



Environmental
Science &
Engineering, Inc.

June 25, 1992

Project No. 6-92-5351

Mr. Jim de Vos
Buildings Manager
Alameda County General Services Agency
4400 MacArthur Boulevard
Oakland, California 94619

SUBJECT: Santa Rita Jail, Dublin, California

Dear Mr. de Vos:

Environmental Science and Engineering, Inc. (ESE) is pleased to provide this closure report for the underground storage tank (UST) number 2942-23 formerly located at the subject facility. This report serves to document the legal removal and disposal of this UST. ESE presents this report in accordance with Alameda County Health Care Services Agency (HCSA) UST Closure Permit requirements. The following information is submitted in support of this tank closure.

ESE was authorized by the Alameda County General Services Agency, to effect the removal of this UST located at the subject facility (see Figure 1, "Location Map") under Purchase Order No. 141-0-7595-01.

TANK HISTORY

The County of Alameda General Services Agency owned and operated one 1,000 gallon (4' diameter, 10' long) diesel fuel storage tank located on Engineer's Hill. The tank fueled a boiler located in a building adjacent to the tank (see Figure 2, "Site Map"), and was of single wall, carbon steel construction. The installation date of the tank is unknown. Prior to ESE's field investigation of this UST, the tank had been completely excavated and piping had been disconnected by Pacific Gas and Electric (PG&E) excavation training crews. Also, the tank had been rolled to the north at approximately 45 degrees from upright, and the tank was found to be empty.

June 25, 1992
Mr. Jim de Vos/GSA
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TANK CLOSURE ACTIVITIES

1. Permits for this tank removal were procured by ESE from HCSA and Doherty Regional Fire Authority (DRFA). Notification was made to the Bay Area Air Quality Management District (BAAQMD). A copy of the cover sheet of the HCSA permit and BAAQMD notification form is attached. Although DRFA does not issue written permits, site inspection was provided.
2. On Monday, May 18, 1992, the tank internal atmosphere was rendered inert by the addition of 15 pounds of dry ice. In the presence of Mr. Jeff Shapiro of HCSA and Inspector Ron Johanson of the DRFA, the diesel tank was lifted from the excavation and loaded onto a flatbed truck. The tank was inspected and found to be corroded. Four to five holes were discovered along a weld at the east end of the tank (1/8" - 3/4" in diameter) and one 3/4" diameter hole was found on the south side of the tank, midway up the side of the tank. The tank was manifested as a hazardous waste, and transported to Erickson Environmental, of Richmond, California, a state licensed treatment, storage, and disposal facility (TSDF). A copy of the tank manifest and certificate of destruction indicating final acceptance and disposal, is attached.
3. The dimensions of the excavation were fourteen feet by eight feet by eight feet in depth. The tank top was located four feet below ground surface. Soil within the excavation pit consisted of silty clay of low to moderate plasticity. No visual signs of soil contamination were discovered, and no petroleum odor was detected within the excavation. No root holes or other potential contaminant pathways were observed.
4. One soil sample, sample identification (ID) 23W, was collected by ESE personnel from the west end of the excavation pit as directed by the HCSA representative, (see Figure 3, "Tank Plan" for sampling location) at a depth of ten feet below ground surface (approximately two feet below tank invert). The soil sample was collected utilizing a slide hammer fitted with a two-inch diameter brass ring. The sampler was driven into native soil until filled with soil. The brass sampling ring ends were covered with Teflon tape and plastic end caps and sealed with duct tape. The sample was placed in a cooler with ice and transported to Curtis and Tompkins, Ltd., a California Department of Health Services certified analytical laboratory, and analyzed by the following methods:
 - EPA Method 8015M for Total Extractable Hydrocarbons (TEH) as Diesel;
 - EPA Method 8020 for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX);
and

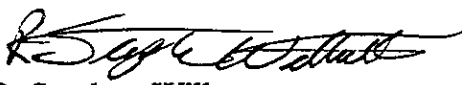
June 25, 1992
Mr. Jim de Vos/GSA
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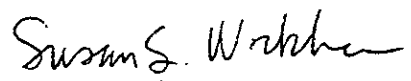
- Standard Methods for Water and Wastewater (SMWW) 5520 for Total Oil and Grease (TOG).
5. Analysis of the soil sample collected from the excavation pit resulted in non-detectable concentrations of BTEX as well as non-detectable concentrations of TOG. Analysis for TEH as diesel indicated a concentration of 190 milligrams per kilogram. Copies of laboratory reports and chain of custody documentation are attached.
 6. A copy of the Hazardous Materials Inspection Form utilized by the HCSA representative for this site is attached.
 7. At this time, the excavation pit remains open, pending a decision by Alameda County GSA as to what remediation steps should be taken to close this site.
 8. Approximately 25 cubic yards of stockpiled soil will be transported to a designated holding area at the subject facility, pending analysis and possible remediation. Only clean import fill material will be used to backfill the excavation.
 9. An addendum to this report will be submitted to HCSA upon final disposition of this soil.

