


May 19, 2004

**UNDERGROUND STORAGE TANK REMOVAL  
FINAL REPORT**

20957 Baker Road  
Castro Valley, California

MAY 28 2004  


**AEI CONSULTANTS**

*Environmental & Civil Engineering Services*

Project No. 8131

**PETER HOVERSEN**

*Project Manager*

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Prepared For

**Mr. Nat Piazza**  
7613 Peppertree Rd.  
Dublin, CA 94568

Prepared By

**AEI Consultants**  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597  
(800) 801-3224

**AEI**

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- C TRANSPORT AND DISPOSAL DOCUMENTS
- D ANALYTICAL DOCUMENTATION

## **1.0 INTRODUCTION**

AEI Consultants (AEI) has prepared this final report to document the underground storage tank closure activities performed at 20957 Baker Road in Castro Valley, California (Figure 1: Site Location Map). One (1) 1,000-gallon gasoline underground storage tank (UST) and one (1) 1,000-gallon diesel underground storage tank (UST) were removed. For the tank locations refer to Figure 2: Site Plan.

AEI was contracted to obtain all necessary permits, excavate to expose the tank, remove and dispose of residual liquids, remove and dispose the tank, perform soil sampling and analysis, backfill and resurface the excavation.

## **2.0 PERMITS**

The Alameda County Departments of Fire Prevention and Environmental Health issued permits on February 25, 2004. Inspector Robert Weston was assigned to represent the Alameda County Environmental Health Department, and observed the tank closure activities at the site. The excavation areas were marked and the property representative was notified of the specific time plan.

Copies of the permit and notification documents are located in Appendix A: Permits and Notification Documents.

## **3.0 MOBILIZATION, EXCAVATION AND REMOVAL**

On April 21, 2004, the AEI field staff was briefed and the Site Health and Safety Plan reviewed prior to the initiation of work. The Site Health and Safety Plan is located in Appendix B. Ground cover was broken and the soil above the tank was excavated. Upon exposure, it was determined that the tanks were 1,000 gallons in size, not the originally estimated 500 gallons. Two stockpiles of the excavated soil were created adjacent to the excavation (Figure 2: Site Plan and Figure 3: Sample Location Plan).

Excel Environmental Services, Inc. removed 245 gallons of waste liquid from the tanks prior to removal. Dry ice was introduced into the tank until the Lower Explosive Limit (LEL) and oxygen content reached acceptable levels.

The tanks were removed on April 21, 2004, and visually inspected prior to loading for transport. Minor rust and corrosion were observed on the surface of the tanks.

The tanks were loaded onto an Ecology Control Industries' (ECI) truck and transported under non-hazardous waste manifest to the ECI disposal facility at 255 Parr Boulevard in Richmond, California, where the tank was triple rinsed, cut, and scrapped.

Soil samples were collected prior to backfilling. The excavation was lined with Visqueen, then backfilled with stockpiled soil and clean import material to replace the volume of the tanks.

The non-hazardous waste manifests for the waste liquid and tank are located in Appendix C: Transport and Disposal Documents.

#### **4.0 SAMPLING AND ANALYSES**

All samples were collected under the direction of Inspector Weston of the Alameda County Environmental Health Department. A total of six (6) soil samples were collected from the tank removal activities. Four samples were collected eight feet below ground surface (bgs) beneath each end of both tanks. Eight (8) discrete soil samples were collected from the stockpile, and were composited into two samples (T1STKP 1-4 and T2STKP 1-4) for analysis. Please refer to Figure 3: Sample Location Plan for the sample locations.

Groundwater was not encountered during the removal activities.

All soil samples were collected in brass tubes that were driven into the soil until completely full, then sealed with Teflon tape and plastic caps. The secured sample tubes were immediately placed into a cooler with ice. Chain of Custody documentation was initiated. The cooler and samples were brought to McCampbell Analytical, Inc. (State Certification #1644) of Pacheco, California on April 21, 2004, for analysis.

The samples were analyzed for Total Petroleum Hydrocarbons as gasoline (EPA 8015), Total Petroleum Hydrocarbons as diesel (EPA 8015), Total Lead (EPA Method 6010/200), methyl-tert-butyl ether (MTBE), benzene, toluene, ethyl-benzene, and xylenes (BTEX) (EPA Method 602/8020) and Oxygenated Volatile Organics (EPA 8260B). The analytical results are summarized in the following table(s):

**TABLE 1 - Soil Sample Analyses for Excavation 1**

	T1W- EB8'	T2W- EB8'	T1E- EB8'	T2E- EB8'	T1 STKP1-4	T2 STKP1-4
TPH-GASOLINE (mg/kg)	160	1,400	190	460	ND	ND
TPH-DIESEL (mg/kg)	4,900	2,400	10,000	1,400	77	2.1
MTBE (mg/kg)	ND<0.50	ND<10	ND<1.7	ND<0.50	ND	ND
BENZENE (mg/kg)	ND<0.05	ND<1.0	ND<0.17	ND<0.05	ND	ND
TOLUENE (mg/kg)	ND<0.05	ND<1.0	ND<0.17	ND<0.05	ND	ND
ETHYL BENZENE (mg/kg)	ND<0.05	ND<1.0	ND<0.17	ND<0.05	ND	ND
TOTAL XYLENES (mg/kg)	ND<0.05	8.4	ND<0.17	0.25	ND	ND
TOTAL LEAD (mg/kg)	6.1	17	6.1	18	24	22

mg/kg = milligrams per kilogram (ppm)

Copies of all analytical results and Chain of Custody documentation are located in Appendix D: Analytical Documentation.

## 5.0 SUMMARY AND CONCLUSIONS

On April 21, 2004, one (1) 1,000-gallon gasoline underground storage tank (UST) and one (1) 1,000-gallon diesel underground storage tank (UST) were removed from the property located at 20957 Baker Road in Castro Valley, California. Prior to removal, 245 gallons of waste liquid were removed, transported and disposed off-site. The tank was transported under non-hazardous waste manifest to the Ecology Control Industries' disposal facility in Richmond, California where the tank was cleaned and disposed of as scrap metal.

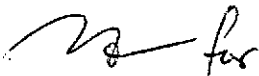
A total of six (6) soil samples were collected during the tank removal activities. Concentrations of TPH-g (ranging from 160 to 1,400 mg/kg) and TPH-d (ranging from 1,400 to 10,000 mg/kg) present in the four samples taken along the excavation bottom were above the general action levels, and indicated that an unauthorized release occurred from the USTs. Petroleum hydrocarbons were also detected in the stockpile at significantly lesser concentrations. This case has since been passed on from the Alameda County Environmental Health Department to the San Francisco Bay Regional Water Quality Control Board. It is likely that the San Francisco Bay Regional Water Quality Control Board will require further investigation to determine the extent of the contamination.

## 6.0 REPORT LIMITATIONS AND SIGNATURES

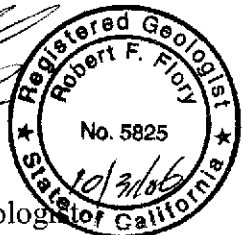

This report presents a summary of work completed by AEI Consultants, including observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

All services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work.

