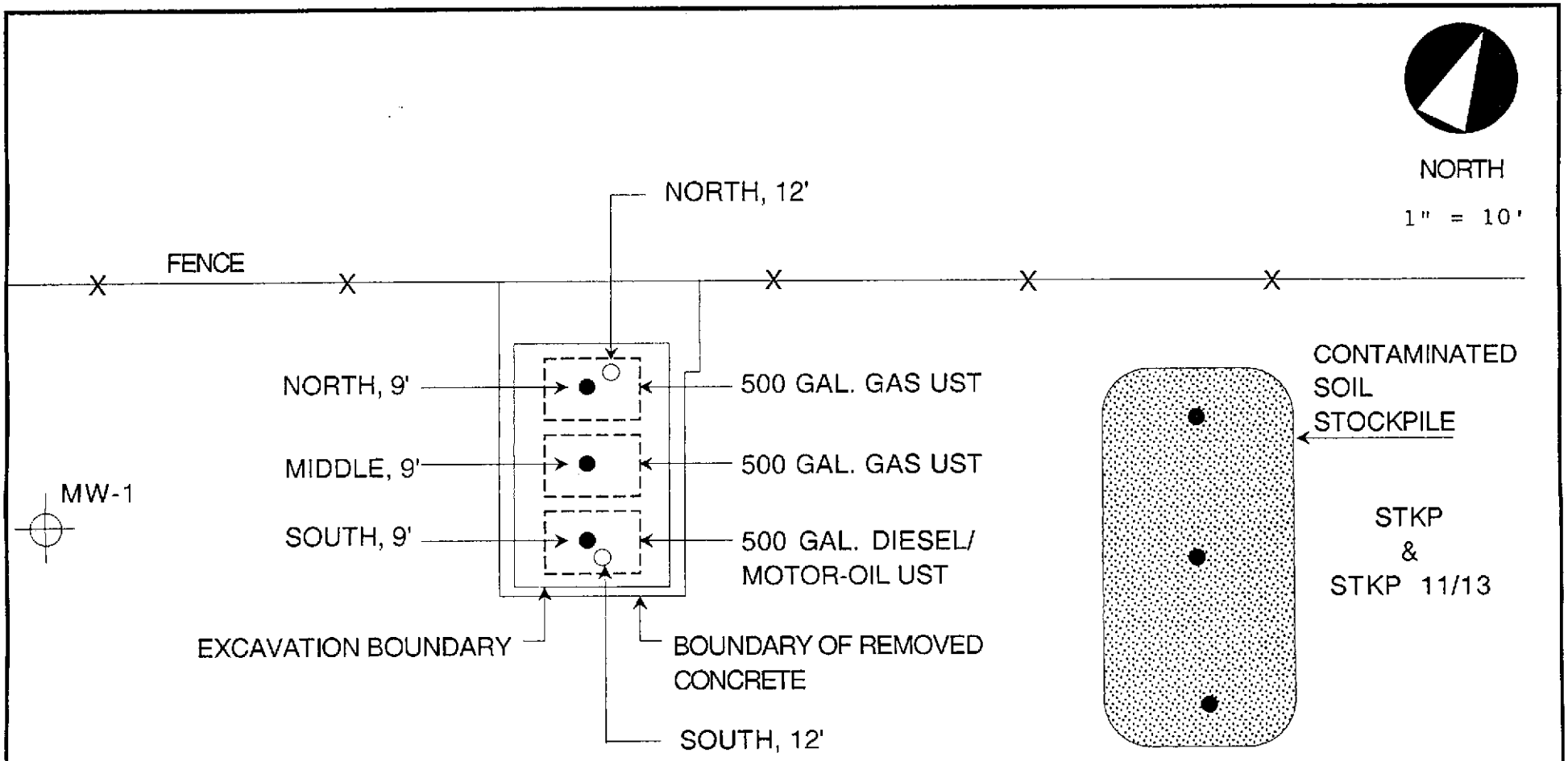
Aqua Science Engineers | Figure 1



SITE PLAN

Emeryville Properties Facility
1400 Park Avenue
Emeryville, California

Aqua Science Engineers | Figure 2



LEGEND

- ● SOIL SAMPLE COLLECTED FROM 12"-24" BELOW BOTTOM OF UST
- ○ SOIL SAMPLE COLLECTED AT 12-FEET BELOW GROUND SURFACE, AFTER OVEREXCAVATION ACTIVITIES
- ⊕ MONITORING WELL, INSTALLED BY ALTON GEOSCIENCE

SAMPLING PLAN

Emeryville Properties Facility
1400 Park Avenue
Emeryville, California

AQUA SCIENCE ENGINEERS, INC. | Figure 3

APPENDIX A

PERMITS

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

Project Specialist

ACCEPTED

Underground Storage Tank Closure Permit Application
Alameda County Division of Hazardous Materials
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and Local Health Laws. Changes to your closure 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/destruction.
One copy of the accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.
Any changes or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspections Department to determine if such changes meet the requirements of State and local laws.
Notify this Department at least 72 hours prior to the following required inspections:

✓ Removal of Tank(s) and Piping
✓ Sampling
___ Final Inspection

Issuance of a) permit to operate, b) permanent site closure, is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

Contact Specialist:

Special Instructions
① Health + Safety Plan must adhere to Title 8 (OSHA)
* ② OBTAIN BOE # for UST site.

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

1. Name of Business NONE (Property previously leased to Chrimex Co.)
   Business Owner or Contact Person (PRINT) Mr. William Lewerenz
2. Site Address 1400 PARK AVENUE
   City EMERYVILLE Zip 94608 Phone NONE
3. Mailing Address c/o EMERYVILLE PROPERTIES 699 2nd Street
   City S.F. Zip 94107 Phone ______
4. Property Owner EMERYVILLE PROPERTIES c/o WILLIAM LEWERENZ
   Business Name (if applicable) ↑
   Address 699 2nd STREET
   City, State SAN FRANCISCO Zip 94107
5. Generator name under which tank will be manifested
   EMERYVILLE PROPERTIES c/o WILLIAM LEWERENZ
   EPA ID# under which tank will be manifested C A C 0 0 1 1 3 3 1 4 4

rev 4/6/95

CITY OF EMERYVILLE
FIRE DEPARTMENT
6303 HOLLIS STREET
EMERYVILLE,CA.,94608
(510) 596-3750

APPLICATION AND PERMIT

FIRE DEPARTMENT USE ONLY

FPB-1095-16
(PERMIT NUMBER)

Application Received :
Date: 10/18/95 Signed: [signature]

Permit Issued:
Date: 10/18/95 Signed: [signature]

THIS APPLICATION IS YOUR PERMIT WHEN PROPERLY FILLED OUT, SIGNED, VALIDATED AND FEES PAID.

ADDRESS: 1400 PARK AVENUE

BUSINESS NAME : EMERYVILLE PROPERTIES

CONTACT PERSON : DAVID ALLEN, ASE Inc.

TELEPHONE NUMBER : 510-820-9391

EFD Permit Type(s) :
(see reverse)

Expiration Date :
(6 MOS. from date of issue

TOTAL FEES DUE $125.00/tank

DESCRIPTION OF OPERATION: REMOVAL OF 2 500-GALLON USTs.

MAKE CHECK PAYABLE TO THE CITY OF EMERYVILLE.

FEES ARE ESTABLISHED THRU THE CITY OF EMERYVILLE MASTER FEE SCHEDULE ADOPTED JUNE 1, 1993. COPY AVAILABLE ON REQUEST.

APPLICANT READ AND SIGN BELOW:

I CERTIFY THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS TRUE AND CORRECT. I AGREE TO COMPLY WITH ALL LOCAL ORDINANCES AND STATE LAWS THAT RELATE TO THIS PERMIT. I HEREBY AUTHORIZE REPRESENTATIVES OF THE CITY TO ENTER UPON THE ABOVE MENTIONED PROPERTY TO VERIFY COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT, AT ANY REASONABLE TIME.