ESE appreciates the opportunity to perform this scope of work. Please contact Steve Willcutts at (510) 685-4053 with any questions regarding this project.

Sincerely,

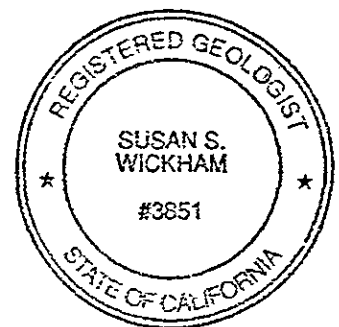
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.


R. Stephen Willcutts
Senior Staff Engineer


Susan S. Wickham, RG 3851
Senior Geologist

RSW:rsw

Figures (3)
Attachments (5)

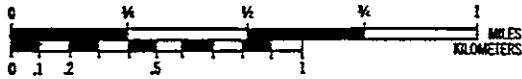
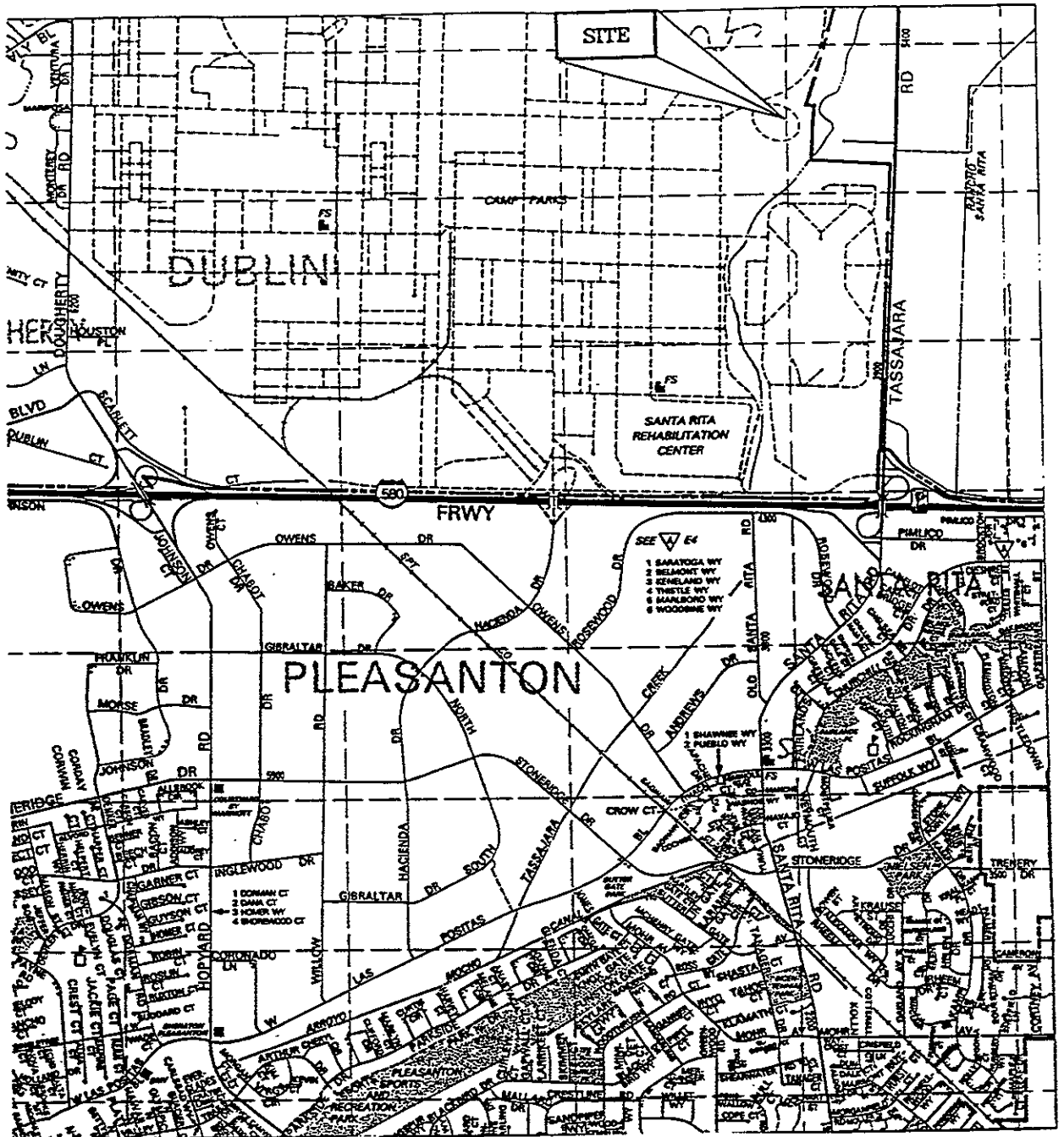


