

10,000 gal in-place closure
diesel tank

**UST ABANDONMENT REPORT
ALAMEDA COUNTY JUVENILE HALL
2200 Fairmont Drive
San Leandro, California**

Prepared for

Alameda County General Services Agency
1401 Lakeside Drive
Oakland, California

Prepared by

Professional Service Industries
1320 West Winton Avenue,
Hayward, California 94545
(510) 785-1111

August 18, 1998
575-8G019

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STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

Information provided in this UST Abandonment Report prepared by Professional Service Industries (PSI) is intended exclusively for Alameda General Services Agency for the evaluation of UST abandonment as it pertains to the subject site. The professional services provided have been performed in accordance with practices generally accepted by other geologists, hydrologists, hydrogeologists, engineers, and environmental scientists practicing in this field. No other warranty, either expressed or implied, is made. As with all subsurface investigations, there is no guarantee that the work conducted will identify any and all sources or locations of contamination.

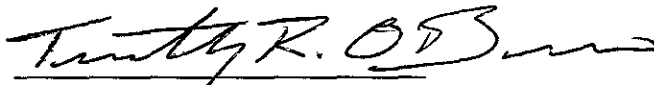
This report is issued with the understanding that PSI, Inc. is responsible for ensuring that the information contained in this report is brought to the attention of the appropriate regulatory agency.



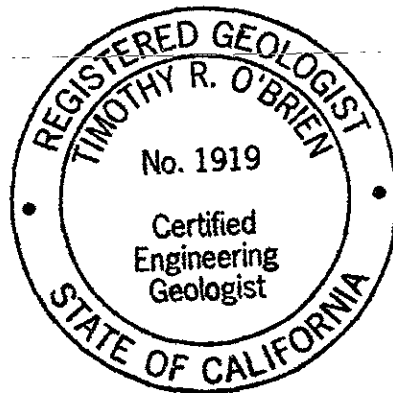
Chris Merritt
Project Geologist



Frank R. Poss
Senior Hydrogeologist



Timothy R. O'Brien, RG\CEG\CHG
Senior Geologist



1.0 INTRODUCTION

Professional Services Industries, Inc. (PSI) contracted with Alameda GSA to abandon one underground storage tank (UST) at the property at 2200 Fairmont Drive, San Leandro, California (site map, Figure 1). This UST Abandonment Report summarizes tank abandonment activities, collection of soil samples, and analytical results for the abandonment of one 10,000-gallon diesel UST and the associated fuel delivery system. The work was conducted in accordance with the PSI proposal for UST abandonment dated March 25, 1998.

2.0 SITE BACKGROUND

The UST was located at the Alameda General Services Agency's (GSA's) Juvenile Hall Facility at 2200 Fairmont Drive, San Leandro, California (Figure 1). The UST was installed in 1970 and stored diesel fuel. The UST was constructed of single-walled steel with single wall copper piping for product lines and steel piping for vent lines. Product was utilized as boiler and emergency generator fuel. The base of the UST was approximately 12 feet below ground surface. The UST was closed because it was no longer needed. Alameda General Services Agency procured tank cleaning services to have the tank and product lines cleaned prior to the abandonment of the tank. The residual product and rinseate manifest and procedures for this are included in Appendix A.

3.0 GEOLOGY/HYDROGEOLOGY

The site is located in the San Francisco Bay Area, a structural valley in the central portion of the Coastal Range Geomorphic Province. The site is located east of the San Francisco Bay. The site is approximately 240 feet above mean sea level (msl).

Native soil consisted of clayey sand that was dark grayish brown to orange brown in color and contains as much as 20 percent angular fragments of shale and sandstone. The soils at this site are predominately derived from cutting\grading activities for urban development.

4.0 FIELD PROCEDURES

Prior to initiation of abandonment activities, PSI obtained UST permits from the Alameda County Fire Department (ACFD) and Alameda County Department of Environmental Health (ACDEH). A site-specific health and safety plan to be used during excavation and abandonment was written to comply with Uniform Fire Code and health and safety requirements. Copies of the UST abandonment permits are included in Appendix A.

Approximately 310 gallons of residual rinsewater were removed from the tank with a vacuum truck prior to filling the tank with concrete slurry. The Bill of Lading and Non Hazardous Waste Manifest are included in Appendix A

In accordance with ACDEH requirements, soil samples were obtained from within 2 feet of the base of the tank pit in native soil. Soil sample collection was performed with manual sampling equipment by PSI personnel in accordance with soil sampling procedures (Appendix B). Soil sample locations are shown on Figure 2.

how?

Abandonment of the 10,000-gallon UST and associated activities was accomplished by PSI on June 18, 1998 using concrete pumping equipment. Approximately 50 cubic yards of six-sack sand/cement slurry were utilized to fill the tank. A vibratory rod was utilized to insure uniform filling and dispersal of the slurry within the tank. Nick Chimento of the ACFD and Rob Weston of the ACDEH were on site to observe abandonment activities.

5.0 SOIL SAMPLING, ANALYTICAL METHODS, AND RESULTS

On May 27, 1998, soil sampling was conducted to serve as the confirmation sampling for the tank abandonment. Soil samples were obtained from along the run of the product feed and return lines and from below and just outside each end of the tank.