☒ Building Owner : David Allen, ASE Inc. Agent for Emeryville Properties
☐ Business Operator :
Date of Application : 10-16-95

Occupancy Group/Division: (per UBC Table 5A) N/A

OCCUPANCY TYPE:

Commercial ☐ Assembly ☐
Industrial ☒ Educational ☐
Residential ☐ H-class ☐

Other ☐ Specify : _____

THIS PERMIT MUST BE AVAILABLE FOR INSPECTION AT ALL TIMES

REVOCATION OF PERMIT

THE CHIEF IS AUTHORIZED TO SUSPEND/REVOKE A PERMIT WHEN THE CHIEF HAS DETERMINED THAT SECTION 4.107, 1991 UFC HAS BEEN VIOLATED.

POSTING OF PERMIT

PERMIT(S) SHALL BE KEPT ON THE PREMISES DESIGNATED AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION AT ANY TIME BY ANY PERSON(S) WHO ARE AUTHORIZED BY THE CHIEF OF THE EMERYVILLE FIRE DEPARTMENT.

DATE	INSPECTION NOTES/COMMENTS	INSPECTOR
10/16	application & removal requirements picked up 10/16/95 by Adria Science rep.	[signature]
10/18	Check #17418; applicant en route for Bus. Lic.; removal set for 10/23/95, 1300 hrs.	[signature]

White: Applicant Yellow: EFD Pink: Finance

APPENDIX B

HAZARDOUS & NON-HAZARDOUS WASTE MANIFESTS,
BILLS OF LADING, AND DISPOSAL WEIGHT TAGS

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

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

95592444

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000113314 | Manifest Document No. 95592444 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

GENERATOR

3. Generator's Name and Mailing Address
EMERYVILLE PROPERTY'S
1699 2nd STREET SAN FRANCISCO CA 94107

4. Generator's Phone (415) 957-1886

A. State Manifest Document Number: 95592444
B. State Generator's ID:
C. State Transporter's ID: 202668
D. Transporter's Phone: 510-223-1393
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 510-223-1393

5. Transporter 1 Company Name: ERICKSON INC.
6. US EPA ID Number: CAD009146312

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: CAD009469392 (16726)

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	I. Waste Numbers
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank.	03	T	1500	P	State: EPA/Other:
b.					State: EPA/Other:
c.					State: EPA/Other:
d.					State: EPA/Other:

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

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name David Allen & Phone 510 820-9391

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
Carlos Tellaneu for Emeryville Property		10	23	95

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
CHARLEY ELMORE	Charley Elmore	10	23	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

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.

DTSC 8022A (1/95)
EPA 8700—22

Yellow: GENERATOR RETAINS.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 606867

Section I — GENERATOR (Generator completes all of Section I)

a. Generator Name: EMERYVILLE PROPERTIES c/o WILLIAM LEWEREN Z
b. Generating Location: FORMER CHARLES LOWE COMPAN
c. Address: 499 SECOND STREET
SAN FRANCISCO, CA 94107
d. Address: 1400 PARK AVENUE
EMERYVILLE, CA 94608
e. Phone No.: 415-957-1888
f. Phone No.: NONE (4 1 5 - 4
If owner of the generating facility differs from the generator, provide:
g. Owner's Name: EMERYVILLE PROPERTIES c/o WILLIAM LEWEREN Z
h. Owner's Phone No.: 415-957-1888
i. BFI WASTE CODE: CA 405 112295 40243 Containers
j. Description of Waste: TPH CONTAMINATED SOIL
k. Quantity: 20 Units: T No.: TYPE: T

TYPE
DM - METAL DRUM
DP - PLASTIC DRUM
B - BAG
BA - 6 MIL. PLASTIC BAG or WRAP
T - TRUCK
O - OTHER

UNITS
P - POUNDS
Y - YARDS
M³ - CUBIC METERS
Y³ - CUBIC YARDS
O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, If the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

DAVID ALLEN, ASE INC. Agent for Emeryville Prop. [signature] 11 28 95
Generator Authorized Agent Name — Signature — Shipment Date

Section II — TRANSPORTER (Generator complete a-f. Transporter I complete g-o. Transporter II complete p-u.)

TRANSPORTER I

a. Name: EARL STEVENS
b. Address: 1155 HARGUS
c. Driver Name/Title: GOTTAGO-E. STEVENS (PRINT/TYPE)
d. Phone No.: 634-4593 e. Truck No.: R99
f. Vehicle License No./State: 9C14022
Acknowledgement of Receipt of Materials.
g. [signature] (Driver Signature) Shipment Date

TRANSPORTER II

h. Name:
i. Address:
j. Driver Name/Title: (PRINT/TYPE)
k. Phone No.: l. Truck No.:
m. Vehicle License No./State:
Acknowledgement of Receipt of Materials.
n. (Driver Signature) Shipment Date

Section III — DESTINATION (Generator completes a-d. destination site completes e-f.)

a. Site Name: BFI VASCO RD.
b. Physical Address: VASCO RD.
LIVERMORE, CA
c. Phone No.: 510-447-0491
d. Mailing Address: 4001 VASCO RD
LIVERMORE, CA 94550
e. Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent — [signature] Signature — 11 28 95 Receipt Date

Section IV — ASBESTOS (Generator completes a-d. g. Operator* completes e-f.)

a. Operator's* Name: b. Operator's* Phone No.:
c. Operator's* Address:
d. Special Handling Instructions and additional information:

OPERATOR'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 government regulations.

g. Operator's* Name & Title:

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 606880

Section I — GENERATOR (Generator completes all of Section I)

a. Generator Name: EMERYVILLE PROPERTIES c/o WILLIAM LEWERENZ
b. Generating Location: FORMER CHARLES LOWE COMPANY
c. Address: 699 SECOND STREET
SAN FRANCISCO CA 94107
d. Address: 1400 PARK AVENUE
EMERYVILLE CA 94608
e. Phone No.: 415. 957. 1888
f. Phone No.: NONE

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: EMERYVILLE PROP. c/o WILLIAM LEWERENZ
h. Owner's Phone No.: 415. 957. 1888

i. BFI WASTE CODE: CA | 405 | 112295 | 40243 | Containers

j. Description of Waste: TPH CONTAMINATED SOILS
k. Quantity: 20 | Units: T | No. | TYPE: T

TYPE
DM - METAL DRUM
DP - PLASTIC DRUM
B - BAG
BA - 6 MIL. PLASTIC BAG or WRAP
T - TRUCK
O - OTHER

UNITS
P - POUNDS
Y - YARDS³
M³ - CUBIC METERS
Y³ - CUBIC YARDS
O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, If the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

DAVID ALLEN, ASE, Inc. Agent for Emeryville Prop. [signature] 11 28 95
Generator Authorized Agent Name — Signature — Shipment Date

Section II — TRANSPORTER (Generator complete a-d. Transporter I complete e-g. Transporter II complete h-n.)