FIGURES


Figure 1 - Location Map

Figure 2 - Site Map

Figure 3 - Tank Plan



SCALE OF SINGLE MAP PAGES
1 INCH TO 2200 FEET

 Environmental Science & Engineering, Inc. <small>A CECOLOGY COMPANY</small>	ALAMEDA COUNTY GSA SANTA RITA JAIL FACILITY DUBLIN, CA	
	FIGURE 1 LOCATION MAP	
DRAWN BY RSW	APPROVED BY	REVISED
DATE 6/25/92	FILE NAME	PROJ. NO. 6-92-5351

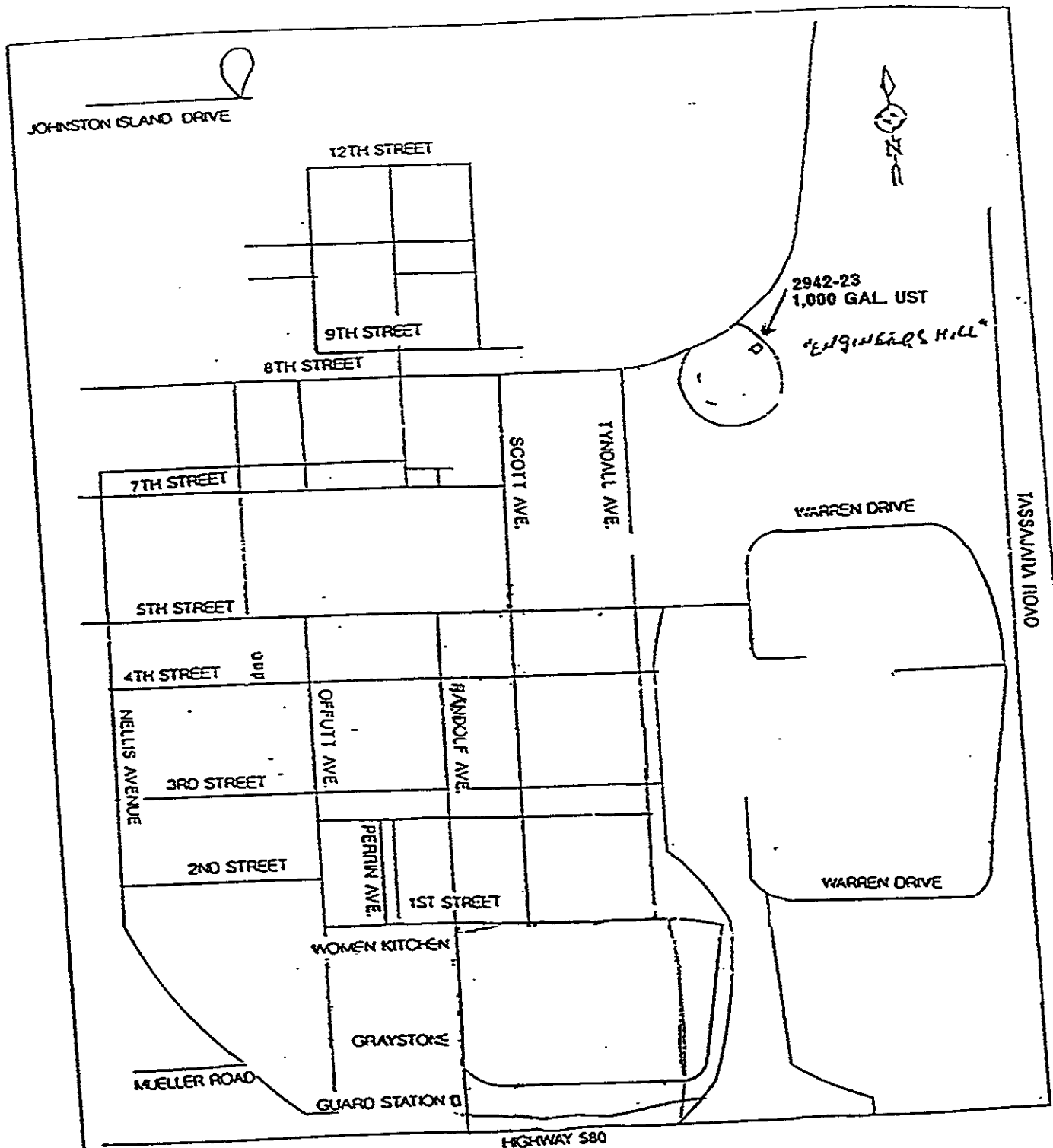
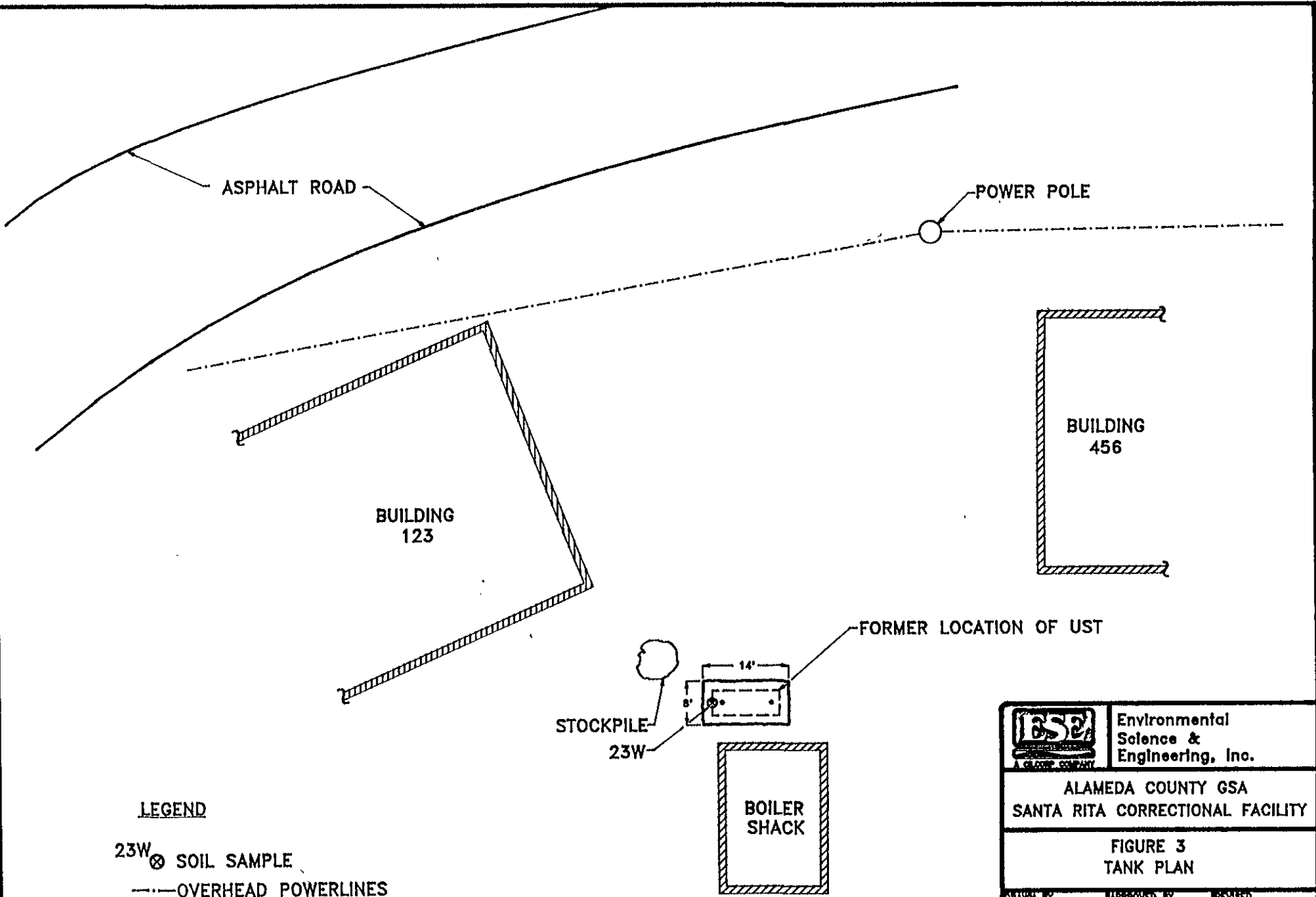
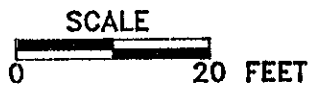