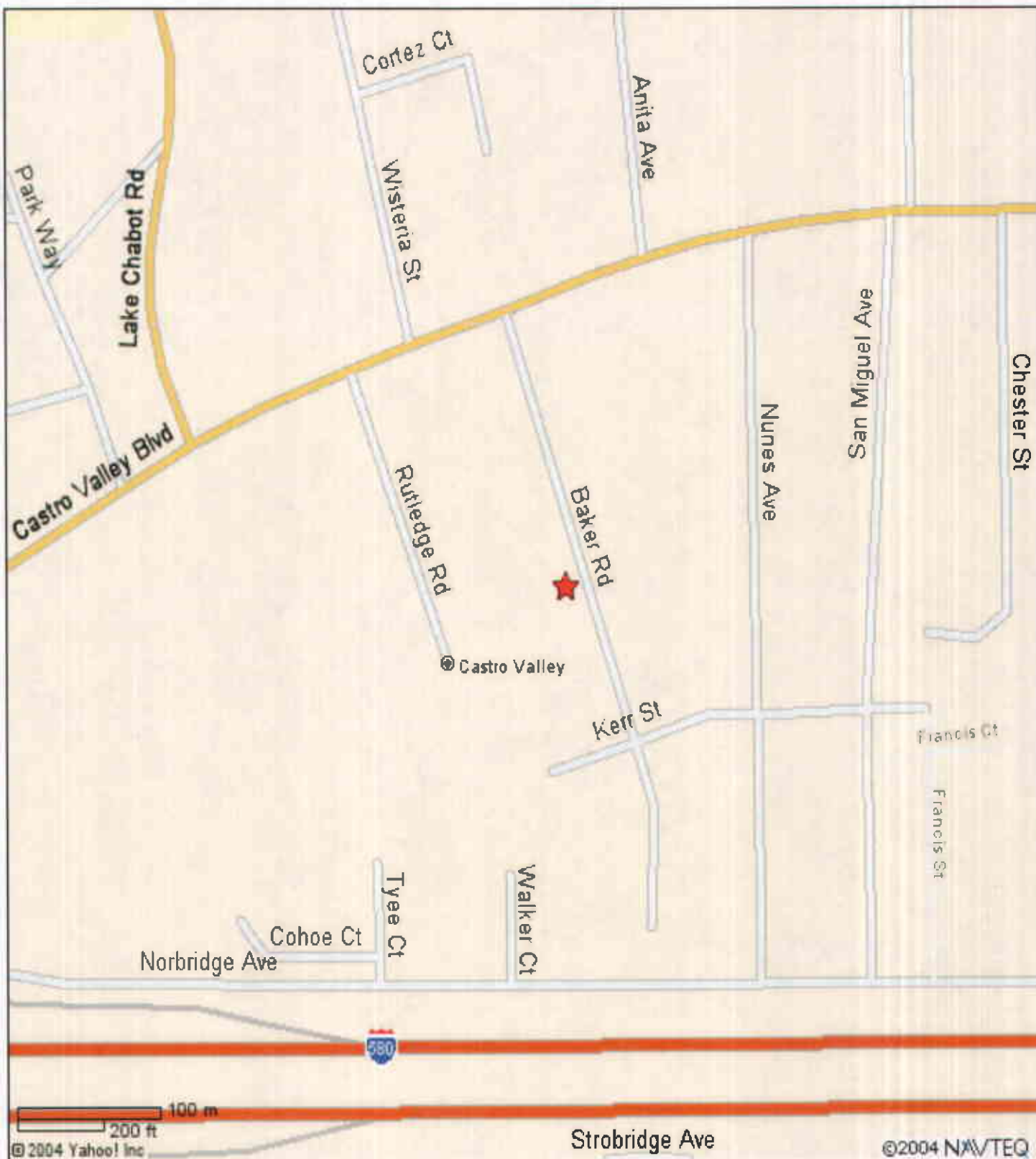
### AEI Consultants



Peter Hoversen  
Project Manager



Robert Flory  
R.G., Senior Project Geologist



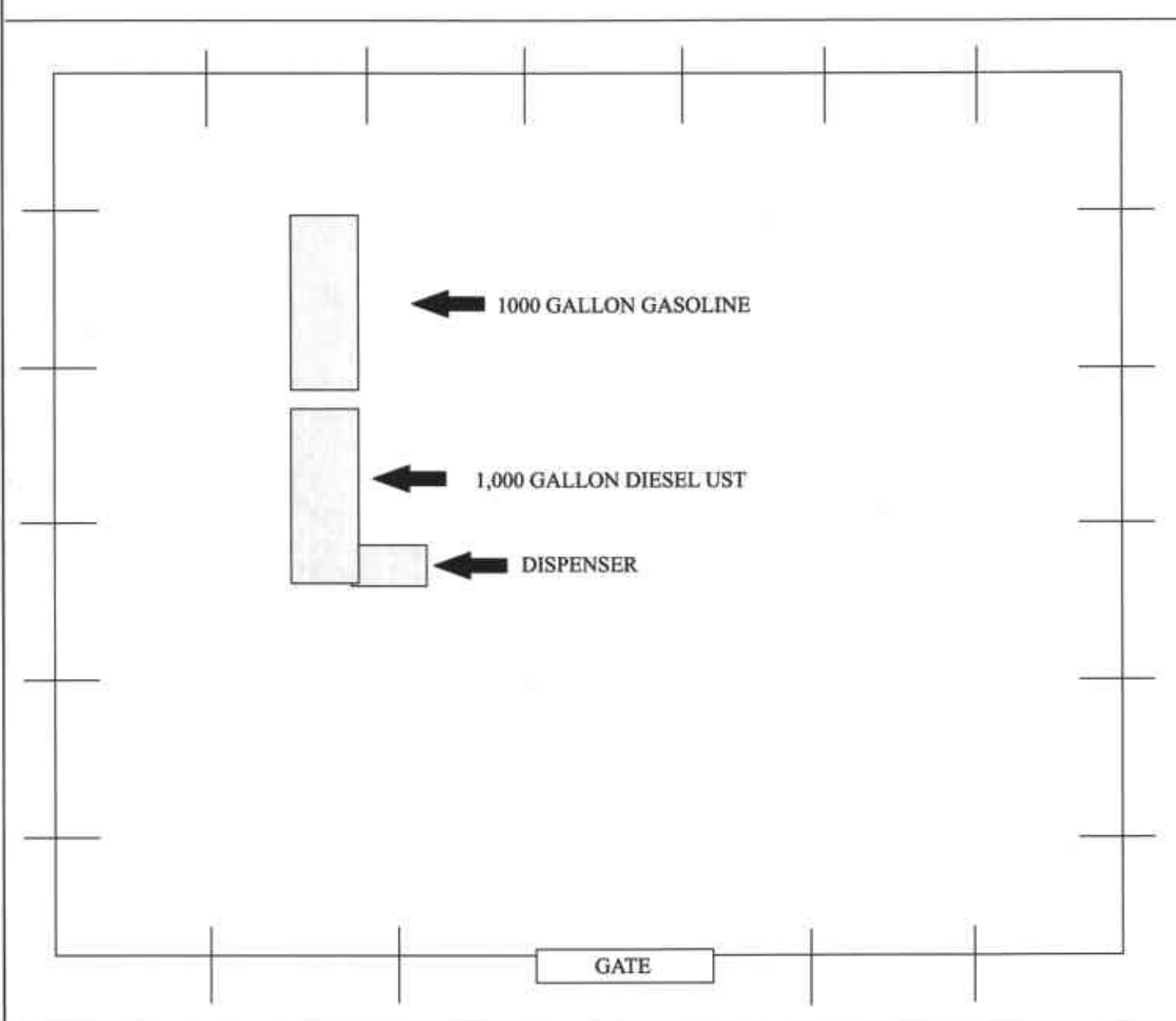
100 m  
200 ft  
© 2004 Yahoo! Inc.

©2004 NAVTEQ



<b>AEI CONSULTANTS</b> 2500 CAMINO DIABLO, WALNUT CREK, CA	
<b>SITE LOCATION MAP</b>	
20957 BAKER ROAD CASTRO VALLEY, CALIFORNIA	DRAWING NUMBER: <b>FIGURE 1</b>

RUTLEDGE ROAD



SIDEWALK

SIDEWALK

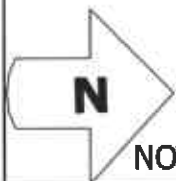
BAKER ROAD

**AEI CONSULTANTS**  
2500 CAMINO DIABLO, SUITE 200 WALNUT CREEK, CA

**SITE PLAN**

20957 Baker Road  
Castro Valley, California

**FIGURE 2**  
PROJECT No. 8131



NOT TO SCALE



RUTLEDGE ROAD



← 500 GALLON GASOLINE UST



← 500 GALLON DIESEL UST



← DISPENSER

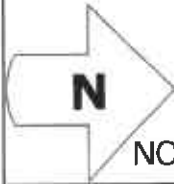


GATE

SIDEWALK

SIDEWALK

BAKER ROAD



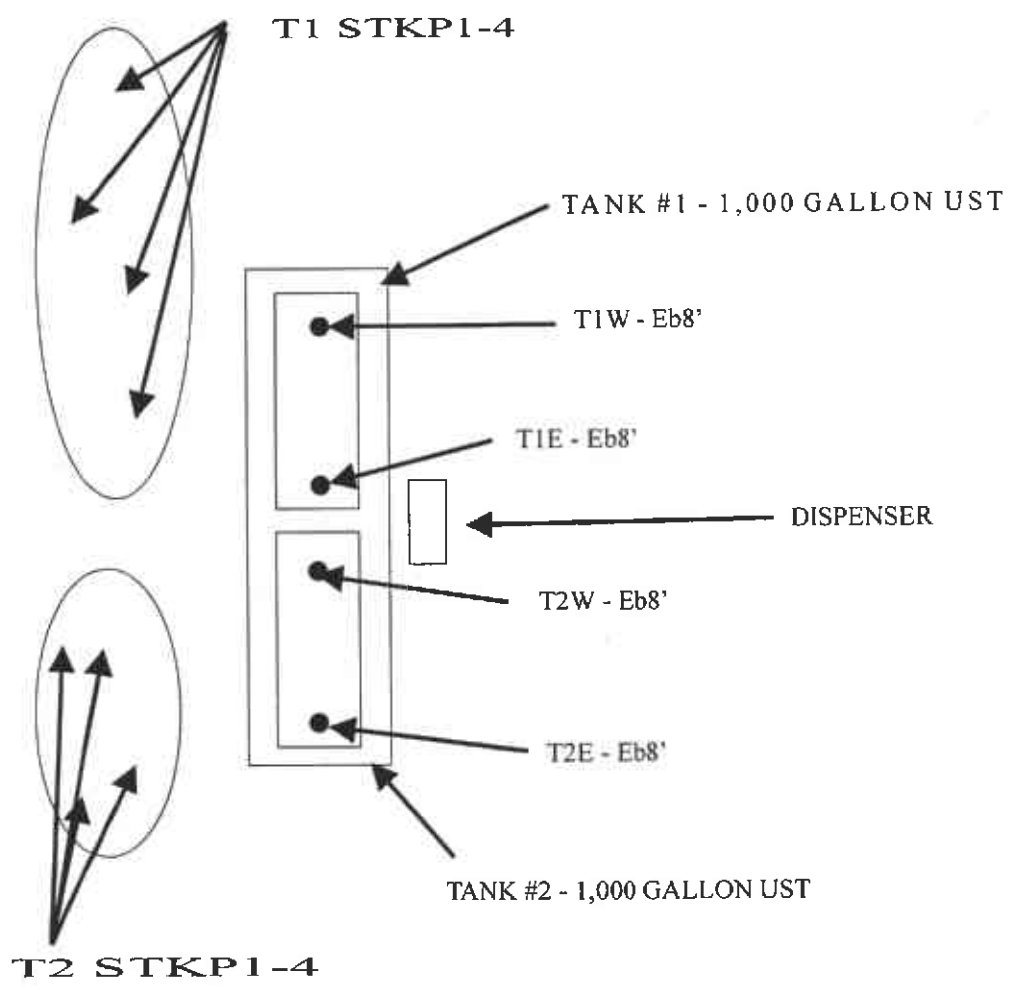
NOT TO SCALE

**AEI CONSULTANTS**  
2500 CAMINO DIABLO, SUITE 200 WALNUT CREEK, CA

**SITE PLAN**

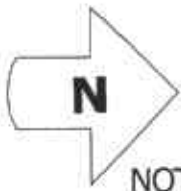
20957 Baker Road  
Castro Valley, California

**FIGURE 2**  
PROJECT No. 8131



SIDEWALK

BAKER ROAD



NOT TO SCALE

**AEI CONSULTANTS**  
 2500 CAMINO DIABLO, SUITE 200 WALNUT CREEK, CA

**SAMPLE LOCATION MAP**

20957 Baker Road  
 Castro Valley, California

**FIGURE 3**  
 PROJECT No. 8131

ALAMEDA COUNTY  
 DEPARTMENT OF ENVIRONMENTAL HEALTH  
 1131 HARBOR BAY PARKWAY  
 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. Check 'x' to your closure plan as indicated by this Department site to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction/demolition.