TRANSPORTER I

a. Name: IVORY Smith
b. Address: 1909 Redwood St
VALLEJO CA
c. Driver Name/Title: Smith TRUCKING (PRINT/TYPE)
d. Phone No.: 707-642-6642 e. Truck No.: R127
f. Vehicle License No./State: 4Z32424
Acknowledgement of Receipt of Materials.
g. Ivory Smith — Driver Signature — 11 28 19 95 — Shipment Date

TRANSPORTER II

h. Name:
i. Address:
j. Driver Name/Title: (PRINT/TYPE)
k. Phone No.: l. Truck No.:
m. Vehicle License No./State:
Acknowledgement of Receipt of Materials.
n. Driver Signature — Shipment Date

Section III — DESTINATION (Generator completes a-d. destination site completes e-f.)

a. Site Name: BFI VASCO RD.
b. Physical Address: VASCO RD
LIVERMORE CA
c. Phone No.: 510. 447-0491
d. Mailing Address: 4001 VASCO RD.
LIVERMORE CA 94550

e. Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent — Signature — 11 28 95 — Receipt Date

Section IV — ASBESTOS (Generator complete a-d. if any. Operator complete e.)

a. Operator's* Name: b. Operator's* Phone No.:
c. Operator's* Address:
d. Special Handling Instructions and additional information:

OPERATOR'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 government regulations.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 606868

Section I — GENERATOR (Generator completes all of Section I)

a. Generator Name: EMERYVILLE PROPERTIES c/o WILLIAM LEWERENZ
b. Generating Location: FORMER CHARLES LOWE COMPANY
c. Address: 699 SECOND STREET, SAN FRANCISCO CA 94107
d. Address: 1400 PARK AVENUE, EMERYVILLE CA 94608
e. Phone No.: 415-957-1888
f. Phone No.: NONE

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: EMERYVILLE PROPERTIES c/o WILLIAM LEWERENZ
h. Owner's Phone No.: 415-957-1888

i. BFI WASTE CODE: CA | 405 | 112295 | 402433 | Containers

j. Description of Waste: TPH CONTAMINATED SOIL
k. Quantity: 20 | Units: T | No. | TYPE: T

TYPE
DM - METAL DRUM
DP - PLASTIC DRUM
B - BAG
BA - 6 MIL. PLASTIC BAG or WRAP
T - TRUCK
O - OTHER

UNITS
P - POUNDS
Y - YARDS
M³ - CUBIC METERS
Y³ - CUBIC YARDS
O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

DAVID ALLEN, ASE INC. Agent for Emeryville P.P. [signature] | 112895
Generator Authorized Agent Name | Signature | Shipment Date

Section II — TRANSPORTER (Generator complete a-d, Transporter I complete e-g, Transporter II complete h-n)

TRANSPORTER I

a. Name: EARL STEVENS
b. Address: 1155 HARGUS AVE.
c. Driver Name/Title: GOTTAGO—EARL STEVENS (PRINT/TYPE)
d. Phone No.: 644-4593
e. Truck No.: R99
f. Vehicle License No./State: 9C14022
Acknowledgement of Receipt of Materials.
g. [signature] | 112895
Driver Signature | Shipment Date

TRANSPORTER II

h. Name:
i. Address:
j. Driver Name/Title: (PRINT/TYPE)
k. Phone No.:
l. Truck No.:
m. Vehicle License No./State:
Acknowledgement of Receipt of Materials.
n. | Shipment Date
Driver Signature

Section III — DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: BFI VASCO RD
b. Physical Address: VASCO RD., LIVERMORE
c. Phone No.: 510-447-0491
d. Mailing Address: 4001 VASCO RD., LIVERMORE CA 94550
e. Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent | Signature | 112895 Receipt Date

Section IV — ASBESTOS (Generator completes a-d, Transporter/Operator completes e-f)

a. Operator's* Name:
b. Operator's* Phone No.:
c. Operator's* Address:
d. Special Handling Instructions and additional information:

OPERATOR'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 government regulations.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 606866

Section I — GENERATOR (Generator completes all of Section I)

a. Generator Name: EMERYVILLE PROPERTIES c/o WILLIAM LEWERENZ
b. Generating Location: FORMER CHARLES LOWE COMPANY
c. Address: 699 SECOND STREET
SAN FRANCISCO CA 94107
d. Address: 1400 PARK AVENUE
EMERYVILLE CA 94608
e. Phone No.: 415-957-1888
f. Phone No.: NONE

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: EMERYVILLE PROP. c/o WILLIAM LEWERENZ
h. Owner's Phone No.: 415-957-1888

i. BFI WASTE CODE: CA | 405 | 112295 | 40243 | Containers

j. Description of Waste: TPH CONTAMINATED SOIL
k. Quantity: 20 | Units: T | No. | TYPE: T

TYPE
DM - METAL DRUM
DP - PLASTIC DRUM
B - BAG
BA - 6 MIL. PLASTIC BAG or WRAP
T - TRUCK
O - OTHER

UNITS
P - POUNDS
Y - YARDS
M³ - CUBIC METERS
Y³ - CUBIC YARDS
O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above-named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, If the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

DAVID ALLEN, ASE INC., Agent for Emeryville Prop — Generator Authorized Agent Name
Signature
Shipment Date: 11/28/95

Section II — TRANSPORTER (Generator complete a-g. Transporter II complete h-n)

TRANSPORTER I

a. Name: IVORY SMITH
b. Address: 1909 Redwood St
VALLEJO CA
c. Driver Name/Title: SMITH TRUCKING (PRINT/TYPE)
d. Phone No.: 707 642-6642
e. Truck No.: R127
f. Vehicle License No./State: 4Z32426
Acknowledgement of Receipt of Materials.
g. Driver Signature
Shipment Date: 11/28/95

TRANSPORTER II

h. Name:
i. Address:
j. Driver Name/Title: (PRINT/TYPE)
k. Phone No.:
l. Truck No.:
m. Vehicle License No./State:
Acknowledgement of Receipt of Materials.
n. Driver Signature
Shipment Date:

Section III — DESTINATION (Generator completes a-d. Destination site completes e-f)

a. Site Name: BFI VASCO RD.
b. Physical Address: VASCO RD.
LIVERMORE, CA
c. Phone No.: 510.447.0491
d. Mailing Address: 4001 VASCO RD.
LIVERMORE CA 94550

e. Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent
Signature
Receipt Date: 11/28/95

Section IV — ASBESTOS (Generator complete a-d. Disp. Operator complete e.)

a. Operator's* Name:
b. Operator's* Phone No.:
c. Operator's* Address:
d. Special Handling Instructions and additional information:

OPERATOR'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 government regulations.

VASCO ROAD SANITARY LANDFILL No: 786726

A DIVISION OF BFI® BROWNING-FERRIS INDUSTRIES

4001 VASCO ROAD
LIVERMORE, CA 94550
(510) 447-0491

Date : 11-28-95 Time In: 10:19:36 Time Out: 10:36:52
Ticket # : A66212 CMS # : 1009539 LMS #: 0000999
Customer : CASH
Vehicle # : R99 Lic Plate:
SPECIAL
Manifest # : 606867 PO #: E, PROP. Transporter:
Source Cd : Generator : EMP EMERYVILLE PROPERTIES
Comment : AQUA Science Operator: NOEL
Capacity : 20.00 yd Scale In # : 1 Scale Out #: 2
Gross Wt : 30.21 Tare Wt: 14.64 Net Wt: 15.57 tn

Descr	Actual	Bill Qty	$/Unit	Extended
SOIL		15.57 TN		

Sub Total..... $

Total..... $
Cash Tended... $
Change Due.... $

All children must remain in vehicles. Absolutely no salvaging allowed.

Ninõs deben de permaneceren en los carros a todas horas.

No se permite llevar cosas del dompe absolutamente.

THANK YOU FOR YOUR BUSINESS!!!
HAVE A GREAT DAY!!!

DRIVER

CUSTOMER

VASCO ROAD SANITARY LANDFILL No: 786741

A DIVISION OF BFI® BROWNING-FERRIS INDUSTRIES

4001 VASCO ROAD
LIVERMORE, CA 94550
(510) 447-0491

Date : 11-28-95 Time In: 10:41:20 Time Out: 10:57:50
Ticket # : A66224 CMS # : 1009539 LMS #: 0000999
Customer : CASH
Vehicle # : R127 Lic Plate:
SPECIAL
Manifest # : 606866 PO #: Transporter:
Source Cd : Generator : EMP EMERYVILLE PROPERTIES
Comment : AQUA SCIENCE Operator: NOEL
Capacity : 20.00 yd Scale In # : 1 Scale Out #: 2
Gross Wt : 30.83 Tare Wt: 16.17 Net Wt: 14.66 tn

Descr	Actual	Bill Qty	$/Unit	Extended
SOIL		14.66 TN		

Sub Total..... $

Total..... $
Cash Tended... $
Change Due..... $

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.