Figure 2 Site Map
LOCATION OF UST 2942-23
AT SANTA RITA JAIL FACILITY
DUBLIN, CALIFORNIA



LEGEND

- 23W ⊗ SOIL SAMPLE
- OVERHEAD POWERLINES



 Environmental Science & Engineering, Inc. A GROUP COMPANY		
ALAMEDA COUNTY GSA SANTA RITA CORRECTIONAL FACILITY		
FIGURE 3 TANK PLAN		
DRAWN BY DWR	APPROVED BY	REVISION
DATE 6/92	FILE NAME 53512003	PROJ. NO. 6-92-5351

ATTACHMENTS

- **Permits**
- **Hazardous Materials Inspection Form**
- **Hazardous Waste Manifest/Certificate of Destruction**
- **Laboratory Reports**
- **Chain-of-Custody Documentation**



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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

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

NOTIFICATION FORM

Removal or Replacement of Tanks
 Excavation of Contaminated Soil

SITE INFORMATION

SITE ADDRESS 5325 Broder Blvd., Santa Rita Jail
CITY, STATE Dublin, CA ZIP 94568
OWNER NAME Alameda County General Services Agency
SPECIFIC LOCATION OF PROJECT Five different locations at Santa Rita Jail Facility

TANK REMOVAL

CONTAMINATED SOIL EXCAVATION

SCHEDULED STARTUP DATE 5/5/92

SCHEDULED STARTUP DATE _____

VAPORS REMOVED BY:

STOCKPILES WILL BE COVERED? YES _____ NO _____

WATER WASH

ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW):

VAPOR FREEING (CO²)

VENTILATION

(MAY REQUIRE PERMIT)

CONTRACTOR INFORMATION

NAME Environmental Science & Engineering CONTACT Steve Willcutts
ADDRESS 4090 Nelson Ave., #J PHONE (510) 685-4053
CITY, STATE, ZIP Concord, CA 94520

CONSULTANT INFORMATION (IF APPLICABLE)

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

OFFICE USE ONLY

DATE RECEIVED FAX 4/29/92 BY Blj
DATE POSTMARKED _____ BY (init)
INSPECTOR NO. 552 DATE 4/30/92 BY Blj
DATE CONTACT NAME _____ DATE _____ BY (init)
PHONE # _____ DATA ENTRY 4/30/92 BY (init)

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 415/271-4320

Project specialist (print) Jeff Shapiro

ACCEPTED
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 415/271-4320
These instructions are to be followed by the generator of the waste in accepting and manifesting the waste. The generator must ensure that the waste is properly packaged, labeled, and transported in accordance with the requirements of the California Hazardous Waste Regulations. The generator must also ensure that the waste is transported to the appropriate facility for treatment, storage, and disposal. The generator must retain a copy of the manifest and the receipt from the receiving facility for a minimum of three years.

Please give 5 day notice before tank removal.
Jeff Shapiro
11/20/92

UNDERGROUND TANK CLOSURE PLAN
* * * Complete according to attached instructions * * *

1. Business Name Santa Rita Jail
Business Owner Alameda County General Services Agency
2. Site Address 5325 Broder Boulevard
City Dublin Zip 94568 Phone (510) 551-6674
3. Mailing Address Same
City _____ Zip _____ Phone _____
4. Land Owner Alameda County General Services Agency
Address 4400 MacArthur Blvd. City, State Oakland, CA Zip 94619
5. Generator name under which tank will be manifested _____
Alameda County General Services Agency
EPA I.D. No. under which tank will be manifested CAD 981397060

white - env. health
 yellow - facility
 pink - files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

Hazardous Materials Inspection Form

II, III

Site ID # _____ Site Name TANK #23 (Hill Top) Today's Date 5/18/92

Site Address Old Santa Rita Jail

City Dublin Zip 94 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

1- ~~1500~~ GAL DIXIE TANK - SEVERAL HOLES IN TANK. (See yellow circle)

Piping is still in the ground. NO Petroleum odor DETECTED

NO VISUAL SIGNS OF Sp. Contamination.