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 Inspectors 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:  
  
 Robert Weston

Accepted February 25, 2004  
 Note: Site Safety Plan required to be on-site

**UNDERGROUND STORAGE TANK CLOSURE PLAN**

\*\*\* Complete closure plan according to instructions \*\*\*

1. Name of Business \_\_\_\_\_  
 Business Owner or Contact Person (PRINT) Mr. Nat Piazza
2. Site Address 20957 Baker Road  
 City, State Castro Valley, CA Zip 94546 Phone \_\_\_\_\_
3. Mailing Address 7613 Peppertree Rd.  
 City, State Dublin, CA Zip 94568 Phone 925-828-1577
4. Property Owner Mr. Nat Piazza  
 Business Name (if applicable) \_\_\_\_\_  
 Address 7613 Peppertree Rd  
 City, State Dublin CA Zip 94568 Phone 925-828-1577
5. Generator name under which tank will be manifested  
Mr. NAT PIAZZA

EPA I.D. No. under which tank(s) will be manifested C A C 002574520



6. Contractor AET Consultants  
Address 2500 Camino Diablo, Suite 200  
City, State Walnut Creek Zip ~~94599~~ Phone 925-283-6000  
License Type A/HAZ ID# 654919

7. Consultant (if applicable) Same as contractor  
Address \_\_\_\_\_  
City, State \_\_\_\_\_ Zip \_\_\_\_\_ Phone \_\_\_\_\_

8. Main Contact Person for Investigation (if applicable)  
Name PETER HOVERSEN Title PROJECT MANAGER  
Company AET CONSULTANTS  
Phone 925 283-6000

9. Number of underground tanks being closed with this plan 2  
Length of piping being removed under this plan UNKNOWN  
Total number underground tanks at this facility (\*\*confirmed with owner or operator) 2

10. State Registered Hazardous Waste Transporters/Facilities (See Instructions).

a) Product/Residual Sludge/Rinsate Transporter

Name Excel Environmental EPA I.D. No. CAL 000170148  
Hauler License No. 3662 License Exp. Date \_\_\_\_\_  
Address 1141 Catalina Drive.  
City, State Livermore, CA Zip 94550

b) Product/Residual Sludge/Rinsate Disposal Site

Name Alviso Independent Oil EPA I.D. No. CAL 00161743  
Address 5002 Archer St.  
City, State Alviso, CA Zip 95002

c) Tank and Piping Transporter

Name Ecology Control Industries EPA I.D. No. CAD 1009466392

Hauler License No. 1533 License Exp. Date \_\_\_\_\_

Address 255 Parr Blvd.

City, State Richmond, CA Zip 94801

d) Tank and Piping Disposal Site

Name Same as Tank Transporter EPA I.D. No. \_\_\_\_\_

Address \_\_\_\_\_

City, State \_\_\_\_\_ Zip \_\_\_\_\_

11. Sample Collector

Name Peter Hoverson

Company AEI Consultants

Address 2500 Camino Diablo, Suite 200

City, State Walnut Creek, CA Zip 94597 Phone 925 283-6000

12. Laboratory

Name McC Campbell Analytical

Company \_\_\_\_\_

Address 110 2nd Avenue South # D7

City, State Pacheco, CA Zip 94553

State Certification No. 1644

13. Have tank(s) or piping leaked in the past? Yes [ ] No [ ] Unknown [X]

If yes, describe: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

DRY ICE

\_\_\_\_\_

Before tank(s) 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 Sample(s)
Capacity (gallons)	Use History include date last used (estimated)		
500	UNKNOWN	soil	2 feet beneath the bottom of each tank

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

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (estimated)	Sampling Plan  4 point composite sample

**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

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.

# RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND TANK LEAKS

*For Use by Unidocs Member Agencies or where approved by your Local Jurisdiction*

## TABLE #2

REVISED 1 MARCH 1999

HYDROCARBON LEAK	SOIL ANALYSIS (SW-846 METHOD)		WATER ANALYSIS (Water/Waste Water Method)	
Gasoline (Leaded and Unleaded)	TPHG	8015M or 8260	TPHG	8015M or 524.2/624 (8260)
	BTEX	8260	BTEX	524.2/624 (8260)
	EDB and EDC	8260	EDB and EDC	524.2/624 (8260)
	MTBE, TAME, ETBE, DIPE, and TBA by 8260 for soil and 524.2/624 (8260) for water			
	TOTAL LEAD	AA	TOTAL LEAD	AA
		-- Optional --		
	Organic Lead	DHS-LUFT	Organic Lead	DHS-LUFT
Unknown Fuel	TPHG	8015M or 8260	TPHG	8015M or 524.2/624 (8260)
	TPHD	8015M or 8260	TPHD	8015M or 524.2/624 (8260)
	BTEX	8260	BTEX	524.2/624 (8260)
	EDB and EDC	8260	EDB and EDC	524.2/624 (8260)
	MTBE, TAME, ETBE, DIPE, and TBA by 8260 for soil and 524.2/624 (8260) for water			
	TOTAL LEAD	AA	TOTAL LEAD	AA
	-- Optional --			
	Organic Lead	DHS-LUFT	Organic Lead	DHS-LUFT
Diesel, Jet Fuel, Kerosene, and Fuel/Heating Oil	TPHD	8015M or 8260	TPHD	8015M or 524.2/624 (8260)
	BTEX	8260	BTEX	524.2/624 (8260)
	EDB and EDC	8260	EDB and EDC	524.2/624 (8260)
	MTBE, TAME, ETBE, DIPE, and TBA by 8260 for soil and 524.2-624 (8260) for water			
Chlorinated Solvents	CL HC	8260	CL HC	524.2/624 (8260)
	BTEX	8060 or 8021	BTEX	524.2/624 (8260) or 524.2/602 (8021)
Non-chlorinated Solvents	TPHD	8015M or 8260	TPHD	8015M or 524.2/624 (8260)
	BTEX	8060 or 8021	BTEX	524.2/624 (8260) or 524.2/602 (8021)
Waste, Used, or Unknown Oil	TPHG	8015M or 8260	TPHG	8015M or 524.2/624 (8260)
	TPHD	8015M or 8260	TPHD	8015M or 524.2/624 (8260)
	O&G	9070	O&G	418.1
	BTEX	8260	BTEX	524.2/624 (8260)
	CL HC	8260	CL HC	524.2/624 (8260)
	EDB and EDC	8260	EDB and EDC	524.2/624 (8260)
	MTBE, TAME, ETBE, DIPE, and TBA by 8260 for soil and 524.2/624 (8260) for water			
	METALS (Cd, Cr, Pb, Ni, Zn) by ICAP or AA for soil and water			
PCB*, PCP*, PNA, CREOSOTE by 8270 for soil and 524/625 (8270) for water				
* If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)				

**NOTES:**

1. 8021 replaces old methods 8020 and 8010
2. 8260 replaces old method 8240
3. Reference: Table B-1 in Appendix B of "Expedited Site Assessment Tools for Underground Storage Tank Sites: A Guide for Regulators" (EPA 510-B-97-001)



16. Chemical methods and associated detection limits to be used for analyzing sample(s):

**The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits shall be followed.**

See Table 2, Recommended Minimum Verification Analyses for Underground Tank Leaks.

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
TPH (g) TPH (d) BTEX MTBE Total lead			1.0 mg/kg 1.0 mg/kg 5.0 mg/kg  5.0 mg/kg

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer State Compensation Insurance Fund

19. 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 (URL) form.

22. **Submit a closure report to this office within 60 days of the tank removal. The closure 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).

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 has been 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 AEI Consultants

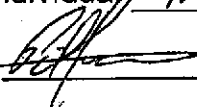
Name of Individual PETER HOVERSEN

Signature  Date 2/18/04

PROPERTY OWNER OR [ ] MOST RECENT TANK OPERATOR (Check one)

Name of Business \_\_\_\_\_

Name of Individual Mr. Nat Piazza

Signature  Agent for Owner Date \_\_\_\_\_

UNIFIED PROGRAM CONSOLIDATED FORM

TANKS

UNDERGROUND STORAGE TANKS - FACILITY

(one page per site) Page 1 of 1

TYPE OF ACTION  1. NEW SITE PERMIT  3. RENEWAL PERMIT  5. CHANGE OF INFORMATION  7. PERMANENTLY CLOSED SITE  
 (Check one item only)  4. AMENDED PERMIT specify change local use only  8. TANK REMOVED  
 6. TEMPORARY SITE CLOSURE

400

I. FACILITY / SITE INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) <sup>3</sup>			FACILITY ID#		
20957 Baker Road, Castro Valley CA					
NEAREST CROSS STREET <sup>401</sup>		FACILITY OWNER TYPE		<input type="checkbox"/> 4. LOCAL AGENCY/DISTRICT*	
Castro Valley Blvd		<input type="checkbox"/> 1. CORPORATION		<input type="checkbox"/> 5. COUNTY AGENCY*	
BUSINESS TYPE <sup>403</sup>		<input checked="" type="checkbox"/> 2. INDIVIDUAL		<input type="checkbox"/> 6. STATE AGENCY*	
<input type="checkbox"/> 1. GAS STATION <input type="checkbox"/> 2. DISTRIBUTOR <input type="checkbox"/> 3. FARM <input type="checkbox"/> 4. PROCESSOR <input type="checkbox"/> 6. OTHER		<input type="checkbox"/> 3. PARTNERSHIP		<input type="checkbox"/> 7. FEDERAL AGENCY* <sup>402</sup>	
TOTAL NUMBER OF TANKS REMAINING AT SITE <sup>404</sup>	Is facility on Indian Reservation or trustlands? <sup>405</sup>	*If owner of UST is a public agency: name of supervisor of division, section or office which operates the UST (This is the contact person for the tank records.)			
0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				