All children must remain in vehicles. Absolutely no salvaging allowed.

Ninõs deben de permaneceren en los carros a todas horas.

No se permite llevar cosas del dompe absolutamente.

THANK YOU FOR YOUR BUSINESS!
HAVE A GREAT DAY!!!

DRIVER

VASCO ROAD SANITARY LANDFILL No: 786839

A DIVISION OF BFI® BROWNING-FERRIS INDUSTRIES

4001 VASCO ROAD
LIVERMORE, CA 94550
(510) 447-0491

Date : 11-28-95 Time In: 13:00:26 Time Out: 13:21:42
Ticket # : A66320 CMS # : 1009539 LMS #: 0000999
Customer : CASH
Vehicle # : R99 Lic Plate:
SPECIAL
Manifest # : 606868 PO #: Transporter:
Source Cd : Generator : EMP EMERYVILLE PROPERTIES
Comment : Operator: NOEL
Capacity : 20.00 yd Scale In # : 1 Scale Out #: 2
Gross Wt : 34.34 Tare Wt: 14.58 Net Wt: 19.76 tn

Descr	Actual	Bill Qty	$/Unit	Extended
SOIL		19.76 TN		

Sub Total..... $

Total..... $
Cash Tended... $
Change Due.... $

THANK YOU FOR YOUR BUSINESS!!!
HAVE A GREAT DAY!!!

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.

All children must remain in vehicles. Absolutely no salvaging allowed.

Ninôs deben de permaneceren en los carros a todas horas.

No se permite llevar cosas del dompe absolutamente.

DRIVER

CUSTOMER

VASCO ROAD SANITARY LANDFILL No: 786905

A DIVISION OF BFI® BROWNING-FERRIS INDUSTRIES

4001 VASCO ROAD
LIVERMORE, CA 94550
(510) 447-0491

Date : 11-28-95 Time In: 15:04:44 Time Out: 15:23:45
Ticket # : A66387 CMS # : 1009539 LMS #: 0000999
Customer : CASH
Vehicle # : R127 Lic Plate:
SPECIAL
Manifest # : 606880 PO #: Transporter:
Source Cd : Generator : EMP EMERYVILLE PROPERTIES
Comment : Operator: NOEL
Capacity : 20.00 yd Scale In # : 1 Scale Out #: 2
Gross Wt : 31.33 Tare Wt: 16.03 Net Wt: 15.30 tn

Descr	Actual	Bill Qty	$/Unit	Extended
SOIL		15.30 TN		

Sub Total..... $

Total..... $
Cash Tended... $
Change Due.... $

THANK YOU FOR YOUR BUSINESS!!!
HAVE A GREAT DAY!!!

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.

All children must remain in vehicles. Absolutely no salvaging allowed.

Ninôs deben de permaneceren en los carros a todas horas.

No se permite llevar cosas del dompe absolutamente.

DRIVER

SEAPORT PETROLEUM CORPORATION

675 SEAPORT BLVD., REDWOOD CITY, CA 94063

H.M. ☒ Aqua Science CA. 1616

TRUCK LOADING TICKET AND BILL OF LADING

DATE:	TIME:	TRUCK/TRAILER NO.:
10 23 95	1000 (AM) PM	Vt. 132

CONSIGNOR: SEAPORT PETROLEUM CORPORATION

CONSIGNEE: SEAPORT PETRO

PRODUCT	API/TEMP	GROSS GALLONS	NET GALLONS
WHITE DEL AND GASOLINE 3, UN 1203 P.G. II		350	GALS
DIESEL FUEL 3, NA 1993 P.G. III LOW SULFUR 0.05% MAX			
DIESEL FUEL 3, NA 1993 P.G. III HIGH SULFUR			
METHYL TERTIARY BUTYL ETHER 3, P.G. III UN 2398			
ETHANOL 3, UN 1170 P.G. II			

METER READING — GROSS GALLONS:

CARRIER: FIRST ENV

CARRIER CERTIFIES THAT THE CONTAINER SUPPLIED FOR THIS SHIPMENT IS A PROPER CONTAINER FOR THE TRANSPORTATION OF THIS COMMODITY AS DESCRIBED ABOVE.

DESTINATION: REDWOOD city CA

PRODUCT REC'D IN GOOD ORDER: [signature]

IN EVENT OF HAZARDOUS MATERIAL INCIDENT CALL: CHEMTREC 1-800-424-9300

ACCOUNTING

First Environmental Group
3501 Collins Avenue
Richmond, CA 94806
(510) 232-0202
Fax (510) 232-5844

000748

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name SEAPORT ENVIRONMENTAL GROUP
Address 675 Seaport Bl
Redwood City Ca.
Phone No. 415 - 3641024

Generating Location FORMAL CHROME FACILITY
Address 1400 Park Ave
Emeryville Ca
Phone No. 510 - 8209391

Description of Waste	Quantity	Units	Containers No.	Containers Type
200 GAL ~~to~~ RINSE WATER	00200	G	01	T

Type: D - Drum, C - Carton, B - Bag, T - Truck, P - Pounds, Y - Yards, O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name ______ Signature [signature] for Aqua Science Eng. Shipment Date 102395

TRANSPORTER

Truck No. VT132
Transporter Name FIRST ENVIRONMENTAL GROUP
Address 3501 Collins Ave
Richmond Ca

Phone No. (510) 232-0202
Driver Name (Print) Glenn Q Olson
Vehicle License No./State CA 3H19532
Vehicle Certification 610148

I hereby certify that the above named materials was picked up at the generator site listed above.

Driver Signature [signature] Shipment Date 102395

I hereby certify that the above named materials was delivered without incident to the destination listed below.

Driver Signature [signature] Delivery Date 102395

DESTINATION

Site Name SEAPORT ENVIRONMENTAL Phone No. 415 - 3641024
Address 675 Seaport Blvd, RWC, CA 94063

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent ______ Signature ANDY CHILDRESS Receipt Date 102395

APPENDIX C

TANK DISPOSAL CERTIFICATES

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 18143

CUSTOMER
AQUA SCIENCE E
JOB NO.
956845

FOR: ERICKSON, INC. TANK NO. 16728

LOCATION: RICHMOND DATE: 95/10/24 TIME: 13:36

TEST METHOD VISUAL GASTECH/1314 SMPN 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 550 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.
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

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

STANDARD SAFETY DESIGNATION

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

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

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

REPRESENTATIVE TITLE INSPECTOR

CP599

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 18144

CUSTOMER
AQUA SCIENCE E
JOB NO.
966845

FOR: ERICKSON, INC. TANK NO. 16722

LOCATION: RICHMOND DATE: 95/10/24 TIME: 13:37

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT GAS

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 550 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.
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

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

STANDARD SAFETY DESIGNATION

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

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

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

REPRESENTATIVE TITLE INSPECTOR

CP5

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 18145

CUSTOMER
AQUA SCIENCE E
JOB NO.
966845

FOR: ERICKSON, INC. TANK NO. 16721

LOCATION: RICHMOND DATE: 95/10/24 TIME: 13:39

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 550 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.
~~ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK~~ SHIPPED TO US FOR PROCESSING.