SAMPLE 23W - Soil is SANDY silt.

23W

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Sids. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N) _____
- 14. OffSite Conseq. Asses. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(e)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) _____
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- General**
- 1. Permit Application 25284 (H&S)
- 2. Pipeline Leak Detection 25292 (H&S)
- 3. Records Maintenance 2712
- 4. Release Report 2651
- 5. Closure Plans 2670
- 6. Method
- 1) Monthly Test
- 2) Daily Vadose
- Semi-annual groundwater
- One time soils
- 3) Daily Vadose
- One time soils
- Annual tank test
- 4) Monthly Groundwater
- One time soils
- 5) Daily Inventory
- Annual tank testing
- Cont pipe leak det
- Vadose/groundwater mon.
- 6) Daily Inventory
- Annual tank testing
- Cont pipe leak det
- 7) Weekly Tank Gauge
- Annual tank testing
- 8) Annual Tank Testing
- Daily Inventory
- 9) Other _____
- 7. Preck Tank Test 2643
- Date: _____
- 8. Inventory Rec. 2644
- 9. Soil Testing 2646
- 10. Ground Water. 2647
- Monitoring for Existing Tanks**
- New Tanks**
- 11. Monitor Plan 2632
- 12. Access. Secure 2634
- 13. Plans Submit 2711
- Date: _____
- 14. As Built 2635
- Date: _____

Rev 8/88

Contact: Patrick Galvin/ESE
 Title: Sr. Engineer
 Signature: Patrick Galvin

Inspector: Jeff Shapiro
 Signature: Jeff Shapiro

II, III

78564

Please print or type. Form designed for use on elite (12-pitch typewriter).

78564

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C A D 9 8 1 3 9 7 0 6 0 4 0 2 6 6	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address SANTA RITA JAIL 5325 BRADY BLVD DUBLIN, CALIFORNIA 94568				A. State Manifest Document Number 90648366		
4. Generator's Phone 510 551-6674				B. State Generator's ID		
5. Transporter 1 Company Name ERICKSON INC		6. US EPA ID Number C A D 0 0 9 4 6 6 3 9 2		C. State Transporter's ID 2051671		
7. Transporter 2 Company Name		8. US EPA ID Number		D. State Transporter's ID (510) 235-1393		
9. Designated Facility Name and Site Address Erickson, Inc. 255 Parr Blvds Richmond, Ca: 94801		10. US EPA ID Number C A D 0 0 9 4 6 6 3 9 2		E. State Facility's ID C A D 0 0 9 4 6 6 3 9 2	F. Facility's Phone (510) 235-1393	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
a. Waste Empty Storage Tank			002TP04000			State 512
NON-RCRA Hazardous Waste Solids						EPA/Other NONE
b.						State
c.						EPA/Other
d.						State
e.						EPA/Other
Additional Descriptions for Materials Listed Above			Special Handling Codes for Wastes Listed Above			
Empty Storage Tank (ST) (5) have been certified with 157 lbs Dry Ice per 1000 Gallon Capacity			NA			
15. Special Handling Instructions and Additional Information						
Keep away from sources of ignition: Always wear hardhats when working around U.S.T.'s 24 Hr. Contact Name: Alameda Co. D.O.H. Phone: (510) 271-4530						
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 Peter C. Kinney		Signature [Signature]		Month Day Year 10/5/89		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name JERRY E. BROWN		Signature Jerry E. Brown		Month Day Year 10/5/89		
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 DONALD H. LASSON		Signature [Signature]		Month Day Year 10/5/89		

GENERATOR

TRANSPORTER

FACILITY

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE
CERTIFIED SERVICES COMPANY
255 Parr Boulevard • Richmond, California 94801

NO. 11230

CUSTOMER
ENVIRO SCI & E
JOB NO. 78564

FOR: Erickson, Inc TANK NO. 8745

LOCATION: Richmond DATE: 05/22/92 TIME: 06:56:30

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 1000 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9%
LOWER EXPLOSIVE LIMIT LESS THAN 0.1%