II. PROPERTY OWNER INFORMATION

PROPERTY OWNER NAME <sup>407</sup>		PHONE <sup>408</sup>	
Mr. Nat Piazza		925 828-1577	
MAILING OR STREET ADDRESS <sup>409</sup>			
7613 Peppertree Rd.			
CITY <sup>410</sup>	STATE <sup>411</sup>	ZIP CODE <sup>412</sup>	
Dublin	CA	94569	
PROPERTY OWNER TYPE <sup>413</sup>			
<input type="checkbox"/> 1. CORPORATION <input checked="" type="checkbox"/> 2. INDIVIDUAL <input type="checkbox"/> 4. LOCAL AGENCY / DISTRICT <input type="checkbox"/> 6. STATE AGENCY <input type="checkbox"/> 3. PARTNERSHIP <input type="checkbox"/> 5. COUNTY AGENCY <input type="checkbox"/> 7. FEDERAL AGENCY			

III. TANK OWNER INFORMATION

TANK OWNER NAME <sup>414</sup>		PHONE <sup>415</sup>	
SAME AS PROPERTY OWNER			
MAILING OR STREET ADDRESS <sup>416</sup>			
CITY <sup>417</sup> STATE <sup>418</sup> ZIP CODE <sup>419</sup>			
TANK OWNER TYPE <sup>420</sup>			
<input type="checkbox"/> 1. CORPORATION <input checked="" type="checkbox"/> 2. INDIVIDUAL <input type="checkbox"/> 4. LOCAL AGENCY / DISTRICT <input type="checkbox"/> 6. STATE AGENCY <input type="checkbox"/> 3. PARTNERSHIP <input type="checkbox"/> 5. COUNTY AGENCY <input type="checkbox"/> 7. FEDERAL AGENCY			

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

TY (TK) HQ 44-	Call (916) 322-9669 if questions arise	<sup>421</sup>
----------------	--	----------------

V. PETROLEUM UST FINANCIAL RESPONSIBILITY

INDICATE METHOD(S) <sup>422</sup>			
<input type="checkbox"/> 1. SELF-INSURED	<input type="checkbox"/> 4. SURETY BOND	<input type="checkbox"/> 7. STATE FUND	<input type="checkbox"/> 10. LOCAL GOVT MECHANISM
<input type="checkbox"/> 2. GUARANTEE	<input type="checkbox"/> 5. LETTER OF CREDIT	<input type="checkbox"/> 8. STATE FUND & CFO LETTER	<input type="checkbox"/> 99. OTHER:
<input type="checkbox"/> 3. INSURANCE	<input type="checkbox"/> 6. EXEMPTION	<input type="checkbox"/> 9. STATE FUND & CD	

VI. LEGAL NOTIFICATION AND MAILING ADDRESS

Check one box to indicate which address should be used for legal notifications and mailing. Legal notifications and mailings will be sent to the tank owner unless box 1 or 2 is checked.

1. FACILITY  2. PROPERTY OWNER  3. TANK OWNER <sup>423</sup>

VII. APPLICANT SIGNATURE

Certification: I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF APPLICANT <sup>424</sup>	DATE <sup>424</sup>	PHONE <sup>425</sup>
<i>[Signature]</i> Agent for Owner	2/18/04	925 283 6000
NAME OF APPLICANT (print) <sup>426</sup>	TITLE OF APPLICANT <sup>427</sup>	
PETER HANSEN - AEI	PROJECT MANAGER	
STATE UST FACILITY NUMBER (For local use only) <sup>428</sup>	1998 UPGRADE CERTIFICATE NUMBER (For local use only) <sup>429</sup>	

UNIFIED PROGRAM CONSOLIDATED FORM

TANKS

UNDERGROUND STORAGE TANKS - TANK PAGE 1

(two pages per tank)

Page 1 of 2

TYPE OF ACTION (Check one item only)

1 NEW SITE PERMIT     4 AMENDED PERMIT     5 CHANGE OF INFORMATION     6 TEMPORARY SITE CLOSURE

3 RENEWAL PERMIT    (Specify reason - for local use only)    (Specify reason - for local use only)     7 PERMANENTLY CLOSED ON SITE

8 TANK REMOVED    430

BUSINESS NAME (Name as FACILITY NAME or DBA - Doing Business As)    FACILITY ID:

20957 BAKER RD. Castro Valley CA    3    431

LOCATION WITHIN SITE (Optional)

I. TANK DESCRIPTION (A scaled plot plan with the location of the UST system including buildings and landmarks shall be submitted to the local agency.)

TANK ID #    432    TANK MANUFACTURER    433    COMPARTMENTALIZED TANK     Yes     No    434

DATE INSTALLED (YEAR/MO)    435    TANK CAPACITY IN GALLONS    436    NUMBER OF COMPARTMENTS    437

UNKNOWN    500    N/A

ADDITIONAL DESCRIPTION (For local use only)    438

II. TANK CONTENTS    440

TANK USE    439    PETROLEUM TYPE

1. MOTOR VEHICLE FUEL (If marked complete Petroleum Type)

2. NON-FUEL PETROLEUM

3. CHEMICAL PRODUCT

4. HAZARDOUS WASTE (Includes Used Oil)

95. UNKNOWN

1a. REGULAR UNLEADED     2. LEADED     5. JET FUEL

1b. PREMIUM UNLEADED     3. DIESEL     6. AVIATION FUEL

1c. MIDGRADE UNLEADED     4. GASOHOL     99. OTHER

COMMON NAME (from Hazardous Materials Inventory page)    441    CAS# (from Hazardous Materials Inventory page)    442

Gasoline

III. TANK CONSTRUCTION

TYPE OF TANK (Check one item only)

1. SINGLE WALL     3. SINGLE WALL WITH EXTERIOR MEMBRANE LINER     5. SINGLE WALL WITH INTERNAL BLADDER SYSTEM    443

2. DOUBLE WALL     4. SINGLE WALL IN VAULT     95. UNKNOWN

TANK MATERIAL - primary tank (Check one item only)

1. BARE STEEL     3. FIBERGLASS / PLASTIC     5. CONCRETE     95. UNKNOWN    444

2. STAINLESS STEEL     4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP)     8. FRP COMPITBLE W/100% METHANOL     99. OTHER

TANK MATERIAL - secondary tank (Check one item only)

1. BARE STEEL     3. FIBERGLASS / PLASTIC     5. CONCRETE     95. UNKNOWN    445

2. STAINLESS STEEL     4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP)     8. FRP COMPITBLE W/100% METHANOL     99. OTHER

5. CONCRETE

TANK INTERIOR LINING     1. RUBBER LINED     3. EPOXY LINING     5. GLASS LINING     95. UNKNOWN    446    DATE INSTALLED    447

OR COATING (Check one item only)

2. ALKYD LINING     4. PHENOLIC LINING     6. UNLINED     99. OTHER

(For local use only)

OTHER CORROSION PROTECTION IF APPLICABLE (Check one item only)

1 MANUFACTURED CATHODIC PROTECTION     3 FIBERGLASS REINFORCED PLASTIC     95 UNKNOWN    448    DATE INSTALLED    449

2 SACRIFICIAL ANODE     4 IMPRESSED CURRENT     99 OTHER

(For local use only)

SPILL AND OVERFILL (Check all that apply)

YEAR INSTALLED    450    TYPE (local use only)    451

1 SPILL CONTAINMENT

2 DROP TUBE

3 STRIKER PLATE

OVERFILL PROTECTION EQUIPMENT: YEAR INSTALLED    452

1 ALARM     3 FILL TUBE SHUT OFF VALVE

2 BALL FLOAT     4 EXEMPT

IV. TANK LEAK DETECTION (A description of the monitoring program shall be submitted to the local agency.)

IF SINGLE WALL TANK (Check all that apply)    453

1 VISUAL (EXPOSED PORTION ONLY)

2 AUTOMATIC TANK GAUGING (ATG)

3 CONTINUOUS ATG

4 STATISTICAL INVENTORY RECONCILIATION (SIR) BIENNIAL TANK TESTING

5 MANUAL TANK GAUGING (MTG)

6 VADOSE ZONE

7 GROUNDWATER

8 TANK TESTING

99 OTHER

IF DOUBLE WALL TANK OR TANK WITH BLADDER (Check one item only)    454

1 VISUAL (SINGLE WALL IN VAULT ONLY)

2 CONTINUOUS INTERSTITIAL MONITORING

3 MANUAL MONITORING

V. TANK CLOSURE INFORMATION / PERMANENT CLOSURE IN PLACE

ESTIMATED DATE LAST USED (YR/MO/DAY)    455    ESTIMATED QUANTITY OF SUBSTANCE REMAINING    456    TANK FILLED WITH INERT MATERIAL?    457

UNKNOWN    UNKNOWN    gallons     Yes     No

UNIFIED PROGRAM CONSOLIDATED FORM

TANKS

UNDERGROUND STORAGE TANKS - TANK PAGE 2

Page 2 of 2

VI. PIPING CONSTRUCTION (Check all that apply)

UNDERGROUND PIPING		ABOVEGROUND PIPING	
SYSTEM TYPE	<input type="checkbox"/> 1. PRESSURE <input type="checkbox"/> 2. SUCTION <input type="checkbox"/> 3. GRAVITY	458	<input type="checkbox"/> 1. PRESSURE <input type="checkbox"/> 2. SUCTION <input type="checkbox"/> 3. GRAVITY
CONSTRUCTION	<input type="checkbox"/> 1. SINGLE WALL <input type="checkbox"/> 3. LINED TRENCH <input type="checkbox"/> 99. OTHER	460	<input type="checkbox"/> 1. SINGLE WALL <input checked="" type="checkbox"/> 95. UNKNOWN
MANUFACTURER	<input type="checkbox"/> 2. DOUBLE WALL <input checked="" type="checkbox"/> 95. UNKNOWN	461	<input type="checkbox"/> 2. DOUBLE WALL <input type="checkbox"/> 99. OTHER
MANUFACTURER		MANUFACTURER	
<input type="checkbox"/> 1. BARE STEEL	<input type="checkbox"/> 6. FRP COMPATIBLE w/100% METHANOL	<input type="checkbox"/> 1. BARE STEEL	<input type="checkbox"/> 6. FRP COMPATIBLE w/100% METHANOL
<input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 7. GALVANIZED STEEL <input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 7. GALVANIZED STEEL
<input type="checkbox"/> 3. PLASTIC COMPATIBLE w/ CONTENTS	<input type="checkbox"/> 99. Other	<input type="checkbox"/> 3. PLASTIC COMPATIBLE w/ CONTENTS	<input type="checkbox"/> 8. FLEXIBLE (HDPE) <input type="checkbox"/> 99. OTHER
<input type="checkbox"/> 4. FIBERGLASS	<input type="checkbox"/> 8. FLEXIBLE (HDPE)	<input type="checkbox"/> 4. FIBERGLASS	<input type="checkbox"/> 9. CATHODIC PROTECTION
<input type="checkbox"/> 5. STEEL W/COATING	<input type="checkbox"/> 9. CATHODIC PROTECTION	<input type="checkbox"/> 5. STEEL W/COATING	<input checked="" type="checkbox"/> 95. UNKNOWN

VII. PIPING LEAK DETECTION (Check all that apply) (A description of the monitoring program shall be submitted to the local agency.)