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

STANDARD SAFETY DESIGNATION

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

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

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

REPRESENTATIVE TITLE INSPECTOR

CP59

APPENDIX D

LABORATORY ANALYSES
and
CHAIN OF CUSTODY SHEETS

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Rd., # 4 San Ramon, CA 94583	Client Project ID: # 2908; Emeryville Properties	Date Sampled: 10/23/95
		Date Received: 10/24/95
	Client Contact: Dave Allen	Date Extracted: 10/25/95
	Client P.O:	Date Analyzed: 10/26-10/30/95

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	Benzene	Toluene	Ethylben-zene	Xylenes	% Rec. Surrogate
57782	North, 9'	S	140,j/e	ND< 0.05	0.55	0.81	7.4	95
57783	Middle, 9'	S	1300,j/e#	0.41	6.1	13	110	100
57784	South, 9'	S	1100,j/e#	0.22	5.6	5.0	33	101
57785	North, 12'	S	ND	ND	ND	ND	ND	102
57786	South, 12'	S	ND	ND	ND	ND	0.027	101
57787	STKP	S	850,j/e	ND< 0.04	1.9	3.8	40	95
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil samples in ng/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (Stoddard solvent?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; jj no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Rd., # 4 San Ramon, CA 94583	Client Project ID: # 2908; Emeryville Properties	Date Sampled: 10/23/95
		Date Received: 10/24/95
	Client Contact: Dave Allen	Date Extracted: 10/26/95
	Client P.O:	Date Analyzed: 10/26-10/28/95

Diesel Range (C10-C23), Motor Oil Range (> C18) Extractable Hydrocarbons as Diesel & Motor Oil *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	TPH(mo)+	% Recovery Surrogate
57782	North, 9'	S	4800,g,e/d	14,000	114#
57783	Middle, 9'	S	2600,g,e	8000	90
57784	South, 9'	S	2100,g,e	5800	--#
57785	North, 12'	S	ND	ND	94
57786	South, 12'	S	ND	ND	95
57787	STKP	S	2900,g,d/e	6700	99
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	250 ug/L	
		S	1.0 mg/kg	5.0 mg/kg	

* water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (Stoddard solvent?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Rd., # 4 San Ramon, CA 94583	Client Project ID: # 2908; Emeryville Properties	Date Sampled: 10/23/95
		Date Received: 10/24/95
	Client Contact: Dave Allen	Date Extracted: 10/26/95
	Client P.O:	Date Analyzed: 10/26/95

Lead*

EPA analytical methods 6010/200.7, 239.2+

Lab ID	Client ID	Matrix	Extraction°	Lead*	% Recovery Surrogate
57782	North, 9'	S	TTLC	66	95
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	3.0 mg/kg	
		W	TTLC	0.005 mg/L	
		---	STLC,TCLP	0.2 mg/L	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

+ Lead is analysed using EPA method 6010 (ICP)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/26/95 Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.000	2.053	2.028	2.03	101	100	1.2
Benzene	0.000	0.186	0.192	0.2	93	96	3.2
Toluene	0.000	0.188	0.196	0.2	94	98	4.2
Ethylbenzene	0.000	0.188	0.194	0.2	94	97	3.1
Xylenes	0.000	0.570	0.578	0.6	95	96	1.4
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil & grease)	0.0	17.9	18.4	20.8	86	88	2.8

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/27/95 Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.000	2.053	2.028	2.03	101	100	1.2
Benzene	0.000	0.186	0.192	0.2	93	96	3.2
Toluene	0.000	0.188	0.196	0.2	94	98	4.2
Ethylbenzene	0.000	0.188	0.194	0.2	94	97	3.1
Xylenes	0.000	0.570	0.578	0.6	95	96	1.4
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/28/95 Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.000	1.827	1.802	2.03	90	89	1.4
Benzene	0.000	0.192	0.182	0.2	96	91	5.3
Toluene	0.000	0.198	0.188	0.2	99	94	5.2
Ethylbenzene	0.000	0.204	0.194	0.2	102	97	5.0
Xylenes	0.000	0.630	0.600	0.6	105	100	4.9
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/30/95 Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.000	2.095	2.092	2.03	103	103	0.2
Benzene	0.000	0.198	0.184	0.2	99	92	7.3
Toluene	0.000	0.200	0.186	0.2	100	93	7.3
Ethylbenzene	0.000	0.200	0.186	0.2	100	93	7.3
Xylenes	0.000	0.590	0.552	0.6	98	92	6.7
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 10/26/95 Matrix: Soil

Analyte	Concentration (mg/kg,mg/L) Sample	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
Total Lead	0.0	4.7	4.7	5	94	93	0.2
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STLC Lead	0.00	4.96	4.94	5.0	99	99	0.4
TCLP Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

#5123AASEX8

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

Chain of Custody

DATE 10-23-95 PAGE 1 OF 1

SAMPLERS (SIGNATURE) D. Allen (PHONE NO.) 820-9391

PROJECT NAME EMERYVILLE PROPERTIES NO. 2908

ADDRESS

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

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/NUETRALS, ACIDS (EPA 625/8270)	OIL & GREASE (EPA 5520 E&F or B&F)	LUFT METALS (5) (EPA 6010+7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC- CAM WET (EPA 1311/1310)	REACTIVITY CORROSIVITY IGNITABILITY	COMPOSITE INTO 1	TOTAL EXTRACTABLE HYD. FULL RANGE	TOTAL LEAD		
NORTH, 9'	10/23	16:10	SOIL	1		X													X	X	
MIDDLE, 9'		16:20		1		X													X		
SOUTH, 9'		16:30		1		X													X		
NORTH, 12'		17:10		1		X													X		
SOUTH, 12'		17:0		1		X													X		
STKP	↓	18:05	↓	3		X												X	X		

57782
57783
57784
57785
57786
57787

VOAS | O&G | METALS | OTHER

INTACT ✓
COOL CONDITION ✓
HEAD SPACE ABSENT ✓

PRESERVATIVE APPROPRIATE ✓
CONTAINERS ✓

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
D. Allen 14:07	Michael Dubois 14:07	Michael Dubois 17:45	Angela Rydelius 17:45	STANDARD
(signature) (time)	(signature) (time)	(signature) (time)	(signature) (time)	T.A.T.
D. Allen 10-24-95	Michael DuBois 10/23/95	Michael Dubois 10/24/95	Angela Rydelius 10/24/95	
(printed name) (date)	(printed name) (date)	(printed name) (date)	(printed name) (date)	
Company- ASE, Inc	Company- AERO	Company- AERO	Company- McCampbell	

A.A.L.O

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Rd., # 4 San Ramon, CA 94583	Client Project ID: # 2908; Emeryville Properties	Date Sampled: 10/23/95
		Date Received: 10/24/95
	Client Contact: Dave Allen	Date Extracted: 11/13-11/15/95
	Client P.O:	Date Analyzed: 11/16/95

Lead*

EPA analytical methods 6010/200.7, 239.2+

Lab ID	Client ID	Matrix	Extraction°	Lead*	% Recovery Surrogate
57782	North, 9'	S	STLC	2.0	NA
57785	North, 12'	S	TTLC	6.3	102
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	3.0 mg/kg	
		W	TTLC	0.005 mg/L	
		---	STLC,TCLP	0.2 mg/L	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

+ Lead is analysed using EPA method 6010 (ICP)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 11/16/95 Matrix: Soil

Analyte	Concentration (mg/kg,mg/L) Sample	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
Total Lead	0.0	4.9	5.0	5	98	100	1.6
Total Cadmium	0.0	5.3	5.2	5	105	104	1.1
Total Chromium	0.0	5.1	5.1	5	103	103	0.0
Total Nickel	0.0	5.0	5.0	5	100	100	0.2
Total Zinc	0.0	5.1	5.1	5	102	102	0.2
STLC Lead	0.00	4.90	4.83	5.0	98	97	1.4
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