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

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

STANDARD SAFETY DESIGNATION

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

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

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

K. Hughes
REPRESENTATIVE

TITLE

[Signature]
INSPECTOR



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

DATE RECEIVED: 5/19/92
DATE REPORTED: 5/26/92
DATE REISSUED: 8/20/92

LABORATORY NUMBER: 107420

CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING

PROJECT ID: 6-92-5351

LOCATION: SANTA RITA JAIL

RESULTS: SEE ATTACHED

Reviewed By 


Reviewed By

LABORATORY NUMBER: 107420
 CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING
 PROJECT ID: 6-92-5351
 LOCATION: SANTA RITA JAIL

DATE SAMPLED: 5/18/92
 DATE RECEIVED: 5/19/92
 DATE ANALYZED: 5/21/92
 DATE REPORTED: 5/26/92
 DATE REISSUED: 8/20/92

=====
 ANALYSIS: HYDROCARBON OIL & GREASE (GRAVIMETRIC)
 ANALYSIS METHOD: SMWW 17: 5520EF
 =====

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
107420-009	23-W	ND	mg/Kg	50
BLANK		ND	mg/Kg	50

ND = Not detected at or above reporting limit.

QA/QC SUMMARY:

=====
 RPD, % 84
 RECOVERY, % 4.6
 =====

LABORATORY NUMBER: 107420
 CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING
 PROJECT ID: 6-92-5351
 LOCATION: SANTA RITA JAIL

DATE SAMPLED: 5/18/92
 DATE RECEIVED: 5/19/92
 DATE ANALYZED: 5/20/92
 DATE REPORTED: 5/26/92
 DATE REISSUED: 8/20/92

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
 Extraction by EPA 5030 Purge and Trap

LAB ID	SAMPLE ID	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)	REPORTING LIMIT * (ug/Kg)
108420-009	23-W	ND	ND	ND	ND	5

ND = Not detected at or above reporting limit.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD, %	1
RECOVERY, %	87

LABORATORY NUMBER: 107420
 CLIENT: ENVIRONMENTAL SCIENCE & ENGINEERING
 PROJECT ID: 6-92-5351
 LOCATION: SANTA RITA JAIL

DATE SAMPLED: 5/18/92
 DATE RECEIVED: 5/19/92
 DATE EXTRACTED: 5/19/92
 DATE ANALYZED: 5/21/92
 DATE REPORTED: 5/26/92
 DATE REISSUED: 8/20/92

Extractable Petroleum Hydrocarbons in Soils & Wastes
 California DOHS Method
 LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
107420-009	23-W	**	190	1

* Reporting limit applies to all analytes.
 ** Quantitated as diesel.

QA/QC SUMMARY: LABORATORY CONTROL SAMPLE

=====

RECOVERY, %	89
-------------	----

=====

107420

CHAIN OF CUSTODY RECORD

DATE 5/18/92 PAGE 1 OF 1

PROJECT NAME SANTA RITA JAIL

ADDRESS _____

PROJECT NO. 6-92-535

SAMPLED BY [Signature]

LAB NAME CURTIS TOMPKINS

ANALYSES TO BE PERFORMED

MATRIX

NUMBER OF CONTAINERS

TEH-D, 80ISM	5520-O+G	8020-BTEX											
X	X	X											

MATRIX

MATRIX

SOIL



Environmental Science & Engineering, Inc.

4090 Nelson Avenue Suite J Concord, CA 94520

(415) 685-4053

Fax (415) 685-3323

REMARKS (CONTAINER, SIZE, ETC.)

2" DIAMETER BRASS SLEEVE

SAMPLE #	DATE	TIME	LOCATION
23-W	5/18/92	16:29	

RELINQUISHED BY: (signature)	RECEIVED BY: (signature)	date	time
<u>[Signature]</u>	<u>[Signature] (ESE)</u>	5/19/92	10:00
<u>[Signature]</u>	<u>[Signature]</u>	5-19-92	11:35

REPORT RESULTS TO: PAT GALVIN	TOTAL NUMBER OF CONTAINERS 1
	SPECIAL SHIPMENT REQUIREMENTS KEEP COLD
SAMPLE RECEIPT	

INSTRUCTIONS TO LABORATORY (handling, analyses, storage, etc.):
5-DAY TURNAROUND

CHAIN OF CUSTODY SEALS	
REC'D GOOD COND'TN/COLD	✓
CONFORMS TO RECORD	✓