The soil samples were analyzed by McCampbell Analytical, Inc., a California state-certified hazardous waste analytical laboratory. All soil samples were analyzed for the following:

- Total Petroleum Hydrocarbons as Diesel (TPH-D) by EPA Method 8015;
- Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX) in accordance with EPA Method 8020;

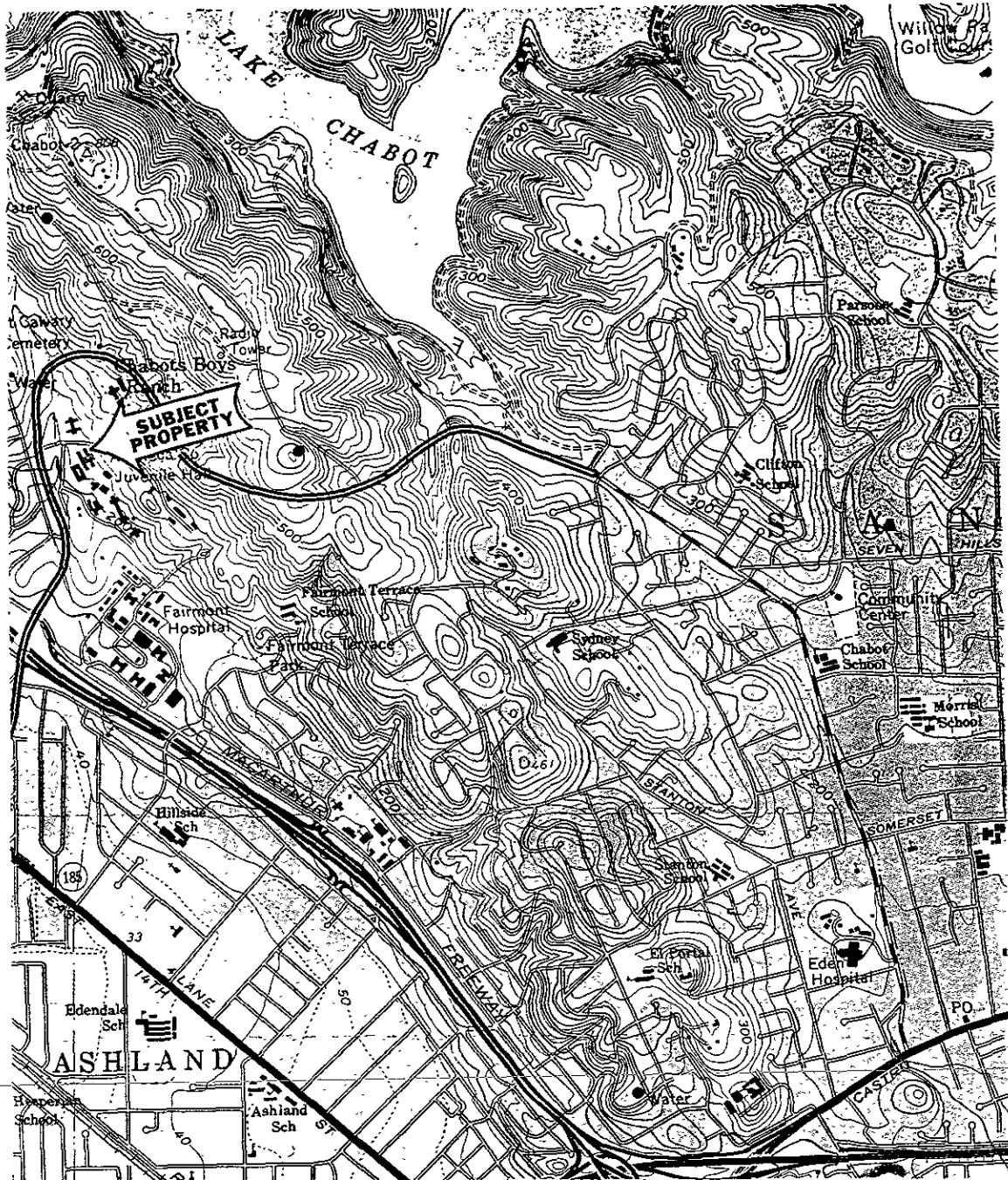
Laboratory Reports and Chain-Of-Custody records are included in Appendix C.

The soil samples collected from the ends of the UST did not contain concentrations of TPH-D or BTEX at or above the laboratory detection limits (ND). TPH-D was detected in soil samples B1-3.0 (1.7mg/kg), B2-1.5 (9.0 mg/kg), B3-2.0 (3.5 mg/kg), B4-1.5 (2.0 mg/kg), B5-2.5 (2.2 mg/kg), B6-2.5 (3.6 mg/kg), and B10-2.5 (1.1 mg/kg) obtained from along the piping run. BTEX was not detected in any of the piping run samples.

6.0 CONCLUSIONS

Based on the visual and analytical evidence collected during the UST abandonment, PSI recommends that no additional investigation work be conducted related to this UST. PSI recommends closing the site from the local oversight agency files as a UST site.

FIGURES



PSI Environmental Geotechnical Construction
 Consulting • Engineering • Testing

1320 West Winton
 Hayward, CA 94545
 510-785-1111
 Fax 510-785-1192

PROJECT LOCATION:
 Alameda County Juvenile Hall
 2200 Fairmont Drive
 Hayward, CA .