UNDERGROUND PIPING	ABOVEGROUND PIPING
<p><b>SINGLE WALL PIPING</b> 466</p> <p>PRESSURIZED PIPING (Check all that apply):</p> <p><input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.</p> <p><input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST</p> <p><input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1GPH)</p> <p>CONVENTIONAL SUCTION SYSTEMS</p> <p><input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING INTEGRITY TEST (0.1 GPH)</p> <p>SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):</p> <p><input type="checkbox"/> 7. SELF MONITORING</p> <p>GRAVITY FLOW</p> <p><input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)</p> <p><b>SECONDARILY CONTAINED PIPING</b></p> <p>PRESSURIZED PIPING (Check all that apply):</p> <p>10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)</p> <p><input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS</p> <p><input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION</p> <p><input type="checkbox"/> c. NO AUTO PUMP SHUT OFF</p> <p><input type="checkbox"/> 11. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITH FLOW SHUT OFF OR RESTRICTION</p> <p><input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH)</p> <p>SUCTION/GRAVITY SYSTEM</p> <p><input type="checkbox"/> 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS</p> <p><b>EMERGENCY GENERATORS ONLY</b> (Check all that apply)</p> <p><input type="checkbox"/> 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF * AUDIBLE AND VISUAL ALARMS</p> <p><input type="checkbox"/> 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF OR RESTRICTION</p> <p><input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH)</p> <p><input type="checkbox"/> 17. DAILY VISUAL CHECK</p>	<p><b>SINGLE WALL PIPING</b> 467</p> <p>PRESSURIZED PIPING (Check all that apply):</p> <p><input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.</p> <p><input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST</p> <p><input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1GPH)</p> <p><input type="checkbox"/> 4. DAILY VISUAL CHECK</p> <p>CONVENTIONAL SUCTION SYSTEMS (Check all that apply)</p> <p><input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM</p> <p><input type="checkbox"/> 6. TRIENNIAL INTEGRITY TEST (0.1 GPH)</p> <p>SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):</p> <p><input type="checkbox"/> 7. SELF MONITORING</p> <p>GRAVITY FLOW (Check all that apply):</p> <p><input type="checkbox"/> 8. DAILY VISUAL MONITORING</p> <p><input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)</p> <p><b>SECONDARILY CONTAINED PIPING</b></p> <p>PRESSURIZED PIPING (Check all that apply):</p> <p>10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)</p> <p><input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS</p> <p><input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION</p> <p><input type="checkbox"/> c. NO AUTO PUMP SHUT OFF</p> <p><input type="checkbox"/> 11. AUTOMATIC LEAK DETECTOR</p> <p><input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH)</p> <p>SUCTION/GRAVITY SYSTEM</p> <p><input type="checkbox"/> 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS</p> <p><b>EMERGENCY GENERATORS ONLY</b> (Check all that apply)</p> <p><input type="checkbox"/> 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF * AUDIBLE AND VISUAL ALARMS</p> <p><input type="checkbox"/> 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST)</p> <p><input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH)</p> <p><input type="checkbox"/> 17. DAILY VISUAL CHECK</p>

VIII. DISPENSER CONTAINMENT

DISPENSER CONTAINMENT	<input type="checkbox"/> 1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE	<input type="checkbox"/> 4. DAILY VISUAL CHECK
DATE INSTALLED	468	<input type="checkbox"/> 2. CONTINUOUS DISPENSER PAN SENSOR + AUDIBLE AND VISUAL ALARMS
	<input type="checkbox"/> 3. CONTINUOUS DISPENSER PAN SENSOR WITH AUTO SHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS	<input type="checkbox"/> 5. TRENCH LINER / MONITORING
		<input checked="" type="checkbox"/> 6. NONE

IX. OWNER/OPERATOR SIGNATURE

I certify that the information provided herein is true and accurate to the best of my knowledge.		470
SIGNATURE OF OWNER/OPERATOR	DATE	471
<i>[Signature]</i>	2/13/04	
NAME OF OWNER/OPERATOR (print)	TITLE OF OWNER/OPERATOR	472
PETER HANSEN - AE1	PROJECT MANAGER	

Permit Number (For local use only) 473 Permit Approved (For local use only) 474 Permit Expiration Date (For local use only) 475

UNIFIED PROGRAM CONSOLIDATED FORM

TANKS

UNDERGROUND STORAGE TANKS - TANK PAGE 1

(two pages per tank)

Page 1 of 2

TYPE OF ACTION  1 NEW SITE PERMIT  4 AMENDED PERMIT  5 CHANGE OF INFORMATION  6 TEMPORARY SITE CLOSURE  
 (Check one item only)  3 RENEWAL PERMIT (Specify reason - for local use only)  7 PERMANENTLY CLOSED ON SITE  8 TANK REMOVED 430

BUSINESS NAME (Name as FACILITY NAME or DBA - Doing Business As) 20957 BAKER RD. Castro Valley CA 3 FACILITY ID: \_\_\_\_\_  
 LOCATION WITHIN SITE (Optional) \_\_\_\_\_ 431

I. TANK DESCRIPTION (A scaled plot plan with the location of the UST system including buildings and landmarks shall be submitted to the local agency.)

TANK ID # _____ 432	TANK MANUFACTURER <u>UNKNOWN</u> 433	COMPARTMENTALIZED TANK <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 434 <small>(If "Yes", complete one page for each compartment.)</small>
DATE INSTALLED (YEAR/MO) <u>UNKNOWN</u> 435	TANK CAPACITY IN GALLONS <u>500</u> 436	NUMBER OF COMPARTMENTS <u>N/A</u> 437
ADDITIONAL DESCRIPTION (For local use only) _____ 438		

II. TANK CONTENTS

TANK USE 439 <input checked="" type="checkbox"/> 1 MOTOR VEHICLE FUEL (If marked complete Petroleum Type) <input checked="" type="checkbox"/> 2. NON-FUEL PETROLEUM <input type="checkbox"/> 3. CHEMICAL PRODUCT <input type="checkbox"/> 4. HAZARDOUS WASTE (Includes Used Oil) <input type="checkbox"/> 95. UNKNOWN	PETROLEUM TYPE 440 <input type="checkbox"/> 1a. REGULAR UNLEADED <input type="checkbox"/> 2. LEADED <input type="checkbox"/> 5. JET FUEL <input type="checkbox"/> 1b. PREMIUM UNLEADED <input checked="" type="checkbox"/> 3. DIESEL <input type="checkbox"/> 6. AVIATION FUEL <input type="checkbox"/> 1c. MIDGRADE UNLEADED <input type="checkbox"/> 4. GASOHOL <input type="checkbox"/> 99. OTHER	
COMMON NAME (from Hazardous Materials Inventory page) 441		CAS# (from Hazardous Materials Inventory page) 442

III. TANK CONSTRUCTION

TYPE OF TANK (Check one item only) <input checked="" type="checkbox"/> 1. SINGLE WALL <input type="checkbox"/> 3. SINGLE WALL WITH EXTERIOR MEMBRANE LINER <input type="checkbox"/> 5. SINGLE WALL WITH INTERNAL BLADDER SYSTEM <input type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 2. DOUBLE WALL <input type="checkbox"/> 4. SINGLE WALL IN VAULT <input type="checkbox"/> 99. OTHER	TANK MATERIAL - primary tank (Check one item only) <input type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 3. FIBERGLASS / PLASTIC <input type="checkbox"/> 5. CONCRETE <input checked="" type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 2. STAINLESS STEEL <input type="checkbox"/> 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP) <input type="checkbox"/> 8. FRP COMPATIBLE W/100% METHANOL <input type="checkbox"/> 99. OTHER
TANK MATERIAL - secondary tank (Check one item only) <input type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 3. FIBERGLASS / PLASTIC <input type="checkbox"/> 5. CONCRETE <input checked="" type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 2. STAINLESS STEEL <input type="checkbox"/> 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP) <input type="checkbox"/> 8. FRP COMPATIBLE W/100% METHANOL <input type="checkbox"/> 99. OTHER <input type="checkbox"/> 10. COATED STEEL	TANK INTERIOR LINING (Check one item only) <input type="checkbox"/> 1. RUBBER LINED <input type="checkbox"/> 3. EPOXY LINING <input type="checkbox"/> 5. GLASS LINING <input checked="" type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 2. ALKYO LINING <input type="checkbox"/> 4. PHENOLIC LINING <input type="checkbox"/> 6 UNLINED <input type="checkbox"/> 99 OTHER
OTHER CORROSION PROTECTION IF APPLICABLE (Check one item only) <input type="checkbox"/> 1 MANUFACTURED CATHODIC PROTECTION <input type="checkbox"/> 3 FIBERGLASS REINFORCED PLASTIC <input checked="" type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 2 SACRIFICIAL ANODE <input type="checkbox"/> 4 IMPRESSED CURRENT <input type="checkbox"/> 99 OTHER	DATE INSTALLED _____ 449

SPILL AND OVERFILL (Check all that apply) <input type="checkbox"/> 1 SPILL CONTAINMENT <input type="checkbox"/> 2 DROP TUBE <input type="checkbox"/> 3 STRIKER PLATE	YEAR INSTALLED _____ 450	TYPE (local use only) _____ 451	OVERFILL PROTECTION EQUIPMENT: YEAR INSTALLED _____ 452 <input type="checkbox"/> 1 ALARM <input type="checkbox"/> 3 FILL TUBE SHUT OFF VALVE <input type="checkbox"/> 2 BALL FLOAT <input checked="" type="checkbox"/> 4 EXEMPT
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IV. TANK LEAK DETECTION (A description of the monitoring program shall be submitted to the local agency.)