5123A
*5123AASEX8

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

Chain of Custody

DATE 10-23-95 PAGE 1 OF 1

SAMPLERS (SIGNATURE) D. Allen (PHONE NO.) 820-9391

PROJECT NAME EMERYVILLE PROPERTIES NO. 2.9 05

ADDRESS

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

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/NUETRALS, ACIDS (EPA 625/8270)	OIL & GREASE (EPA 5520 E&F or B&F)	LUFT METALS (5) (EPA 6010+7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC- CAM WET (EPA 1311/1310)	REACTIVITY CORROSIVITY IGNITABILITY	COMPOSITE INTO 1	TOTAL EXTRACTABLE HYDROCARBONS Full Range	TOTAL LEAD	STLC Pb
NORTH, 9'	10/23	16:10	SOIL	1		X													X	X	X RUSH 11-13 pm
MIDDLE, 9'		16:20		1		X													X		
SOUTH, 9'		16:30		1		X													X		
NORTH, 12'		17:10		1		X													X	X 72 Hr 11-13 pm	
SOUTH, 12'		17:0		1		X													X		
STKP	↓	18:05	↓	3		X												X	X		

57782
57783
57784
57785
57786
57787

VOAs [illegible] PRESERVATIVE APPROPRIATE CONTAINERS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
D. Allen 14:07	Michael Dubois 14:07	Michael Dubois 17:45	Angela Rydelius 17:45	STANDARD T.A.T.
(signature) (time)	(signature) (time)	(signature) (time)	(signature) (time)	
D. Allen 10-24-95	Michael DuBois 10/23/95	Michael Dubois 10/24/95	Angela Rydelius 10/24/95	
(printed name) (date)	(printed name) (date)	(printed name) (date)	(printed name) (date)	
Company- ASE, Inc.	Company- AEI	Company- AEI	Company- McCampbell Analytical	

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Rd., # 4 San Ramon, CA 94583	Client Project ID: # 2908; Emeryville Properties	Date Sampled: 11/13/95
		Date Received: 11/14/95
	Client Contact: David Allen	Date Extracted: 11/17/95
	Client P.O:	Date Analyzed: 11/17-11/19/95

Volatile Organics By GC/MS

EPA method 624 or 8240

Lab ID	58676
Client ID	STKP-11/13
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone (b)	ND< 100	0.5	5	cis-1,3-Dichloropropene	ND< 100	0.5	5
Benzene	ND< 100	0.5	5	trans-1,3-Dichloropropene	ND< 100	0.5	5
Bromodichloromethane	ND< 100	0.5	5	Ethylbenzene	340	0.5	5
Bromoform	ND< 100	0.5	5	Methyl butyl ketone (d)	ND< 100	0.5	5
Bromomethane	ND< 100	0.5	5	Methylene Chloride(e)	ND< 100	0.5	5
Carbon Disulfide	ND< 100	0.5	5	Methyl ethyl ketone (f)	ND< 100	0.5	5
Carbon Tetrachloride	ND< 100	0.5	5	Methyl isobutyl ketone (g)	ND< 100	0.5	5
Chlorobenzene	ND< 100	0.5	5	Styrene (k)	ND< 100	0.5	5
Chloroethane	ND< 100	0.5	5	1,1,2,2-Tetrachloroethane	ND< 100	0.5	5
2-Chloroethyl Vinyl Ether(c)	ND< 100	0.5	5	Tetrachloroethene	ND< 100	0.5	5
Chloroform	ND< 100	0.5	5	Toluene (l)	ND< 100	0.5	5
Chloromethane	ND< 100	0.5	5	1,1,1-Trichloroethane	ND< 100	0.5	5
Dibromochloromethane	ND< 100	0.5	5	1,1,2-Trichloroethane	ND< 100	0.5	5
1,2-Dichlorobenzene	ND< 100	0.5	5	Trichloroethene	ND< 100	0.5	5
1,3-Dichlorobenzene	ND< 100	0.5	5	Trichlorofluoromethane	ND< 100	0.5	5
1,4-Dichlorobenzene	ND< 100	0.5	5	Vinyl Acetate (m)	ND< 100	0.5	5
1,1-Dichloroethane	ND< 100	0.5	5	Vinyl Chloride (n)	ND< 100	0.5	5
1,2-Dichloroethane	ND< 100	0.5	5	Xylenes, total (o)	5200	0.5	5
1,1-Dichloroethene	ND< 100	0.5	5	**Surrogate Recoveries (%)**			
cis-1,2-Dichloroethene	ND< 100	0.5	5	Dibromofluoromethane	112		
trans-1,2-Dichloroethene	ND< 100	0.5	5	Toluene-d8	98		
1,2-Dichloropropane	ND< 100	0.5	5	4-Bromofluorobenzene	108		

Comments: j

* water and vapor samples are reported in ug/L, soil samples in ug/kg and all TCLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~ 5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Rd., # 4 San Ramon, CA 94583	Client Project ID: # 2908; Emeryville Properties	Date Sampled: 11/13/95
		Date Received: 11/14/95
	Client Contact: David Allen	Date Extracted: 11/14/95
	Client P.O:	Date Analyzed: 11/14-11/16/95

CAM / CCR 17 Metals*

EPA methods 6010/200.7; 7470/245.1 (Hg); 7060/206.2 (As); 7740/270.2 (Se); 7841/279.2 (Tl); 239.2 (Pb, water matrix)

Lab ID	58676				Reporting Limit		
Client ID	STKP-11/13						
Matrix	S				S	W	STLC / TCLP
Extraction°	TTLC				TTLC	TTLC	
Compound	Concentration*				mg/kg	mg/L	mg/L
Antimony (Sb)	ND				2.5	0.05	0.05
Arsenic (As)	5.7				2.5	0.005	0.25
Barium (Ba)	150				1.0	0.05	0.05
Beryllium (Be)	ND				0.5	0.01	0.01
Cadmium (Cd)	0.64				0.5	0.01	0.01
Chromium (Cr)	34				0.5	0.005	0.05
Cobalt (Co)	8.5				2.0	0.02	0.05
Copper (Cu)	61				2.0	0.02	0.05
Lead (Pb)	60				3.0	0.005	0.2
Mercury (Hg)	ND				0.06	0.0008	0.0008
Molybdenum (Mo)	ND				2.0	0.05	0.05
Nickel (Ni)	46				2.0	0.02	0.05
Selenium (Se)	ND				2.5	0.005	0.25
Silver (Ag)	ND				1.0	0.01	0.05
Thallium (Tl)	ND				0.5	0.001	0.05
Vanadium (V)	28				2.0	0.05	0.05
Zinc (Zn)	100				1.0	0.05	0.05
% Recovery Surrogate	94						
Comments							

* water samples are reported in mg/L, soil samples in mg/kg and all TCLP & STLC extracts in mg/L

ND means not detected above the reporting limit

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Rd., # 4 San Ramon, CA 94583	Client Project ID: # 2908; Emeryville Properties	Date Sampled: 11/13/95
		Date Received: 11/14/95
	Client Contact: David Allen	Date Extracted: 11/17-11/19/95
	Client P.O:	Date Analyzed: 11/20/95

Lead*

EPA analytical methods 6010/200.7, 239.2+

Lab ID	Client ID	Matrix	Extraction°	Lead*	% Recovery Surrogate
58676	STKP-11/13	S	STLC	1.1	NA
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	3.0 mg/kg	
		W	TTLC	0.005 mg/L	
		---	STLC,TCLP	0.2 mg/L	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

+ Lead is analysed using EPA method 6010 (ICP)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

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Aqua Science Engineers, Inc. 2411 Old Crow Canyon Rd., # 4 San Ramon, CA 94583	Client Project ID: # 2908; Emeryville Properties	Date Sampled: 11/13/95
		Date Received: 11/14/95
	Client Contact: David Allen	Date Extracted: 11/16/95
	Client P.O:	Date Analyzed: 11/16/95

RCI (Reactivity, Corrosivity & Ignitability)

CA Title 22, Section 66261.21-66261.23

Lab ID	Client ID	Matrix	Reactivity+	Corrosivity (pH)	Ignitability°
58676	STKP-11/13	S	negative	6.60	negative