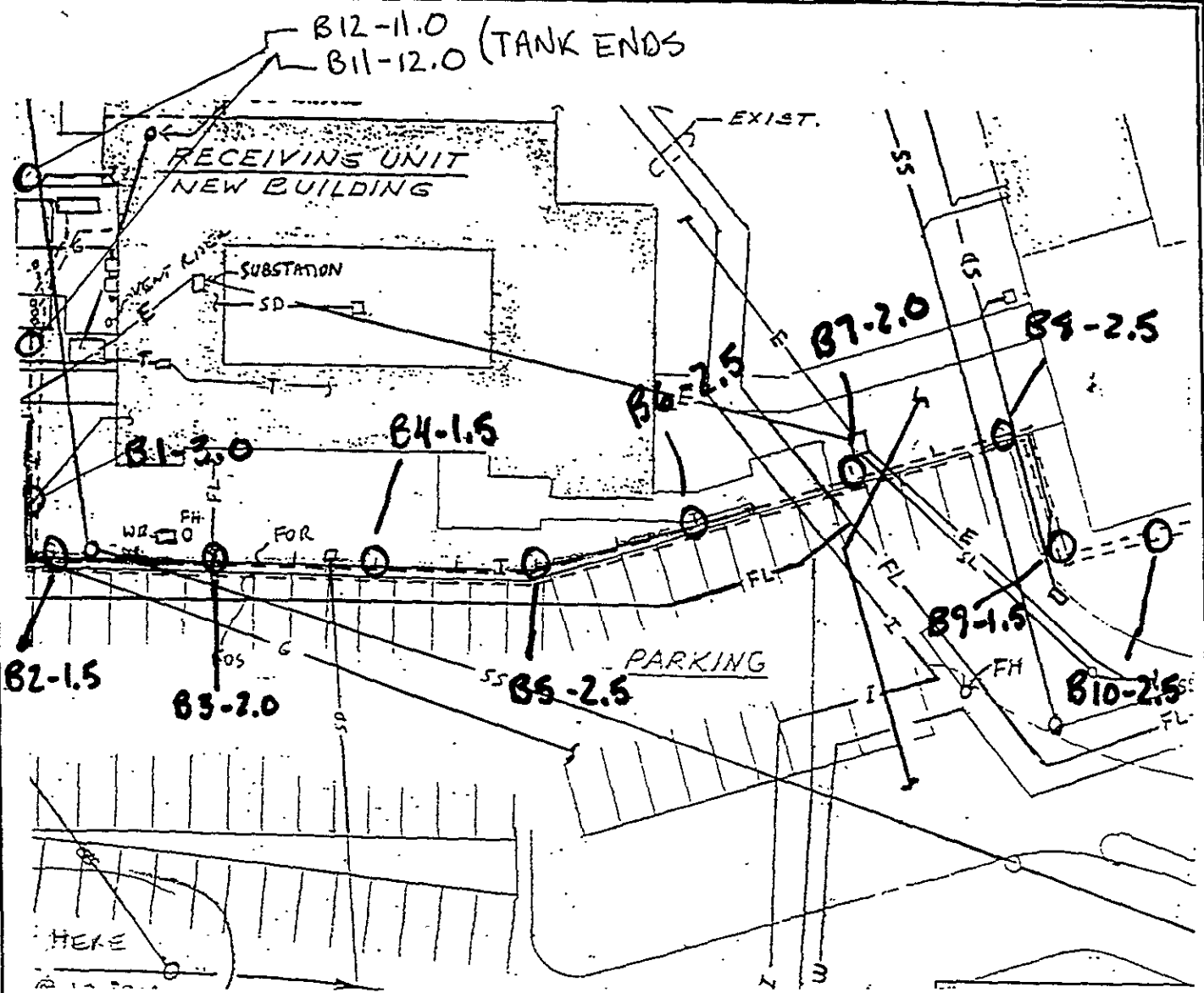
Figure 1

PROJECT NO.:
 575-8G019

SOURCE:
 USGS Topographic Map
 Hayward Quadrangle

DATE:
 1961, photorevised 1968
 and 1973

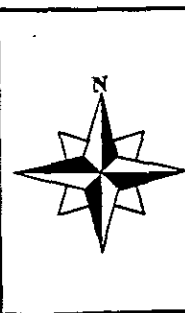




PSI Environmental Geotechnical Construction
 Consulting • Engineering • Testing
 1320 West Winton
 Hayward, CA 94545
 510-785-1111
 Fax 510-785-1192

Sample Location Map
 Alameda County Juvenile Hall
 2200 Fairmont Drive
 Hayward, CA.
Figure 2
 PROJECT NO.:
 575-8G019

SOURCE:
 USGS Topographic Map
 Hayward Quadrangle
 DATE:
 1961, photorevised 1968
 and 1973



APPENDIX A

PERMITS, AND RESIDUAL RINSEATE MANIFESTS



General Services Agency

Darlene A. Smith, Director

June 24, 1998

Mr. Chris Merritt
Professional Service Industries, Inc.
1320 West Winton Avenue
Hayward, CA 94545

SUBJECT: UNDERGROUND STORAGE TANK CLOSURE
ALAMEDA COUNTY JUVENILE HALL
2200 FAIRMONT DRIVE, SAN LEANDRO, CA

Dear Chris:

The purpose of this letter is to provide you with information regarding product removal and tank/piping cleaning activities conducted prior to PSI's in-place closure of the 10,000 gallon diesel tank at Juvenile Hall. A copy of this letter should be included in the closure report you are presently preparing.

Fuel Oil Polishing Co. was retained by Alameda County to empty and clean the tank and associated piping. On February 24, 1998, approximately 2,400 gallons of diesel fuel was removed from the tank and transported to B.C. Stocking Distributing for reuse (see attached bill of lading). Subsequent to fuel removal, Fuel Oil Polishing used a high pressure water system to triple rinse the tank and associated piping, with the exception of the FOS/FOR lines between the tank and Administration Bldg. An apparent crown in those two lines prevented Fuel Oil Polishing from adequately flushing and rinsing them. Rinsate water generated during cleaning operations was removed and disposed under Manifest No. 97306189, a copy of which is attached.

Gettler-Ryan, Inc. was retained by Alameda County to clean the FOS/FOR lines between the Administration Bldg. and the tank. On March 18, 1998, Gettler-Ryan installed pressure fittings on the end of the lines at the Administration Bldg. and flushed and rinsed them using nitrogen gas and water. Rinsate water generated during cleaning operations was contained in the tank until PSI arranged for its removal and disposal on June 16, 1998.

Sincerely,

A handwritten signature in black ink, appearing to read "Rod Freitag".

Rod Freitag, P.E.
Environmental Program Manager

attachments

RDF:rdfi:\e&em\project\env\7160juve\disposal.doc



Jobe sight
Alameda county
2200 Fairmount
San Leandro, CA

Send Payment to:
P.O. Box 1904
Vacaville, CA 95696
(800) 669-TANK

Bill of Lading / Invoice
Inv. # 2241
Date: 2-24-78

Customer Information		Ship To: EPA # CAT080012602	
Name: <u>Fuel oil Polishing</u>	Address: <u>P.O. Box 3027</u>	Name: <u>B.C. Stocking Distributing</u>	
City: <u>Rohmert Park</u> State: <u>CA</u> Zip: <u>94927</u>		Address: <u>7300 Chevron Way</u>	
		City: <u>Dixon</u> State: <u>CA</u> Zip: <u>95620</u>	
		707-792-9551	
Number	Description	Gallons	Price
	Gasoline, 3, UN1203, PG11		Flammable Liquid
	Diesel Fuel, 3, NA1993, PG111	<u>2400</u>	Combustible Liquid
	Kerosene, 3, NA1223, PG111		Combustible Liquid
	Naphtha, Solvent, 3, UN1256, PG111		Combustible Liquid
<p>This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity under applicable Department of Transportation regulations.</p>			
<p>TTS Environmental, Inc. 7300 Chevron Way Dixon, CA 95620</p>		<p>EMERGENCY RESPONSE #: 707/429-2409</p>	
<p><i>[Signature]</i> Driver's Signature</p>		<p>Net 7 Days A 1.5% Late Payment Charge will be added to all balances not paid within 15 days of this invoice.</p>	
		<p>Total Charges _____</p> <p><i>[Signature]</i> Customer's Signature</p>	