IF SINGLE WALL TANK (Check all that apply) 453 <input type="checkbox"/> 1 VISUAL (EXPOSED PORTION ONLY) <input type="checkbox"/> 2 AUTOMATIC TANK GAUGING (ATG) <input type="checkbox"/> 3 CONTINUOUS ATG <input type="checkbox"/> 4 STATISTICAL INVENTORY RECONCILIATION (SIR) BIENNIAL TANK TESTING	<input checked="" type="checkbox"/> 5 MANUAL TANK GAUGING (MTG) <input type="checkbox"/> 6 VADOSE ZONE <input type="checkbox"/> 7 GROUNDWATER <input type="checkbox"/> 8 TANK TESTING <input type="checkbox"/> 99 OTHER	IF DOUBLE WALL TANK OR TANK WITH BLADDER (Check one item only) 454 <input type="checkbox"/> 1 VISUAL (SINGLE WALL IN VAULT ONLY) <input type="checkbox"/> 2 CONTINUOUS INTERSTITIAL MONITORING <input type="checkbox"/> 3 MANUAL MONITORING
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IV. TANK CLOSURE INFORMATION / PERMANENT CLOSURE IN PLACE

ESTIMATED DATE LAST USED (YR/MO/DAY) <u>UNKNOWN</u> 455	ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>UNKNOWN</u> gallons 456	TANK FILLED WITH INERT MATERIAL? <input type="checkbox"/> Yes <input type="checkbox"/> No 457
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**UNIFIED PROGRAM CONSOLIDATED FORM**

**TANKS**

**UNDERGROUND STORAGE TANKS - TANK PAGE 2**

**VI. PIPING CONSTRUCTION (Check all that apply)**

Page 2 of 2

UNDERGROUND PIPING				ABOVEGROUND PIPING						
SYSTEM TYPE	<input type="checkbox"/> 1. PRESSURE	<input type="checkbox"/> 2. SUCTION	<input type="checkbox"/> 3. GRAVITY	458	<input type="checkbox"/> 1. PRESSURE	<input type="checkbox"/> 2. SUCTION	<input type="checkbox"/> 3. GRAVITY	459		
CONSTRUCTION	<input type="checkbox"/> 1. SINGLE WALL	<input type="checkbox"/> 3. LINED TRENCH	<input type="checkbox"/> 99. OTHER	460	<input type="checkbox"/> 1. SINGLE WALL	<input checked="" type="checkbox"/> 95. UNKNOWN	<input type="checkbox"/> 99. OTHER	462		
MANUFACTURER	<input type="checkbox"/> 2. DOUBLE WALL	<input checked="" type="checkbox"/> 95. UNKNOWN		461	<input type="checkbox"/> 2. DOUBLE WALL			463		
<input type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 2. STAINLESS STEEL <input type="checkbox"/> 3. PLASTIC COMPATIBLE W/ CONTENTS <input type="checkbox"/> 4. FIBERGLASS <input type="checkbox"/> 5. STEEL W/COATING		<input type="checkbox"/> 6. FRP COMPATIBLE w/100% METHANOL <input type="checkbox"/> 7. GALVANIZED STEEL <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> 99. Other			<input type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 2. STAINLESS STEEL <input type="checkbox"/> 3. PLASTIC COMPATIBLE W/ CONTENTS <input type="checkbox"/> 4. FIBERGLASS <input type="checkbox"/> 5. STEEL W/COATING		<input type="checkbox"/> 6. FRP COMPATIBLE W/100% METHANOL <input type="checkbox"/> 7. GALVANIZED STEEL <input type="checkbox"/> 8. FLEXIBLE (HDPE) <input type="checkbox"/> 9. CATHODIC PROTECTION <input checked="" type="checkbox"/> 95. UNKNOWN		464	465

**VII. PIPING LEAK DETECTION (Check all that apply) (A description of the monitoring program shall be submitted to the local agency.)**

UNDERGROUND PIPING	ABOVEGROUND PIPING
<p align="center"><b>SINGLE WALL PIPING</b> 466</p> <p>PRESSURIZED PIPING (Check all that apply):</p> <p><input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.</p> <p><input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST</p> <p><input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1GPH)</p> <p>CONVENTIONAL SUCTION SYSTEMS</p> <p><input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING INTEGRITY TEST (0.1 GPH)</p> <p>SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):</p> <p><input type="checkbox"/> 7. SELF MONITORING</p> <p>GRAVITY FLOW</p> <p><input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)</p> <p align="center"><b>SECONDARILY CONTAINED PIPING</b></p> <p>PRESSURIZED PIPING (Check all that apply):</p> <p>10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)</p> <p><input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS</p> <p><input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION</p> <p><input type="checkbox"/> c. NO AUTO PUMP SHUT OFF</p> <p><input type="checkbox"/> 11. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITH FLOW SHUT OFF OR RESTRICTION</p> <p><input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH)</p> <p>SUCTION/GRAVITY SYSTEM</p> <p><input type="checkbox"/> 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS</p> <p align="center"><b>EMERGENCY GENERATORS ONLY (Check all that apply)</b></p> <p><input type="checkbox"/> 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS</p> <p><input type="checkbox"/> 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF OR RESTRICTION</p> <p><input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH)</p> <p><input type="checkbox"/> 17. DAILY VISUAL CHECK</p>	<p align="center"><b>SINGLE WALL PIPING</b> 467</p> <p>PRESSURIZED PIPING (Check all that apply):</p> <p><input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.</p> <p><input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST</p> <p><input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1GPH)</p> <p><input type="checkbox"/> 4. DAILY VISUAL CHECK</p> <p>CONVENTIONAL SUCTION SYSTEMS (Check all that apply):</p> <p><input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM</p> <p><input type="checkbox"/> 6. TRIENNIAL INTEGRITY TEST (0.1 GPH)</p> <p>SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):</p> <p><input type="checkbox"/> 7. SELF MONITORING</p> <p>GRAVITY FLOW (Check all that apply):</p> <p><input type="checkbox"/> 8. DAILY VISUAL MONITORING</p> <p><input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)</p> <p align="center"><b>SECONDARILY CONTAINED PIPING</b></p> <p>PRESSURIZED PIPING (Check all that apply):</p> <p>10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)</p> <p><input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS</p> <p><input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION</p> <p><input type="checkbox"/> c. NO AUTO PUMP SHUT OFF</p> <p><input type="checkbox"/> 11. AUTOMATIC LEAK DETECTOR</p> <p><input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH)</p> <p>SUCTION/GRAVITY SYSTEM</p> <p><input type="checkbox"/> 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS</p> <p align="center"><b>EMERGENCY GENERATORS ONLY (Check all that apply)</b></p> <p><input type="checkbox"/> 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS</p> <p><input type="checkbox"/> 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST)</p> <p><input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH)</p> <p><input type="checkbox"/> 17. DAILY VISUAL CHECK</p>

**VIII. DISPENSER CONTAINMENT**

DISPENSER CONTAINMENT	<input type="checkbox"/> 1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE	<input type="checkbox"/> 4. DAILY VISUAL CHECK
DATE INSTALLED	468	<input type="checkbox"/> 5. TRENCH LINER / MONITORING
	<input type="checkbox"/> 2. CONTINUOUS DISPENSER PAN SENSOR + AUDIBLE AND VISUAL ALARMS	<input checked="" type="checkbox"/> 6. NONE
	<input type="checkbox"/> 3. CONTINUOUS DISPENSER PAN SENSOR WITH AUTO SHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS	469

**IX. OWNER/OPERATOR SIGNATURE**

I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF OWNER/OPERATOR	DATE
<i>[Signature]</i>	2/18/04
NAME OF OWNER/OPERATOR (print)	TITLE OF OWNER/OPERATOR
PETER HANSON - AEI	PROJECT MANAGER
Permit Number (For local use only) 473	Permit Expiration Date (For local use only) 475

**HEALTH AND SAFETY PLAN**

Prepared for:

Underground Storage Tank Removal  
at  
20957 Baker Road  
Castro Valley, California 94546



## D. HAZARD EVALUATION

Potential chemical hazards include skin and eye contact or inhalation exposure to potentially toxic concentrations of hydrocarbon vapors. The potential toxic compounds that may exist at the site are listed below with descriptions of specific health effects of each. The list includes the primary potential toxic constituents that may be found at sites which previously handled petroleum hydrocarbons, including home heating diesel fuel.

### 1. Benzene

- a. Colorless to light yellow, flammable liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact**.
- c. Exposure may irritate eyes, nose and respiratory system and may cause acute restlessness, convulsions, nausea, or depression. Benzene is carcinogenic.\*
- d. Permissible exposure level (PEL) for a time weighted average (TWA) over an eight hour period is 1.0 ppm.

### 2. Toluene

- a. Colorless liquid with a sweet, pungent, benzene like odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact**.
- c. Exposure may cause fatigue, weakness, confusion, euphoria, dizziness, headaches, dilated pupils, lacrimation, nervousness, insomnia, paresthesia, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

### 3. Xylene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact**.
- c. Exposure may irritate eyes nose and throat and may cause dizziness, excitement, drowsiness, incoordination, corneal vacuolization, anorexia, nausea, vomiting, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

### 4. Ethylbenzene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, ingestion, and skin and/or eye contact**. Ethylbenzene is carcinogenic.\*
- c. Exposure may irritate eyes and mucous membrane and may cause headaches, dermatitis, narcosis and loss of consciousness.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

\* Known to the State of California to cause cancer.