+ negative means no obvious reaction with water, no evolution of gas upon contact with water, appears to contain no reactive cyanide or sulfide (< ~ 5 mg/kg cyanide and 50mg/kg sulfide by EPA SW-846, chapter 7, modified), and shows no indication of explosivity.

o negative for a soil means the absence of spontaineous combustion and the absence of flammability upon exposure to a naked flame.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR VOCs (EPA 8240/8260)

Date: 11/17/95-11/19/95 Matrix: Soil

Analyte	Concentration (ug/kg)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
1,1-Dichloroethe	0.0	90.3	81.4	100	90	81	10.4
Trichloroethene	0.0	85.4	76.8	100	85	77	10.6
EDB	0.0	101.0	90.5	100	101	91	11.0
Chlorobenzene	0.0	111.0	99.0	100	111	99	11.4
Benzene	0.0	104.7	91.6	100	105	92	13.3
Toluene	0.0	109.0	94.1	100	109	94	14.7

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR METALS

Date: 11/16/95 Matrix: Soil

Extraction: TTLC

Analyte	Concentration (mg/kg,mg/L)			Amount	% Recovery		RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Arsenic	0.0	4.6	4.3	5.0	92	87	5.7
Selenium	0.0	4.5	4.1	5.0	90	83	8.7
Molybdenum	0.0	4.5	4.2	5.0	90	84	6.4
Silver	0.0	0.5	0.4	0.5	93	85	8.6
Thallium	0.0	4.6	4.1	5.0	92	82	11.4
Barium	0.0	4.4	4.1	5.0	89	82	7.7
Nickel	0.0	4.6	4.2	5.0	92	84	8.9
Chromium	0.0	4.7	4.4	5.0	94	88	6.4
Vanadium	0.0	4.5	4.1	5.0	89	81	9.1
Beryllium	0.0	4.8	4.4	5.0	96	88	9.3
Zinc	0.0	4.6	4.3	5.0	92	85	7.5
Copper	0.0	4.5	4.1	5.0	90	81	10.0
Antimony	0.0	4.5	4.1	5.0	89	83	7.7
Lead	0.0	4.5	4.2	5.0	91	85	7.1
Cadmium	0.0	4.8	4.5	5.0	95	91	4.8
Cobalt	0.0	4.7	4.3	5.0	94	86	9.5
Mercury	0.000	0.202	0.202	0.25	81	81	0.0

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 11/20/95 Matrix: Soil

Analyte	Concentration (mg/kg, mg/L)			Amount	% Recovery		RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Total Lead	0.0	4.2	4.1	5	83	81	2.2
Total Cadmium	0.0	4.3	4.2	5	85	84	1.4
Total Chromium	0.0	4.3	4.2	5	85	83	1.9
Total Nickel	0.0	4.1	4.1	5	82	81	0.5
Total Zinc	0.0	4.0	4.0	5	81	80	0.7
STLC Lead	0.00	5.20	4.77	5.0	104	95	8.6
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

CHROMALAB, INC.

Environmental Services (SDB)

November 17, 1995 *Submission #:* 9511222

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: A.S./E.P. *Project#:* 5271
Received: November 14, 1995

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3550/8270

SampleID: **STKP-11/13**
Sample #: 110472 *Matrix:* SOIL *Extracted:* November 14, 1995
Sampled: November 13, 1995 *Run:* 9371-A *Analyzed:* November 16, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	1.0	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	1.0	N.D.	--
2-CHLOROPHENOL	N.D.	1.0	N.D.	74
1,3-DICHLOROBENZENE	N.D.	1.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	1.0	N.D.	--
BENZYL ALCOHOL	N.D.	2.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	1.0	N.D.	--
o-METHYLPHENOL	N.D.	1.0	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	1.0	N.D.	--
m+p-METHYLPHENOL	N.D.	2.0	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	1.0	N.D.	64
HEXACHLOROETHANE	N.D.	1.0	N.D.	--
NITROBENZENE	N.D.	1.0	N.D.	--
ISOPHORONE	N.D.	1.0	N.D.	--
2-NITROPHENOL	N.D.	1.0	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	1.0	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	1.0	N.D.	--
2,4-DICHLOROPHENOL	N.D.	1.0	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	1.0	N.D.	62
NAPHTHALENE	2.0	1.0	N.D.	--
4-CHLOROANILINE	N.D.	2.0	N.D.	--
HEXACHLOROBUTADIENE	N.D.	1.0	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	2.0	N.D.	89
2-METHYLNAPHTHALENE	3.2	1.0	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	1.0	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	1.0	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	1.0	N.D.	--
2-CHLORONAPHTHALENE	N.D.	5.0	N.D.	--
2-NITROANILINE	N.D.	1.0	N.D.	--
DIMETHYL PHTHALATE	N.D.	5.0	N.D.	--
ACENAPHTHYLENE	N.D.	1.0	N.D.	--
3-NITROANILINE	N.D.	5.0	N.D.	--
ACENAPHTHENE	N.D.	1.0	N.D.	71
2,4-DINITROPHENOL	N.D.	5.0	N.D.	--
4-NITROPHENOL	N.D.	5.0	N.D.	--
DIBENZOFURAN	N.D.	1.0	N.D.	--
2,4-DINITROTOLUENE	N.D.	1.0	N.D.	--
2,6-DINITROTOLUENE	N.D.	2.0	N.D.	--
DIETHYL PHTHALATE	N.D.	5.0	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

November 17, 1995

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: A.S./E.P. *Project#:* 5271
Received: November 14, 1995

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3550/8270

SampleID: **STKP-11/13**
Sample #: 110472 *Matrix:* SOIL *Extracted:* November 14, 1995
Sampled: November 13, 1995 *Run:* 9371-A *Analyzed:* November 16, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
4-CHLOROPHENYL PHENYL ETHER	N.D.	1.0	N.D.	--
FLUORENE	N.D.	1.0	N.D.	--
4-NITROANILINE	N.D.	5.0	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	5.0	N.D.	--
N-NITROSO-DI-N-PHENYLAMINE	N.D.	1.0	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	1.0	N.D.	--
HEXACHLOROBENZENE	N.D.	1.0	N.D.	--
PENTACHLOROPHENOL	N.D.	5.0	N.D.	68
PHENATHRENE	N.D.	1.0	N.D.	--
ANTHRACENE	N.D.	1.0	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	5.0	N.D.	--
FLUORANTHENE	N.D.	1.0	N.D.	--
PYRENE	N.D.	1.0	N.D.	55
BUTYL BENZYL PHTHALATE	N.D.	5.0	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	2.0	N.D.	--
BENZO(A)ANTHRACENE	N.D.	1.0	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	6.6	5.0	N.D.	--
CHRYSENE	N.D.	1.0	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	5.0	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	1.0	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	2.0	N.D.	--
BENZO(A)PYRENE	N.D.	0.5	N.D.	--
INDENO(1,2,3 C,D)PYRENE	N.D.	2.0	N.D.	--
DIBENZ(A,H)ANTHRACENE	N.D.	2.0	N.D.	--
BENZ(G,H,I)PERYLENE	N.D.	2.0	N.D.	--

For above analyte: *REPORTING LIMITS RAISED BY 10X DUE TO MATRIX INTERFERENCE*

Alex Tam
Chemist

Eric Tam
Laboratory Director

C.V. CCC/ 110+fC

24994

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
PACHECO, CA 94553
(510) 798-1620 FAX (510) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☐ 5 DAY

REPORT TO: Ed Hamilton BILL TO: MAI

COMPANY: McCampbell

TELE: ABOVE FAX #:

PROJECT NUMBER: 5271 PROJECT NAME: A.S./E.P.