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-952-7550

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. CA41990988555	Manifest Document No. 09072	2. Page 1 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Alameda County Sanovial Services Agency (2200 Fairmont Dr) 1401 LAKESIDE DR., Rm 1115 OAKLAND, CA 94612 4. Generator's Phone (510) 728-9522			A. State (Official Document) Number 97306189		
5. Transporter 1 Company Name American Ink			B. State Generator's ID HY11031610231057		
6. US EPA ID Number NY0982358483			C. State Transporter's ID		
7. Transporter 2 Company Name			D. Transporter's Phone 408-437-0333		
8. US EPA ID Number			E. State Transporter's ID		
9. Designated Facility Name and Site Address Artesian Oil Recovery Company, Inc 2306 Magnolia Street Oakland, ca 94607			F. Transporter's Phone		
10. US EPA ID Number CA419909161741			G. State Facility's ID CA419909161741		
H. Facility's Phone 510-837-9234					
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. - Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste Number State - EPA/Other
a. NON-RCRA HAZARDOUS WASTE (oil & water)		1 - IT	1255	S	223
b.					
c.					
d.					
J. Additional Descriptions of Materials Listed Above Non-Regulated		K. Handling Codes for Wastes Listed Above a. 19/D1			
15. Special Handling Instructions and Additional Information Work gloves ER Guide 171 Emergency phone 800-471-2105					
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 Leo Freitas		Signature <i>[Signature]</i>		Month 02	Day 24
Year 98					
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Mark Maxwell		Signature <i>[Signature]</i>		Month 02	Day 24
Year 98					
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month	Day
Year					
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19					
Printed/Typed Name		Signature		Month	Day
Year					

DO NOT WRITE BELOW THIS LINE.



CLEARWATER

ENVIRONMENTAL MANAGEMENT, INC.

P.O. Box 7420 Fremont, CA 94537-7420
(800) 499-3676 Fax (510) 744-9341
CAR000007013

Bill of Lading

Invoice # **7935**

Date 6/16/98

BILLING INFORMATION

JOB SITE

NAME			NAME <u>PSI</u>			PO #	CASH	CHECK
ADDRESS			ADDRESS <u>2200 Fairmont Dr.</u>			CUSTOMER EPA ID #		
CITY	STATE	ZIP	CITY <u>San Leandro</u>	STATE <u>CA</u>	ZIP	PROFILE #		
PHONE NO.			PHONE NO. <u>785-1111</u>			CUSTOMER ID NO:		

PRODUCT	PROPER SHIPPING DESCRIPTION	WASTE CODE	MANIFEST NUMBER	QUANTITY	UNITS	PRICE	AMOUNT
Used Oil, Non-RCRA Hazardous Waste, Liquid		221			GAL.		
Used Automotive Antifreeze, Non-RCRA Hazardous Waste, Liquid		134			GAL.		
Oily Water Non RCRA Hazardous Waste Liquid					GAL.		
Non RCRA Hazardous Waste Solid Oil Contaminated Debris					GAL.		
Waste Flammable Liquid, n.o.s. UN1993, PG III					GAL.		
Non Hazardous Waste Liquid			<u>12109</u>	<u>310</u>	GAL.		
Non Hazardous Waste Solid					GAL.		
Transportation Charges					Hours		
Washout Charges					Each		
Drained Used Oil Filters					Each		
Empty Drums					Each		
Additional Labor							
Pressure Washer							
Other:							

DISPOSAL/RECYCLING FACILITY:	Collection Station <input checked="" type="checkbox"/>	Industrial <input type="checkbox"/>	Agriculture <input type="checkbox"/>	Government <input type="checkbox"/>	Marine <input type="checkbox"/>	TOTAL	
-------------------------------------	--	-------------------------------------	--------------------------------------	-------------------------------------	---------------------------------	--------------	--

- | | | |
|---|---|---|
| <input type="checkbox"/> Alviso Independent Oil
5002 Archer Street, Alviso, CA
CAL000181743
(510) 797-8511 | <input type="checkbox"/> McKittrick Waste Treatment Site
56533 Hwy 58 West, McKittrick, CA
CAD980636831
(805) 762-7388 | <input type="checkbox"/> Solvent Services, dba Laidlaw
1021 Berryessa Road, San Jose, CA
CAD059494310
(408) 451-5000 |
| <input type="checkbox"/> AETS
1125 Hensley Street, Richmond, CA
CAT080022148
(510) 233-8001 | <input type="checkbox"/> Seaport Environmental
675 Seaport Blvd, Redwood City, CA
CAD000032058
(415) 364-8154 | <input type="checkbox"/> Commercial Filter Recycling
33210 Western Ave, Union City, CA
(510) 487-9277 |
| <input type="checkbox"/> DeMerno Kerdoon
2000 N. Alameda Blvd, Compton, CA
CAT080013352
(310) 571-3700 | <input type="checkbox"/> Evergreen Oil
6880 Smith Ave, Newark, CA
CAD980887418
(510) 795-4400 | |

NET 10 DAYS

I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of the waste. All relevant information regarding known or suspected hazards associated with the wastes has been disclosed. Clearwater transports all wastes to facilities which are properly permitted and licensed to accept these wastes.