Dusty Roy has been designated to coordinate access control and security on site. All work will strictly follow OSHA guidelines. A safe perimeter has been established at a three foot radius surrounding the site. These boundaries are identified by yellow caution tape and orange safety cones. Personnel shall maintain the maximum distance from the pit while performing their duties. No one shall enter an excavation pit that is greater than five feet in depth unless the excavation is shored or sloped and no one shall climb on the stockpiled material except to cover it with plastic. Additional hazards on site include heavy equipment and overhead lifting equipment. Heavy equipment used for performing the tank removal project may include a backhoe, an excavator, or a crane for lifting the tank out of the excavation. Only 40 hour trained personnel will operate equipment or perform any duty associated with this project. A hard hat and steel toed boots are mandatory for all personnel associated with the tank removal.

A FIRST AID KIT AND A 40 POUND BC FIRE EXTINGUISHER WILL BE AVAILABLE ON SITE.

EMERGENCY SERVICES ARE AVAILABLE BY DIALING 911 ON THE TELEPHONE LOCATED IN THE SITE MANAGER'S VEHICLE. THIS VEHICLE WILL BE ON SITE AT ALL TIMES.

## **E. PERSONAL PROTECTIVE CLOTHING**

Based on evaluation of potential hazards, level "D" protective clothing has been designated as the appropriate protection for this project. The level of protective clothing will be upgraded if the organic vapor levels in the operator's breathing zone exceeds 5 ppm above background levels continuously for more than five minutes, or if any single reading exceeds 25 ppm. If this occurs then level C protection will be used. If the organic concentration in the operator's breathing zone exceeds 200 ppm for 5 minutes and/or the organic vapor concentration two feet above the excavation exceeds 1,000 ppm or 10% of the lower explosive limit, then the equipment will be shut down and the site evacuated. If organic vapor concentrations exceed 200 ppm and work continues then level B protection will be required.

"EPA Standard Operating Safety Guidelines" defines the levels of protective clothing as follows:

### LEVEL A:

Fully encapsulating suit / SCBA / Hard hat / Steel toe boots / Safety gloves.

### LEVEL B:

Splash resistant suit / SCBA / Hard Hat / Steel toe boots / Safety gloves.

### LEVEL C:

Half face respirator / Hard hat / Safety glasses / Steel toe boots / Coveralls / Gloves.

### LEVEL D:

**H. READ AND SIGN**

The work party was briefed on the contents of this plan on \_\_\_\_\_ at 8:00 am. All site personnel have read the above plan and are familiar with its provisions.

NAME:

SIGNATURE:

COMPANY NAME:

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## TRANSPORTATION SERVICE ORDER

SERVICE ORDER # **260667**

52T1157

DATE: 4-21-04

Name: ALL ENVIRONMENTAL Job Location: CASTRO VALLEY CA

Address (BILLING): \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

Ordered by: T. Williams #50 Company: \_\_\_\_\_ P.O. #: \_\_\_\_\_

Name (PRINT): K. CLARK Signed: [Signature]

Truck #: 12038 Trailer #: \_\_\_\_\_ Size/Type: 33'

Services performed: TWO 7,500 GALLON TANKS TO FCT-E

FOR DISPOSAL

COLUMBIA TRUCK SERVICE

TIME

MANIFEST # # <u>23422835</u>	DISPOSAL # # _____	Start <u>10:00</u> <sup>AM</sup> Stop: _____ <sup>PM</sup>	Gross Time: _____ Hrs.
# _____	# _____	MEALS: Start _____ <sup>AM</sup> Stop: _____ <sup>PM</sup>	Less: _____ Hrs.
#Loads: _____ Qty: _____	BBL: _____ Gal: _____ Tons: _____ Yards: _____	Other Time: _____ Add/Deduct	Total: _____ Hrs.

SITE

Time In: 11:30 AM Time In: \_\_\_\_\_ Time In: \_\_\_\_\_ Stop Miles: \_\_\_\_\_  
 Time Out: 2:00 PM Time Out: \_\_\_\_\_ Time Out: \_\_\_\_\_ Start Miles: 72924  
 Miles Driven: \_\_\_\_\_

DESCRIPTION

	QTY.	U.O.M.	RATE	EXT.		QTY.	U.O.M.	RATE	EXT.
Vacuum Truck					Disposal				
End Dump					Washout				
Roll-off					Roper Pump				
Flat Bed					Bin Liner				
Tank Mover					Surcharge				
Driver Relief									
Subsistence									

Authorized & Approved by: [Signature] Title: [Signature]

**TOTAL \$ CHARGES: \$**

If invoice is not paid within 30 days, interest shall commence accruing at 1.5% per month. Should suit be commenced to collect any portion of this invoice, Ecology Control Industries shall be entitled to any costs deemed reasonable by the court, including attorney fees.

UNIFORM HAZARDOUS  
WASTE MANIFEST

1. Generator's US EPA ID No. <i>01010020000410000101010</i>	Manifest Document No. <i>1</i>	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
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3. Generator's Name and Mailing Address <i>20757 Baker St. Nat Pizza Cala Walling Co.</i>	A. State Manifest Document Number <b>21026720</b>
	B. State Generator's ID
4. Generator's Phone <i>916-732-1277</i>	C. State Transporter's ID [Reserved.]
5. Transporter 1 Company Name <i>Caltrans</i>	6. US EPA ID Number
7. Transporter 2 Company Name	8. US EPA ID Number
9. Designated Facility Name and Site Address <i>Riverbank Oil Transfer 7300 River Rd. Riverbank CA 95271</i>	10. US EPA ID Number
D. Transporter's Phone	
E. State Transporter's ID [Reserved.]	
F. Transporter's Phone	
G. State Facility's ID	
H. Facility's Phone	

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste Number
	No.	Type			
a. <i>Non-RCRA Hazardous Waste Liquid</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>55 Gallons</i>	State <i>001</i> EPA/Other <i>1000</i>
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
	a. b. c. d.

15. Special Handling Instructions and Additional Information  
*Emergency Phone Class ERG 1*

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 <i>CRIST BARR</i>	Signature <i>Crist Barr</i>	Month Day Year <i>04 01 04</i>
17. Transporter 1 Acknowledgement of Receipt of Materials - Printed/Typed Name <i>Caltrans</i>	Signature <i>Caltrans</i>	Month Day Year <i>04 01 04</i>
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.

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

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

GENERATOR

FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>CAC00257452022835</b>	Manifest Document No. <b>1 of 1</b>	2. Page 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address <b>Nat Piazza 7613 Peppertree Rd. Dublin CA 94568</b>			A. State Manifest Document Number <b>23422835</b>		
4. Generator's Phone (925) <b>828-1577</b>			B. State Generator's ID		
5. Transporter 1 Company Name <b>Ecology Control Industries</b>		6. US EPA ID Number <b>C A T 0 9 8 2 0 3 6 1 7 0</b>	C. State Transporter's ID [Reserved.]		
7. Transporter 2 Company Name		8. US EPA ID Number	D. Transporter's Phone <b>540 225 1000</b>		
9. Designated Facility Name and Site Address <b>Ecology Control Industries 288 PARR BLVD. RICHMOND CA 94804</b>		10. US EPA ID Number <b>C A T 0 9 8 2 0 3 6 1 7 0</b>	E. State Transporter's ID [Reserved.]		
			F. Transporter's Phone		
			G. State Facility's ID		
			H. Facility's Phone <b>540 225 1000</b>		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. <b>NON HAZARDOUS WASTE SOLID (EMPTY STORAGE TANK) AND Associated Piping</b>		<b>002 TIP</b>	<b>02000 P</b>		State <b>012</b> EPA/Other
b.					State <b>NONE</b> EPA/Other
c.					State EPA/Other
d.					State EPA/Other
J. Additional Descriptions for Materials Listed Above <b>QTY: 2 EMPTY STORAGE TANK # 31559 31560 TANKS HAVE BEEN INERTED WITH 15 LBS DRY ICE PER 1000 GALLONS CAPACITY</b>			K. Handling Codes for Wastes Listed Above a. b. c. d.		
15. Special Handling Instructions and Additional Information <b>24 hour Emergency Contact: Peter Hoverson Wear proper protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number: (925) 283-6000 SITE ADDRESS: 28957 Baker Rd Castro Valley CA 94546</b>			<b>JN: 5271157</b>		
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 <b>PETER HOVERSON</b>		Signature <i>[Signature]</i>		Month Day Year <b>04 21 04</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <b>Kevin E. Clark</b>		Signature <i>[Signature]</i>		Month Day Year <b>04 21 04</b>	
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.



# McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 Website: www.mcccampbell.com E-mail: main@mcccampbell.com

All Environmental, Inc.  2500 Camino Diablo, Ste. #200  Walnut Creek, CA 94597	Client Project ID: #8131; Baker R.D	Date Sampled: 04/21/04
		Date Received: 04/21/04
	Client Contact: Peter Hoverson	Date Extracted: 04/21/04
	Client P.O.:	Date Analyzed: 04/22/04-04/24/04

## Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0404313


Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	T1W-EB8'	S	160,g,m	ND<0.50	ND<0.050	ND<0.050	ND<0.050	ND<0.050	10	84.4
002A	T2W-EB8'	S	1400,g,m	ND<10	ND<1.0	ND<1.0	ND<1.0	8.4	200	107
003A	T1E-EB8'	S	190,g,m	ND<1.7	ND<0.17	ND<0.17	ND<0.17	ND<0.17	33	89.8
004A	T2E-EB8'	S	460,g,m	ND<0.50	ND<0.050	ND<0.050	ND<0.050	0.25	10	85.3
005A	T1STKP1-4	S	ND	ND	ND	ND	ND	ND	1	82.1
006A	T2STKP1-4	S	ND	ND	ND	ND	ND	ND	1	85.2

Reporting Limit for DF=1; ND means not detected at or above the reporting limit	W	NA	NA	NA	NA	NA	NA	NA	1	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	1	mg/Kg

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell 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 / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