PROJECT LOCATION: SAMPLER SIGNATURE:

SAMPLE ID	LOCATION	SAMPLING DATE	SAMPLING TIME	# CONTAINERS	TYPE CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	METHOD PRESERVED: HCL	HNO_3	OTHER ice	BTEX & TPH as Gasoline (602/8020 & 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/5520 B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080 - PCBs Only	EPA 624/8240/8260	EPA 625/8270	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7240/7421/239.2/6010)	ORGANIC LEAD	RCI	COMMENTS
STKP-11/13	Emeryville	11-13-95	14:05	1	VOA		X						X										X						586776

RUSH

SUBM #: 9511222 REP: GC
CLIENT: MCCAM
DUE: 11/17/95
REF #:24994

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Heidi Rucker	11/14/95	1446	
RELINQUISHED BY	DATE	TIME	RECEIVED BY
	11-14-95	15:10	
RELINQUISHED BY	DATE	TIME	RECEIVED BY LABORATORY
			Mimie Pak 11/14/95 1510

REMARKS: 72 HR. TAT

AASEX18 5271

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

Chain of Custody

DATE 11-13-95 PAGE 1 OF 1

SAMPLERS (SIGNATURE) D. Allen (PHONE NO.) 820-9391

PROJECT NAME EMERYVILLE PROPERTIES NO. 2908

ADDRESS EMERYVILLE, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

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)	OIL & GREASE (EPA 5520 E&F or B&F)	LUFT METALS (5) (EPA 6010+7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC- CAM WET (EPA 1311/1310)	REACTIVITY CORROSIVITY IGNITABILITY	STLC Pb 11-17-95 Due 11-22-95	Composite 4 into 1			
STKP-11/13	11/13	14:05	SOIL	4						X	X			X			X	X	X			

58676

ICED ✓ GOOD CONDITION ✓ HEAD SPACE ABSENT ✓ PRESERVATIVE APPROPRIATE CONTAINERS ✓ VOAS | O&G | METALS | OTHER

RELINQUISHED BY:	RECEIVED BY: #730	RELINQUISHED BY: #730	RECEIVED BY LABORATORY:	COMMENTS:
D. Allen 10:30 (signature) (time)	DON DELLARO (signature) (time)	Don Dellaro (signature) (time)	Heidi Ricca 11:05 (signature) (time)	3-DAY RESULTS.
D. Allen 11/14/95 (printed name) (date)	Don Dellaro 10:30 (printed name) (date)	Don Dellaro 11/14/95 (printed name) (date)	HEIDI RICCA 11-14-95 (printed name) (date)	
Company- ASE	AERO Company- 11/14/95	AERO Company- 11:05	McCampbell Company-	

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Rd., # 4 San Ramon, CA 94583	Client Project ID: Emeryville Properties	Date Sampled: 11/06/95
		Date Received: 11/06/95
	Client Contact: Robert Kitay	Date Extracted: 11/08/95
	Client P.O:	Date Analyzed: 11/08/95

Diesel Range (C10-C23), Motor Oil Range (> C18) Extractable Hydrocarbons as Diesel & Motor Oil *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	TPH(mo)+	% Recovery Surrogate
58290	MW-1	W	ND	ND	97
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	250 ug/L	
		S	1.0 mg/kg	5.0 mg/kg	

* water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Rd., # 4 San Ramon, CA 94583	Client Project ID: Emeryville Properties	Date Sampled: 11/06/95
		Date Received: 11/06/95
	Client Contact: Robert Kitay	Date Extracted: 11/06-11/07/95
	Client P.O:	Date Analyzed: 11/06-11/07/95

Volatile Organics By GC/MS

EPA method 624 or 8240

Lab ID	58290
Client ID	MW-1
Matrix	W

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone (b)	ND	2	5	cis-1,3-Dichloropropene	ND	2	5
Benzene	ND	2	5	trans-1,3-Dichloropropene	ND	2	5
Bromodichloromethane	ND	2	5	Ethylbenzene	ND	2	5
Bromoform	ND	2	5	Methyl butyl ketone (d)	ND	2	5
Bromomethane	ND	2	5	Methylene Chloride(e)	ND	2	5
Carbon Disulfide	ND	2	5	Methyl ethyl ketone (f)	ND	3	5
Carbon Tetrachloride	ND	2	5	Methyl isobutyl ketone (g)	ND	2	5
Chlorobenzene	ND	2	5	Styrene (k)	ND	2	5
Chloroethane	ND	2	5	1,1,2,2-Tetrachloroethane	ND	2	5
2-Chloroethyl Vinyl Ether(c)	ND	2	5	Tetrachloroethene	7.9	2	5
Chloroform	ND	2	5	Toluene (l)	4.0	2	5
Chloromethane	ND	2	5	1,1,1-Trichloroethane	ND	2	5
Dibromochloromethane	ND	2	5	1,1,2-Trichloroethane	ND	2	5
1,2-Dichlorobenzene	ND	2	5	Trichloroethene	5.8	2	5
1,3-Dichlorobenzene	ND	2	5	Trichlorofluoromethane	ND	2	5
1,4-Dichlorobenzene	ND	2	5	Vinyl Acetate (m)	ND	2	5
1,1-Dichloroethane	ND	2	5	Vinyl Chloride (n)	ND	2	5
1,2-Dichloroethane	ND	2	5	Xylenes, total (o)	7.8	2	5
1,1-Dichloroethene	ND	2	5	**Surrogate Recoveries (%)**			
cis-1,2-Dichloroethene	2.6	2	5	Dibromofluoromethane	105		
trans-1,2-Dichloroethene	ND	2	5	Toluene-d8	101		
1,2-Dichloropropane	ND	2	5	4-Bromofluorobenzene	94		

Comments:

* water and vapor samples are reported in ug/L, soil samples in ug/kg and all TCLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~ 5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 11/08/95-11/09/95 Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.0	96.4	97.6	100	96	98	1.3
Benzene	0	10.3	10	10	103.0	100.0	3.0
Toluene	0	10.4	10.1	10	104.0	101.0	2.9
Ethyl Benzene	0	10.5	10.3	10	105.0	103.0	1.9
Xylenes	0	32	31.5	30	106.7	105.0	1.6
TPH (diesel)	0	155	157	150	104	104	0.8
TRPH (oil & grease)	0	19900	19900	23700	84	84	0.0

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR VOCs (EPA 624/8240/8260)

Date: 11/06/95-11/07/95 Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
1,1-Dichloroethe	0.00	8.73	8.33	10.0	87	83	4.7
Trichloroethene	0.00	8.00	7.50	10.0	80	75	6.5
EDB	0.00	9.59	9.32	10.0	96	93	2.9
Chlorobenzene	0.00	10.40	9.78	10.0	104	98	6.1
Benzene	0.00	9.92	9.53	10.0	99	95	4.0
Toluene	0.00	9.19	8.60	10.0	92	86	6.6

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

5212AASEX16

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

Chain of Custody

DATE 11-6-95 PAGE 1 OF 1

SAMPLERS (SIGNATURE) (PHONE NO.)
Robert E. Kitay (510) 820-9391

PROJECT NAME Emeryville Properties NO.
ADDRESS Emeryville, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

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/NUETRALS, ACIDS (EPA 625/8270)	OIL & GREASE (EPA 5520 E&F or B&F)	LUFT METALS (5) (EPA 6010+7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC- CAM WET (EPA 1311/1310)	REACTIVITY CORROSIVITY IGNITABILITY	Total Extractable Full Range
MW-[illegible]	11/6	12:20	water	5						X								X

58290

ICE? ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
VOAS ✓ O&G [illegible] METALS ✓
PRESERVATIVE ✓
APPROPRIATE ✓
CONTAINERS ✓

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
Robert E. Kitay 13:48	Heidi Ricca 1348			Standard T.A.T.
(signature) (time)	(signature) (time)	(signature) (time)	(signature) (time)	
Robert E. Kitay 13:49	Heidi Ricca 11-6-95			
(printed name) (date)	(printed name) (date)	(printed name) (date)	(printed name) (date)	
Company- ASE	Company- McCampbell	Company-	Company-	