DRIVER SIGNATURE [Signature]

GENERATOR SIGNATURE [Signature]

1. Generator's US EPA ID No.

2. Page 1 of

3. Document Number

NH- No 43709

4. Generator's Name and Mailing Address

PSI 2200 FAIRBANKS DR
SAN LEANDRO CA

Profile #
475-333

Generator's Phone

765-1111

5. Transporter Company Name

Clearwater Environmental

6. US EPA ID Number

CAE000007013

7. Transporter Phone

(510) 497-8511

8. Designated Facility Name and Site Address

Alviso Independent Oil
3002 Archer St
Alviso CA 95002

9. US EPA ID Number

CA1000161743

10. Facility's Phone

(510) 777-8511

11. Waste Shipping Name and Description

(Oily Water)

12. Containers

No. Type

13. Total Quantity

14. Unit Wt/Vol

a. NONE HAZARDOUS WASTE LIQUIDS

310

G

15. Special Handling Instructions and Additional Information

Handling Codes for Wastes Listed Above

11a.

11b.

Profile #
475333

Printed/Typed Name

ROD FREITAS

Signature

[Signature]

Month Day Year
6 16 98

Printed/Typed Name

TERRY GAINES

Signature

[Signature]

Month Day Year
6 16 98

18. Discrepancy Indication Space

Printed/Typed Name

Signature

Month Day Year

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
ENVIRONMENTAL HEALTH SERVICES
1131 HARBOR BAY PARKWAY, RM 250
ALAMEDA, CA 94502-6577
PHONE # 510/567-6700

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, by 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:

ROBERT WESTON
6-18-98

98 JUN 17 AM 9:43

ENVIRONMENTAL
PROTECTION

UNDERGROUND TANK CLOSURE PLAN

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

- Name of Business ALAMEDA COUNTY JUVENILE HALL
Business Owner or Contact Person (PRINT) ROD FREITAG
- Site Address 2200 FAIRMONT DR.
City SAN LEANORO CA. Zip 94578 Phone 510-667-4498
- Mailing Address 1401 LAKESIDE DR
City OAKLAND, CA Zip 94612 Phone 510-208-9522
- Property Owner ALAMEDA COUNTY GSA
Business Name (if applicable) _____
Address 1401 LAKESIDE DR.
City, State OAKLAND, CA Zip 94612
- Generator name under which tank will be manifested
ALAMEDA COUNTY GSA
EPA ID# under which tank will be manifested CA 4000088555

6. Contractor PROFESSIONAL SERVICE INDUSTRIES

Address 1320 W. WINTON AVE

City HAYWARD, CA Phone 510-785-1111

License Type A HAZ ID# 716703

7. Consultant (if applicable) _____

Address _____

City, State _____ Phone _____

8. Main Contact Person for Investigation (if applicable)

Name CHRIS MERRITT Title GEOLOGIST

Company PROFESSIONAL SERVICE INDUSTRIES

Phone 510-785-1111

9. Number of underground tanks being closed with this plan 1

Length of piping being removed under this plan 0

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

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

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

a) Product/Residual Sludge/Rinsate Transporter

Name CLEARWATER ENVIRONMENTAL EPA I.D. No. CA2600007013

Hauler License No. 3515 License Exp. Date 11/98

Address PO BOX 7420

City FREMONT State CA zip 44537-7420

b) Product/Residual Sludge/Rinsate Disposal Site

Name ALVISO EPA ID# CA2000161743

Address 5002 ARCHER ST.

City ALVISO State CA zip 95002

c) Tank and Piping Transporter

CLOSED IN PLACE

Name _____ EPA I.D. No. _____
Hauler License No. _____ License Exp. Date _____
Address _____
City _____ State _____ Zip _____

d) Tank and Piping Disposal Site

CLOSED IN PLACE

Name _____ EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

11. Sample Collector

Name CHRIS MERRITT
Company PROFESSIONAL SERVICE INDUSTRIES
Address 1320 W. WINTON AVE
City HAYWARD, CA State _____ Zip 94545 Phone 785-1111

12. Laboratory

Name MCCAMPBELL ANALYTICAL
Address 110 SECONO AVE. SOUTH #D7
City PACHECO state CA. zip 94553
State Certification No. 1644

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

If yes, describe. _____

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

TANK AND PIPING CLEANED PREVIOUSLY BY GSA.
SMALL (300-500 GALLONS) AMOUNT OF UNCOLLECTED RINSE WATER
TO BE REMOVED 6/16/98.

Excavated/Stockpiled soil	
Stockpiled Soil Volume (estimated) <u>NONE</u>	Sampling Plan SAMPLED VIA AUGER AT TANK ENDS AND EACH 20 FEET ALONG PIPING RUN.

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

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

If yes, explain reasoning _____

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

16. Chemical methods and associated detection limits to be used for analyzing samples: 8015M (TPHd) 8020 (BTEX)

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

Before tanks are pumped out and inerted, all associated piping must be flushed back into the tank(s). All accessible piping must then be removed. Inaccessible piping must be permanently plugged using grout.

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

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

Tank		Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Samples
Capacity	Use History include date last used (estimated)		
10,000 GAL	INSTALLED 1970 10/97	TANK CONTENTS REMOVED AND TANK SUBSEQUENTLY CLEANED. SOIL SAMPLES OBTAINED AT TANK ENDS AND AT 20 FOOT INTERVALS ALONG PIPE RUN.	TANK ENDS - 11 AND 12 FEET PIPING - 1-3 FEET AS SHOWN ON DIAGRAM.

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

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

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

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

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

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

CONTRACTOR INFORMATION

Name of Business PROFESSIONAL SERVICE INDUSTRIES

Name of Individual CHRIS MERRITT

Signature CHRIS MERRITT Date 6/12/98

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business ALAMEDA COUNTY GSA

Name of Individual ROD FREITAG

Signature [Signature] Date 6/16/98

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

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
DIESEL BTEX	8015M 8020	8015M 8020	1 mg/Kg .005 mg/Kg

18. Submit Worker's Compensation Certificate copy

Name of Insurer ATTACHED19. Submit Plot Plan ***** (See Instructions) *****

20. Enclose Deposit (See Instructions)

21. ~~Report all leaks or contamination to this office within 5 days of discovery.~~

The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (ULR) form.