 Angela Rydelius, Lab Manager



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All Environmental, Inc.  2500 Camino Diablo, Ste. #200  Walnut Creek, CA 94597	Client Project ID: #8131; Baker R.D	Date Sampled: 04/21/04
		Date Received: 04/21/04
	Client Contact: Peter Hoverson	Date Extracted: 04/21/04
	Client P.O.:	Date Analyzed: 04/22/04-04/23/04

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

Extraction method: SW3550C

Analytical methods: SW8015C

Work Order: 0404313

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0404313-001A	T1W-EB8'	S	4900,a	100	90.0
0404313-002A	T2W-EB8'	S	2400,d,b	50	116
0404313-003A	T1E-EB8'	S	10,000,a	100	102
0404313-004A	T2E-EB8'	S	1400,d,b	20	109
0404313-005A	T1STKP1-4	S	77,c,g	5	93.9
0404313-006A	T2STKP1-4	S	2.1,g,b	1	102

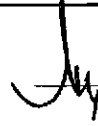
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/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 McC Campbell 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) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS Certification No. 1644

 Angela Rydelius, Lab Manager





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 Website: www.mcccampbell.com E-mail: main@mcccampbell.com

All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #8131; Baker R.D	Date Sampled: 04/21/04
		Date Received: 04/21/04
	Client Contact: Peter Hoverson	Date Extracted: 04/21/04
	Client P.O.:	Date Analyzed: 04/22/04-04/23/04

### Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0404313

Lab ID	0404313-001A	0404313-002A	0404313-003A	0404313-004A	Reporting Limit for DF =1	
Client ID	T1W-EB8'	T2W-EB8'	T1E-EB8'	T2E-EB8'	S	W
Matrix	S	S	S	S		
DF	200	200	40	200		

Compound	Concentration				µg/Kg	ug/L
tert-Amyl methyl ether (TAME)	ND<1000	ND<1000	ND<200	ND<1000	5.0	NA
t-Butyl alcohol (TBA)	ND<5000	ND<5000	ND<1000	ND<5000	25	NA
1,2-Dibromoethane (EDB)	ND<1000	ND<1000	ND<200	ND<1000	5.0	NA
1,2-Dichloroethane (1,2-DCA)	ND<1000	ND<1000	ND<200	ND<1000	5.0	NA
Diisopropyl ether (DIPE)	ND<1000	ND<1000	ND<200	ND<1000	5.0	NA
Ethyl tert-butyl ether (ETBE)	ND<1000	ND<1000	ND<200	ND<1000	5.0	NA
Methyl-t-butyl ether (MTBE)	ND<1000	ND<1000	ND<200	ND<1000	5.0	NA

### Surrogate Recoveries (%)

%SS:	118	115	109	114	
Comments	j	j	j	j	

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

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

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #8131; Baker R.D	Date Sampled: 04/21/04
		Date Received: 04/21/04
	Client Contact: Peter Hoverson	Date Extracted: 04/21/04
	Client P.O.:	Date Analyzed: 04/22/04-04/23/04

### Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0404313

Lab ID	0404313-005A	0404313-006A			Reporting Limit for DF =1
Client ID	T1STKP1-4	T2STKP1-4			
Matrix	S	S			
DF	1	1			

Compound	Concentration				µg/Kg	ug/L
tert-Amyl methyl ether (TAME)	ND	ND			5.0	NA
t-Butyl alcohol (TBA)	ND	ND			25	NA
1,2-Dibromoethane (EDB)	ND	ND			5.0	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND			5.0	NA
Diisopropyl ether (DIPE)	ND	ND			5.0	NA
Ethyl tert-butyl ether (ETBE)	ND	ND			5.0	NA
Methyl-t-butyl ether (MTBE)	ND	ND			5.0	NA

### Surrogate Recoveries (%)

%SS:	109	103			
Comments					

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

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

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.





QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0404313

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 11209			Spiked Sample ID: 0404306-017A			
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) <sup>E</sup>	ND	0.60	101	102	0.861	101	102	1.59	70	130
MTBE	ND	0.10	96.7	99.7	3.01	95.3	95	0.353	70	130
Benzene	ND	0.10	99.8	107	6.82	99	101	1.72	70	130
Toluene	ND	0.10	84.9	90.8	6.68	84.3	85.1	0.947	70	130
Ethylbenzene	ND	0.10	105	109	4.07	104	105	1.01	70	130
Xylenes	ND	0.30	95.7	100	4.43	95.3	95.7	0.349	70	130
%SS:	88.1	0.10	98.2	106	7.64	93.2	96.4	3.38	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>E</sup> TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



**McC Campbell Analytical, Inc.**

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
Website: www.mccampbell.com E-mail: main@mccampbell.com

### QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0404313

EPA Method: SW8015C		Extraction: SW3550C			BatchID: 11215			Spiked Sample ID: 0404315-001A		
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	1.35	150	105	103	1.39	108	110	1.70	70	130
%SS:	91.9	50	104	102	1.16	97.5	99	1.55	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$ ;  $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

TL QA/QC Officer



QC SUMMARY REPORT FOR SW8260B

Matrix: S

WorkOrder: 0404313

EPA Method: SW8260B		Extraction: SW5030B		BatchID: 11216			Spiked Sample ID: 0404356-002A			
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/Kg	µg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
tert-Amyl methyl ether (TAME)	ND	50	99.6	101	1.49	94.3	95.1	0.896	70	130
Benzene	ND	50	107	108	1.42	110	111	0.680	70	130
t-Butyl alcohol (TBA)	ND	250	99.1	96.8	2.37	111	116	4.50	70	130
Chlorobenzene	ND	50	96.2	99.5	3.34	99.2	101	2.17	70	130
1,2-Dibromoethane (EDB)	ND	50	108	105	2.92	102	104	1.95	70	130
1,2-Dichloroethane (1,2-DCA)	ND	50	114	111	2.27	110	112	2.20	70	130
1,1-Dichloroethene	ND	50	92.4	97.3	5.23	99.5	101	1.75	70	130
Diisopropyl ether (DIPE)	ND	50	102	103	0.733	95.1	95.7	0.597	70	130
Ethyl tert-butyl ether (ETBE)	ND	50	104	102	1.43	102	102	0	70	130
Methyl-t-butyl ether (MTBE)	ND	50	106	108	1.59	99.7	101	1.18	70	130
Toluene	ND	50	93.8	99.9	6.25	96.5	98.2	1.74	70	130
Trichloroethene	ND	50	84.2	86.9	3.06	77.9	78.2	0.319	70	130
%SS1:	89.7	50	100	96.1	4.16	103	103	0	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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### QC SUMMARY REPORT FOR SW7010

Matrix: S

WorkOrder: 0404313

EPA Method: SW7010		Extraction: SW3050B		BatchID: 11082		Spiked Sample ID: N/A				
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Lead	N/A	5	N/A	N/A	N/A	98.3	100	1.66	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.


% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* Acceptance Criteria for MS / MSD is between 70% and 130%. MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

 QA/QC Officer

**McC Campbell Analytical, Inc.**



110 Second Avenue South, #D7  
 Pacheco, CA 94553-5560  
 (925) 798-1620

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0404313

ClientID: AEL

Report to:  
 Peter Hoverson  
 All Environmental, Inc.  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597

TEL: (925) 283-6000  
 FAX: (925) 283-6121  
 ProjectNo: #8131; Baker R.D  
 PO:

Bill to:  
 Lesliegh Alderman  
 All Environmental, Inc.  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597

Requested TAT: 5 days  
 Date Received: 4/21/04  
 Date Printed: 4/21/04

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0404313-001	T1W-EB8'	Soil	4/21/04	<input type="checkbox"/>	A	A	A	A												
0404313-002	T2W-EB8'	Soil	4/21/04	<input type="checkbox"/>	A	A	A	A												
0404313-003	T1E-EB8'	Soil	4/21/04	<input type="checkbox"/>	A	A	A	A												
0404313-004	T2E-EB8'	Soil	4/21/04	<input type="checkbox"/>	A	A	A	A												
0404313-005	T1STKP1-4	Soil	4/21/04	<input type="checkbox"/>	A	A	A	A												
0404313-006	T2STKP1-4	Soil	4/21/04	<input type="checkbox"/>	A	A	A	A												

Test Legend:

1	5-OXYS+PBSCV_S	2	G-MBTEX_S	3	PBAA_S	4	TPH(D)_S	5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Melissa Valles

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.



**McCAMPBELL ANALYTICAL INC.**

110 2<sup>ND</sup> AVENUE SOUTH, #D7  
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

**CHAIN OF CUSTODY RECORD**

**TURN AROUND TIME**

RUSH  24 HR  48 HR  72 HR  5/DAY

EDF Required?  Yes  No

Report To: Peter HOVERSEN Bill To: \_\_\_\_\_  
Company: AEI Consultants  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597 E-Mail: \_\_\_\_\_  
Tele: (925) 944-2899 Fax: (925) 944-2895  
Project #: 8131 Project Name: BAKER RD.  
Project Location: CASTRO VALLEY  
Sampler Signature: \_\_\_\_\_

**Analysis Request**

**Other**

**Comments**

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	AA	Fuel oxy (82.60)	Pb. Scav (EDB, EDC) 82.60			
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO <sub>3</sub>	Other																					
T1W-EB8		4/21		1			X				X																								
T2W-EB8				1			X				X																								
T1E-EB8				1	BRASS		X				X																								
T2E-EB8				1	BRASS		X				X																								
<del>STK-P1-4</del>				4	BRASS		X				X																								
T1STK-P1-4				4			X				X																								
T2STK-P1-4				4			X				X																								

Relinquished By: \_\_\_\_\_ Date: 4/21/04 Time: 4:50pm Received By: \_\_\_\_\_  
Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_  
Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

ICE/# 1 PRESERVATION APPROPRIATE CONTAINERS \_\_\_\_\_  
GOOD CONDITION \_\_\_\_\_  
HEAD SPACE ABSENT \_\_\_\_\_  
DECHLORINATED IN LAB \_\_\_\_\_  
VOAS \_\_\_\_\_ O&G \_\_\_\_\_ METALS \_\_\_\_\_ OTHER \_\_\_\_\_  
PERSERVED IN LAB \_\_\_\_\_