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

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

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A



COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY SITE CLOSURE	

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

DBA OR FACILITY NAME ALAMEDA COUNTY JUVENILE HALL		NAME OF OPERATOR ALAMEDA COUNTY GSA		
ADDRESS 2200 FAIRMONT DR.		NEAREST CROSS STREET		PARCEL # (OPTIONAL)
CITY NAME SAN LEANDRO		STATE CA	ZIP CODE 94578	SITE PHONE # WITH AREA CODE 510-667-4498
<input checked="" type="checkbox"/> BOX TO INDICATE <input type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY DISTRICTS* <input checked="" type="checkbox"/> COUNTY-AGENCY* <input type="checkbox"/> STATE-AGENCY* <input type="checkbox"/> FEDERAL-AGENCY*				
* If owner of UST is a public agency, complete the following: name of Supervisor of division, section, or office which operates the UST ROO FREITAG				
TYPE OF BUSINESS		<input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS		E. P. A. I. D. # (optional)
<input type="checkbox"/> 1 GAS STATION <input type="checkbox"/> 2 DISTRIBUTOR <input type="checkbox"/> 3 FARM <input type="checkbox"/> 4 PROCESSOR <input checked="" type="checkbox"/> 5 OTHER		# OF TANKS AT SITE 1		CAL000088555

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST) KEN SULLIVAN		PHONE # WITH AREA CODE 510-667-4498		DAYS: NAME (LAST, FIRST) ROO FREITAG		PHONE # WITH AREA CODE 510-208-9522	
NIGHTS: NAME (LAST, FIRST)		PHONE # WITH AREA CODE		NIGHTS: NAME (LAST, FIRST)		PHONE # WITH AREA CODE PLR 510-667-3200 XT0942	

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME ALAMEDA COUNTY GSA		CARE OF ADDRESS INFORMATION TECHNICAL SERVICES DEPT		
MAILING OR STREET ADDRESS 1401 LAKESIDE DR. STE 115		<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input checked="" type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY		
CITY NAME OAKLAND		STATE CA	ZIP CODE 94612	PHONE # WITH AREA CODE 510-208-9522

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER ALAMEDA COUNTY GSA		CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS 1401 LAKESIDE DR STE 115		<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input checked="" type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY		
CITY NAME OAKLAND		STATE CA	ZIP CODE 94612	PHONE # WITH AREA CODE 510-208-9522

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

TY (TK) HQ **44-000324**

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

<input checked="" type="checkbox"/> box to indicate	<input checked="" type="checkbox"/> 1 SELF-INSURED	<input type="checkbox"/> 2 GUARANTEE	<input type="checkbox"/> 3 INSURANCE	<input type="checkbox"/> 4 SURETY BOND
	<input type="checkbox"/> 5 LETTER OF CREDIT	<input type="checkbox"/> 6 EXEMPTION	<input type="checkbox"/> 99 OTHER	

VI. LEGAL NOTIFICATION AND BILLING ADDRESS Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING:	I. <input type="checkbox"/>	II. <input checked="" type="checkbox"/>	III. <input type="checkbox"/>
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THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

OWNER'S NAME (PRINTED & SIGNED) ROO FREITAG	OWNER'S TITLE ENVIRONMENTAL PROGRAM MANAGER	DATE MONTH/DAY/YEAR 6/16/98
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LOCAL AGENCY USE ONLY

COUNTY # <input type="text"/>	JURISDICTION # <input type="text"/>	FACILITY # <input type="text"/>
LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL

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

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

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: _____

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D.# <u>9072-1</u>	B. MANUFACTURED BY: <u>UNKNOWN</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>-1-1 1970</u>	D. TANK CAPACITY IN GALLONS: <u>10,000</u>

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

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

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

A. TYPE OF SYSTEM <input type="checkbox"/> 1 DOUBLE WALL <input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER <input type="checkbox"/> 4 SINGLE WALL IN A VAULT	<input type="checkbox"/> 5 INTERNAL BLADDER SYSTEM <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER _____
B. TANK MATERIAL (Primary Tank) <input checked="" type="checkbox"/> 1 BARE STEEL <input type="checkbox"/> 5 CONCRETE <input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 2 STAINLESS STEEL <input type="checkbox"/> 6 POLYVINYL CHLORIDE <input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 3 FIBERGLASS <input type="checkbox"/> 7 ALUMINUM <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER _____
C. INTERIOR LINING OR COATING <input type="checkbox"/> 1 RUBBER LINED <input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 2 ALKYD LINING <input checked="" type="checkbox"/> 8 UNLINED	<input type="checkbox"/> 3 EPOXY LINING <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER _____
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. EXTERIOR CORROSION PROTECTION <input type="checkbox"/> 1 POLYETHYLENE WRAP <input type="checkbox"/> 5 CATHODIC PROTECTION	<input checked="" type="checkbox"/> 2 COATING <input type="checkbox"/> 91 NONE	<input type="checkbox"/> 3 VINYL WRAP <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER _____
E. SPILL AND OVERFILL, etc. SPILL CONTAINMENT INSTALLED (YEAR) _____ OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) _____ DROP TUBE YES ___ NO <input checked="" type="checkbox"/> STRIKER PLATE YES ___ NO <input checked="" type="checkbox"/> DISPENSER CONTAINMENT YES ___ NO ___		

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

A. SYSTEM TYPE	<input checked="" type="radio"/> A <input type="radio"/> U 1 SUCTION	<input checked="" type="radio"/> A <input type="radio"/> U 2 PRESSURE	<input type="radio"/> A <input type="radio"/> U 3 GRAVITY	<input type="radio"/> A <input type="radio"/> U 4 FLEXIBLE PIPING	<input type="radio"/> A <input type="radio"/> U 99 OTHER
B. CONSTRUCTION	<input checked="" type="radio"/> A <input type="radio"/> U 1 SINGLE WALL	<input type="radio"/> A <input type="radio"/> U 2 DOUBLE WALL	<input type="radio"/> A <input type="radio"/> U 3 LINED TRENCH	<input type="radio"/> A <input type="radio"/> U 95 UNKNOWN	<input type="radio"/> A <input type="radio"/> U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	<input type="radio"/> A <input type="radio"/> U 1 BARE STEEL	<input type="radio"/> A <input type="radio"/> U 2 STAINLESS STEEL	<input type="radio"/> A <input type="radio"/> U 3 POLYVINYL CHLORIDE (PVC)	<input type="radio"/> A <input type="radio"/> U 4 FIBERGLASS PIPE	
	<input type="radio"/> A <input type="radio"/> U 5 ALUMINUM	<input type="radio"/> A <input type="radio"/> U 6 CONCRETE	<input type="radio"/> A <input type="radio"/> U 7 STEEL W/ COATING	<input type="radio"/> A <input type="radio"/> U 8 100% METHANOL COMPATIBLE W/FRP	
	<input type="radio"/> A <input type="radio"/> U 9 GALVANIZED STEEL	<input type="radio"/> A <input type="radio"/> U 10 CATHODIC PROTECTION	<input type="radio"/> A <input type="radio"/> U 95 UNKNOWN	<input checked="" type="radio"/> A <input type="radio"/> U 99 OTHER <u>COPPER</u>	
D. LEAK DETECTION	<input type="checkbox"/> 1 MECHANICAL LINE LEAK DETECTOR	<input checked="" type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 CONTINUOUS INTERSTITIAL MONITORING	<input type="checkbox"/> 4 ELECTRONIC LINE LEAK DETECTOR	<input type="checkbox"/> 5 AUTOMATIC PUMP SHUTDOWN
					<input checked="" type="checkbox"/> 99 OTHER <u>NONE</u>

V. TANK LEAK DETECTION

<input type="checkbox"/> 1 VISUAL CHECK	<input checked="" type="checkbox"/> 2 MANUAL INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING	<input checked="" type="checkbox"/> 6 ANNUAL TANK TESTING
<input type="checkbox"/> 7 CONTINUOUS INTERSTITIAL MONITORING	<input type="checkbox"/> 8 SIR	<input type="checkbox"/> 9 WEEKLY MANUAL TANK GAUGING	<input type="checkbox"/> 10 MONTHLY TANK TESTING	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

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

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>10/97</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>0</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input type="checkbox"/>
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THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE) <u>Rep FREITAG</u>	DATE <u>6/16/98</u>
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LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
[] [] [] []	[] []	[] [] [] []	[] [] [] [] [] [] [] []	[] [] [] [] [] [] [] []
PERMIT NUMBER	PERMIT APPROVED BY/DATE		PERMIT EXPIRATION DATE	

APPENDIX B
PSI FIELD PROCEDURES

PSI FIELD PROCEDURES FOR UST ABANDONMENT

1. Prior to abandonment of the UST, any residual product is pumped from the UST. The residual product is transported from the site under a hazardous waste manifest. The tank is cleaned and the product piping is backflushed utilizing nitrogen or water.
2. A lower explosive limit meter (LEL) is used to take a reading from the UST to ensure the vapors present in the tank are below 10% of the lower explosive limit or the oxygen is at or less than 5% of the atmosphere in the tank.
3. The UST is filled with six-sack sand/cement slurry utilizing concrete pumping equipment.

PSI FIELD PROCEDURES FOR SAMPLING BY HAND
(GRAB SAMPLES)

The following outline describes the procedures utilized by PSI for soil sampling by hand.

1. Soil was excavated to a specified depth by hand-auger, backhoe, or other excavating tool. A soil sample is collected from soil excavated at the specified depth.
2. The soil was packed into a 2-inch diameter brass or stainless steel ring, without headspace. The stainless steel ring was sealed on both ends using Teflon squares and polyethylene end caps.
- iii. Each collected soil sample is labeled, recorded on a Chain-of-Custody document, and placed on ice while awaiting transport to a certified hazardous waste laboratory.

APPENDIX C

**LABORATORY REPORTS AND
CHAIN-OF-CUSTODY RECORDS**



McCAMPBELL ANALYTICAL INC.

110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Professional Service Industries 1320 West Winton Avenue Hayward, CA 94545	Client Project ID: Juvenile Hall	Date Sampled: 05/27/98
		Date Received: 05/28/98
	Client Contact: Chris Merritt/Rod Frietag	Date Extracted: 05/28/98
	Client P.O: 8G019	Date Analyzed: 05/28/98

06/05/98

Dear Chris/Rod:

Enclosed are:

- 1). the results of 12 samples from your **Juvenile Hall** project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director



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		Date Received: 05/28/98
	Client Contact: Chris Merritt/Rod Frietag	Date Extracted: 05/28-06/02/98
	Client P.O: 8G019	Date Analyzed: 05/28-06/02/98

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & 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) ⁺	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Recovery Surrogate
89714	B1-3.0	S	---	---	ND	ND	ND	ND	96
89715	B2-1.5	S	---	---	ND	ND	ND	ND	100
89716	B3-2.0	S	---	---	ND	ND	ND	ND	100
89717	B4-1.5	S	---	---	ND	ND	ND	ND	100
89718	B5-2.5	S	---	---	ND	ND	ND	ND	97
89719	B6-2.5	S	---	---	ND	ND	ND	ND	97
89720	B7-2.0	S	---	---	ND	ND	ND	ND	99
89721	B8-2.5	S	---	---	ND	ND	ND	ND	98
89722	B9-1.5	S	---	---	ND	ND	ND	ND	99
89723	B10-2.5	S	---	---	ND	ND	ND	ND	98
89724	B11-12.0	S	---	---	ND	ND	ND	ND	99
89725	B12-11.0	S	---	---	ND	ND	ND	ND	99
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	5.0	0.5	0.5	0.5	0.5	
	S		1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/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 (?); 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; j) no recognizable pattern.



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Professional Service Industries 1320 West Winton Avenue Hayward, CA 94545	Client Project ID: Juvenile Hall	Date Sampled: 05/27/98
		Date Received: 05/28/98
	Client Contact: Chris Merritt/Rod Frietag	Date Extracted: 05/28/98
	Client P.O: 8G019	Date Analyzed: 05/28-06/04/98

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

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) ⁺	% Recovery Surrogate
89714	B1-3.0	S	1.7,g,b	103
89715	B2-1.5	S	9.0,g,b	102
89716	B3-2.0	S	3.5,g	101
89717	B4-1.5	S	2.0,g	102
89718	B5-2.5	S	2.2,g	104
89719	B6-2.5	S	3.6,g	103
89720	B7-2.0	S	ND	106
89721	B8-2.5	S	ND	100
89722	B9-1.5	S	ND	107
89723	B10-2.5	S	1.1,g	102
89724	B11-12.0	S	ND	106
89725	B12-11.0	S	ND	109
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	
	S		1.0 mg/kg	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/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.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/28/98

Matrix: SOIL

Analyte	Concentration (mg/kg) Sample (#87565)			Amount Spiked	% Recovery		RPD
	MS	MSD	MSD		MS	MSD	
TPH (gas)	0.000	2.036	2.038	2.03	100	100	0.1
Benzene	0.000	0.188	0.186	0.2	94	93	1.1
Toluene	0.000	0.204	0.200	0.2	102	100	2.0
Ethylbenzene	0.000	0.196	0.194	0.2	98	97	1.0
Xylenes	0.000	0.586	0.578	0.6	98	96	1.4
TPH(diesel)	0.0	293	295	300	98	98	0.6
TRPH (oil and grease)	0.0	33.8	33.1	30	113	110	2.1

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

QC REPORT FOR HYDROCARBON ANALYSES

Date: 06/02/98-06/03/98

Matrix: SOIIL

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample (#87566)	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	1.951	2.043	2.03	96	101	4.6
Benzene	0.000	0.196	0.194	0.2	98	97	1.0
Toluene	0.000	0.210	0.208	0.2	105	104	1.0
Ethylbenzene	0.000	0.202	0.202	0.2	101	101	0.0
Xylenes	0.000	0.612	0.604	0.6	102	101	1.3
TPH(diesel)	0	309	302	300	103	101	2.3
TRPH (oil and grease)	0.0	32.9	33.9	30	110	113	3.0

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

Pace Analytical

11309 xpsi 7.doc

423312

CHAIN-OF-CUSTODY RECORD Analytical Request

Client PSI	Report To: CHRIS MERRITT \ ROD FRIETAG	Turn around Time <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 3-5 Days <input type="checkbox"/> 1 Week 2 Weeks <input checked="" type="checkbox"/> Normal 2-3 Days	Pace Client No.
Address 1320 W. WINTON AVE HAYWARD, CA. 94545	Bill To: ROD FRIETAG - ALAMEDA GSA		Pace Project Manager
Phone 510-785-1111 FAX 510-785-1192	P.O. # / Billing Reference 86019		Pace Project No.
	Project Name / No. JUVENILE HALL		*Requested Due Date:

Sampled By (PRINT): **CHRIS MERRITT**

Sampler Signature **CHRIS MERRITT** Date Sampled **5/27/98**

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO. OF CONTAINERS	PRESERVATIVES					ANALYSES REQUEST		REMARKS
						UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA (HCL)	NaOH	TPHd - 8015M	BTEX - 8020	
1	B1-3.0	0953	SOIL		1						X	X	897/14 897/15 897/16 897/17 897/18 897/19 897/20
2	B2-1.5	0957			1						X	X	
3	B3-2.0	1013			1						X	X	
4	B4-1.5	1026			1						X	X	
5	B5-2.5	1040			1						X	X	
6	B6-2.5	1104			1						X	X	
7	B7-2.0	1129			1						X	X	
8	B8-2.5	1157			1						X	X	

SHIPMENT METHOD	AIR BILL NO.	SHIPPING DATE	NUMBER OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					CHRIS MERRITT	5-28-98	1313	James McLean Aero	5-28	1313
					James McLean Aero	5-28-98	250	<i>hus</i>	5-28	1313

Additional Comments
**ALSO FAX RESULTS TO ROD FRIETAG
 @ 510-208-9530**

ICE **GOOD CONDITION**
 HEAD SPACE ABSENT

PRESERVATION APPROPRIATE CONTAINERS

VOAS | O&G | METALS | OTHER

Temp: _____ °C Received on Ice: Y/N Sealed Cooler: Y/N Samples Intact: Y/N

SEE REVERSE SIDE FOR INSTRUCTIONS

Ice Analytical

423311

CHAIN-OF-CUSTODY RECORD Analytical Request

Client PSI	Report To: CHRIS MERRITT / ROD FRIETAG	Turn around Time <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 3-5 Days <input type="checkbox"/> 1 Week 2 Weeks <input checked="" type="checkbox"/> Normal 2 Weeks	Page Client No.
Address 1320 W. WINTON AVE HAYWARD, CA. 94545	Bill To: ROD FRIETAG - ALAMEDA GSA		Page Project Manager
Phone 510-785-1111 FAX 510-785-1142	P.O. # / Billing Reference 86019		Page Project No.
	Project Name / No. JUVENILE HALL		*Requested Due Date: _____

Sampled By (PRINT):
CHRIS MERRITT

Sampler Signature **CHRIS MERRITT** Date Sampled **5/27/98**

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO. OF CONTAINERS	PRESERVATIVES					ANALYSES REQUEST	REMARKS
						UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA (HCL)	NaOH		
1	B9-1.5	1218	Soil		1						X X	89722 89723 89724 89725
2	B10-2.5	1243			1						X X	
3	B11-12.0	1434			1						X X	
4	B12-11.0	1543			1						X X	
5												
6												
7												
8												

SHIPMENT METHOD	AIR BILL NO.	SHIPPING DATE	NUMBER OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					CHRIS MERRITT	5/28/98	1313	JAMES McLEAN Aero	5-28	1313
					JAMES McLEAN Aero	5-28-98	230	Chris	5-28-98	14130

Additional Comments
**ALSO FAX RESULTS TO ROD FRIETAG
@ 510-208-9530**

ICE/GOOD CONDITION HEADSPACE ARSENT ✓
PRESERVATION APPROPRIATE CONTAINERS ✓
Temp: _____ °C
Received on Ice: Y/N Sealed Cooler: Y/N Samples Intact: Y/N

VOAS | O&G | METALS | OTHER

SAMPLE CONDITION

SEE REVERSE SIDE FOR INSTRUCTIONS